

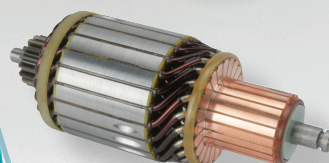
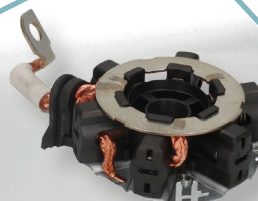


Your Expert  
in Parts

## STARTER & DYNASTARTER COMPONENTS

2023-2025

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PROGRAM  
IN OUR  
ONLINE  
SHOP





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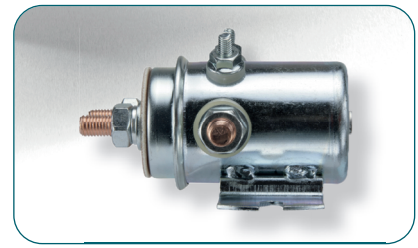
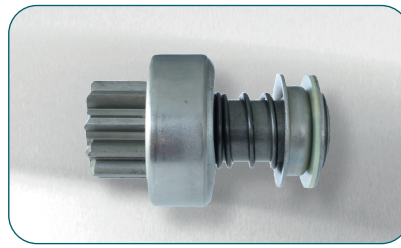
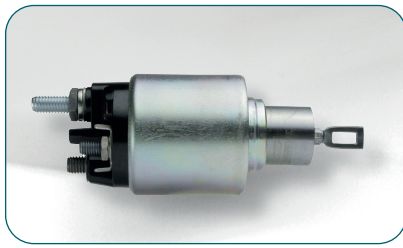


### Warranty policy

We pride ourselves on excellent quality, but now you can rest even easier knowing that all HC-CARGO branded products purchased are now covered by a fantastic 2-Year Warranty







## HC-CARGO Components - All you need

- High market coverage = all relevant parts for starters and alternators
- HC-CARGO components are used in production of leading reman brands
- Main HC-CARGO components are also available on TecAlliance

We stock an extensive range of starter components like solenoids, bearings, brush gears, drives, armatures and other parts used for rebuilding starters.

Most spare part dealers only offer specialised programs. We have decided to offer a broad product range to meet the demands of customers in the best possible way.

We continuously extend our product portfolio to offer the most comprehensive solution whether it is a simple replacement of a complete unit or a component.

You can always see an up-to-date and complete program by using our web catalogue at [www.hc-cargo.com](http://www.hc-cargo.com). The catalogue also includes a complete cross reference list.

With the HC-CARGO program, you have a one-stop-supplier opportunity for components.

## We offer applications for multiple purposes!

Our components program includes applications for cars, trucks, industrial machines, agricultural, marine and various outdoor power equipment.

### Automotive

Very high coverage as to European vehicle population



### Trucks, trailers & buses

Very high coverage as to European vehicle population



### Agriculture

High coverage as to European vehicle population



### Industrial

Selected parts for industrial & outdoor equipment



### Marine

Selected parts for marine applications



### Motorcycle

Selected parts for motorcycles





## HC-CARGO Bearings

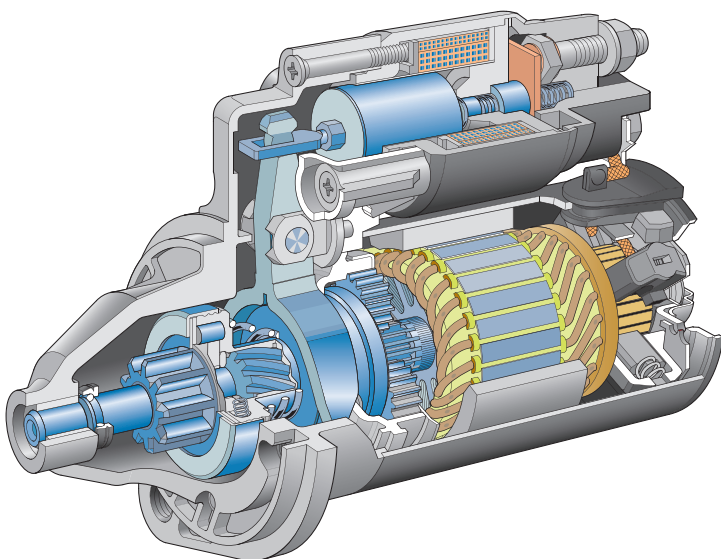
HC-CARGO high performance bearings are developed to meet the requirements for the new generation of start/stop starters and high performance alternators, which require a bearing covering the challenge of high temperature resistance and long lifetime.

The HC-CARGO bearings are tested and approved via tests under tough conditions to meet requirements even higher than standard bearings.

HC-CARGO bearings are used in leading rebuilder companies worldwide.



Scan the QR code and see our animated video about starter and alternator components.



## High Quality Alternatives in HC-CARGO

We offer a high quality guarantee with thorough testing carried out by our quality assurance department. Our engineers test the parts in terms of interaction, perfect fit and easy installation before the products are approved and released for sale. This procedure ensures that we keep the promised high quality. You can easily find our recommendations - look for these quality stamps @ HC-CARGO

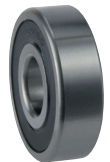


### High Performance

Highest Aftermarket Quality.

Designed and developed for high endurance and long lifetime. Only products meeting the highest aftermarket quality-requirements will be a part of our portfolio and released for sales. This is our promise and guarantee to our customers.

- Quality mark for the highest quality
- Designed and developed for high endurance and long lifetime
- Visible in printed catalogues, online as well as on selected packaging



5-star

The HC-CARGO 5-star range contains starters and alternators and the components for these (as well as A/C compressors). HC-CARGO 5-star products are acquired from OEMs and traders of original equipment. This ensures products of high performance and reliability.

We offer this alternative to make all auto electrical spare parts available at HC-CARGO. Both for the cost-conscious and the high-quality orientated customer - enabling you to do all your shopping in one place.

These alternative high-quality products have been marked with a "5-star" icon both in printed catalogues, as well as in our online shop, where you will always find the up-to-date portfolio.

You will find the entire HC-CARGO product portfolio available in our online shop.





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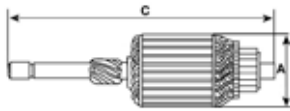
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## ABBREVIATIONS:

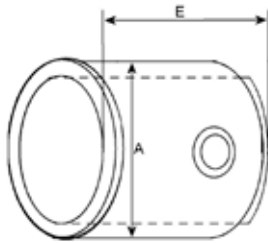
A/Amp=Ampere, ACR=Automatic Charging Relay, AT=Automatic transmission, BSF=British Standard Fine, CCW=Counter Clockwise Rotation, CW=Clockwise Rotation, D=Insulated, DD=Direct drive, Dia.=Diameter, Dim.=Dimension, DIN=Deutsches Institut für normung, Dist.=Distance, EF=External fan, GR=Gear reduction, HD=Heavy duty, ID=Inner diameter, ISO=International Organisation for Standardization, kW=Kilowatt, Mount.=Mounting, N.C.=Normally Closed, Neg.=Negative, No.=Number, OEM=Original Equipment Manufacturer, OD=Outer diameter, Pkg.=Packaging, Pos.=Positive, PS=Power steering, UNF=Unified National Fine thread, UNC=Unified National Coarse Thread, V=Volt, w/=with, w/o=without, 15=Connection for the auxiliary start, 30h=W/ additional terminal 30h, 3(2)=Number of fixing holes - Number in brackets represent threaded holes, ( )=Vehicle type, [ ]=Engine type

### For armatures specific:



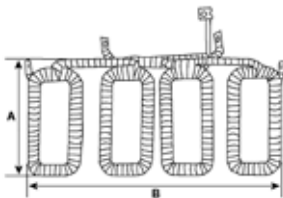
A = Core thickness  
C = Shaft length

### For yokes specific:



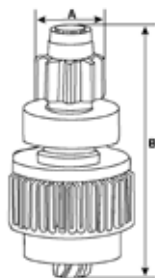
A = OD/middle  
E = Length

### For field coils specific:

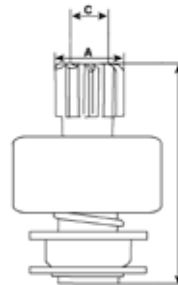


A = Height  
B = Width

### For drives specific:

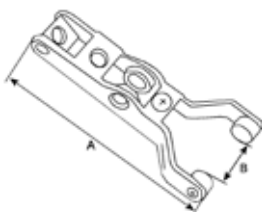


A = OD  
B = Total length



A = OD  
B = Total length  
C = ID

### For levers specific:



A = Length  
B = Distance



TERMINAL CHART	Field / Rotor	Ground	Charging Lamp	Ignition	Point Central	Tacho / Stator	CPU Control	Battery Sense	Battery	Dummy
BOSCH	DF/F1/F2	B-/D-	D+/61/L/61E	15		W	COM/DF DFM/FR LI/RC LIN	S	B+	
BUTEC	F	-	D+						B+	
CHRYSLER	F1/F2/FLD	GRD							B+	
DELPHI			L				DFM		B+	
DENSO	F/F1/F2	E-	L	IG/R	N	P	FR/C/M	S	B/A	D
DUCELLIER	EXC	-/B-	D+	+		W			B+	
ELMOT	67	31	15			W			B+	
FORD (VISTEON)	DF/F/FLD	D-/-VE	D+/IND/I			W/STA/S			B+/Bat	
HITACHI	F	E	L	IG/R	N	P	FR/G	S	B/A	D
ISKRA	DF	D-	D+			W			B+	
LADA	67	31	15						B+/30	
LUCAS	F	-	D+			STA/W		S	B+	
PAL/MAGNETON	M	-	R						B+	
MANDO (VALEO)	F	E	L/I	IG/R	N	P		S	B/A	D
MARELLI	67	31	15		C	W	FR/SIG LI/STD PHIN/RC		B+/30	
MITSUBISHI	F	E	L	IG/R	N	P	FR/G/D	S	B/A	D
MOTOROLA	EXC	-/B-	D+			W			B+	
PARIS RHONE	EXC	-/B-	L			W			B+	
REMY (DELCO)	F	GRD	D+/L/1	I/IG		P/R/W	F	M/S/2	B+	
SEV MARCHAL	DF	-/B-	61+			W			B+	
VALEO	EXC	-	L/D+/61E	15/+		W	COM/FR DF/DFM LIN		B+	



Care is taken to ensure the accuracy of descriptions and applications of each item, but **CAR GO** assumes no responsibility for possible errors.  
O.E.M. names and numbers are used for reference purposes only.  
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## Armatures

9 V



### 131934 Armature

Servicing: 0001362047

9 Volt, 2.0 kW, Shaft dia. 18.90, Shaft length 285.00, Height/bar 7.00, Height/bar lane 28.40, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
12 V: HC-CARGO 130116.



### 133084 Armature

Servicing: 0001354004, 0001354005, 0001354018, 0001354027, 0001354031, 0001354077, 0001354079, 0001354085

9 Volt, 1.4 kW, Bar dist. 2.15, Bar cross dist. 44.60, Shaft dia. 18.90, Shaft length 300.00, Bar length 8.30, Height/bar 4.70, Height/bar lane 20.00, Core thickness 73.00, No./bars 29, No./splines 3, Rotation CW  
12 V: HC-CARGO 130109.



### 133085 Armature

Servicing: 0001354082, 0001354090, 0001354091, 0001354092

9 Volt, 1.8 kW, Bar dist. 2.20, Bar cross dist. 44.70, Shaft dia. 18.85, Shaft length 300.00, Bar length 8.50, Height/bar 5.10, Height/bar lane 19.90, Core thickness 73.00, No./bars 29, No./splines 10, Rotation CW  
12 V: HC-CARGO 130110.



### 133086 Armature

Servicing: 0001362009, 0001362016, 0001362022, 0001362024

9 Volt, 2.4 kW, Bar dist. 2.70, Bar cross dist. 43.65, Shaft dia. 18.85, Shaft length 288.00, Bar length 9.40, Height/bar 6.45, Height/bar lane 24.10, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
12 V: HC-CARGO 130114.



### 133087 Armature

Servicing: 0001362034, 0001362035, 0001362036, 0001362037, 0001362039, 0001362040, 0001362041, 0001362042

9 Volt, 2.4 kW, Bar dist. 3.60, Bar cross dist. 49.75, Shaft dia. 18.90, Shaft length 290.20, Bar length 10.00, Height/bar 7.40, Height/bar lane 21.40, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
12 V: HC-CARGO 130115.



### 133088 Armature

9 Volt, 2.4/2.7 kW, Bar dist. 3.60, Bar cross dist. 49.80, Shaft dia. 18.85, Shaft length 312.00, Bar length 10.00, Height/bar 6.25, Height/bar lane 21.65, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
12 V: HC-CARGO 130117.



### 133089 Armature

Servicing: 0001358017, 0001358018, 0001358020, 0001358035

9 Volt, 2.3 kW, Bar dist. 2.55, Bar cross dist. 47.95, Shaft dia. 18.85, Shaft length 335.00, Bar length 9.00, Height/bar 5.00, Height/bar lane 28.60, Core thickness 73.00, No./bars 21, No./splines 3, Rotation CW  
12 V: HC-CARGO 130118.



### 133090 Armature

Servicing: 0001358048, 0001358049, 0001358050, 0001358051

9 Volt, 3.2 kW, Shaft dia. 18.85, Shaft length 332.00, Height/bar 5.15, Height/bar lane 29.10, Core thickness 73.00, No./bars 21, No./splines 10, Rotation CW  
12 V: HC-CARGO 131130.



### 133098 Armature

Servicing: 0001362305, 0001362308, 0001362311, 0001362313, 0001362314, 0001362320, 0001362322, 0001362323

9 Volt, 2/2.4/2.7 kW, Bar dist. 2.80, Bar cross dist. 50.00, Shaft dia. 18.90, Shaft length 290.50, Bar length 9.30, Height/bar 6.00, Height/bar lane 21.40, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
12 V: HC-CARGO 132158.



### 133510 Armature

Servicing: 0001317007, 0001317013, 0001317022, 0001317023

9 Volt, 1.7 kW, Bar dist. 2.50, Bar cross dist. 36.30, Shaft dia. 17.15, Shaft length 263.00, Bar length 10.80, Height/bar 6.35, Height/bar lane 21.50, Core thickness 65.00, No./bars 23, No./splines 10, Rotation CW  
12 V: HC-CARGO 131839.



### 133515 Armature

Servicing: 0001359008, 0001359021, 0001359071

9 Volt, 3.0 kW, Bar dist. 2.30, Bar cross dist. 46.20, Shaft dia. 18.85, Shaft length 333.00, Bar length 10.50, Height/bar 7.65, Height/bar lane 30.30, Core thickness 75.00, No./bars 27, No./splines 10, Rotation CW  
12 V: HC-CARGO 130319.





### 134285 Armature

Servicing: 0001367001, 0001367002, 0001367004, 0001367005, 0001367006, 0001367007, 0001367008, 0001367009

9 Volt, 3.0 kW, Bar dist. 3.50, Bar cross dist. 45.90, Shaft dia. 18.85, Shaft length 337.00, Bar length 10.55, Height/bar 5.85, Height/bar lane 30.00, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
12 V: HC-CARGO 131075.



### 134887 Armature

Servicing: 0001110001, 0001110004, 0001110007, 0001110009, 0001110011, 0001110012, 0001110013, 0001110014

9 Volt, 1.7/1.8 kW, Bar dist. 3.45, Bar cross dist. 41.20, Shaft length 161.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 23.50, Core thickness 60.00, No./bars 23, No./teeth 15, Rotation CW/CCW  
12 V: HC-CARGO 132814.



### 136106 Armature

Servicing: 0001362600, 0001362601, 0001362605

9 Volt, 2.3 kW, Shaft dia. 18.90, Shaft length 285.00, Height/bar 5.90, Height/bar lane 21.30, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
12 V: HC-CARGO 136105.

## 12 V



### 130059 Armature

Replacing: 1004003125, 1004003127, 1004003900

Servicing: 0001311001, 0001311007, 0001311013, 0001311014, 0001311016

12 Volt, 1.0 kW, Bar dist. 1.75, Bar cross dist. 43.15, Shaft length 263.00, Bar length 3.65, Height/bar 5.00, Height/bar lane 22.35, Core thickness 65.00, No./bars 88, No./splines 10, Rotation CW



### 130060 Armature

Replacing: 1004003134, 1004003143, 1004003901

Servicing: 0001311100, 0001311101, 0001311102, 0001311103, 0001311104, 0001311105, 0001311106, 0001311107

12 Volt, 1.1 kW, Bar dist. 1.75, Bar cross dist. 43.15, Shaft length 253.00, Bar length 3.65, Height/bar 5.00, Height/bar lane 22.35, Core thickness 65.00, No./bars 33, No./splines 10, Rotation CW



### 130061 Armature

Replacing: 1004012406, 1004012920, 9001082304, 9001082321, 9001082524, 9001184001

Servicing: 0001211207, 0001211208, 0001211215, 0001211225, 0001211227

12 Volt, 0.8 kW, Bar dist. 2.60, Bar cross dist. 36.80, Shaft length 222.00, Bar length 4.00, Height/bar 5.55, Height/bar lane 16.60, Core thickness 60.00, No./bars 23, No./splines 10, Rotation CW



### 130062 Armature

Replacing: 1004012404, 1004012407, 1004012417, 1004012452, 1004012917, 1004014104

Servicing: 0001204102, 0001204103, 0001211204, 0001211205, 0001211206, 0001211209, 0001211210, 0001211213

12 Volt, 0.8 kW, Bar dist. 2.60, Bar cross dist. 36.80, Shaft dia. 17.35, Shaft length 222.00, Bar length 4.00, Height/bar 5.55, Height/bar lane 16.60, Core thickness 60.00, No./bars 23, No./splines 10, Rotation CW



### 130109 Armature

Replacing: 2004004012, 2004004020, 2004004041, 2004004042, 2004004043, 2004004044

Servicing: 0001354010, 0001354016, 0001354021, 0001354029, 0001354055, 0001354064, 0001354077

12 Volt, 1.4 kW, Shaft dia. 18.85, Shaft length 300.00, Height/bar 4.70, Height/bar lane 21.75, Core thickness 73.00, No./bars 29, No./splines 3  
9 V: HC-CARGO 133084.



### 130110 Armature

Replacing: 2004004051

Servicing: 0001354080, 0001354082, 0001354088, 0001354090, 0001354091, 0001354092, 0001354093, 0001354094

12 Volt, 1.8 kW, Shaft dia. 18.85, Shaft length 300.00, Height/bar 4.20, Height/bar lane 19.65, Core thickness 73.00, No./bars 29, No./splines 10, Rotation CW  
9 V: HC-CARGO 133085.





### 130113 Armature

Replacing: 2004004071, 2007031001

Servicing: 0001362002, 0001362003, 0001362004, 0001362027, 0001362028, 0001362029, 0001362030, 9000143406

12 Volt, 2.4 kW, Bar dist. 3.45, Bar cross dist. 42.55, Shaft dia. 18.90, Shaft length 282.00, Bar length 10.50, Height/bar 6.60, Height/bar lane 23.00, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
9 V: HC-CARGO 131933.



### 130114 Armature

Replacing: 2004004072, 2007031003

Servicing: 0001362005, 0001362006, 0001362007, 0001362008, 0001362009, 0001362010, 0001362011, 0001362012

12 Volt, 2.4 kW, Bar dist. 3.45, Bar cross dist. 42.55, Shaft dia. 18.85, Shaft length 288.00, Bar length 10.50, Height/bar 6.60, Height/bar lane 23.00, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
9 V: HC-CARGO 133086.



### 130115 Armature

Replacing: 2004004074, 2004004095

Servicing: 0001362005, 0001362006, 0001362034, 0001362035, 0001362036, 0001362037, 0001362039, 0001362040

12 Volt, 2.4 kW, Bar dist. 3.60, Bar cross dist. 42.30, Shaft dia. 18.85, Shaft length 290.00, Bar length 10.00, Height/bar 7.40, Height/bar lane 22.45, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
9 V: HC-CARGO 133087.  
Alternative no.: 133087



### 130116 Armature

Replacing: 2004004075

Servicing: 0001362038, 0001362047, 0001362069, 0001362070, 0001362077, 0001362078, 0001362083, 0001362600

12 Volt, 2.0 kW, Bar dist. 3.60, Bar cross dist. 42.30, Shaft dia. 18.85, Shaft length 285.00, Bar length 10.00, Height/bar 7.40, Height/bar lane 22.45, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
9 V: HC-CARGO 131934.



### 130117 Armature

Replacing: 2004004076, 2004004091, 2004004094, 2004004096, 2004014053, 2004014953

Servicing: 0001362051, 0001362052

12 Volt, 2.4/2.7 kW, Bar dist. 3.60, Bar cross dist. 42.30, Shaft dia. 18.85, Shaft length 312.00, Bar length 10.00, Height/bar 7.40, Height/bar lane 22.45, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
9 V: HC-CARGO 133088.



### 130118 Armature

Replacing: 2004004024, 2004004025, 2004004081

Servicing: 0001358017, 0001358018, 0001358020, 0001358026, 0001358033, 0001358035, 0001358038, 0001358046

12 Volt, 2.3 kW, Bar dist. 2.55, Bar cross dist. 47.95, Shaft dia. 18.85, Shaft length 335.00, Bar length 9.00, Height/bar 5.00, Height/bar lane 27.25, Core thickness 73.00, No./bars 21, No./splines 3, Rotation CW  
9 V: HC-CARGO 133089.



### 130122 Armature

Replacing: 1004012011, 1004012413, 1004012428, 1004012449, 1004012913, 1004012914, 1004012915, 2004012011

Servicing: 0001211223, 0001211224, 0001211255, 0001211256, 0001211257, 0001211258

12 Volt, 0.8 kW, Bar dist. 2.60, Bar cross dist. 36.80, Shaft dia. 17.95, Shaft length 215.50, Bar length 4.00, Height/bar 5.55, Height/bar lane 16.60, Core thickness 60.00, No./bars 23, No./splines 10, Rotation CCW



### 130319 Armature

Replacing: 2004004061, 2004004112, 9001140275

Servicing: 0001359001, 0001359002, 0001359003, 0001359004, 0001359008, 0001359010, 0001359012, 0001359013

12 Volt, 3.0 kW, Bar dist. 2.30, Bar cross dist. 46.20, Shaft dia. 18.85, Shaft length 333.00, Bar length 10.50, Height/bar 7.65, Height/bar lane 30.30, Core thickness 75.00, No./bars 33, No./splines 10, Rotation CW  
9 V: HC-CARGO 133515.



### 131051 Armature

Replacing: 1004011003, 2004011032, 9001140182, 9001337082

Servicing: 0001157012, 0001157013, 0001157014, 0001157015, 0001157018, 0001157020, 0001157021

12 Volt, 0.7 kW, Bar dist. 2.00, Bar cross dist. 34.35, Shaft dia. 23.00, Shaft length 222.00, Bar length 4.15, Height/bar 5.50, Height/bar lane 18.75, Core thickness 52.00, No./bars 19, No./splines 10, Rotation CW





### 131075 Armature

Replacing: 2004004003, 2004004005, 2004004006, 2004004007, 2004004010, 2004014060, 2004014960, 2004014961

Servicing: 0001367001, 0001367002, 0001367004, 0001367005, 0001367006, 0001367007

12 Volt, 3.0 kW, Bar dist. 3.50, Bar cross dist. 45.90, Shaft dia. 18.85, Shaft length 337.00, Bar length 10.55, Height/bar 5.85, Height/bar lane 29.30, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
9 V: HC-CARGO 134285.



### 131130 Armature

Replacing: 2004004083

Servicing: 0001358048, 0001358049, 0001358050, 0001358051, B001804003

12 Volt, 3.2 kW, Bar dist. 2.55, Bar cross dist. 47.95, Shaft dia. 18.90, Shaft length 333.00, Bar length 9.00, Height/bar 5.00, Height/bar lane 27.25, Core thickness 73.00, No./bars 21, No./splines 10, Rotation CW  
9 V: HC-CARGO 133090.



### 131663 Armature

Replacing: 1004003130, 1004003133, 1004003138, 1004003142, 1004003170, 1004003912, 9001049121

Servicing: 0001311041, 0001311042, 0001313003, 0001313005, 0001313006, 0001314001

12 Volt, 1.5 kW, Bar dist. 2.60, Bar cross dist. 36.20, Shaft dia. 17.30, Shaft length 263.00, Bar length 10.00, Height/bar 5.85, Height/bar lane 21.00, Core thickness 65.00, No./bars 27, No./splines 10, Rotation CW



### 131665# Armature

Replacing: 2004004069

Servicing: 0001358200, 0001358201, 0001358202

12 Volt, 2.5 kW, Bar dist. 2.30, Bar cross dist. 46.20, Shaft dia. 19.90, Shaft length 303.00, Bar length 10.50, Height/bar 7.65, Height/bar lane 30.30, Core thickness 75.00, No./bars 33, No./splines 10, Rotation CW



### 131839 Armature

Replacing: 1004003150, 1004003154, 1004003907

Servicing: 0001317007, 0001317008, 0001317013, 0001317022, 0001317023

12 Volt, 1.7 kW, Bar dist. 2.50, Bar cross dist. 36.30, Shaft dia. 17.20, Shaft length 263.00, Bar length 10.80, Height/bar 6.35, Height/bar lane 20.80, Core thickness 65.00, No./bars 23, No./splines 10, Rotation CW  
9 V: HC-CARGO 133510.



### 132031 Armature

Replacing: 1004012450, 9001140339, 9003334025, 9003334026, 9003334028, 9003334029, 9003334033, 9003334034

Servicing: 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007

12 Volt, 2.2 kW, Bar dist. 3.50, Bar cross dist. 31.65, Shaft length 158.00, Bar length 6.85, Height/bar 5.00, Height/bar lane 22.25, Core thickness 50.00, No./bars 13, No./teeth 18, Rotation CW



### 132143 Armature

Replacing: 1004012420, 1004012426, 1004012903, 1004012912

Servicing: 0001211500, 0001211501, 0001211502

12 Volt, 0.8 kW, Bar dist. 2.60, Bar cross dist. 36.80, Shaft length 207.50, Bar length 4.00, Height/bar 5.55, Height/bar lane 16.60, Core thickness 60.00, No./bars 23, No./splines 10, Rotation CW



### 132153 Armature

Replacing: 1004012421, 1004012422, 1004012432, 1004012905, 9001304001, 9001334001

Servicing: 0001208501, 0001208502, 0001208507, 0001208510, 0001208513, 0001208514

12 Volt, 0.8/0.85/0.95 kW, Bar dist. 2.80, Bar cross dist. 37.30, Shaft dia. 17.72, Shaft length 216.94, Bar length 4.70, Height/bar 6.60, Height/bar lane 14.85, Core thickness 59.90, No./bars 19, No./splines 10, Rotation CW



### 132156 Armature

Replacing: 1004003132, 1004003139, 1004003171, 1004003913

Servicing: 0001314003, 0001314004, 0001314008, 0001314016

12 Volt, 1.5 kW, Bar dist. 2.60, Bar cross dist. 36.20, Shaft dia. 17.25, Shaft length 263.00, Bar length 10.00, Height/bar 5.85, Height/bar lane 21.00, Core thickness 65.00, No./bars 27, No./splines 10, Rotation CCW





### 132158 Armature

Replacing: 2004004092, 2004004952, 2004014952

Servicing: 0001358040, 0001362034, 0001362035, 0001362036, 0001362039, 0001362041, 0001362042, 0001362045  
12 Volt, 1.9-2.7 kW, Bar dist. 2.58, Bar cross dist. 49.75, Shaft dia. 18.75, Shaft length 290.50, Bar length 9.15, Height/bar 6.00, Height/bar lane 21.55, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
9 V: HC-CARGO 133098.



### 132814 Armature

Replacing: 1004011022, 1004011025, 1004011031, 1004011036, 1004011044, 1004011047, 1004011056, 1004011066

Servicing: 0001110001, 0001110002, 0001110007, 0001110008, 0001110009, 0001110010, 0001110011, 0001110012  
12 Volt, 1.7/1.8 kW, Bar dist. 3.45, Bar cross dist. 41.20, Shaft length 161.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 22.00, Core thickness 60.00, No./bars 23, No./teeth 15, Rotation CW/CCW  
9 V: HC-CARGO 134887.



### 132815 Armature

Replacing: 1004001033, 1004011030, 1004011033, 1004011037, 1004011038, 1004011048, 1004011206

Servicing: 0001110003, 0001110005, 0001110017, 0001110024  
12 Volt, 1.7 kW, Bar dist. 3.45, Bar cross dist. 41.20, Shaft length 163.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 22.00, Core thickness 59.00, No./bars 23, No./teeth 18, Rotation CW/CCW



### 132816 Armature

Manufacturer: Bosch

Replacing: 1004011020, 1004011023, 1004011024, 1004011026, 1004011032, 1004011034, 1004011051, 1004011065

Servicing: 0001108001, 0001108002, 0001108003, 0001108004, 0001108005  
12 Volt, 1.1/1.8 kW, Bar dist. 2.75, Bar cross dist. 41.80, Shaft length 136.00, Bar length 5.45, Height/bar 4.55, Height/bar lane 19.20, Core thickness 55.00, No./bars 28, No./teeth 11, Rotation CW/CCW  
Alternative no.: 335177



### 134514 Armature

Replacing: 1004011039, 1004011042, 1004011062, 1004011068, 1004011086, 1986SE1755

Servicing: 0001107003, 0001107004, 0001107005  
12 Volt, 1.1 kW, Bar dist. 2.00, Bar cross dist. 35.35, Shaft length 123.00, Bar length 4.25, Height/bar 4.90, Height/bar lane 16.95, Core thickness 55.00, No./bars 28, No./teeth 11, Rotation CW/CCW  
Alternative no.: 333588



### 134799 Armature

Replacing: 1004003919, 2004003031

Servicing: 0001312100, 0001312110, B001322002, B001322022  
12 Volt, 1.5 kW, Bar dist. 2.60, Bar cross dist. 36.20, Shaft dia. 18.70, Shaft length 257.00, Bar length 10.00, Height/bar 5.85, Height/bar lane 21.00, Core thickness 65.00, No./bars 27, No./splines 10, Rotation CCW



### 135351 Armature

Replacing: 2004004037, 2004004040, 2004004056, 2004004965, 2004014965

Servicing: 0001369001, 0001369002, 0001369003, 0001369005, 0001369006  
12 Volt, 3.1/3.6 kW, Bar dist. 2.30, Bar cross dist. 46.20, Shaft dia. 18.85, Shaft length 322.50, Bar length 10.50, Height/bar 7.65, Height/bar lane 30.30, Core thickness 75.00, No./bars 33, No./splines 10, Rotation CW



### 136231 Armature

Replacing: 1004011041, 1004011045, 1004011055, 1004011099, 1004011902

Servicing: 0001109001, 0001109002  
12 Volt, 1.6 kW, Bar dist. 3.45, Bar cross dist. 41.20, Shaft length 148.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 22.00, Core thickness 59.00, No./bars 23, No./teeth 18



### 136784 Armature

Replacing: 9003334031, 9003334032

Servicing: 0001218162, 0001218165, 0001218172, 0001218173  
12 Volt, 2.2 kW, Bar dist. 3.50, Bar cross dist. 31.65, Shaft length 152.00, Bar length 6.85, Height/bar 5.00, Height/bar lane 22.25, Core thickness 50.00, No./bars 13, No./splines 15, No./teeth 15





### 136986 Armature

Replacing: 2004004078, 2004014955

Servicing: 0001362085, 0001362094, 0001362099, 0001366005

12 Volt, 1.9/2.4 kW, Bar dist. 2.50, Bar cross dist. 54.30, Shaft dia. 18.90, Shaft length 290.50, Bar length 10.40, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CCW



### 137069 Armature

Replacing: 1004011046, 1004011058, 1004011063, 1004011097

Servicing: 0001107010, 0001107011

12 Volt, 1.1 kW, Bar dist. 2.00, Bar cross dist. 35.35, Shaft dia. 13.39, Shaft length 123.00, Bar length 4.25, Height/bar 4.90, Height/bar lane 16.95, Core thickness 55.00, No./bars 28, No./teeth 9



### 137070 Armature

Manufacturer: Bosch

Replacing: 1004011043, 1004011057, 1004011071, 1004011076, 1004011091, 1004011204

Servicing: 0001108115, 0001108145

12 Volt, 1.4 kW, Bar dist. 2.75, Bar cross dist. 41.80, Shaft dia. 18.00, Shaft length 138.00, Bar length 5.45, Height/bar 4.55, Height/bar lane 19.20, Core thickness 55.00, No./bars 28, No./teeth 9, Rotation CW



### 137233 Armature

Replacing: 2004004055, 2004014967

Servicing: 0001369014, 0001369020, 0001369024, B001828111

12 Volt, 3.1 kW, Shaft dia. 18.90, Shaft length 301.00, Core thickness 75.00, No./bars 33, No./splines 10, Rotation CW



### 137284 Armature

Replacing: 1004011074, 1004011087, 1986SE1856

Servicing: 0001109003, 0001109017, 0001109043, 0001109044, 0001109047

12 Volt, 2.0 kW, Bar dist. 3.45, Bar cross dist. 41.20, Shaft length 149.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 22.00, Core thickness 59.00, No./bars 23, No./teeth 16



### 137479 Armature

Replacing: 9003334027, 9003334030, 9003334037

Servicing: 9000331201, 9000331203

12 Volt, 1.9 kW, Bar dist. 3.50, Bar cross dist. 31.65, Shaft dia. 19.45, Shaft length 158.00, Bar length 6.85, Height/bar 5.00, Height/bar lane 22.25, Core thickness 50.00, No./bars 13, No./teeth 10, Rotation CW



### 137893 Armature

Replacing: 1004011072, 1004011088, 1004011220, F010AL1014

Servicing: 0001109014, 0001109018, 0001109025

12 Volt, 1.8/2 kW, Bar dist. 3.45, Bar cross dist. 41.20, Shaft length 149.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 22.00, Core thickness 59.00, No./bars 23, No./teeth 13

11 tooth: HC-CARGO 230371.



### 138334 Armature

Replacing: 1004003137, 1004003904

Servicing: 0001311115, 0001311134, 0001311135, 0001311138

12 Volt, 1.1 kW, Shaft dia. 22.75, Shaft length 252.00, Height/bar 4.50, Height/bar lane 23.80, Core thickness 65.00, No./bars 27, No./splines 10, Rotation CCW



### 139404# Armature

Manufacturer: Bosch

Replacing: 1004011080, 1004011202, 1004011205, 1004011218, 1986SE1772

Servicing: 0001110017, 0001110026, 0001110079, 0001110089, 0001110095, 0001110114, 0001110126

12 Volt, 1.8 kW, Bar dist. 3.45, Bar cross dist. 41.20, Shaft length 160.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 22.00, Core thickness 59.00, No./bars 23, No./teeth 16, Rotation CW/CCW  
Alternative no.: 335078



### 139658 Armature

Replacing: 1004011083, 1004011096

Servicing: 0001107010, 0001107048, 0001107072, 0001107096, 0001107107, 0001121006

12 Volt, 1.1 kW, Bar dist. 2.00, Bar cross dist. 35.35, Shaft dia. 13.50, Shaft length 123.00, Bar length 4.25, Height/bar 4.90, Height/bar lane 16.95, Core thickness 55.00, No./bars 28, No./teeth 14, Rotation CW/CCW





### 139703 Armature

Manufacturer: Bosch

Replacing: 1004011082, 1986SE1577

Servicing: 0001125501, 0001125502, 0001125503, 0001125504, 0001125507, 0001125508, 0001125511, 0001125512

12 Volt, 2.0 kW, Bar dist. 3.45, Bar cross dist. 41.20, Shaft dia. 7.92, Shaft length 143.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 22.00, Core thickness 59.00, No./bars 23, No./teeth 16, Rotation CW

Alternative no.: 335083



### 139704 Armature

Replacing: 1004011090, 1004011224, 1004011319

Servicing: 0001109021, 0001109022, 0001109066, 0001109067, 0001109070, 0001109202, 0001109203, 0001109265

12 Volt, 2.0 kW, Bar dist. 3.45, Bar cross dist. 41.20, Shaft dia. 19.00, Shaft length 149.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 22.00, Core thickness 59.00, No./bars 23, No./teeth 9, Rotation CW

Alternative no.: 333412



### 230371 Armature

Replacing: 1004011208, 1004011315, 1986SE1583

Servicing: 00010DB98E, 0001109015, 0001109023, 0001109045, 0001109052, 0001109055, 0001109062, 0001109068

12 Volt, 2.1 kW, Bar dist. 3.45, Bar cross dist. 41.20, Shaft dia. 16.90, Shaft length 149.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 22.00, Core thickness 59.00, No./bars 23, No./teeth 11, Rotation CW  
13 tooth: HC-CARGO 137893.

Alternative no.: 333411



### 230518 Armature

Replacing: 1004011067, 1004011207

Servicing: 0001110016, 0001110029, 0001110030, 0001110039, 0001110041, 0001110048, 0001110053, 0001110071

12 Volt, 1.7/1.8 kW, Bar dist. 3.45, Bar cross dist. 41.20, Shaft dia. 18.20, Shaft length 160.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 22.00, Core thickness 59.00, No./bars 23, No./teeth 13, Rotation CW

15 tooth: HC-CARGO 132814.



### 231065 Armature

Manufacturer: Bosch

Replacing: 1004011089

Servicing: 0001106011, 0001106012, 0001106015, 0001106016, 0001106017, 0001106018, 0001106019, 0001106022

12 Volt, 0.9 kW, Bar dist. 2.00, Bar cross dist. 35.35, Shaft dia. 13.50, Shaft length 115.50, Bar length 4.25, Height/bar 4.90, Height/bar lane 16.95, Core thickness 55.00, No./bars 28, No./teeth 9, Rotation CW/CCW

Alternative no.: 335077



### 233475 Armature

Replacing: 6033AD0010, 6033AD0436, 6033AD1059

Servicing: 0001223001, 0001223002, 0001223003, 0001223004, 0001223007

12 Volt, 2.3 kW, Bar dist. 3.70, Bar cross dist. 39.20, Shaft length 144.00, Bar length 1.90, Height/bar 4.57, Height/bar lane 28.90, Core thickness 58.00, No./bars 19, No./teeth 14, Rotation CW



### 233585 Armature

Replacing: 6003AD0121, 6033AD0121, 6033AD3018, 6033AD3242

Servicing: 0001230001, 0001230002, 0001230003, 0001230004

12 Volt, 3.0 kW, Shaft dia. 20.00, Shaft length 169.00, Height/bar lane 37.50, Core thickness 60.00, No./bars 19, No./teeth 16, Rotation CW

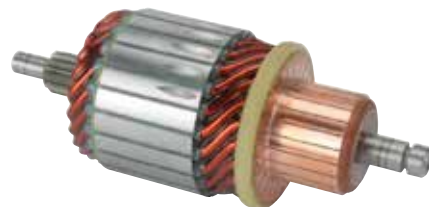


### 233715 Armature

Replacing: 1004011084, 1004011304

Servicing: 0001115005, 0001115006, 0001115009, 0001115011, 0001115013, 0001115035, 0001115045, 0001115046

12 Volt, 1.7 kW, Shaft dia. 15.20, Shaft length 145.50, Height/bar 4.70, Height/bar lane 22.85, Core thickness 55.00, No./bars 23, No./teeth 11, Rotation CW/CCW



### 234022 Armature

Replacing: 1004011073, 1004011092

Servicing: 0001115001, 0001115002, 0001115007, 0001115008, 0001115012, 0001115015, 0001115016

12 Volt, 1.7 kW, Shaft dia. 15.00, Shaft length 146.00, Height/bar 4.70, Height/bar lane 22.85, Core thickness 55.00, No./bars 23, No./teeth 9, Rotation CW





### 235212 Armature

Manufacturer: Bosch

Replacing: 1004011216, 1004011243, 1986SE1584

Servicing: 0001115042, 0001115056, 0001115057, 0001115082, 0001115083, 0001115102, 0001115103, 0001115110

12 Volt, 1.4/1.7 kW, Bar dist. 3.15, Bar cross dist. 23.10, Shaft dia. 15.00, Shaft length 145.50, Bar length 4.50, Height/bar 4.10, Height/bar lane 23.10, Core thickness 55.00, No./bars 23, No./splines 14, No./teeth 14, Rotation CCW

Alternative no.: 335080



### 235324 Armature

Manufacturer: Bosch

Replacing: 1004011212, 1986SE1580, 1986SE1877

Servicing: 0001107401, 0001107404, 0001107405, 0001107408, 0001107411, 0001107415, 0001107423, 0001107424

12 Volt, 1.1 kW, Bar dist. 2.00, Bar cross dist. 37.00, Shaft dia. 13.50, Shaft length 114.00, Bar length 4.00, Height/bar 5.00, Height/bar lane 15.30, Core thickness 52.00, No./bars 28, No./teeth 9, Rotation CW

Used w/ gear: HC-CARGO 235025.

Alternative no.: 335079



### 238108 Armature

Replacing: 1004011217, 1004011235

Servicing: 0001108400, 0001108409, 0001108410, 0001108420, 0001108421, 0001108428

12 Volt, 1.4 kW, Bar dist. 2.60, Bar cross dist. 36.65, Shaft length 129.00, Bar length 5.25, Height/bar 4.75, Height/bar lane 21.90, Core thickness 52.00, No./bars 28, No./teeth 11, Rotation CW



### 239760 Armature

Replacing: 1004011053, 1004011059, 1004011098, 1004011201

Servicing: 0001110001, 0001110002, 0001110004, 0001110007, 0001110008, 0001110009

12 Volt, 1.7/1.8 kW, Shaft length 160.00, Height/bar lane 23.45, Core thickness 59.00, No./bars 23, No./teeth 15, Rotation CW/CCW



### 330084 Armature

Replacing: 1004011210, 1986SE1579

Servicing: 0001107402, 0001107403, 0001107406, 0001107407, 0001107409, 0001107410, 0001107417, 0001107418

12 Volt, 1.2 kW, Bar dist. 2.00, Bar cross dist. 35.35, Shaft length 114.00, Bar length 4.25, Height/bar 4.90, Height/bar lane 16.95, Core thickness 52.00, No./bars 28, No./teeth 11, Rotation CW



### 333098 Armature

Manufacturer: Bosch

Replacing: 1004011214, 1986SE1581

Servicing: 0001120400, 0001120401, 0001120402, 0001120403, 0001120404, 0001120405, 0001120406, 0001120407

12 Volt, 0.9 kW, Bar dist. 2.00, Bar cross dist. 37.00, Shaft dia. 12.40, Shaft length 107.40, Bar length 4.00, Height/bar 5.00, Height/bar lane 15.30, Core thickness 52.00, No./bars 28, No./teeth 11, Rotation CCW

Alternative no.: 335814



### 333360 Armature

Manufacturer: Bosch

Replacing: 1004011215, 1986SE1582

Servicing: 0001108401, 0001108402, 0001108403, 0001108404, 0001108405, 0001108406, 0001108408, 0001108411

12 Volt, 1.4 kW, Shaft length 128.70, Height/bar lane 21.30, Core thickness 51.90, No./bars 28, No./splines 9, No./teeth 9, Rotation CW



### 333411 Armature

Manufacturer: Bosch

Replacing: 1004011208, 1004011315, 1986SE1583

Servicing: 0001109205, 0001109324, 0001109328, 0001109329, 0001109387, 0001109388, 0001109391, 0001109392

12 Volt, Shaft length 149.00, Height/bar lane 22.10, Core thickness 59.00, No./bars 23, No./teeth 11

Alternative no.: 230371



### 333412 Armature

Manufacturer: Bosch

Replacing: 1004011090, 1004011224, 1004011319

Servicing: 0001109069, 0001109070, 0001109262, 0001109263, 0001109271, 0001109272, 0001109273, 0001109274

12 Volt, 2.3 kW, Shaft length 149.00, Height/bar lane 23.20, Core thickness 59.00, No./bars 23, No./teeth 9, Rotation CW

Alternative no.: 139704





### 333424 Armature

Replacing: 1004011263, 1986SE1585

Servicing: 0001115078, 0001115079, 0001115104, 0001115105, 0001115114, 0001115115, 0001115005, 0001115006

12 Volt, Shaft length 145.90, Height/bar lane 23.00, Core thickness 55.10, No./bars 23, No./teeth 11



### 333534 Armature

Manufacturer: Bosch

Replacing: 1004011220, 1004011268, 1986SE1586

Servicing: 0001109300, 0001109315, 0001109422, 0001125609, 0001125610, 0001109010, 0001109016, 0001109018

12 Volt, Shaft length 149.00, Height/bar lane 22.70, Core thickness 59.00, No./bars 22, No./teeth 13



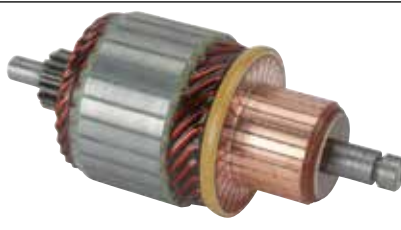
### 333588 Armature

Manufacturer: Bosch

Replacing: 1004011039, 1004011042, 1004011062, 1004011068, 1004011086, 1986SE1755

Servicing: 0001107003, 0001107004, 0001107005, 0001107006, 0001107007, 0001107008, 0001107009, 0001107012

12 Volt, 1.1 kW, Shaft length 123.00, Height/bar lane 18.00, Core thickness 55.00, No./bars 28, No./teeth 11, Rotation CW/CCW  
Alternative no.: 134514



### 333770 Armature

Replacing: 1004011245

Servicing: 0001137001, 0001137002, 0001137003, 0001137004, 0001137005, 0001137006, 0001137011, 0001137012

Shaft dia. 8.00, Shaft length 125.80, Height/bar lane 21.50, Core thickness 52.00, No./bars 28, No./teeth 14, Rotation CW



### 333774 Armature

Replacing: 1004011317

Servicing: 0001138009, 0001138010, 0001138039, 0001138040, 0001142001, 0001142002, 0001142003, 0001142004

12 Volt, Shaft dia. 8.00, Shaft length 138.50, Height/bar lane 24.50, Core thickness 52.00, No./bars 28, No./teeth 11



### 333775# Armature

Replacing: 1004011325

Servicing: 0001179500, 0001179501, 0001179502, 0001179503, 0001179504, 0001179505, 0001179506, 0001179507

12 Volt, Shaft dia. 15.10, Shaft length 111.10, Height/bar lane 26.00, Core thickness 52.00, No./bars 28, No./splines 18

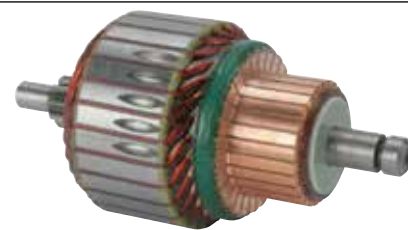


### 334199 Armature

Replacing: 1004011225

Servicing: 0001125519, 0001125520, 0001125521, 0001125522

12 Volt, Bar dist. 3.45, Bar cross dist. 41.20, Shaft dia. 16.90, Shaft length 143.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 22.00, Core thickness 59.00, No./bars 23, No./teeth 11, Rotation CW



### 335077 Armature

Replacing: 1004011089

Servicing: 0001106012, 0001106016, 0001106017, 0001106018, 0001106022, 0001106023, 0001106024, F000AL0101

12 Volt, 0.9 kW, Shaft length 115.50, Height/bar lane 18.30, Core thickness 55.00, No./bars 28, No./teeth 9, Rotation CW/CCW

Alternative no.: 231065



### 335078 Armature

Replacing: 1004011080, 1004011202, 1004011205, 1004011218, 1986SE1772

Servicing: 0001110126, 0001110127, 0001110128, 0001110129, 0001110136, 0001110137, 0001110138, 0001110139

12 Volt, 1.8 kW, Shaft length 160.00, Height/bar lane 22.00, Core thickness 59.00, No./bars 23, No./teeth 16, Rotation CW/CCW  
Alternative no.: 139404



### 335079 Armature

Replacing: 1004011212, 1986SE1580, 1986SE1877

Servicing: 0001107401, 0001107408, 0001107425, 0001107426, 0001107429, 0001107433, 0001107434, 0001107437

12 Volt, 1.1 kW, Shaft length 114.00, Height/bar lane 19.00, Core thickness 52.00, No./bars 28, No./splines 9, Rotation CW

Alternative no.: 235324





### 335080 Armature

Replacing: 1004011216, 1004011243, 1986SE1584

Servicing: 0001115110, 0001123012, 0001123013, 0001123014, 0001123015, 0001123017, 0001123018, 0001123019

12 Volt, 1.4/1.7 kW, Shaft dia. 15.00, Shaft length 145.50, Height/bar lane 23.05, Core thickness 55.00, No./bars 23, No./splines 14, Rotation CCW

Alternative no.: 235212

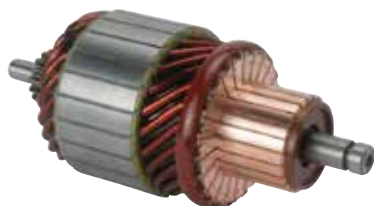


### 335081 Armature

Replacing: 6033AD0446, 6033AD1061, 6033AD1104

Servicing: 0001223013, 0001223014

12 Volt, 2.3 kW, Shaft length 140.30, Core thickness 58.00, No./teeth 14



### 335083 Armature

Replacing: 1004011082, 1986SE1577

Servicing: 0001125501, 0001125502, 0001125503, 0001125504, 0001125507, 0001125508, 0001125511, 0001125512

12 Volt, 2.0 kW, Bar dist. 3.45, Bar cross dist. 41.20, Shaft dia. 7.92, Shaft length 143.00, Bar length 5.45, Height/bar 5.35, Height/bar lane 22.00, Core thickness 59.00, No./bars 23, No./teeth 16, Rotation CW

Alternative no.: 139703



### 335136 Armature

Replacing: 1004011227

Servicing: 0001139001, 0001139002, 0001139005, 0001139006, 0001139013, 0001139014, 0001139017, 0001139018

14 Volt, Shaft length 149.00, Height/bar lane 29.00, Core thickness 59.00, No./bars 23, No./teeth 13



### 335137 Armature

Replacing: 1004011265

Servicing: 0001148003, 0001148004, 0001148009, 0001148010, 0001148019, 0001148020, 0001153015, 0001153016

12 Volt, 2.2 kW, Shaft length 145.80, Height/bar lane 29.50, Core thickness 55.00, No./bars 28, No./teeth 11



### 335142 Armature

Replacing: 1004011340

Servicing: 0001179002, 0001179510, 0001179511, 0001179512, 0001179513, 0001179514, 0001179515, 0001179516

12 Volt, Shaft length 111.10, Height/bar lane 25.50, Core thickness 52.00, No./bars 28, No./splines 18



### 335143 Armature

Replacing: 1004011271

Servicing: 0001152410, 0001152411

12 Volt, Shaft length 138.20, Height/bar lane 23.20, Core thickness 52.00, No./bars 28, No./teeth 11, Rotation CCW



### 335144 Armature

Replacing: 1004011270

Servicing: 0001138057, 0001138058, 0001138059, 0001138060, 0001138061, 0001138062, 0001147424, 0001147425

12 Volt, Shaft length 138.00, Core thickness 52.00, No./bars 28, No./teeth 14, Rotation CW



### 335145 Armature

Replacing: 1004011335

Servicing: 0001153007, 0001153008, 0001153009, 0001148003, 0001148004, 0001148015, 0001148016, 0001148021

12 Volt, Shaft length 145.95, Height/bar lane 30.00, Core thickness 55.10, No./bars 28, No./teeth 14



### 335177 Armature

Replacing: 1004011020, 1004011023, 1004011024, 1004011026, 1004011032, 1004011034, 1004011051, 1004011065

Servicing: 0001108001, 0001108002, 0001108003, 0001108004, 0001108009, 0001108010, 0001108011, 0001108012

12 Volt, 1.1/1.8 kW, Bar dist. 2.75, Bar cross dist. 41.80, Shaft length 136.00, Bar length 5.45, Height/bar 4.55, Height/bar lane 19.20, Core thickness 55.00, No./bars 28, No./teeth 11, Rotation CW/CCW

Alternative no.: 132816



### 335335 Armature

Replacing: 1004011236

Servicing: 0001107476, 0001107477, 0001107478, 0001107479

12 Volt, Shaft length 113.50, Height/bar lane 20.00, Core thickness 52.00, No./bars 28, No./teeth 9



### 335362 Armature

Replacing: 1004011264

Servicing: 0001148015, 0001148016, 0001148021, 0001148022, 0001148023, 0001148024, 0001148025, 0001148026

12 Volt, Shaft length 146.00, Height/bar lane 30.00, Core thickness 55.10, No./bars 28, No./teeth 14





**335363** Armature  
Replacing: 1004011359  
Servicing: 0001153019, 0001153020  
12 Volt, Shaft length 145.80,  
Height/bar lane 29.50, Core thickness 55.00,  
No./bars 28, No./splines 14



**335375** Armature  
Replacing: 1004011275  
Servicing: 0001139065, 0001139066,  
0001139085, 0001139086  
12 Volt, Shaft length 149.00,  
Height/bar lane 27.40, Core thickness 59.00,  
No./bars 23, No./teeth 16



**335586** Armature  
Replacing: 1004011326  
Servicing: 0001136002, 0001136003, 0001136005,  
0001136006, 0001136007, 0001136008  
12 Volt, Shaft length 122.00, Bar length 21.92,  
Height/bar lane 25.40, Core thickness 52.00,  
No./bars 28, No./splines 14

**NEW PRODUCT**  
[www.hc-cargo.com](http://www.hc-cargo.com)

**335610** Armature  
Replacing: 2004015005  
12 Volt, Shaft length 168.75,  
Height/bar lane 35.50, Core thickness 60.00,  
No./bars 23, No./teeth 16, Rotation CW



**335729** Armature  
Replacing: 1004011342  
Servicing: 0001170610  
12 Volt, Shaft length 96.00, No./bars 28,  
Core thickness 52.00, No./splines 18

**NEW PRODUCT**  
[www.hc-cargo.com](http://www.hc-cargo.com)

**335762** Armature  
Replacing: 1004011341  
Servicing: 0001172404, 0001172405,  
0001172406, 0001172407, 0001177008,  
0001177009, 0001177012, 0001177013  
12 Volt, Shaft length 100.00,  
Height/bar lane 23.80, Core thickness 52.00,  
No./bars 28, No./splines 18

**NEW PRODUCT**  
[www.hc-cargo.com](http://www.hc-cargo.com)

**335814** Armature  
Replacing: 1004011214  
Servicing: 0001120410, 0001120400,  
0001120401, 0001120402, 0001120403,  
0001120404, 0001120405, 0001120406  
12 Volt, 1.5 kW, Shaft length 107.45,  
Bar length 17.07, Core thickness 51.98,  
No./splines 11, Rotation CCW  
Alternative no.: 333098

**NEW PRODUCT**  
[www.hc-cargo.com](http://www.hc-cargo.com)

**335829** Armature  
Replacing: 1004011345  
Servicing: 0001172400, 0001172411,  
0001172608, 0001172609, 0001172614,  
0001172615, 0001172616, 0001172617  
12 Volt, 2.0 kW, Shaft length 100.00,  
Bar length 22.50, Core thickness 52.00,  
No./bars 28, No./splines 18, Rotation CW



**335863** Armature  
Replacing: 1004011226, 1004011316  
Servicing: 0001138001, 0001138055  
12 Volt, Shaft length 138.50,  
Core thickness 52.00, No./bars 29,  
No./teeth 14



**336349** Armature  
Manufacturer: Bosch  
Replacing: 1004011301, 1986SE1587  
Servicing: 0001115074, 0001115075,  
0001115076, 0001115077, 0001115088,  
0001115089, 0001115092, 0001115093  
12 Volt, 1.7 kW, Shaft length 145.85,  
Height/bar lane 27.00,  
Core thickness 55.00, No./bars 23,  
No./teeth 9, Rotation CW

18 V



**137287** Armature  
Servicing: 0001368001, 0001368002,  
0001368003, 0001368004, 0001368005,  
0001368006, 0001368007, 0001368008  
18 Volt, 4.0 kW, Shaft dia. 18.90,  
Shaft length 337.00, Height/bar 6.60,  
Height/bar lane 35.60,  
Core thickness 75.00, No./bars 27,  
No./splines 10, Rotation CW  
24 V: HC-CARGO 131309.

24 V



**130119** Armature  
Replacing: 2004004062, 2004004111  
Servicing: 0001360002, 0001360004,  
0001360005, 0001360007, 0001360008,  
0001360009, 0001360010, 0001360012  
24 Volt, 4.0 kW, Bar dist. 2.30,  
Bar cross dist. 46.20, Shaft dia. 18.75,  
Shaft length 333.00, Bar length 10.50,  
Height/bar 7.65, Height/bar lane 30.30,  
Core thickness 75.00, No./bars 33,  
No./splines 10, Rotation CW





### 130120 Armature

Replacing: 16.360.333, 2004005002, 2004005022, 2004005037, 2004005046, 2004005073, 2004005153

Servicing: 0001414001, 0001414002, 0001414003, 0001414004, 0001414005, 0001414006

24 Volt, 5.0 kW, Bar dist. 3.00, Bar cross dist. 53.20, Shaft length 235.00, Bar length 11.60, Height/bar 7.15, Height/bar lane 42.15, Core thickness 83.00, No./bars 29  
Clutch housing: HC-CARGO 231369.



### 130320 Armature

Replacing: 2004005025, 2004005071, 2004005151

Servicing: 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021

24 Volt, 5.5 kW, Bar dist. 3.00, Bar cross dist. 53.20, Shaft length 270.00, Bar length 11.60, Height/bar 7.15, Height/bar lane 42.15, Core thickness 83.00, No./bars 25, Rotation CW  
Clutch housing: HC-CARGO 231369.



### 131116 Armature

Replacing: 2004004115, 2004004128, 2004004928, 2004004968, 2004014928

Servicing: 0001364100, 0001364101, 0001364102, 0001364103, 0001364104

24 Volt, 4.8 kW, Bar dist. 2.60, Bar cross dist. 44.80, Shaft dia. 18.80, Shaft length 366.00, Bar length 9.25, Height/bar 6.90, Height/bar lane 30.95, Core thickness 75.00, No./bars 27, No./splines 10, Rotation CW



### 131309 Armature

Replacing: 2004004032, 2004004033, 2004004035, 2004004036, 2004004038, 2004014075, 2004014975

Servicing: 0001367301, 0001368001, 0001368002, 0001368003

24 Volt, 4.0 kW, Bar dist. 2.30, Bar cross dist. 46.20, Shaft dia. 18.88, Shaft length 337.00, Bar length 10.50, Height/bar 7.65, Height/bar lane 30.30, Core thickness 75.00, No./bars 33, No./splines 10, Rotation CW  
18 V: HC-CARGO 137287.



### 131311 5★ Armature

Manufacturer: Remy

Replacing: 2004005023, 2004005024

Servicing: 0001417001, 0001417002, 0001417005, 0001417006

24 Volt, 6.6 kW, Bar dist. 3.00, Bar cross dist. 53.20, Shaft length 256.00, Bar length 11.60, Height/bar 7.15, Height/bar lane 42.15, Core thickness 83.00, No./bars 29, Rotation CW  
Clutch housing: HC-CARGO 231369.



### 131379 Armature

Replacing: 2004004118, 2004014972

Servicing: 0001108025, 0001363101, 0001363104, 0001363105, 0001363107, 0001363108, 0001363109

24 Volt, 2.6/3.2 kW, Bar dist. 2.30, Bar cross dist. 48.60, Shaft dia. 18.90, Shaft length 290.00, Bar length 9.90, Height/bar 5.55, Height/bar lane 20.75, Core thickness 75.00, No./bars 33, No./splines 10, Rotation CW



### 131666 Armature

Replacing: 2004006091, 2004006101

Servicing: 0001510001, 0001510002, 0001510003, 0001510004, 0001510005, 0001510006, 0001510008, 0001510009

24 Volt, 9.0 kW, Shaft length 314.00, Core thickness 99.70, No./bars 38



### 132904 Armature

Replacing: 2004005003, 2004005004, 2004005061, 2004005906, 2004005907, 2004005918, 2007010059, 2007010061

Servicing: 0001420001, 0001420002, 0001420003, 0001420004

24 Volt, 7.5 kW, Bar dist. 2.55, Bar cross dist. 48.10, Shaft dia. 21.80, Shaft length 428.50, Bar length 11.30, Height/bar 8.30, Height/bar lane 48.10, Core thickness 85.00, No./bars 29, No./splines 19, Rotation CW/CCW



### 136998 Armature

Replacing: 2004004100, 2004004925

Servicing: 0001364300, 0001364301, 0001364400, 0001364402

24 Volt, 4.8/5.2 kW, Bar dist. 2.60, Bar cross dist. 44.80, Shaft dia. 18.88, Shaft length 355.00, Bar length 9.25, Height/bar 6.90, Height/bar lane 30.95, Core thickness 75.00, No./bars 27, No./splines 10, Rotation CW



### 138254 Armature

Replacing: 9003334024

Servicing: 0001219001, 0001219002, 0001219003, 0001219004, 0001219005, 0001219006, 0001219007, 0001219008

24 Volt, 2.5 kW, Shaft length 158.00, Height/bar 4.00, Height/bar lane 26.80, Core thickness 50.00, No./bars 23, No./teeth 18





### 139657 Armature

Replacing: 6033AD0285, 6033AD4013, 6033AD4080, 9003334039

Servicing: 0001231001, 0001231002, 0001231003, 0001231004, 0001231005, 0001231006

24 Volt, 4.0 kW, Bar dist. 3.15, Bar cross dist. 39.60, Shaft dia. 18.40, Shaft length 169.00, Bar length 4.65, Height/bar 5.00, Height/bar lane 31.50, Core thickness 60.00, No./bars 23, No./teeth 16, Rotation CW

Alternative no.: 333496



### 231272 Armature

Replacing: 2004014028

Servicing: 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010, 0001371012

24 Volt, 6.7 kW, Bar dist. 4.30, Bar cross dist. 50.65, Shaft dia. 22.00, Shaft length 394.00, Bar length 8.70, Height/bar 8.40, Height/bar lane 45.00, Core thickness 75.00, No./bars 21, No./teeth 19, Rotation CW



### 231493 Armature

Replacing: 2004014034

Servicing: 0001372001, 0001372002, 0001372003, 0001372004, 0001372005, 0001372006, 0001372007, 0001372008

24 Volt, 6.2 kW, Bar dist. 4.00, Bar cross dist. 54.15, Shaft dia. 21.95, Shaft length 370.00, Bar length 4.60, Height/bar 10.10, Height/bar lane 30.00, Core thickness 75.00, No./bars 29, No./teeth 19, Rotation CW



### 237748 Armature

Replacing: 6033AD5148

Servicing: 0001241003, 0001241004, 0001241005, 0001241006, 0001241007, 0001241014, 0001241015

24 Volt, 5.5 kW, Shaft length 174.20, Height/bar lane 32.75, Core thickness 59.95, No./bars 23, No./teeth 13, Rotation CW



### 239092 Armature

Replacing: 6033AD5025

Servicing: 0001241001, 0001241008, 0001241012, 0001241016, 0001241019, 0001241020, 0001241021, 0001241022

24 Volt, 5.5 kW, Shaft length 174.20, Core thickness 59.95, No./bars 23, No./teeth 13



### 239101 Armature

Replacing: 2004014090, 2004014091

Servicing: 0001330001, 0001330003, 0001330004, 0001330005, 0001330006, 0001330007, 0001330008, 0001330011

24 Volt, 6.0 kW, Shaft dia. 19.45, Shaft length 159.50, Height/bar lane 43.50, Core thickness 75.00, No./bars 23, No./splines 15



### 333410 Armature

Manufacturer: Bosch

Replacing: 2004015007

Servicing: 0001261026, 0001261027, 0001261028, 0001261041, 0001261044, 0001261045, 0001261049, 0001261069

24 Volt, Shaft length 179.60, Core thickness 60.00, No./teeth 13  
Alternative no.: 335780



### 333496 Armature

Manufacturer: Bosch

Replacing: 6033AD0285, 6033AD4013, 6033AD4080, 9003334039

Servicing: 0001231001, 0001231002, 0001231006, 0001231008, 0001231010, 0001231011, 0001231012, 0001231013

24 Volt, 4.0 kW, Bar dist. 3.15, Bar cross dist. 39.60, Shaft length 169.00, Bar length 4.65, Height/bar 5.00, Height/bar lane 31.50, Core thickness 60.00, No./bars 23, No./teeth 16, Rotation CW  
Alternative no.: 139657



### 333771 Armature

Replacing: 2004015004, 2004015010

Servicing: 0001263001, 0001263002, 0001263003, 0001263004, 0001263005, 0001263006, 0001263008, 0001263010

Shaft length 168.20, Height/bar lane 35.80, Core thickness 60.00, No./bars 23, No./teeth 16



### 335780 Armature

Replacing: 2004015007

24 Volt, Shaft length 180.00, No./bars 23, Core thickness 60.00, No./teeth 13

Alternative no.: 333410



## Yokes

12 V

**137169** Yoke

Replacing: 1005001915, 1005001924, 1005001937

Servicing: 0001108001, 0001108002, 0001108003, 0001108009, 0001108010, 0001108018, 0001108026

12 Volt, 1.4 kW, ID 69.50,  
OD/middle 74.00, Length 112.55,  
Brush gear w/o, Magnets w/, O-ring w/o**137619#** Yoke

Replacing: 1005001923, 1005001931

Servicing: 0001107009, 0001107012, 0001107013, 0001107015, 0001107019, 0001107025, 0001107026, 0001107030

12 Volt, 1.0/1.2 kW, ID 55.15,  
OD/middle 74.00, Length 98.60,  
Brush gear w/o, Magnets w/, O-ring w/o**137621** Yoke

Manufacturer: Bosch

Replacing: 1005001950, 9001081020

Servicing: 0001112005, 0001112006, 0001112007, 0001112008, 0001112009, 0001112012, 0001112013, 0001112014

12 Volt, 0.9 kW, ID 58.90,  
OD/middle 78.25, Length 99.45,  
Brush gear w/o, Magnets w/, O-ring w/o**137622** Yoke

Replacing: 1005001949, 1005001976

Servicing: 0001125001, 0001125002, 0001125003, 0001125004, 0001125005, 0001125006

12 Volt, 1.8/2.0 kW, ID 55.15,  
OD/middle 78.20, Length 124.60,  
Brush gear w/o, Magnets w/, O-ring w/o**137897** Yoke

Manufacturer: Bosch

Replacing: 1005001826, 1005001843, 1005001943, 1005001948

Servicing: 0001105205, 0001109015, 0001109018, 0001109026, 0001109028, 0001109034, 0001109040

12 Volt, 1.8/2.0 kW, ID 73.50,  
OD/middle 78.25, Length 124.65,  
Brush gear w/o, Magnets w/, O-ring w/o**138323** Yoke

Replacing: 1005001942

Servicing: 0001109014, 0001109017, 0001109021, 0001109022, 0001109025, 0001109030, 0001109031, 0001109033

12 Volt, 1.6/2/2.1 kW, ID 60.10,  
OD/middle 79.10, Length 124.90,  
Brush gear w/o, Magnets w/, O-ring w/o**139574** Yoke

Replacing: 1005001832, 1005001946, 1005851066

Servicing: 0001107038, 0001115001, 0001115002, 0001115005, 0001115006, 0001115007, 0001115008, 0001115009

12 Volt, 1.7 kW, ID 55.30,  
OD/middle 74.00, Length 120.00,  
Brush gear w/o, Magnets w/, O-ring w/o**230231** Yoke

Replacing: 1005001878, 1005001938

Servicing: 0001110104, 0001110110, 0001110122, 0001110123, 0001110126, 0001110127

12 Volt, 1.8 kW, ID 57.85,  
OD/middle 78.00, Length 135.15,  
Brush gear w/o, Magnets w/, O-ring w/o**230232#** Yoke

Manufacturer: Bosch

Replacing: 1005001980

Servicing: 0001125501, 0001125502, 0001125503, 0001125504, 0001125507, 0001125508, 0001125511, 0001125512

12 Volt, 2.0 kW, ID 74.00,  
OD/middle 78.30, Length 119.55,  
Brush gear w/o, Magnets w/, O-ring w/o**233572#** Yoke

Replacing: 1005001812, 1005001999

Servicing: 0001107401, 0001107402, 0001107403, 0001107404, 0001107405, 0001107406, 0001107407, 0001107408

12 Volt, 1.1 kW, ID 65.30,  
OD/middle 70.00, Length 93.85,  
Brush gear w/o, Magnets w/, O-ring w/o**233663** Yoke

Replacing: 1005001904

Servicing: 0001110001, 0001110002, 0001110009, 0001110010, 0001110014, 0001110015, 0001110018, 0001110031

12 Volt, 1.7/1.8 kW, ID 74.00,  
OD/middle 79.55, Length 135.00,  
Brush gear w/o, Magnets w/, O-ring w/o





### 235572 Yoke

Replacing: 1005001808

Servicing: 0001109250, 0001109252, 0001109253, 0001109256, 0001109258, 0001109259, 0001109260, 0001109261

12 Volt, 2.2 kW, ID 74.00, OD/middle 78.40, Length 124.57, Magnets w/

24 V



### 137167 Yoke

Replacing: 1005001903

Servicing: 0001108001, 0001108002, 0001108004, 0001108009, 0001108010, 0001108011, 0001108012, 0001108013

12-24 Volt, 1.4/1.6 kW, ID 69.70, OD/middle 74.20, Length 112.80, Brush gear w/o, Magnets w/, O-ring w/o

Yoke Parts

Magnet Gripper

Pkg. 5



### 138362# Magnet Gripper

Servicing: 0001106014, 0001106023, 0001107080, 0001107402, 0001107406, 0001107410, 0001107425, 0001107428

Mount hole 3.28/5.60, ID 7.90, Thickness 5.80

## Field Cases



### 139697 Yoke Assembly/Field Case

Replacing: 2005005201, 6033A4093, 6033A4096, 6033A4098, 6033AD0128, 6033AD0151, 6033AD4064, 6033AD4092

Servicing: 0001231001, 0001231002, 0001231003, 0001231004, 0001231005, 0001231006

24 Volt, 4.0 kW, ID 61.10, OD/middle 95.00, Length 120.50, Lead length 48.00, Brush gear w/, O-ring w/o

Alternative no.: 333533 5★



### 330031 Field Case

Replacing: 6033AD3283

Servicing: 0001230002, 0001230003, 0001230004, 0001230005, 0001230006, 0001230014

12 Volt, 3.0 kW, ID 91.00, OD/middle 95.50, Length 120.70, Lead length 42.00, Rotation CW, Brush gear w/, Magnets w/o, O-ring w/o



### 331704 Field Case

Replacing: 6033AD1256

Servicing: 0001223501, 0001223503, 0001223504, 0001223507

12 Volt, 2.6 kW, ID 79.67, OD/middle 85.50, Length 96.34, Lead length 32.00, Rotation CW, Magnets w/o, O-ring w/o



### 333417# 5★ Field Case

Manufacturer: Bosch

Replacing: 2005005182

Servicing: 0001261007, 0001261008, 0001261012, 0001261014, 0001261016, 0001261022, 0399504011

24 Volt, ID 58.50, OD/middle 95.25, Length 126.40, Rotation CW



### 333533 5★ Field Case

Manufacturer: Bosch

Replacing: 2005005201, 6033A4093, 6033A4096, 6033A4098, 6033AD0128, 6033AD0151, 6033AD4064, 6033AD4092

Servicing: 0001231008, 0001231013, 0001231014, 0001231017, 0001231018, 0001231019, 0001231023, 0001231026

24 Volt, 4.0 kW, ID 61.00, OD/middle 95.30, Length 120.70, Lead length 41.00, Brush gear w/, Magnets w/o, O-ring w/o

Alternative no.: 139697



### 333597 5★ Field Case

Manufacturer: Bosch

Replacing: 6033AD4177

Servicing: 0001231016, 0001231146, 0001231033, 0001231133

ID 60.70, OD/middle 95.30, Length 120.70, Lead length 41.00, Brush gear w/, Magnets w/o, O-ring w/o



## Field Coils

12 V



### 130124 Field Coil

Replacing: 1004112537, 2004112004

Servicing: 0001211200, 0001211201, 0001211221, 0001211222, 0001211241

12 Volt, 0.8 kW, Lead length 75.25, Height 75.40, Width 197.00, Internal height 40.50, Inner width 26.70, Rotation CCW



### 130128 Field Coil

Manufacturer: Bosch

Replacing: 2004114169

Servicing: 0001359002, 0001359003, 0001359021, 0001359031, 0001359033, 0001359035, 0001359038, 0001359049

12 Volt, 3.0 kW, Lead length 25.33, Height 133.50, Width 275.60, Internal height 85.60, Inner width 32.50, Brush gear w/o



### 130325 Field Coil

Replacing: 2004115040, 2004115041, 2004115042, 2004115043

Servicing: 0001401007, 0001401011, 0001401012, 0001401019

12 Volt, 3.0 kW, Height 116.00, Internal height 71.25, Inner width 28.65, Brush gear w/o



### 131134 Field Coil

Manufacturer: Bosch

Replacing: 2004114060, 2004114137, 2004114291, 2004114297

Servicing: 0001367001, 0001367002, 0001367003, 0001367004

12 Volt, 3.0 kW, Lead length 125.60, Height 128.30, Internal height 87.00, Inner width 32.25, Brush gear w/o



### 131313 Field Coil

Replacing: 2004114141, 2004114146, 2004114148, 2004114177, 2004114188, 2004114189, 2004114241, 2004114289

Servicing: 0001362005, 0001362006, 0001362034, 0001362035

12 Volt, 1.9/2.2/2.4 kW, Lead length 43.80, Height 112.25, Internal height 71.65, Inner width 32.60, Brush gear w/o



### 131314 Field Coil

Replacing: 2004114085, 2004114143, 2004114145

Servicing: 0001362092, 0001362300, 0001362301, 0001362302, 0001362303, 0001362304, 0001362305, 0001362306

12 Volt, 2.3/2.7 kW, Lead length 53.85, Height 113.55, Internal height 72.85, Inner width 33.00, Brush gear w/o



### 131677 Field Coil

Replacing: 2004114100, 2004114104, 2004114105, 2004114109, 2004114115, 2004114116, 2004114117

Servicing: 0001354004, 0001354005, 0001354016, 0001354018

12 Volt, 1.8 kW, Height 107.15, Internal height 62.00, Inner width 30.00, Brush gear w/o



### 132154 Field Coil

Replacing: 1004113416, 1004113516, 1004113536

Servicing: 0001312100, 0001312110, 0001314003, 0001314004, 0001314008, 0001314012, 0001314013, 0001314016

12 Volt, 1.5 kW, Height 102.65, Internal height 69.20, Inner width 28.10, Brush gear w/o



### 132356 Field Coil

Replacing: 2004114004, 2004114005

Servicing: 0001358017, 0001358018, 0001358020, 0001358026, 0001358033

12 Volt, 3.2 kW, Lead length 31.45, Height 131.75, Internal height 86.55, Inner width 28.70, Brush gear w/o



### 132585 Field Coil

Replacing: 1004112906, 132585

Servicing: 0001218001, 0001218004, 0001218006, 0001218007, 0001218009, 0001218011, 0001218012, 0001218013

12 Volt, 2.2 kW, Lead length 101.61, Height 83.09, Internal height 50.45, Inner width 18.65, Brush gear w/o



### 134012 Field Coil

Replacing: 1004113519, 1004113535, 1004113537

Servicing: 0001311042, 0001312101, 0001312103, 0001312104, 0001312105, 0001312106, 0001312107

12 Volt, 1.5 kW, Height 104.75, Internal height 68.20, Inner width 28.30, Brush gear w/o





### 137234 Field Coil

**Replacing:** 2004114086, 2004114087, 2004114092, 2004114233, 2007010070

**Servicing:** 0001369001, 0001369002, 0001369003, 0001369004

12 Volt, 3.1 kW, Height 114.20, Internal height 72.25, Inner width 32.80, Brush gear w/o



### 138317 Field Coil

**Replacing:** 2004114061, 2004114062

**Servicing:** 0001367027, 0001367036, 0001367046, 0001367051, 0001367054, 0001367057, 0001367063, 0001367077

12 Volt, 3.2 kW, Height 129.85, Internal height 88.10, Inner width 35.25, Brush gear w/o



### 232627 Field Coil

**Servicing:** 0001218172, 0001218173

12 Volt, 2.2 kW, Height 73.55, Internal height 41.50, Inner width 22.20, Brush gear w/o

24 V



### 130131 Field Coil

**Manufacturer:** Remy

**Replacing:** 2004125075, 2004125078, 2004125080

**Servicing:** 0001413017, 0001414001, 0001414002, 0001414003, 0001414004, 0001414005

24 Volt, 5.0 kW, Lead length 89.00, Height 120.50, Width 307.50, Internal height 65.70, Inner width 28.40, Brush gear w/o  
Short.



### 130322 Field Coil

**Replacing:** 2004105009, 2004105020

**Servicing:** 0001402007, 0001402008, 0001402018, 0001402031, 0001402034, 0001402041, 0001402043

24 Volt, 4.0 kW, Height 114.15, Internal height 72.25, Inner width 28.40, Brush gear w/o



### 131074 Field Coil

**Replacing:** 2004114065, 2004114067, 2004114134, 2004114135, 2004114290, 2004114295

**Servicing:** 0001368001, 0001368002, 0001368003

24 Volt, 4.0 kW, Lead length 75.00, Height 127.60, Internal height 86.75, Inner width 33.30, Brush gear w/o



### 131312 Field Coil

**Manufacturer:** Remy

**Replacing:** 2004105048, 2004125076, 2004125083

**Servicing:** 0001416055, 0001417001, 0001417002, 0001417003, 0001417004, 0001417005

24 Volt, 5.4/6.6 kW, Lead length 90.25, Height 138.25, Internal height 85.20, Inner width 29.40, Brush gear w/o



### 131341 Field Coil

**Replacing:** 2004114258

**Servicing:** 0001108169, 0001364100, 0001364101, 0001364102, 0001364103, 0001364104, 0001364105, 0001364106

24 Volt, 4.8/5.2 kW, Lead length 31.35, Height 146.65, Internal height 101.00, Inner width 32.90, Brush gear w/o



### 132358 Field Coil

**Replacing:** 2004114180, 2004114185, 2004114186

**Servicing:** 0001363001, 0001363002, 0001363101

24 Volt, 2.0/2.6 kW, Height 111.00, Internal height 72.45, Inner width 32.70, Brush gear w/o



### 132905 Field Coil

**Replacing:** 2004115013

**Servicing:** 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008

24 Volt, 7.5 kW, Height 150.80, Internal height 101.85, Inner width 32.60, Brush gear w/o



### 138255 Field Coil

**Servicing:** 0001219001, 0001219005, 0001219006, 0001219007, 0001219008, 0001219009, 0001219011, 0001219012

24 Volt, 2.2/2.5 kW, Height 80.15, Internal height 48.55, Inner width 19.25, Brush gear w/o



### 138314 Field Coil

**Replacing:** 2004114064, 2004114066, 2004114234

**Servicing:** 0001368018, 0001368030, 0001368031, 0001368035, 0001368036, 0001368041, 0001368057

24 Volt, 4.0 kW, Height 127.00, Internal height 86.15, Inner width 33.65, Brush gear w/o





### 138318 Field Coil

Replacing: 2004114260

Servicing: 0001364300, 0001364301, 0001364400, 0001364402, B001841010, B001841012

24 Volt, 4.8/5.2 kW, Height 142.80, Internal height 100.45, Inner width 33.00, Brush gear w/o



### 230841 Field Coil

Replacing: 2004124001, 9001453717

Servicing: 0001370001, 0001370002, 0001371001, 0001371004, 0001371005, 0001371006

24 Volt, 6.7 kW, Height 150.80, Internal height 99.25, Inner width 33.75, Brush gear w/o



### 231085 Field Coil

Replacing: 2004124005, 2004124006

Servicing: 0001372001, 0001372002, 0001372003, 0001372004, 0001372005, 0001372006, 0001372007

24 Volt, 6.2 kW, Height 129.70, Internal height 86.10, Inner width 31.15, Brush gear w/o

## C.E. Brackets



### 132217 C.E. Bracket

Manufacturer: Bosch

Replacing: 2000520055, 2000520057

Servicing: 0001358200, 0001358201, 0001358202, 0001359002, 0001359003, 0001359008, 0001359010, 0001359012



### 133488 C.E. Bracket

Replacing: 2000580121, 2000580127, 2000580160

Servicing: 0001410015, 0001410016, 0001410017, 0001410019, 0001410021



### 133489 C.E. Bracket

Replacing: 2005855073, 2005855076, 2005855110, 2005855165, 2005855166, 2005855325, 2005855365, 2005855379

Servicing: 0001410015, 0001410016, 0001410017, 0001410018, 0001410021

ID 111.00, OD 125.00, Height 1.00, Terminal 30 M10, Terminal 31 M10, Not insulated return



### 133490 C.E. Bracket

Replacing: 2005855173, 2005855174, 2005855326, 2005855366, 2005855372, 2005855382

Servicing: 0001410019, 0001410022, 0001410024, 0001410037, 0001410047, 0001410049, 0001410050, 0001410051

Terminal 30 M10, Terminal 31 M10, Insulated return



### 133908 C.E. Bracket

Replacing: 2005854094, 2005854096, 2005854100, 2005854107, 2005854110, 2005854116, 2005854143, 2005854195

Servicing: 0001362005, 0001362006, 0001362034, 0001362035, 0001362036

ID 60.00, OD 105.25

Moulded aluminium.



### 134440 C.E. Bracket

Manufacturer: Bosch

Replacing: 2000580103

Servicing: 0001410053, 0001410063, 0001510001, 0001510002, 0001510003, 0001510005, 0001510008, 0001510009

Bosch.



### 136558 C.E. Bracket

Replacing: 2005822333, 2005855276, 2005855331, 2005855333, 2005855371

Servicing: 0001416010, 0001416044, 0001416045, 0001417037, 0001417059, 0001714059, B001450109, B001450199

Terminal 30 M12,

Terminal 31 M10, Insulated return



### 136559 C.E. Bracket

Replacing: 2005855184, 2005855199, 2005855297, 2005855298, 2005855299, 2005855306, 2005855338, 2005855368

Servicing: 0001410024, 0001410065, 0001410088, 0001411007, 0001411009, 0001411017, 0001411025

Terminal 30 M12, Terminal 31 M10



### 137000 C.E. Bracket

Replacing: 2005855376

Servicing: 0001417065, 0001417069, B001411400

Terminal 30 M12, Terminal 31 M12





**231357** C.E. Bracket  
**Manufacturer:** Bosch  
**Replacing:** 6033AD0149, 6033AD0180  
**Servicing:** 0001230002, 0001230009, 0001231002, 0001231003, 0001231008, 0001231011, 0001231012, 0001231016  
**ID** 10.00, **OD** 94.00, **Height** 43.00



**231650** C.E. Bracket  
**Replacing:** 6033AD0056  
**Servicing:** 0001223002, 0001223003, 0001223004, 0001223005, 0001223007, 0001223008, 0001223016, 0001223021  
**ID** 85.20, **OD** 87.40, **Height** 40.50



**234221** C.E. Bracket  
**Replacing:** 6033AD0175  
**Servicing:** 0001230006, 0001230014  
**ID** 82.95, **OD** 94.00, **Height** 44.63



**235585** C.E. Bracket  
**Manufacturer:** Bosch  
**Replacing:** 6033AD0198  
**Servicing:** 0001230003, 0001230004, 0001230005, 0001231009  
**ID** 83.60, **OD** 94.50, **Height** 42.90



**235604** C.E. Bracket  
**Manufacturer:** Bosch  
**Replacing:** 2005854145  
**Servicing:** 0001362313, 0001362700, 0001362701, 0001362705, 0001367067, 0001367301, 0001367303, 0001368062  
**ID** 105.60, **OD** 113.30



**333750** C.E. Bracket  
**Replacing:** 2005854227, 2005854229  
**Servicing:** 0001330012, 0001330013, 0001330014, 0001330057, 0001330501, 0001330502, 000133E101, 000133F102  
**ID** 106.00, **OD** 109.10, **Height** 61.30

### D.E. Brackets



**132049** D.E. Bracket  
**Replacing:** 2005825087, 2005825169, 2005825186, 2005825226  
**Servicing:** 0001410021, 0001410029, 0001410038, 0001410044, 0001410046, 0001410050, 0001410053, 0001410062  
**Type** Open



**132219** D.E. Bracket  
**Replacing:** 2005824570, 2005824666, 2005824843, 2005834341  
**Servicing:** 0001358048, 0001358050, 0001359043  
**Type** Closed



**134130** D.E. Bracket  
**Replacing:** 2005824549, 2005834196, 2005834197, 2005834337  
**Servicing:** 0001362016, 0001362034, 0001362091  
**Type** Closed



**134318#** D.E. Bracket  
**Replacing:** 2005824695, 2005824909  
**Servicing:** 0001359014, 0001359074, 0001360009, 0001360029, 0001362063, 0001362300, 0001367001, 0001369016  
**Type** Closed



**134319** D.E. Bracket  
**Replacing:** 2005824747, 2005834027, 2005834747  
**Servicing:** 0001359032, 0001359101, 0001360010, 0001360038, 0001360039, 0001360057, 0001367033  
**Type** Closed



**134362** D.E. Bracket  
**Replacing:** 2005824906, 2005834073, 2005834311  
**Servicing:** 0001359122, 0001360063, 0001367029, 0001368020, B001816053, B001816054  
**Type** Closed




**134493#** D.E. Bracket

Replacing: 2005824325, 2005824692, 2005824916, 2005834009, 2005834325

Servicing: 0001359003, 0001359012, 0001359027, 0001359046, 0001359049, 0001359073

Type Closed


**134677** D.E. Bracket

Replacing: 1005821055, 1005821285, 1005821299

Servicing: 0001108001, 0001108002, 0001108009

Type Closed


**134864** D.E. Bracket

Replacing: 1005821103

Servicing: 0001110009, 0001110010, B001117030

Type Closed


**135214** D.E. Bracket

Replacing: 2005824383, 2005824849

Servicing: 0001362001, 0001362002, 0001362029, 0001362030, 0001362047, 0001362600, 0001369004, 9000143408

Type Closed


**135892** D.E. Bracket

Replacing: 1005821291, 1005821480, 1005831144

Servicing: 0001110022, 0001110023, 0001110045, 0001110046

Type Closed


**135915** D.E. Bracket

Replacing: 1005821096

Servicing: 0001109017, 0001109049, 0001110007, 0001110008, B001117011

Type Open


**136994** 5+ D.E. Bracket

Manufacturer: Bosch

Replacing: 2005834315

Servicing: 0001362312, 0001362316, 0001367075, 0001367078, 0001369001, 0001369005, 0001369022, B001812415

Type Closed


**136995** 5+ D.E. Bracket

Manufacturer: Bosch

Replacing: 9002335830, 9003335824, 9003335855, 9003338855

Servicing: 0001218007, 0001218126, 0001218176, 0001218776, 0001219014, B001233224

Type Closed


**137161#** D.E. Bracket

Replacing: 2005824852, 2005824931

Servicing: 0001359108, 0001359113, 0001367005, 0001367013

Type Closed


**137162** D.E. Bracket

Replacing: 9002338882

Servicing: 0001218016, 0001218110, 0001218710, 0001219013, B001233182

Type Closed


**137628** D.E. Bracket

Replacing: 1005821702

Servicing: 0001107034, 0001107045, B001110097, F000AL0114, F000AL0119, F000AL0122, F005M00024, F005M00001

Type Closed


**137630** D.E. Bracket

Replacing: 1005821787, 1005831169

Servicing: 0001124005, 0001124006, 0001125001, 0001125002

Type Open


**137632** D.E. Bracket

Replacing: 2005824837

Servicing: 0001362046, 0001363112, B001812200, B001813223

Type Closed





**137633** D.E. Bracket  
 Replacing: 9001338021  
 Servicing: 0001218157, 0001218757  
 Type Closed  
 Needle bearing: HC-CARGO 140242.



**137911** D.E. Bracket  
 Replacing: 1005821790  
 Servicing: 0001108157, B001111498  
 Type Closed



**138324** D.E. Bracket  
 Manufacturer: Bosch  
 Replacing: 1005821755, 1005831432  
 Servicing: 0001109014, 0001109036, 0001109250, 0001110112, F002G20795  
 Type Closed



**139499** D.E. Bracket  
 Replacing: 9001338010, 9003338820  
 Servicing: 0001218120, 0001218121, 0001218133, 0001218146, 0001218147, 0001218159, 0001218759, B001233208  
 Type Closed



**139502** D.E. Bracket  
 Replacing: 2007010112  
 Servicing: 0001362700, B001812413  
 Type Closed



**139554** D.E. Bracket  
 Replacing: 9001338067  
 Servicing: 0001218174, 0001218774  
 Type Closed



**230844** D.E. Bracket  
 Replacing: 2005824389, 2005834012  
 Servicing: 0001359020, 0001367017, 0001368040, B001816125, B001816126  
 Type Closed



**231087** D.E. Bracket  
 Replacing: 2005834825  
 Servicing: 0001372001, 0AA137200B, 0AA137200F, B001960018  
 Type Closed



**231593** D.E. Bracket  
 Replacing: 6033AD0174, 6033AD0231, 6033AD3172, 9001338056  
 Servicing: 0001230001, 0001231002, 0001231032, B001260015  
 Type Closed



**231728** D.E. Bracket  
 Replacing: 2005834068  
 Servicing: 0001368019, B001816052  
 Type Closed



**231847** D.E. Bracket  
 Replacing: 2005822023  
 Servicing: 0001211221, 0001211222, 0001211992, 0001211993, B001211098, 9000692062  
 Type Open



**234083** D.E. Bracket  
 Replacing: 1005821898  
 Servicing: 0001121008, 0001121009, 0001121026, 0001121027  
 Type Open



**234369** D.E. Bracket  
 Replacing: 1005831116, 1005831175  
 Servicing: 0001125507, 0001125508, 0001125517, 0001125518  
 Type Open



**234374** D.E. Bracket  
 Replacing: 6033AD0076, 6033AD0280  
 Servicing: 0001223003, 0001223007, 0001223024  
 Type Closed



**234376** D.E. Bracket  
 Replacing: 6033AD0082, 6033AD0448  
 Servicing: 0001230006, 0001230014, 0001231005  
 Type Closed





**234393** D.E. Bracket

Replacing: 6033AD0307

Servicing: 0001223013

Type Closed



**234847** D.E. Bracket

Replacing: 1005831040, 1005831340, 1005831425

Servicing: 0001125018, 0001125019, 0001125048, 0001125049

Type Open

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**235586** D.E. Bracket

Replacing: 6033AD0080, 6033AD0451

Servicing: 0001230004, 0001231009

Type Closed



**235755** D.E. Bracket

Replacing: 6033AD0438, 6033AD04380

Servicing: 0001231016

ID 84.00, Type Closed

Bushing: HC-CARGO 140010.



**236146** D.E. Bracket

Replacing: 2005822015

Servicing: 0001211997, 0001211998, 9000042021, 9000042027, 9000082009

Type Open



**238845** D.E. Bracket

Replacing: 6033AD4118, 6033AD4149

Servicing: 0001230027, 0001231033, 0001231133

Type Closed

## Solenoids

### 6 V



**135871** Solenoid

Replacing: 0331302001, 0331302002, 0331302004, 0331302005, 0331302013, 0331302015, 0331302513

Servicing: 0001207001, 0001207003, 0001207005, 0001207009, 0001207014, 0001207015, 0001207016

6 Volt, B+ M8, ID/eye 4.75, OD 50.20, OD/cover 49.75, Total length 145.55, Height/B+ 16.80, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.00, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131335.

### 12 V



**130281** Solenoid

Replacing: 0331100005, 0331100014, 0331101001, 0331101003

Servicing: 0001400016, 0001401011, 0001401012, 0001401019, 0001401023, 0001401026, 0001401027, 0001401028

12 Volt, B+ Cable, OD 85.90, Total length 93.80, No./mount. holes 2



**130293** Solenoid

Replacing: 0331302033

Servicing: 0001208019, 0001208020, 0001208027, 0001208028, 0001208030, 0001208031, 0001208040, 0001208041

12 Volt, B+ M8, ID/cover 20.75, ID/eye 4.80, OD 50.30, OD/cover 50.25, Total length 144.60, Height/B+ 12.00, Terminal 15A/width 15.00, Coil bolt M8, Coil bolt 2 13.00, Terminal 50 M5-6.30, No./mount. holes 2, No./terminals 4, Bracket type Bracket, Fork lever w/ Cap: HC-CARGO 131334.



**130296** Solenoid

Replacing: 0331400014, 0331400016, 0331400017, 0331400022, 0331401007, 0331401507, 0331402076

Servicing: 0001358017, 0001358018, 0001358020, 0001358026, 0001358028, 0001358032

12 Volt, B+ M10, ID/cover 30.00, OD 60.85, OD/cover 53.35, Length 111.70, Total length 200.35, Height/B+ 23.60, Terminal 30H M10, Terminal 30H/width 16.60, Terminal 50 M4S, Coil bolt M10, Coil bolt 2 17.00, No./mount. holes 2, No./terminals 3, Bracket type Bracket, Fork lever w/ Cap: HC-CARGO 131317.



**130297** Solenoid

Replacing: 0331400023, 0331401001, 0331401003, 0331401004, 0331401012, 0331401029, 0331401046, 0331401051

Servicing: 0001356003, 0001359001, 0001359002, 0001359003, 0001359004, 0001359006, 0001359008

12 Volt, B+ M10, ID/cover 29.85, ID/eye 5.75, OD 61.00, OD/cover 53.30, Length 86.20, Total length 177.75, Height/B+ 23.40, Terminal 30H M10, Terminal 30H/width 20.75, Terminal 50 M4S, Coil bolt M10, Coil bolt 2 16.55, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/ Cap: HC-CARGO 131318.





### 130300 Solenoid

**Replacing:** 0331400003, 0331400006, 0331400007, 0331400009, 0331400011, 0331401015, 0331401027, 0331401508

**Servicing:** 0001354016, 0001354018, 0001354029, 0001354080, 0001354082, 0001354085, 0001354091

12 Volt, B+ M10, ID/cover 30.00, ID/eye 5.70, OD 60.90, OD/cover 53.35, Length 93.00, Total length 173.60, Height/B+ 24.70, Terminal 30H M10, Terminal 30H/width 15.75, Terminal 50 M4S, Coil bolt M10, Coil bolt 2 17.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/ Cap: HC-CARGO 131318.



### 130301 Solenoid

**Replacing:** 0331401040, 0331402001, 0331402004, 0331402019, 0331402030, 0331402033, 0331402035, 0331402039

**Servicing:** 0001223501, 0001358048, 0001358050, 0001358051, 0001359008, 0001359014, 0001359020, 0001359027

12 Volt, 2.5 kW, B+ M10, ID/cover 29.80, ID/eye 5.60, OD 61.30, OD/cover 53.35, Length 82.90, Total length 164.00, Height/B+ 24.00, Terminal 30H M10, Terminal 30H/width 16.45, Terminal 50 M4S, Coil bolt M10, Coil bolt 2 17.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/ Cap: HC-CARGO 131318. Alternative no.: 130301Z



### 130301Z Solenoid

**Replacing:** 0331401040, 0331402001, 0331402004, 0331402019, 0331402030, 0331402033, 0331402035, 0331402039

12 Volt, 2.5 kW, B+ M10, ID/cover 29.80, ID/eye 5.60, OD 61.30, OD/cover 53.35, Length 82.90, Total length 164.00, Height/B+ 24.00, Terminal 30H M10, Terminal 30H/width 16.45, Terminal 50 M4S, Coil bolt M10, Coil bolt 2 17.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/ Alternative no.: 130301



### 130302 Solenoid

**Replacing:** 0331401038, 0331401045, 0331402002, 0331402003, 0331402202, 0331402502, 0331402503, 2339402121

**Servicing:** 0001358049, 0001358200, 0001358201, 0001358202, 0001359025, 0001359041, 0001359049, 0001359053

12 Volt, B+ M10, ID/cover 29.60, ID/eye 5.60, OD 61.00, OD/cover 53.45, Length 82.85, Total length 164.30, Height/B+ 23.00, Terminal 30H M10, Terminal 30H/width 16.00, Terminal 50 M4S, Coil bolt M10, Coil bolt 2 17.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/ Cap: HC-CARGO 131317. Alternative no.: 130302Z



### 130302Z Solenoid

**Replacing:** 0331401038, 0331401045, 0331402002, 0331402003, 0331402202, 0331402502, 0331402503, 2339402121

12 Volt, B+ M10, ID/cover 29.60, ID/eye 5.60, OD 61.00, OD/cover 53.45, Length 82.85, Total length 164.30, Height/B+ 23.00, Terminal 30H M10, Terminal 30H/width 16.00, Terminal 50 M4S, Coil bolt M10, Coil bolt 2 17.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/ Alternative no.: 130302



### 130468 Solenoid

**Replacing:** 0331302040, 0331302051, 0331302064, 0331302066, 0331302067, 0331302070, 0331302089, 0331302093

**Servicing:** 0001157021, 0001208044, 0001208051, 0001208052, 0001208053, 0001208054, 0001208207, 0001208210

12 Volt, B+ M8, ID/eye 4.75, OD 50.20, OD/cover 49.85, Total length 142.40, Height/B+ 16.90, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.90, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131335.

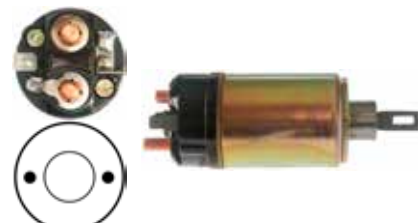


### 130470 Solenoid

**Replacing:** 0331302054, 0331302063, 0331302083, 0331302091

**Servicing:** 0001208049, 0001208055, 0001208206, 0001208249, 0001208255, 0001211229

12 Volt, B+ M8, ID/eye 4.70, OD 50.10, OD/cover 49.45, Total length 142.00, Height/B+ 17.95, Terminal 15A/width 8.35, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.70, No./mount. holes 2, No./terminals 4, Fork lever w/ Cap: HC-CARGO 131334.



### 130471 Solenoid

**Replacing:** 0331302042, 0331302047, 0331302075, 0331302082, 0331302570

**Servicing:** 0001208053, 0001208054, 0001311025, 0001311027, 0001311045, 0001314006, B001311054

12 Volt, B+ M8, ID/eye 4.65, OD 49.00, OD/cover 50.70, Total length 143.75, Height/B+ 14.40, Terminal 15A/width 14.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 7.75, No./mount. holes 2, No./terminals 4, Fork lever w/ Cap: HC-CARGO 130479.



### 130474 Solenoid

**Replacing:** 0331303004, 0331303009, 0331303018, 0331303023, 0331303047, 0331303073, 0331303509, 0331303573

**Servicing:** 0001208400, 0001212202, 0001212204, 0001212205

12 Volt, B+ M8, ID/cover 27.00, OD 56.25, OD/cover 49.30, Length 65.55, Total length 144.20, Height/B+ 20.35, Terminal 15A/width 14.65, Terminal 50 6.30, No./mount. holes 3, Coil bolt M8, Coil bolt 2 12.20, No./terminals 4, Fork lever w/ Cap: HC-CARGO 131337.





### 130475 Solenoid

Replacing: 0331303005, 0331303016, 0331303028, 0331303031, 1986SE1748, 2339303283

Servicing: 0001108004, 0001108019, 0001108020

12 Volt, B+ M8, ID/cover 26.85, ID/eye 4.75, OD 56.30, OD/cover 49.55, Length 63.00, Total length 140.35, Height/B+ 20.60, Terminal 15A/width 8.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.70, No./mount. holes 3, No./terminals 4, Fork lever w/

Cap: HC-CARGO 131847.

Alternative no.: 335527



### 130476 Solenoid

Replacing: 0331302087, 0331303003, 0331303007, 0331303010, 0331303015, 0331303019, 0331303030, 0331303038

Servicing: 0001108021, 0001208200, 0001208201, 0001208208, 0001208211, 0001208213

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.85, OD 56.40, OD/cover 49.45, Length 62.80, Total length 136.00, Height/B+ 15.00, Terminal 50 M4, Coil bolt M8, Coil bolt 2 12.50, No./mount. holes 3, No./terminals 4, Fork lever w/

Cap: HC-CARGO 131338.

Alternative no.: 335499



### 130806 Solenoid

Replacing: 0331401011, 0331401013, 0331401026, 0331401035, 0331402016

Servicing: 0001362001, 0001362002, 0001362004, 0001362005, 0001362006, 0001362007, 0001362008

12 Volt, B+ M10, ID/cover 30.45, OD 61.20, OD/cover 53.50, Length 82.50, Total length 162.65, Height/B+ 21.85, Terminal 50 M4, Coil bolt M10, Coil bolt 2 15.15, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 131318.



### 131042 Solenoid

Replacing: 0331402013, 0331402200, 0331402513

Servicing: 0001359043, 0001359084, 0001359111, 0001367010, 0001367034, 0001367039, 0001367059, 0001367300

12 Volt, B+ M10, ID/cover 30.00, OD 60.85, OD/cover 53.35, Length 82.40, Total length 172.20, Height/B+ 23.35, Coil bolt M10, Coil bolt 2 16.65, No./mount. holes 3, No./terminals 3

Cap: HC-CARGO 133447.



### 131141 Solenoid

Replacing: 0331402006, 0331402034, 0331402042, 0331402043, 0331402068, 0331402070, 0331402209, 0331402568

Servicing: 0001359051, 0001359089, 0001359097, 0001359098, 0001362039

12 Volt, B+ M10, ID/cover 30.00, OD 61.50, OD/cover 53.25, Length 93.70, Total length 181.75, Height/B+ 21.00, Terminal 50 M4, No./mount. holes 3, No./terminals 3, Bracket type Crimp

Cap: HC-CARGO 131318. Rubber boot: HC-CARGO 135576.



### 131143 Solenoid

Replacing: 0331303006, 0331303026, 0331303506, 1986SE1570, 1986SE1661, 1986SE1664, 2339303249, 2339303284

Servicing: 0001107005, 0001107006, 0001107009, 0001107012, 0001107013, 0001107024, 0001107033

12 Volt, B+ M8, ID/cover 27.10, ID/eye 4.80, OD 56.35, OD/cover 49.35, Length 63.00, Total length 140.80, Height/B+ 20.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.60, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 131315.

Alternative no.: 333147 , 333665



### 131189 Solenoid

Replacing: 0331402027, 0331402028, 0331402096, 0331402528

Servicing: 0001362005, 0001362006, 0001362044, 0001362045, 0001362061, 0001362079, 0001362081, 0001362602

12 Volt, B+ M8, ID/cover 29.85, OD 61.00, OD/cover 53.10, Length 82.25, Total length 171.75, Height/B+ 19.00, Terminal 50 M5, Coil bolt M10, Coil bolt 2 17.00, No./mount. holes 3, No./terminals 3

Cap: HC-CARGO 133159.



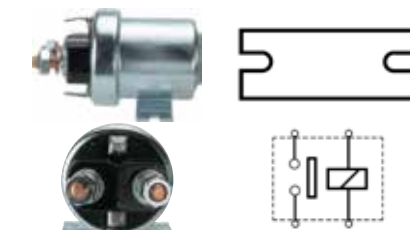
### 131370 Solenoid

Replacing: 0333006004, 1986SE3741

Servicing: 0001108078, 0001108079, 0333006004

12 Volt, 80 Amp, Intermittent load 500 Amp., B+ M8, OD 52.10, OD/cover 45.20, Total length 101.75, Height/B+ 17.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 17.50, Seconds 5, No./terminals 4

Water proof. Silver contact. Insulated return.



### 131373Z Solenoid

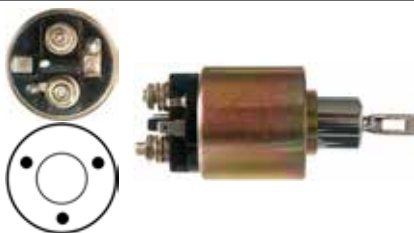
Replacing: 0333009004, 1986SE3744

12 Volt, 150 Amp, Intermittent load 800 Amp., B+ M8, OD 54.17, OD/cover 43.36, Total length 92.00, Height/B+ 17.34, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 17.34, Seconds 5, No./mount. holes 2, No./terminals 4, Bracket type Crimp

Silver contact. Insulated return.

Alternative no.: 333153





### 131586 Solenoid

**Replacing:** 0331303002, 0331303013, 0331303024, 0331303029, 0331303032, 0331303041, 0331303059, 0331303071

**Servicing:** 0001106001, 0001106002, 0001106004, 0001107003

12 Volt, B+ M8, ID/eye 4.90, OD 56.35, OD/cover 49.70, Length 62.90, Total length 138.00, Height/B+ 18.60, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.30, No./mount. holes 3, No./terminals 4, Fork lever w/ Cap: HC-CARGO 131337.

Alternative no.: 333146

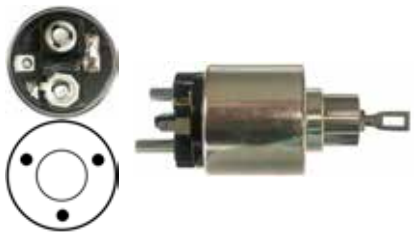


### 131790 Solenoid

**Replacing:** 0331302062, 0331302094

**Servicing:** 0001208100, 0001208101, 0001208202, 0001208229, 0001208405, 0001211200, 0001211201, 0001211215

12 Volt, B+ M8, ID/eye 4.65, OD 50.15, OD/cover 49.90, Total length 143.00, Height/B+ 16.75, Terminal 15A/width 15.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.45, No./mount. holes 2, No./terminals 4, Fork lever w/ Cap: HC-CARGO 130479.



### 131791 Solenoid

**Replacing:** 0331303008, 0331303033, 0331303074, 0331303078, 0331303084, 0331303240, 0331303241, 0331303250

**Servicing:** 0001108012, 0001108025, 0001108030, 0001108038

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.85, OD 56.30, OD/cover 49.35, Length 63.00, Total length 141.90, Height/B+ 20.10, Terminal 15A/width 11.75, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.50, No./mount. holes 3, No./terminals 4, Fork lever w/ Cap: HC-CARGO 132279.



### 131793 Solenoid

**Replacing:** 0331303068, 0331303110, 1986SE1572, 1986SE1667

**Servicing:** 0001107015, 0001107044, 0001107066, 0001108011, 0001108018, 0001108024, 0001108031, 0001108042

12 Volt, B+ M8, ID/cover 27.25, OD 56.55, OD/cover 49.65, Length 63.10, Total length 119.50, Height/B+ 14.15, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.65, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131315.

Alternative no.: 335504



### 131794 Solenoid

**Replacing:** 0331302059, 0331302077, 0331302092, 9330141014, 9330141018

**Servicing:** 0001157009, 0001157010, 0001157012, 0001157013, 0001157015, 0001157016, 0001157017, 0001157021

12 Volt, B+ M8, ID/eye 4.75, OD 49.85, OD/cover 50.00, Total length 143.15, Height/B+ 15.50, Terminal 15A/width 11.85, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.70, No./mount. holes 2, No./terminals 4, Fork lever w/ Cap: HC-CARGO 130479.



### 132252 Solenoid

**Replacing:** 0331401032, 0331402017, 0331402032

**Servicing:** 0001362009, 0001362012, 0001364106, 9000143002, B001819072

12 Volt, B+ M10, ID/cover 30.15, OD 61.15, OD/cover 53.45, Length 82.40, Total length 162.25, Height/B+ 21.95, Terminal 50 4.70, Coil bolt M10, Coil bolt 2 15.65, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131317.



### 132253 Solenoid

**Replacing:** 0331402024, 0331402524

**Servicing:** 0001358202, 0001359094, 0001362307, 0001367071, B001812330, B001816275

12 Volt, B+ M10, ID/cover 30.10, OD 61.15, OD/cover 53.40, Length 82.45, Total length 162.00, Height/B+ 22.20, Terminal 50 4.70, Coil bolt M10, Coil bolt 2 15.50, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131317.



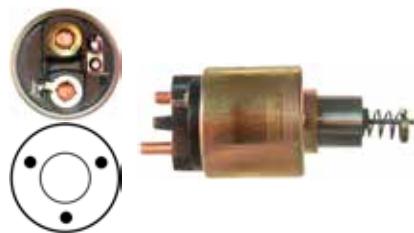
### 132258 Solenoid

**Replacing:** 0331303048, 0331303061, 0331303154, 0331303654, 1986SE1532, 2339303102, 2339303260, 2339303262

**Servicing:** 0001108003, 0001108032, 0001108046, 0001108066, 0001108068, 0001108069, 0001108103, 0001108104

12 Volt, B+ M8, ID/cover 26.90, ID/eye 4.75, OD 56.55, OD/cover 49.50, Length 62.70, Total length 140.15, Height/B+ 19.80, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 12.30, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 132780.

Alternative no.: 333142



### 132261 Solenoid

**Replacing:** 0331303034

**Servicing:** 0001312108, 0001312109, 0001317005, 0001317006, 0001317007, 0001317008, 0001317011, 0001317012

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.70, OD 56.70, OD/cover 49.50, Length 63.20, Total length 139.55, Height/B+ 16.60, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.50, No./mount. holes 3, No./terminals 3, Fork lever w/





### 132265 Solenoid

Replacing: 0331303066, 1986SE1571, 2339303239, 9330081062

Servicing: 0001109003, 0001110017, 0001110999, 0001125507, 0001125508, 0001125517, 0001125518, 0001208507

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.60, OD 56.75, OD/cover 49.65, Length 63.30, Total length 139.75, Height/B+ 16.80, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.95, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 131315.

Alternative no.: 335491 5★



### 132267 Solenoid

Replacing: 0331303060, 0331303083, 0331303090, 0331303091, 0331303097, 0331303122, 0331303560, 0331303597

Servicing: 0001108023, 0001108075, 0001208209, 0001208211, 0001208213, 0001208227, 0001218003, 0001218004

12 Volt, B+ M8, ID/cover 27.20, ID/eye 4.70, OD 56.40, OD/cover 49.60, Length 62.75, Total length 118.40, Height/B+ 14.15, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.60, No./mount. holes 3, No./terminals 3, Fork lever w/

Alternative no.: 333568 5★



### 132299 Solenoid

Replacing: 0331303086

Servicing: 0001108033, 0001108035, 0001108037, 0001108040, 0001108057, 0001108071, 0001108082, 0001108083

12 Volt, B+ M8, ID/cover 27.10, ID/eye 4.70, OD 56.55, OD/cover 49.10, Length 62.55, Total length 118.50, Height/B+ 14.50, Terminal 15A/width 14.60, Terminal 30H M8, Terminal 30H/width 9.55, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 132300.



### 132803 Solenoid

Replacing: 0331101011

Servicing: 0001413001, 0001413003, 0001413006, 0001413007, 0001413008, 0001413009, 0001413010, 0001413011

12 Volt, No./mount. holes 2



### 132827 Solenoid

Replacing: 0331303043, 0331303045, 0331303064, 0331303070, 0331303570, 1986SE1573

Servicing: 0001107005, 0001107006, 0001108043, 0001108044, 0001108059, 0001108060, 0001108096, 0001108097

12 Volt, B+ M8, ID/cover 26.75, OD 56.25, OD/cover 49.30, Length 62.80, Total length 139.75, Height/B+ 20.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.25, No./mount. holes 3, No./terminals 3, Fork lever w/

Alternative no.: 333166 5★



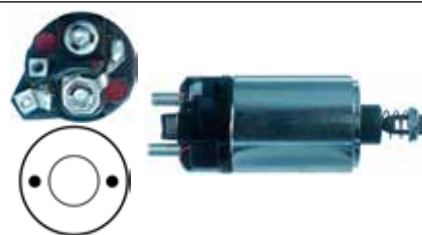
### 132828 Solenoid

Replacing: 0331303094, 2339303232, 2339303329, 2339303403, 9330081050

Servicing: 0001108072, 0001108073, 0001108101, 0001108102, 0001110029

12 Volt, B+ M8, ID/cover 27.25, ID/eye 4.70, OD 56.45, OD/cover 49.20, Length 62.90, Total length 130.00, Height/B+ 23.60, Terminal 15A/width 13.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 7.65, No./mount. holes 3, No./terminals 4, Fork lever w/

Cap: HC-CARGO 131337.



### 133141 Solenoid

Replacing: 0331302010, 0331302018, 0331302036, 0331302071, 0331302076, 0331302518, 0331302571

Servicing: 0001208011, 0001208019, 0001208027, 0001208032, 0001211006, 0001211010, 0001211020, 0001211204

12 Volt, B+ M8, OD 50.10, OD/cover 49.75, Total length 142.30, Height/B+ 18.45, Terminal 15A/width 4.75, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 14.00, No./mount. holes 2, No./terminals 4, Fork lever w/

Cap: HC-CARGO 132778.



### 133398 Solenoid

Replacing: 0331401008

Servicing: 0001354004, 0001354005, 0001354007, 0001354010, 0001354021, 0001354041, 0001354080, 0001354081

12 Volt, B+ M10, ID/cover 30.00, ID/eye 6.20, OD 61.00, OD/cover 53.40, Length 93.00, Total length 175.30, Height/B+ 22.85, Coil bolt M10, Coil bolt 2 17.00, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 131317.



### 133419 Solenoid

Replacing: 0331303089

Servicing: 0001218022, 0001218104, 0001218105, 0001218106, 0001218128, B001233107, B001233159, B001233160

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.65, OD 56.40, OD/cover 49.10, Length 62.65, Total length 118.00, Height/B+ 14.00, Terminal 15A/width 12.55, Coil bolt M8, Coil bolt 2 9.60, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 132300.





### 133421 Solenoid

Replacing: 0331303055, 0331303056, 0331303076, 0331303132, 0331303555

Servicing: 0001110009, 0001110010, 0001208425, 0001208426, 0001208428, 0001208429, 0001211251

12 Volt, B+ M8, ID/cover 26.95, ID/eye 4.65, OD 56.30, OD/cover 49.45, Length 62.85, Total length 155.75, Height/B+ 35.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.75, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 133148.



### 133422 Solenoid

Replacing: 0331303109, 0331303609, 9330331013, 9330331513

Servicing: 0001208506, 0001211536, 0001218174, 0001218774, 9000692085

12 Volt, B+ M8, ID/cover 27.15, ID/eye 4.65, OD 56.30, OD/cover 49.50, Length 63.00, Total length 137.00, Height/B+ 14.85, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.90, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 132779.



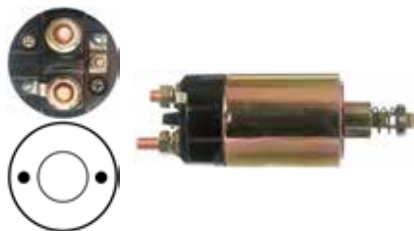
### 133424 Solenoid

Replacing: 0331303124, 0331303125, 0331303148, 0331303167, 0331303600, 0331303624, 2339303207, 2339303251

Servicing: 0001107015, 0001107044, 0001107066, 0001107089

12 Volt, B+ M8, ID/cover 26.85, ID/eye 4.80, OD 56.20, OD/cover 49.30, Length 63.15, Total length 141.00, Height/B+ 20.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 12.65, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 138004.



### 133428 Solenoid

Replacing: 0331302096, 0331302596

Servicing: 0001208403, 0001311050, 0001311051, 0001311052, 0001311055, 0001311056, 0001314003, 0001314008

12 Volt, B+ M8, OD 50.10, OD/cover 49.80, Total length 142.75, Height/B+ 16.95, Terminal 50 M4, Coil bolt M8, Coil bolt 2 12.55, No./mount. holes 2, No./terminals 3, Fork lever w/

Cap: HC-CARGO 133777.



### 133487 Solenoid

Manufacturer: Remy

Replacing: 0331450009

Servicing: 0001413001, 0001413003, 0001413006, 0001413007, 0001413008, 0001413009, 0001413010, 0001413011

12 Volt, No./mount. holes 2



### 133636 Solenoid

Replacing: 0331302029, 0331302039, 0331302044, 0331302045, 0331302046, 0331302049

Servicing: 0001155016, 0001155017, 0001157004, 0001208032, 0001208036, 0001208037, 0001208038, 0001208039

12 Volt, B+ M8, ID/eye 4.80, OD 50.25, OD/cover 50.00, Total length 145.00, Height/B+ 17.25, Terminal 15A/width 12.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.15, No./mount. holes 2, No./terminals 4, Fork lever w/

Cap: HC-CARGO 130479.



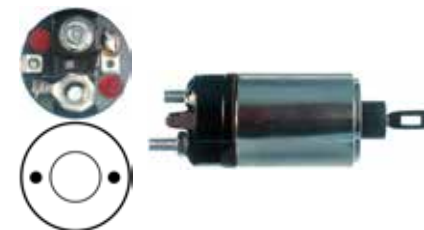
### 133642 Solenoid

Replacing: 0331302003, 0331302009, 0331302026, 0331302050

Servicing: 0001208001, 0001208003, 0001208009, 0001208025, 0001208026, 0001208033, 0001208048, 0001211003

12 Volt, B+ M8, ID/eye 4.80, OD 50.15, OD/cover 50.00, Total length 145.00, Height/B+ 17.25, Terminal 15A/width 5.00, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 13.40, No./mount. holes 2, No./terminals 4, Fork lever w/

Cap: HC-CARGO 132778.



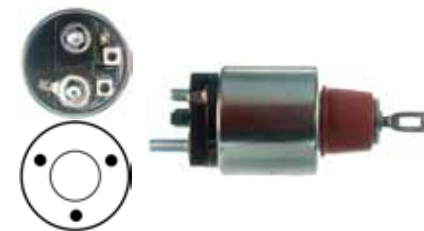
### 133643 Solenoid

Replacing: 0331302056

Servicing: 0001311042, 0001314001, 0001314004, B001315003

12 Volt, B+ M8, ID/eye 4.55, OD 51.40, OD/cover 49.35, Total length 148.40, Height/B+ 19.00, Terminal 15A/width 9.65, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.80, No./mount. holes 2, No./terminals 4, Fork lever w/

Cap: HC-CARGO 132781.



### 133644 Solenoid

Replacing: 0331303012, 0331303021

Servicing: 0001312103, 0001314005, 0001314028, 0001314029, 0001314030, 0001314041, B001315038, B001315118

12 Volt, B+ M8, ID/cover 26.75, ID/eye 4.75, OD 56.25, OD/cover 49.45, Length 64.85, Total length 142.20, Height/B+ 19.80, Terminal 15A/width 6.35, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 12.55, No./mount. holes 3, No./terminals 4, Fork lever w/

Cap: HC-CARGO 132780.





### 134378 Solenoid

Manufacturer: Bosch

Replacing: 0331303101, 0331303234, 2339303234, 2339303402, 2339303429

Servicing: 0001110022, 0001110023, 0001110045, 0001110046, 0001110066, 0001110067

12 Volt, B+ M8, ID/cover 27.20, ID/eye 4.65, OD 56.25, OD/cover 49.55, Length 62.90, Total length 146.40, Height/B+ 25.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.00, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131315.



### 134823 Solenoid

Replacing: 0331302024, 0331302032, 0331302074, 0331302524

Servicing: 0001212002, 0001212003, 0001212005, 0001212006, 0001212007

12 Volt, B+ M8, OD 50.10, OD/cover 50.75, Total length 147.40, Height/B+ 17.15, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.70, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131335.




### 134824 Solenoid

Replacing: 0331303147, 0331303647, 19865E1655, 19865E1663, 2339303211, 2339303222, 2339303225, 2339303258

Servicing: 0001107003, 0001107004, 0001107008, 0001107020, 0001107021

12 Volt, B+ M8, ID/cover 26.80, ID/eye 4.85, OD 56.30, OD/cover 49.65, Length 62.85, Total length 145.25, Height/B+ 19.75, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 12.25, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 134825.

Alternative no.: 333145 



### 135065 Solenoid

Replacing: 0331303035, 0331303053

Servicing: 0001108120, 0001110011, 0001110016, 0001110078, 0001314027, 0001314035

12 Volt, B+ M8, ID/cover 26.95, ID/eye 4.90, OD 56.30, OD/cover 49.40, Length 92.80, Total length 140.25, Height/B+ 20.30, Terminal 15A/width 6.35, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 11.85, No./mount. holes 3, No./terminals 4, Fork lever w/ Cap: HC-CARGO 132780.



### 135358 Solenoid

Replacing: 0331302058, 0331302061, 0331302072, 0331302107, 0331502097, 2008302003

Servicing: 0001208227, 0001212011, 0001215001, 0001215003, 0001312102, 0001312110

12 Volt, B+ M8, OD 50.00, OD/cover 50.85, Total length 149.20, Height/B+ 16.75, Terminal 15A/width 4.75, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 13.10, No./mount. holes 2, No./terminals 4, Fork lever w/ Cap: HC-CARGO 132778.



### 135526 Solenoid

Replacing: 0331303165, 0331303665, 9330331002

Servicing: 0001218152, 0001218812, 0001218817, 0001218818, B001233216, 9000331201, 9000331423, 9000331428

12 Volt, B+ M8, ID/cover 26.95, ID/eye 4.75, OD 56.30, OD/cover 49.30, Length 63.25, Total length 141.00, Height/B+ 20.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.25, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 132779.

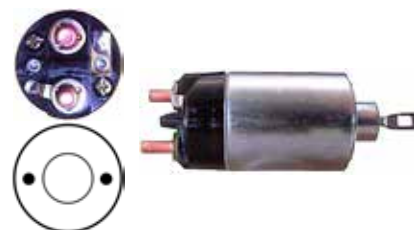


### 135878 Solenoid

Replacing: 0331302053

Servicing: 0001208050, 0001217001, 0001311032, 0001311033, 0001311034, 0001311037, 0001311038

12 Volt, B+ M8, ID/eye 4.70, OD 50.30, OD/cover 49.45, Total length 145.15, Height/B+ 17.00, Terminal 15A/width 9.15, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.15, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131334.



### 136025 Solenoid

Replacing: 0331302011, 0331302025, 0331302027, 0331302030, 0331302034, 0331302043, 0331302052, 0331302543

Servicing: 0001208006, 0001208007, 0001208014, 0001208017, 0001208018

12 Volt, B+ M8, ID/eye 4.80, OD 50.85, OD/cover 49.70, Total length 146.70, Height/B+ 17.15, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.75, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131335.




### 136036 Solenoid

Replacing: 0331303100, 0331303102, 0331303105, 0331303116, 0331303117, 0331303120, 0331303126, 0331303616

Servicing: 0001108018, 0001108042, 0001108063, 0001108064, 0001108065, 0001108108

12 Volt, B+ M8, ID/cover 26.90, ID/eye 4.80, OD 56.25, OD/cover 49.40, Length 63.00, Total length 140.60, Height/B+ 19.70, Terminal 15A/width 13.10, Terminal 50 M6, Coil bolt M8, Coil bolt 2 11.80, No./mount. holes 3, No./terminals 4, Fork lever w/ Cap: HC-CARGO 136108. w/ 30H terminal.

Alternative no.: 335489 





### 136369 Solenoid

**Replacing:** 0331303039, 0331303062, 0331303072, 0331303121, 0331303155, 0331303562, 2339303209, 2339303223

**Servicing:** 0001108022, 0001108051, 0001108074, 0001108143, 0001108180

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.95, OD 56.30, OD/cover 49.20, Length 61.40, Total length 136.60, Height/B+ 20.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.70, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 132779.

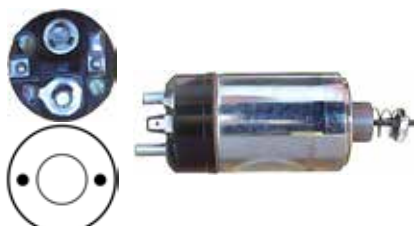


### 136371 Solenoid

**Replacing:** 0331303017, 0331303115, 0331303135, 0331303263, 2339303261

**Servicing:** 0001108098, 0001110039, 0001110053, 0001110113, 0001211231

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.75, OD 56.25, OD/cover 49.40, Length 62.90, Total length 140.00, Height/B+ 19.30, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 11.75, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 139213.



### 136544 Solenoid

**Replacing:** 0331302088, 0331302106

**Servicing:** 0001208203, 0001208205, 0001208214, 0001208406, 0001311146, 9000142101, 9000142102, B001208085

12 Volt, B+ M8, OD 50.00, OD/cover 49.85, Total length 143.65, Height/B+ 16.90, Terminal 15A/width 14.75, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.15, No./mount. holes 2, No./terminals 4, Fork lever w/ Cap: HC-CARGO 130479.



### 136615 Solenoid

**Replacing:** 0331303146, 1986SE1659, 2339303245

**Servicing:** 0001110071, 0001110072, B001117153, B001117157, B001117161

12 Volt, B+ M8, ID/cover 27.10, ID/eye 4.75, OD 56.25, OD/cover 49.50, Length 65.45, Total length 145.75, Height/B+ 15.00, Terminal 30H M5, Terminal 30H/width 10.70, Terminal 50 M6, Coil bolt M8, Coil bolt 2 10.15, No./mount. holes 3, No./terminals 4, Fork lever w/ Cap: HC-CARGO 136108. w/ 30H terminal.



### 136717 Solenoid

**Replacing:** 1986SE1672, 2339303858, 9330331006

**Servicing:** 0001218168, 0001218768, 0001218820, 0001218821, 9000331432, 9000331433

12 Volt, B+ M8, ID/cover 26.90, ID/eye 4.75, OD 56.35, OD/cover 49.25, Length 65.10, Total length 142.80, Height/B+ 20.75, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.70, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 132779.



### 136779 Solenoid

**Replacing:** 0331303095, 2339303252, 9330141039

**Servicing:** 0001112007, 0001112032, B001180019, 9000333114

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.60, OD 56.35, OD/cover 49.45, Length 59.60, Total length 133.45, Height/B+ 14.80, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.20, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 132779.



### 136852 Solenoid

**Replacing:** 0331303145, 0331303229, 2339303229, 2339303248, 2339303291, 2339303324, 2339303407, 2339303434

**Servicing:** 0001108113, 0001108113, 0001108114, 0001108174, 0001108175, 0001108220

12 Volt, B+ M8, ID/cover 27.25, ID/eye 4.70, OD 56.45, OD/cover 49.25, Length 62.65, Total length 123.80, Height/B+ 19.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.25, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 137815.

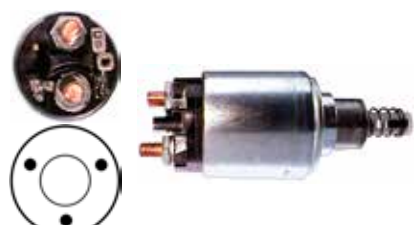


### 137175 Solenoid

**Replacing:** 0331303118, 0331303133, 0331303272, 0331303618, 0331303633, 1331303613, 2339303272

**Servicing:** 0001110040, 0001110047, 0001110059, B001117272, B001117250, B001117255

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.85, OD 56.25, OD/cover 49.20, Length 63.00, Total length 141.00, Height/B+ 20.50, Terminal 50 M6, Coil bolt M8, Coil bolt 2 12.00, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 138003.



### 137232 Solenoid

**Replacing:** 0331402107, 0331402607, 2339402111, 2339402611

**Servicing:** 0001367077, 0001369014, B001828111

12 Volt, B+ M10, ID/cover 29.95, OD 60.75, OD/cover 53.15, Length 82.10, Total length 171.00, Height/B+ 24.00, Coil bolt M10, Coil bolt 2 17.60, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131317.





### 137266 Solenoid

Replacing: 0331303142, 0331303642, 1986SE1662, 2339303220, 2339303312, 2339303315, 2339303318

Servicing: 0001107010, 0001107038, 0001107092, 0001107093, 0001108197

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.75, OD 56.15, OD/cover 49.55, Length 59.40, Total length 133.80, Height/B+ 13.45, Terminal 50 M6, Coil bolt M8, Coil bolt 2 7.90, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 138003.

Alternative no.: 333150



### 137276 Solenoid

Replacing: 1986SE1731, 9330331010, 9330331510

Servicing: 0001218172, 0001218772, 0001223002, 0001223016, 0001223021

12 Volt, B+ M8, ID/cover 27.10, ID/eye 4.75, OD 56.35, OD/cover 49.20, Length 64.60, Total length 142.00, Height/B+ 20.20, Coil bolt M8, Coil bolt 2 12.00, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 139213.

Alternative no.: 333141



### 137368 Solenoid

Replacing: 0331402011

Servicing: 0001365004, 0001365005, 0001365006, 0001365007, 0001365008, B001819001, B001819009, B001819015

12 Volt, B+ M10, ID/cover 30.00, OD 60.85, OD/cover 53.25, Length 92.45, Total length 182.30, Height/B+ 24.30, Coil bolt M10, Coil bolt 2 16.65, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 131318.



### 137443 Solenoid

Replacing: 0331401009, 0331401016, 0331401509

Servicing: 0001354012, 0001354027, 0001354038, 0001354055, 0001354083, 0001354084

12 Volt, B+ M10, ID/cover 29.85, ID/eye 5.90, OD 61.00, OD/cover 53.15, Length 92.75, Total length 175.15, Height/B+ 23.75, Coil bolt M10, Coil bolt 2 17.60, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 134383.



### 137491 Solenoid

Manufacturer: Bosch

Replacing: 1986SE1671, 2339303857, 9330331001

Servicing: 0001218157, 0001218757, 0001223001, 0001223014

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.60, OD 56.30, OD/cover 49.35, Length 63.00, Total length 152.20, Height/B+ 22.75, Terminal 50 M5, Coil bolt M8, Coil bolt 2 7.90, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 231565.



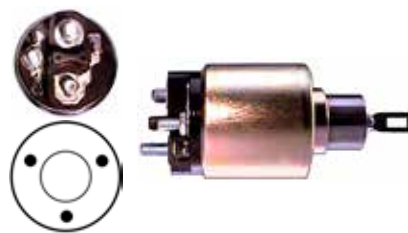
### 137612 Solenoid

Replacing: 2339304008, F000SH0125, F000SH0131, F000SH0125, F000SH0131

Servicing: 0001108162, 0001112041, 0001116003, F000AL0315, F000AL0325, F000AL0327

12 Volt, B+ M8, ID/cover 27.10, ID/eye 4.75, OD 56.40, OD/cover 49.80, Length 59.25, Total length 147.30, Height/B+ 21.40, Terminal 50 M5, Coil bolt M8, Coil bolt 2 7.25, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 234845.



### 137613 Solenoid

Replacing: 2339303001, 2339303201, 2339303206, 2339303706

Servicing: 0001107034, 0001107045, 0001107056, 0001107100, 0001107101

12 Volt, B+ M8, ID/cover 27.15, ID/eye 4.70, OD 56.40, OD/cover 49.25, Length 62.75, Total length 124.25, Height/B+ 16.40, Terminal 50 M6, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 138003.



### 137696 Solenoid

Replacing: 0331303134, 2339303273

Servicing: 0001110060, 0001110073, B001117271, B001117274

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.90, OD 56.35, OD/cover 49.00, Length 62.95, Total length 140.45, Height/B+ 20.10, Terminal 50 M6, Coil bolt M8, Coil bolt 2 12.15, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 138004.



### 137879 Solenoid

Replacing: 1986SE1673, 2339304005, 2339304009, 2339304010, 2339304013, 2339304040, 2339304046

Servicing: 0001107442, 0001107443, 0001108157, 0001108169, 0001108196, 0001108230, 0001108245

12 Volt, B+ M8, ID/cover 24.15, ID/eye 4.75, OD 52.15, OD/cover 45.65, Length 55.00, Total length 136.30, Height/B+ 14.00, Terminal 30H M5, Terminal 30H/width 7.70, Terminal 50 M6, Coil bolt M8, Coil bolt 2 7.40, No./mount. holes 3, No./terminals 4, Fork lever w/

Cap: HC-CARGO 231558.

Alternative no.: 333565





### 137982 Solenoid

Replacing: 2339303254, 2339303411, 2339303438

Servicing: 0001107054, 0001107055, 0001107068, 0001107069, 0001107073, 0001107074

12 Volt, B+ M8, ID/cover 27.25, ID/eye 4.60, OD 56.40, OD/cover 49.70, Length 59.40, Total length 143.60, Height/B+ 24.80, Terminal 15A/width 14.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.30, No./mount. holes 3, No./terminals 4  
Cap: HC-CARGO 139598.



### 138313 Solenoid

Replacing: 0311402606, 0331402106, 0331402606

Servicing: 0001369015, 0001369021, 0001369200, B001828107, B001828113

12 Volt, B+ M8, ID/cover 30.00, OD 60.85, OD/cover 54.00, Length 82.25, Total length 171.00, Height/B+ 23.85, Terminal 15A/width 2.65, Coil bolt M10, Coil bolt 2 24.00, No./mount. holes 3, No./terminals 4, Fork lever w/



### 138763 Solenoid

Replacing: 1986SE1677, 2339304015, 2339304047, 2339304050

Servicing: 0001107043, 0001107062, 0001107087, 0001107407, 0001107410, 0001107417, 0001107418

12 Volt, B+ M8, ID/cover 24.00, ID/eye 4.65, OD 52.45, OD/cover 45.30, Length 54.65, Total length 111.70, Height/B+ 13.10, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.35, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 137349.

Alternative no.: 333163



### 138877 Solenoid

Replacing: 0331304001, 0331304053, 1986SE1678, 2339304001, 2339304053

Servicing: 0001106011, 0001106020, 0001107016, 0001107040, 0001107041

12 Volt, B+ M8, ID/cover 24.25, ID/eye 4.85, OD 52.00, OD/cover 45.85, Length 54.60, Total length 130.55, Height/B+ 14.60, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.55, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 137349.

Alternative no.: 333149



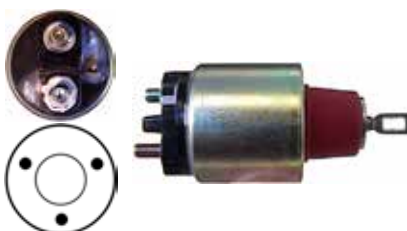
### 138971 Solenoid

Replacing: 0331303140, 0331303540, 0331303640, 1986SE1576

Servicing: 0001107014, 0001107027, 0001107028, 0001107029, 0001108035, 0001108040, 0001108071, 0001108082

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.75, OD 56.25, OD/cover 49.30, Length 62.70, Total length 140.00, Height/B+ 19.70, Terminal 50 M6, Coil bolt M8, Coil bolt 2 11.75, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 138004.

Alternative no.: 333148



### 139014 Solenoid

Replacing: 0331303168, 0331303668, 2339303279, 2339303321, 9330331009

Servicing: 0001108144, 0001109008, 0001109040, 0001109043, 0001109044, 0001110120

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.75, OD 56.30, OD/cover 50.00, Length 64.40, Total length 140.45, Height/B+ 13.70, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.15, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 131315.



### 139018 Solenoid

Replacing: 9330331012

Servicing: 0001218173

12 Volt, B+ M8, ID/cover 27.20, ID/eye 4.70, OD 56.30, OD/cover 50.00, Length 65.40, Total length 146.00, Height/B+ 19.85, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.95, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 131315.



### 139019 Solenoid

Replacing: 2339304003

Servicing: 0001107047, 0001112036, 0001107036

12 Volt, B+ M8, ID/cover 24.00, ID/eye 4.75, OD 52.30, OD/cover 45.80, Length 58.40, Total length 130.00, Height/B+ 14.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.95, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 231815.



### 139069 Solenoid

Replacing: 1986SE1668, 2339303202, 2339303294, 2339303306, 2339303839

Servicing: 0001107030, 0001107075, 0001107079, 0001109034, 0001110132

12 Volt, B+ M8, ID/cover 26.30, ID/eye 4.75, OD 56.25, OD/cover 49.65, Length 59.50, Total length 124.15, Height/B+ 13.80, Coil bolt M8, Coil bolt 2 8.35, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 139597.

Alternative no.: 333601





### 139075 Solenoid

Replacing: 1986SE1680, 2339304006, 2339304007, 2339304023, 2339304068, 2339304069

Servicing: 0001106014, 0001107062, 0001107067, 0001107072, 0001107076, 0001107078

12 Volt, B+ M8, ID/cover 24.10, ID/eye 4.95, OD 52.25, OD/cover 45.30, Length 54.75, Total length 127.00, Height/B+ 14.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.35, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 231802.

Alternative no.: 335514 5★



### 139498 Solenoid

Replacing: 1986SE1656, 2339303227, 2339303394, F000SH0123, F010SH0105

Servicing: 0001108202, 0001108234, 0001108235, 0001108239, 0001108240, 0001109018, 0001109030

12 Volt, B+ M8, ID/cover 27.10, ID/eye 4.80, OD 56.20, OD/cover 49.85, Length 59.30, Total length 145.00, Height/B+ 20.90, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.10, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 138004.

Alternative no.: 333592 5★



### 230115 5★ Solenoid

Manufacturer: Bosch

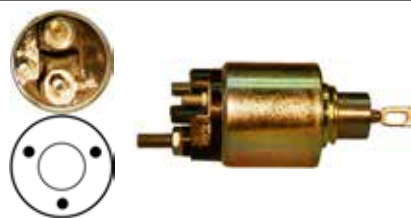
Replacing: 1986SE1674, 2339304011

Servicing: 0001107063, 0001107176, 0001108176, 0001108183, 0001109026, 0001107050, 0001108164, 0001109010

12 Volt, B+ M8, ID/cover 24.00, ID/eye 4.75, OD 52.20, OD/cover 45.60, Length 54.80, Total length 141.85, Height/B+ 21.35, Terminal 50 M5, Coil bolt M8, Coil bolt 2 7.30, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 231828.

Alternative no.: 333999



### 230258 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303170, 0331303670, 1986SE1676, 2339304022

Servicing: 0001107408, 0001109061, 0001113006, 0001116005

12 Volt, B+ M8, ID/cover 24.15, ID/eye 4.75, OD 52.15, OD/cover 46.00, Length 55.10, Total length 138.35, Height/B+ 20.95, Terminal 50 M6, Coil bolt M8, Coil bolt 2 8.40, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 231882.

Alternative no.: 335820



### 230356 Solenoid

Replacing: 1986SE1681, 2339304002, 2339304018, 2339304019, 2339304021, 2339304039, 2339304069, 2339305089

Servicing: 0001107037, 0001107048, 0001107062, 0001107067, 0001107072

12 Volt, B+ M8, ID/cover 24.00, ID/eye 4.75, OD 52.20, OD/cover 45.65, Length 55.00, Total length 130.70, Height/B+ 12.90, Terminal 50 M6, Coil bolt M8, Coil bolt 2 7.65, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 233075.

Alternative no.: 333157 5★



### 230452 Solenoid

Replacing: 2339402132, 2339402183

Servicing: 0001223506, 0001230006, 0001230012, 0001230014

12 Volt, B+ M10, ID/cover 30.00, OD 61.40, OD/cover 53.25, Length 82.55, Total length 151.00, Height/B+ 25.20, Terminal 50 4.70, Coil bolt M10, Coil bolt 2 14.35, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 231825.



### 230635 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1660, 2339303267

Servicing: 0001107102, 0001108197, 0001108205, 0001115005, F000AL0319, B001115020, 0001108250, 0001115119

12 Volt, B+ M8, ID/cover 27.20, ID/eye 4.75, OD 56.20, OD/cover 50.20, Length 59.35, Total length 139.40, Height/B+ 12.65, Terminal 50 M6, Coil bolt M8, Coil bolt 2 7.80, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 233925.

Alternative no.: 335819



### 230847 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339303282

Servicing: 0001109033

12 Volt, B+ M8, ID/cover 27.10, ID/eye 4.75, OD 56.25, OD/cover 49.75, Length 65.40, Total length 147.20, Height/B+ 20.35, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.25, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 138004.



### 230848 Solenoid

Replacing: 2339304020, 2339304025, 2339304062

Servicing: 0001106407, 0001116001, 0001106402

12 Volt, B+ M8, ID/cover 24.00, ID/eye 4.75, OD 52.25, OD/cover 45.65, Length 54.75, Total length 126.15, Height/B+ 14.65, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 234437.





### 231203 Solenoid

Manufacturer: Bosch

Replacing: 1986SE1753, 2339304038, 2339304055

Servicing: 0001106012, 0001106017

12 Volt, B+ M8, ID/cover 22.25, ID/eye 4.75, OD 52.30, OD/cover 50.30, Length 58.60, Total length 135.85, Switch dim. 2.65, Height/B+ 24.40, Terminal 50 6.30, Coil bolt M8, No./mount. holes 3, Bracket type Crimp, Fork lever w/  
Cap: HC-CARGO 234439.  
Alternative no.: 335000

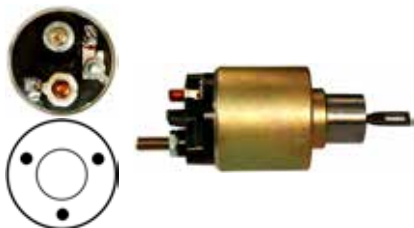


### 231223 Solenoid

Replacing: 2339402143, 6033AD4031

Servicing: 0001230007, 0001230020, 0001230021, 0001230022, F002G20785

12 Volt, B+ M10, ID/cover 30.10, OD 61.35, OD/cover 54.10, Length 82.90, Total length 172.35, Height/B+ 24.85, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 23.80, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/

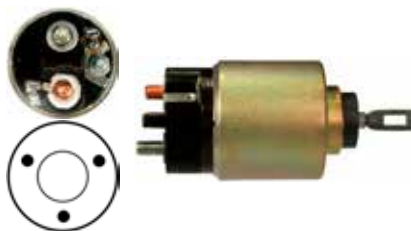


### 231653 Solenoid

Replacing: 2339303448, 6033AD0312

Servicing: 0001223013, 0001223013

12 Volt, B+ M8, ID/cover 26.35, ID/eye 4.55, OD 56.30, OD/cover 49.40, Length 62.90, Total length 144.90, Switch dim. 7.40, Height/B+ 20.65, Terminal 50 M6, Coil bolt M8, Coil bolt 2 10.25, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/



### 231790 Solenoid

Manufacturer: Bosch

Replacing: 0331303151, 0331303651, 2339303333

Servicing: 0001115012, 0001115024, 0001218140, 0001218150, 0001218156, 0001218162, 0001218740, 0001223005  
12 Volt, B+ M8, ID/cover 26.60, ID/eye 4.70, OD 56.30, OD/cover 50.40, Length 63.00, Total length 143.20, Switch dim. 7.10, Height/B+ 12.20, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/



### 231801 Solenoid

Replacing: 2339402115

Servicing: 0001369023, 0001369101, 0001369201

12 Volt, B+ M8, ID/cover 29.95, OD 60.80, OD/cover 54.00, Length 92.45, Total length 181.75, Height/B+ 23.95, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 24.80, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 131319.

Alternative no.: 333493

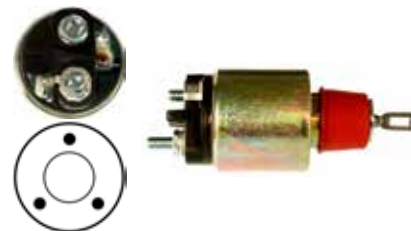


### 231975 Solenoid

Replacing: 0331400008, 0331400068

Servicing: 0001354016, 0001354018, 0001354031, 0001354080

12 Volt, B+ M10, ID/eye 6.00, OD 60.90, OD/cover 53.25, Total length 174.70, Height/B+ 27.40, Terminal 50 M5, Coil bolt M10, Coil bolt 2 17.00, No./mount. holes 3, No./terminals 3, Fork lever w/



### 232186 Solenoid

Replacing: 2339303309

Servicing: 0001109041

12 Volt, 1.0 kW, B+ M8, ID/cover 18.20, ID/eye 4.70, OD 56.20, OD/cover 54.60, Length 65.50, Total length 146.40, Switch dim. 6.60, Height/B+ 18.10, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/  
Cap: HC-CARGO 131315.



### 232188 Solenoid

Manufacturer: Bosch

Replacing: 2339304033, 2339304054

Servicing: 0001106017, 0001106022, 0001106023, 0001106024, B001109104

12 Volt, 0.9 kW, B+ M8, ID/cover 24.25, ID/eye 4.75, OD 52.50, OD/cover 45.30, Length 58.70, Total length 140.00, Height/B+ 10.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 7.90, No./mount. holes 3, No./terminals 3, Fork lever w/  
Moving contact: HC-CARGO 132276.  
Alternative no.: 335811



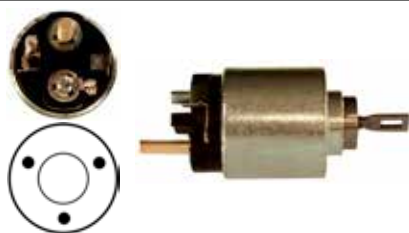
### 232420 Solenoid

Replacing: 0331303144, 0331303644

Servicing: 0001218132, 0001218133, 0001218147, 0001218159, 0001218759

12 Volt, B+ M8, ID/cover 27.15, ID/eye 4.60, OD 56.35, OD/cover 49.35, Length 63.15, Total length 135.75, Height/B+ 60.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.25, No./mount. holes 3, No./terminals 3, Fork lever w/





**233480** Solenoid  
 Replacing: 0331303162, 0331303662, 2339303230, 2339303249  
 Servicing: 0001107017, 0001107018, B001110081, B001110043  
 12 Volt, B+ M8, OD 56.35, OD/cover 49.75, Length 63.15, Total length 146.45, Height/B+ 24.90, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.50, No./mount. holes 3, No./terminals 4, Bracket type Crimp, Fork lever w/o  
 Cap: HC-CARGO 139598.



**233577** 5★ Solenoid  
 Manufacturer: Bosch  
 Replacing: 1986SE1679, 2339304029, 2339304032, 2339304057  
 Servicing: 0001106015, 0001107401, 0001107402, 0001107404, 0001107405, 0001107409, 0001107429  
 12 Volt, B+ M8, ID/cover 21.00, ID/eye 4.75, OD 50.00, OD/cover 50.00, Length 53.00, Total length 110.00, Height/B+ 14.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 3, No./terminals 3, Fork lever w/  
 Alternative no.: 335812



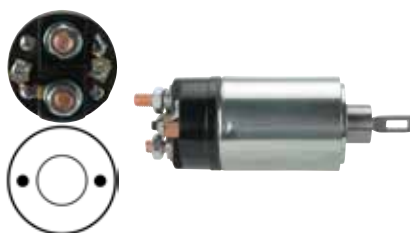
**233578** Solenoid  
 Replacing: 1986SE1670, 2339303842, 6033AD0074, 6033AD1113  
 Servicing: 0001223003, 0001223007, 0001223024  
 12 Volt, B+ M8, ID/eye 10.65, OD 56.25, OD/cover 49.80, Length 65.45, Total length 150.80, Height/B+ 16.80, Terminal 50 M6, No./mount. holes 3, No./terminals 3, Fork lever w/  
 Alternative no.: 333240 5★



**233579** 5★ Solenoid  
 Manufacturer: Bosch  
 Replacing: 0331402203  
 Servicing: 0001362091, 0001369024, B001812372  
 12 Volt, B+ M10, ID/cover 29.95, OD 61.30, OD/cover 63.60, Length 93.45, Total length 174.00, Height/B+ 20.00, Terminal 50 4.70, Coil bolt M10, Coil bolt 2 15.10, No./mount. holes 3, No./terminals 3, Fork lever w/



**233716** 5★ Solenoid  
 Manufacturer: Bosch  
 Replacing: 1986SE1665, 2339303289, 2339303316, 2339303405, 2339303432  
 Servicing: 0001107073, 0001107074, 0001109021, 0001109022  
 12 Volt, B+ M8, ID/cover 27.00, ID/eye 10.65, OD 56.40, OD/cover 49.55, Length 59.30, Total length 143.75, Height/B+ 18.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 3, No./terminals 3, Fork lever w/  
 Cap: HC-CARGO 137815.  
 Alternative no.: 335813



**233896** Solenoid  
 Replacing: 0331302060, 0331302560, 9330041001  
 Servicing: 0001311050, 0001311051, 0001311052, 0001311053, 0001311054, 0001311055, 0001311056, 0001314003  
 12 Volt, B+ M8, ID/eye 4.60, OD 51.40, OD/cover 49.45, Total length 149.00, Height/B+ 19.60, Coil bolt M8, Coil bolt 2 10.30, No./mount. holes 2, No./terminals 3, Fork lever w/



**233933** Solenoid  
 Replacing: 2339402118, 2339402126  
 Servicing: 0001367061, B001816377  
 12 Volt, B+ M10, ID/cover 29.95, OD 61.30, OD/cover 63.65, Length 93.45, Total length 179.45, Height/B+ 24.75, Terminal 15A/width 2.45, Terminal 50 M4, Coil bolt M10, Coil bolt 2 14.10, No./mount. holes 3, No./terminals 4, Fork lever w/



**234287** Solenoid  
 Replacing: 2339402140  
 Servicing: 0001223504, 0001230023, 0001230026, 0001362105  
 12 Volt, B+ M10, ID/cover 30.15, OD 61.30, OD/cover 64.20, Length 93.10, Total length 179.00, Height/B+ 25.35, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 24.30, No./mount. holes 3, No./terminals 3, Fork lever w/



**234434** 5★ Solenoid  
 Manufacturer: Bosch  
 Replacing: 2339303322  
 Servicing: 0001108186, 0001108185  
 12 Volt, B+ M8, ID/cover 27.20, ID/eye 4.55, OD 56.40, OD/cover 49.70, Length 59.70, Total length 96.00, Height/B+ 23.20, Terminal 50 M5, Coil bolt M8, Coil bolt 2 7.80, No./mount. holes 3, No./terminals 3, Fork lever w/  
 Cap: HC-CARGO 139525.  
 Alternative no.: 335817





**234857** Solenoid  
 Replacing: 0331302097  
 Servicing: 0001212208, 0001212209, 0001312100, B001322002  
 12 Volt, B+ M8, OD 50.15, OD/cover 49.85, Total length 148.50, Height/B+ 16.40, Terminal 15A/width 11.70, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.30, No./mount. holes 2, No./terminals 4, Fork lever w/ Cap: HC-CARGO 130479.



**234858** Solenoid  
 Replacing: 0331302081, 0331302084, 0331302085  
 Servicing: 0001208100, 0001208202, 0001211200, 0001211241, 0001211251, 0001311103, 0001311105  
 12 Volt, B+ M8, ID/eye 4.65, OD 50.25, OD/cover 50.00, Total length 142.65, Height/B+ 16.45, Terminal 15A/width 15.90, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.55, No./mount. holes 2, No./terminals 4, Fork lever w/



**234859** Solenoid  
 Replacing: 2339402113  
 Servicing: 0001369020  
 12 Volt, B+ M8, ID/cover 29.90, OD 60.80, OD/cover 53.90, Length 82.55, Total length 172.70, Height/B+ 24.35, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 25.00, No./mount. holes 3, No./terminals 3, Fork lever w/o Cap: HC-CARGO 131319.



**234903** 5★ Solenoid  
 Manufacturer: Bosch  
 Replacing: 2339305004, 2339305017, 2339305048, 2339305100, 2339305232  
 Servicing: 0001107411, 0001107478, 0001107479, 0001107490, 0001107491, 0001108202  
 12 Volt, B+ M8, ID/cover 41.00, ID/eye 4.68, OD 52.40, OD/cover 50.30, Length 56.90, Total length 137.00, Switch dim. 11.30, Height/B+ 21.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o  
 Alternative no.: 333998



**234967** Solenoid  
 Replacing: 2339304026  
 Servicing: 0001106016, 0001107080, 0001116004  
 12 Volt, 1.1 kW, B+ M8, ID/eye 4.60, OD 52.50, OD/cover 50.50, Length 55.00, Total length 125.45, Height/B+ 14.00, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 14.55, No./mount. holes 3, No./terminals 3, Fork lever w/o  
 Terminal 50: 9.30 mm.



**235060** 5★ Solenoid  
 Manufacturer: Bosch  
 Replacing: 1986SE1694, 2339305040, 2339305055, 2339305077, 2339305324  
 Servicing: 0001121032, 0001121033, 0001123012, 0001123013, 0001123014, 0001123015  
 12 Volt, B+ M8, ID/cover 26.00, ID/eye 4.60, OD 52.25, OD/cover 45.50, Length 60.40, Total length 153.20, Height/B+ 18.20, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 8.55, No./mount. holes 3, No./terminals 3, Fork lever w/o  
 Alternative no.: 333994



**235138** 5★ Solenoid  
 Manufacturer: Bosch  
 Replacing: 2339305005, 2339305024, 2339305052, 2339305074, 2339305322  
 Servicing: 0001107423, 0001107424, 0001107527, 0001107528, 0001120400, 0001120401  
 12 Volt, B+ M8, ID/cover 25.85, ID/eye 4.65, OD 52.30, OD/cover 45.85, Length 57.00, Total length 139.50, Height/B+ 22.15, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 8.60, No./mount. holes 3, No./terminals 3, Fork lever w/



**235292** Solenoid  
 Replacing: 2339303335  
 Servicing: 0001115015, 0001115020  
 12 Volt, 1.7 kW, B+ M8, ID/cover 43.00, ID/eye 10.00, OD 54.00, OD/cover 52.00, Length 59.50, Total length 110.30, Switch dim. 6.50, Height/B+ 13.00, Terminal 50 M6, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



**235535** 5★ Solenoid  
 Manufacturer: Bosch  
 Replacing: 1986SE1696, 2339305014, 2339305034, 2339305054, 2339305076, 2339305116, 2339305198, 2339305213  
 Servicing: 0001107427, 0001107428, 0001120406, 0001120407, 0001120408, 0001120409  
 12 Volt, B+ M8, ID/eye 4.60, OD 52.35, Length 56.75, Total length 149.90, Height/B+ 17.20, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 8.20, No./mount. holes 3, No./terminals 3, Fork lever w/o  
 Alternative no.: 333996





### 235871 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339402128, 2339402134

Servicing: 0001367082

12 Volt, 3.0 kW, B+ M10, OD 61.40, OD/cover 64.00, Length 82.85, Total length 176.80, Height/B+ 60.00, Terminal 15A/width 45.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 236645 Solenoid

Replacing: 2339402149

Servicing: 0001230002, 0001230018

12 Volt, 3.0 kW, B+ M10, OD 61.92, Total length 123.00, Height/B+ 20.29, Terminal 50 M5, No./mount. holes 3, No./terminals 3

Solenoid cap: HC-CARGO 231825.



### 236868 Solenoid

Replacing: 2339305059, 2339305081, 2339305120

Servicing: 0001107421, 0001107422, 0001108405, 0001108406

12 Volt, B+ M8, Height/B+ 15.00, Terminal 50 Plug, No./mount. holes 3



### 237672 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1684, 2339305033

Servicing: 0001105205, 0001109300, 0001109301, 0001109302, 0001109303, 0001109313, 0001109325, 0001109332

12 Volt, B+ M8, ID/eye 4.60, OD 52.50, OD/cover 45.45, Length 55.00, Total length 129.80, Height/B+ 16.00, Terminal 50 M6, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o  
Alternative no.: 333995



### 238106 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1683, 2339305018

Servicing: 0001108400, 0001109364, 0001108471, 0001109443, F026T02005

12 Volt, No./terminals 3

Alternative no.: 335816



### 238923 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339305015

Servicing: 0001107430, 0001108402, 0001107420, 0001108472

12 Volt, B+ M8, OD 52.40, OD/cover 50.50, Length 56.89, Total length 136.75, Switch dim. 6.55, Height/B+ 12.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.32, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 239776 Solenoid

Replacing: 2339305031

Servicing: 0001107448, 0001107449, 9001107434, F004A94434, F004A94441, F004A94449

12 Volt, 1.1 kW, B+ M8, ID/eye 4.50, OD 52.34, Length 58.00, Total length 108.98, Height/B+ 13.96, Coil bolt M8, No./mount. holes 3, No./terminals 3



### 239841 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1685, 2339305045, 2339305142

Servicing: 0001115040, 0001115041, 0001115045, 0001115046, 0001139025, 0001139026

12 Volt, 1.8 kW, B+ M8, OD 52.28, Total length 98.76, Height/B+ 16.64, Terminal 50 M6, No./mount. holes 3, No./terminals 3



### 239901 Solenoid

Replacing: 2339305046

Servicing: 0001107438, 0001107439, F026T02006

12 Volt, 1.1 kW, B+ M8, OD 52.28, Total length 96.78, Height/B+ 12.78, Terminal 50 M5, No./mount. holes 3, No./terminals 3



### 330030 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1695, 2339305025, 2339305056, 2339305078, 2339305119, 2339305325

Servicing: 0001108206, 0001108207, 0001108228, 0001108229, 0001109258, 0001109259

12 Volt, 2.2 kW, B+ M8, OD 52.32, Total length 139.11, Height/B+ 60.00, Terminal 50 Plug, No./mount. holes 3, No./terminals 3, Bracket type Crimp



### 330224 Solenoid

Replacing: 2339305050

Servicing: 0001106405, 0001106406

12 Volt, 0.9 kW, B+ M8, ID/eye 4.50, OD 52.34, OD/cover 50.37, Length 56.94, Total length 126.50, Switch dim. 6.36, Height/B+ 21.08, Terminal 50 Plug, No./mount. holes 3, Bracket type Crimp, Fork lever w/o





### 330259 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1688, 2339305032, 2339305068, 2339305070, 2339305088

Servicing: 0001107452, 0001107453, 0001108415, 0001108416, 0001109064, 0001109065, 0001109275, 0001109276

12 Volt, 2.0 kW, B+ M8, OD 52.44, Length 56.93, Total length 143.27, Height/B+ 18.05, Terminal 50 Plug, No./mount. holes 3



### 330264 Solenoid

Replacing: 2339305062

Servicing: 0001108411, 0001108412, 0001109304, 0001109305, 0001109328, 0001109329, 0001109391, 0001109392

12 Volt, 2.0 kW, B+ M8, OD 52.56, Total length 139.56, Height/B+ 17.67, Terminal 50 M6, No./mount. holes 3, Bracket type Crimp



### 330491 Solenoid

Replacing: 2339305084

Servicing: 0001138001, 0001138002, 0001138043, 0001138044, 0001138049, 0001138050, 0001148015, 0001148016

12 Volt, B+ M8, OD 52.40, Total length 134.00, Height/B+ 15.70, Terminal 50 Plug, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 3, Bracket type Crimp



### 330787 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1687, 2339305064

Servicing: 0001109271, 0001109272, 0001109284, 0001109285, 0001115049, 0001115050, 0001115070, 0001115071

12 Volt, 1.7 kW, B+ M8, OD 52.43, Length 57.00, Total length 138.50, Height/B+ 18.50, Terminal 50 M6, Coil bolt M8, Coil bolt 2 8.50, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 331017 Solenoid

Replacing: 2339303847, 6033AD0025, 6033AD0026

Servicing: 0001218822, 0001223010, 6033AB1J00

12 Volt, B+ M8, ID/eye 4.80, OD 56.60, OD/cover 49.50, Length 66.50, Total length 150.00, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 331019 Solenoid

Replacing: 0331300019, 0331300022, 0331300025

Servicing: 0001305012, 0001305013, 0001305016, 0001305018, 0001307007, 0001307009, 0001307017

12 Volt, B+ M8, OD 54.60, Total length 130.00, No./mount. holes 2, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 331985 Solenoid

Replacing: 2339305114

Servicing: 0001109069, 0001109070, 0001115068, 0001115069, 0001139001, 0001139002, 0001139015, 0001139016

12 Volt, B+ M8, ID/eye 4.70, OD 52.30, OD/cover 50.40, Length 60.35, Total length 138.60, Switch dim. 6.50, Height/B+ 12.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 8.00, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 332069 Solenoid

Replacing: 1986SE1698, 2339305158, 2339305293, 2339305339

Servicing: 0001123028, 0001123029, 0001123036, 0001123037, 0001123038, 0001123039, 0001123044, 0001123045

12 Volt, 2.0 kW, B+ M8, ID/eye 4.61, OD 52.20, Length 60.41, Total length 133.87, Height/B+ 17.59, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 8.30, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 332153 Solenoid

Replacing: 2339305092

Servicing: 0001109321, 0001109322, 0001109342, 0001109343

12 Volt, 2.4 kW, B+ M8, OD 52.00, OD/cover 51.00, Length 60.34, Total length 126.18, Height/B+ 24.51, Terminal 50 M6, Coil bolt M8, Coil bolt 2 8.50, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o





### 332884 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303118, 2339303271, 2339303397

Servicing: 0001110047, 0001115013, 0001115011, 0001115118

12 Volt, 1.7 kW, B+ M8, ID/eye 10.65, OD 56.27, Length 65.44, Total length 135.81, Height/B+ 14.44, Terminal 50 M6, Coil bolt M8, Coil bolt 2 7.49, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 332894 Solenoid

Replacing: 1986SE1689, 2339305111

Servicing: 0001137001, 0001137002, 0001137003, 0001137004, 0001137011, 0001137012, 0001138011, 0001138012

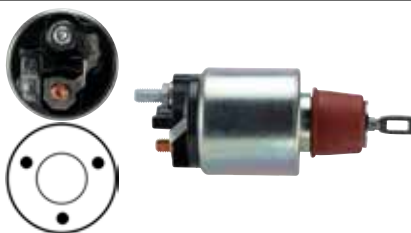
12 Volt, B+ M8, OD 52.30, OD/cover 45.75, Length 57.00, Total length 141.90, Height/B+ 60.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 8.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket



### 332910 Solenoid

Servicing: 0001107425, 0001107426

12 Volt, OD 52.50, OD/cover 50.50, Total length 92.80, No./mount. holes 3, Bracket type Crimp



### 333141 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1731, 9330331010, 9330331510

12 Volt, B+ M8, ID/cover 27.10, ID/eye 4.75, OD 56.35, OD/cover 49.20, Length 64.60, Total length 142.00, Height/B+ 20.20, Coil bolt M8, Coil bolt 2 12.00, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 139213.

Alternative no.: 137276



### 333142 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303048, 0331303061, 0331303154, 0331303654, 1986SE1532, 2339303102, 2339303260, 2339303262

Servicing: 0001108003, 0001108032, 0001108046, 0001108066, 0001108068, 0001108069, 0001108103, 0001108104

12 Volt, B+ M8, ID/cover 26.90, ID/eye 4.75, OD 56.55, OD/cover 49.50, Length 62.70, Total length 140.15, Height/B+ 19.80, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 12.30, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 132780.

Alternative no.: 132258



### 333145 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303147, 0331303647, 1986SE1655, 1986SE1663, 2339303211, 2339303222, 2339303225, 2339303258

Servicing: 0001107020, 0001107021, 0001107022, 0001107023, 0001107025, 0001107026, 0001107052, 0001107053

12 Volt, B+ M8, ID/cover 26.80, ID/eye 4.85, OD 56.30, OD/cover 49.65, Length 62.85, Total length 145.25, Height/B+ 19.75, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 12.25, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 134825.

Alternative no.: 134824



### 333146 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303002, 0331303013, 0331303024, 0331303029, 0331303032, 0331303041, 0331303059, 0331303071

Servicing: 0001106001, 0001106002, 0001107003, 0001107004, 0001107007, 0001107008, 0001108001, 0001108002

12 Volt, B+ M8, ID/eye 4.90, OD 56.35, OD/cover 49.70, Length 62.90, Total length 138.00, Height/B+ 18.60, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.30, No./mount. holes 3, Fork lever w/ Cap: HC-CARGO 131337.

Alternative no.: 131586



### 333147 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303006, 0331303026, 0331303506, 1986SE1570, 1986SE1661, 1986SE1664, 2339303249, 2339303284

12 Volt, B+ M8, ID/cover 27.10, ID/eye 4.80, OD 56.35, OD/cover 49.35, Length 63.00, Total length 140.80, Height/B+ 20.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.60, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131315.

Alternative no.: 131143, 333665



### 333148 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303140, 0331303540, 0331303640, 1986SE1576

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.75, OD 56.25, OD/cover 49.30, Length 62.70, Total length 140.00, Height/B+ 19.70, Terminal 50 M6, Coil bolt M8, Coil bolt 2 11.75, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 138004.

Alternative no.: 138971





### 333149 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331304001, 0331304053, 1986SE1678, 2339304001, 2339304053

12 Volt, B+ M8, ID/cover 24.25, ID/eye 4.85, OD 52.00, OD/cover 48.85, Length 54.60, Total length 130.55, Height/B+ 14.60, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.55, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 137349.

Alternative no.: 138877



### 333150 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303142, 0331303642, 1986SE1662, 2339303220, 2339303312, 2339303315, 2339303318

12 Volt, B+ M8, ID/cover 27.00, ID/eye 4.75, OD 56.15, OD/cover 49.55, Length 59.40, Total length 133.80, Height/B+ 13.45, Terminal 50 M6, Coil bolt M8, Coil bolt 2 7.90, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 138003.

Alternative no.: 137266



### 333153 5★ Solenoid

Manufacturer: Bosch

Replacing: 0333009004, 1986SE3744

12 Volt, 150 Amp, Intermittent load 800 Amp., B+ M8, OD 51.75, OD/cover 44.00, Total length 100.15, Height/B+ 17.75, Coil bolt M8, Coil bolt 2 17.75, Seconds 5, No./mount. holes 2, No./terminals 4

Silver contact. Insulated return.

Alternative no.: 131373z



### 333157 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339304002, 2339304018, 2339304019, 2339304021, 2339304039, 2339304069, 2339305089

Servicing: 0001107037, 0001107048, 0001107072, 0001107096, 0001107403, 0001107406, 0001108184, 0001109014

12 Volt, B+ M8, ID/cover 24.00, ID/eye 4.75, OD 52.20, OD/cover 45.65, Length 55.00, Total length 130.70, Height/B+ 14.65, Terminal 50 M6, Coil bolt M8, Coil bolt 2 7.65, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 233075.

Alternative no.: 230356



### 333163 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1677, 2339304015, 2339304047, 2339304050

Servicing: 0001107062, 0001107417, 0001107418, 0001107499, 0001107500, 0001107501, 0001107502, 0001108408

12 Volt, B+ M8, ID/cover 24.00, ID/eye 4.65, OD 52.45, OD/cover 45.30, Length 54.65, Total length 111.70, Height/B+ 13.10, Terminal 30H M10, Terminal 30H/width 45.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.35, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 137349.

Alternative no.: 138763



### 333166 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303043, 0331303045, 0331303064, 0331303070, 0331303570, 1986SE1573

Servicing: 9000695002

12 Volt, B+ M8, ID/cover 26.75, OD 56.25, OD/cover 49.30, Length 62.80, Total length 139.75, Height/B+ 20.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.25, No./mount. holes 3, No./terminals 3, Fork lever w/

Alternative no.: 132827



### 333240 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1670, 2339303842, 6033AD0074, 6033AD1113

Servicing: 0001223003, 0001223024

12 Volt, OD 33.00, Length 65.00, Total length 101.50, No./mount. holes 3, Fork lever w/

Alternative no.: 233578



### 333242 Solenoid

Replacing: 2339304037

Servicing: 0001109046, 0001109027

12 Volt, B+ M8, ID/eye 4.65, OD 52.50, Length 54.74, Total length 123.00, Height/B+ 14.45, Terminal 50 6.30, Coil bolt M8, No./mount. holes 3, No./terminals 3, Fork lever w/



### 333243 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1686, 2339305051, 2339305226

Servicing: 0001109205, 0001109324, 0001109387, 0001109388, 0001115089, 0001115092, 0001115093, 0001109325

12 Volt, B+ M8, OD 52.00, Length 27.00, Total length 93.00, No./mount. holes 3, Fork lever w/

Alternative no.: 336353





### 333316 Solenoid

Replacing: 2339305066

Servicing: 0001109273, 0001109274, 0001115051, 0001115052, 0001115073, 0001115076, 0001115077, 0001115072  
12 Volt, B+ M8, ID/eye 4.55, OD 53.00, OD/cover 45.30, Length 55.00, Total length 134.00, Terminal 50 M6, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp



### 333321 Solenoid

Replacing: 2339402119

Servicing: 0001230001

12 Volt, B+ M10, ID/eye 5.90, OD 61.50, OD/cover 54.50, Length 82.85, Total length 166.50, Terminal 50 M4, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333395 Solenoid

Replacing: 2339304070

Servicing: 0001108428, 0001108429

12 Volt, B+ M8, ID/eye 4.60, OD 52.50, OD/cover 45.30, Length 55.00, Total length 140.00, Height/B+ 28.00, Terminal 50 M5, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp



### 333493 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339402115

Servicing: 0001369023, 0001369201

12 Volt, B+ M8, ID/eye 5.70, OD 61.50, OD/cover 54.00, Length 93.20, Total length 112.20, Switch dim. 19.50, Height/B+ 15.00, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 19.00, No./mount. holes 3, No./terminals 3, Fork lever w/o

Alternative no.: 231801



### 333513 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1692, 2339305238

Servicing: 0001107434, 0001107530, 0001107531, 0001107433, 0001107440, 0001107441

12 Volt, B+ M8, ID/eye 4.55, OD 52.35, OD/cover 45.85, Length 56.75, Total length 97.62, Height/B+ 14.20, Coil bolt M8, Coil bolt 2 8.50, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333565 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1673, 2339304005, 2339304009, 2339304010, 2339304013, 2339304040, 2339304046

Servicing: 0001107442, 0001107443, 0001108157, 0001108230, 0001108401, 0001109025, 0001109200, 0001109201

12 Volt, B+ M8, ID/eye 4.70, OD 52.30, OD/cover 45.70, Length 54.90, Total length 95.70, Height/B+ 24.70, Terminal 30H M5, Terminal 30H/width 7.70, Terminal 50 M6, Coil bolt M8, Coil bolt 2 7.40, No./mount. holes 3, No./terminals 4, Fork lever w/o

Alternative no.: 137879



### 333568 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303060, 0331303083, 0331303090, 0331303091, 0331303097, 0331303122, 0331303560, 0331303597

Servicing: 0001208211, 0001208213, 0001218003, 0001218012, 0001218013, 0001218018, 0001218019, 0001218020

12 Volt, B+ M8, ID/eye 4.60, OD 56.50, OD/cover 50.00, Length 62.80, Total length 92.80, Switch dim. 10.70, Height/B+ 26.00, Terminal 50 6.30, Coil bolt M8, No./mount. holes 3, No./terminals 3, Fork lever w/o

Alternative no.: 132267



### 333572 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1661, 1986SE1664, 2339303293, 2339303345, 2339303378, 2339303413

Servicing: 0001107009, 0001107085, 0001108099, 0001109012, 0001109017, 0001109049, 0001110001, 0001110002

12 Volt, B+ M8, ID/eye 4.70, OD 56.30, OD/cover 49.70, Length 62.90, Total length 87.60, Switch dim. 10.60, Height/B+ 20.80, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.60, No./mount. holes 3, No./terminals 3, Fork lever w/o

Alternative no.: 131143



### 333592 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1656, 2339303227, F000SH0123, F010SH0105

Servicing: 0001109018, 0001109030, 0001109045, 0001109048, 0001109253, F002G20506

12 Volt, B+ M8, ID/eye 4.60, OD 56.50, OD/cover 49.80, Length 59.30, Total length 92.30, Height/B+ 20.40, Terminal 50 M6, Coil bolt M8, No./mount. holes 3, No./terminals 3, Fork lever w/o

Alternative no.: 139498





### 333601 Solenoid

Manufacturer: Bosch

Replacing: 1986SE1668, 2339303202, 2339303294, 2339303306, 2339303839

Servicing: 0001109034

12 Volt, B+ M8, ID/eye 4.60, OD 56.50, OD/cover 49.80, Length 59.20, Total length 92.30, Switch dim. 10.60, Height/B+ 13.80, Terminal 50 Plug, Coil bolt M8, No./mount. holes 3, No./terminals 3, Fork lever w/o

Alternative no.: 139069



### 333665 Solenoid

Replacing: 0331303006, 0331303026, 0331303058, 0331303506, 2339303284

12 Volt, B+ M8, ID/eye 4.80, OD 56.35, OD/cover 49.35, Length 63.00, Total length 140.80, Height/B+ 20.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.50, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o

Alternative no.: 131143, 333147



### 333744 Solenoid

Replacing: 2339402131

Servicing: 0001230003, 0001230005

12 Volt, B+ M10, ID/eye 5.75, OD 61.35, OD/cover 53.85, Length 83.00, Total length 174.50, Height/B+ 19.90, Terminal 50 M5, Coil bolt M10, Coil bolt 2 10.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o

Alternative no.: 335483



### 333780 Solenoid

Replacing: 2339305145, 2339305236

Servicing: 0001139029, 0001139030, 0001139408, 0001139409

12 Volt, B+ M8, ID/eye 4.70, OD 52.50, OD/cover 45.85, Length 57.50, Total length 137.50, Height/B+ 11.95, Terminal 50 M6, Coil bolt M8, Coil bolt 2 3.50, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333839 Solenoid

Replacing: 0331400001

12 Volt, B+ M10, ID/eye 5.60, OD 61.00, Total length 163.00, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333842 Solenoid

Replacing: 1986SE1669, 2339303369, 2339303840

Servicing: 00010DB98E, F000AL0111, F004A94008, F004A94011

12 Volt, B+ M8, ID/eye 4.50, OD 56.40, Length 62.85, Total length 146.75, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333917 Solenoid

Replacing: 1986SE3694, 2339402300, 2339402303, 2339402350

Servicing: 0001260001, 0001260004

12 Volt, B+ M10, ID/eye 5.75, OD 61.65, OD/cover 53.90, Length 83.00, Total length 172.00, Height/B+ 20.10, Terminal 50 M5, Coil bolt M10, Coil bolt 2 20.10, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333922 Solenoid

Replacing: 1986SE1675, 2339304016, 2339304048

Servicing: 0001106014, 0001107024, 0001107058, 0001107060, 0001107061, 0001107090, 0001108203, 0001108210

12 Volt, B+ M8, ID/eye 4.75, OD 52.50, OD/cover 45.60, Length 58.70, Total length 131.10, Height/B+ 13.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 7.50, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333942 Solenoid

Replacing: 2339303849, 6033AD0230

Servicing: 0001223004, 0001223104

12 Volt, B+ M8, ID/eye 4.70, OD 56.80, OD/cover 50.00, Length 63.00, Total length 145.20, Height/B+ 9.50, Terminal 50 Plug, Coil bolt M8, Coil bolt 2 5.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333963 Solenoid

Replacing: 2339305009, 2339305061

Servicing: 0001108208, 0001108209, 0001108211, 0001108212

12 Volt, B+ M8, ID/eye 4.50, OD 52.40, OD/cover 45.50, Length 60.00, Total length 142.30, Height/B+ 30.00, Terminal 50 6.30, Coil bolt M8, No./mount. holes 3, Bracket type Crimp, Fork lever w/o





### 333994 Solenoid

Replacing: 1986SE1694, 2339305040, 2339305055, 2339305077, 2339305324

Servicing: 0001123012, 0001123013, 0001123014, 0001123015, 0001123017, 0001123018, 0001123019, 0001123020  
12 Volt, B+ M8, ID/cover 26.00, ID/eye 4.60, OD 52.25, OD/cover 45.50, Length 60.40, Total length 153.20, Height/B+ 18.20, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 8.55, No./mount. holes 3, No./terminals 3, Fork lever w/o

Alternative no.: 235060



### 333995 Solenoid

Replacing: 1986SE1684, 2339305033

Servicing: 0001105205, 0001109205, 0001109300, 0001109301, 0001109302, 0001109303, 0001109313, 0001109332  
12 Volt, B+ M8, ID/eye 4.60, OD 52.50, OD/cover 45.45, Length 55.00, Total length 129.80, Terminal 50 M6, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o

Alternative no.: 237672



### 333996 Solenoid

Replacing: 1986SE1696, 2339305014, 2339305034, 2339305054, 2339305076, 2339305116, 2339305198, 2339305213

Servicing: 0001121408, 0001121409, 0001121429, 0001121430, 0001121435, 0001121436, 0001122400, 0001122401  
12 Volt, B+ M8, ID/eye 4.60, OD 52.35, OD/cover 45.90, Length 56.50, Total length 147.80, Height/B+ 17.20, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 8.20, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o

Alternative no.: 235535



### 333997 Solenoid

Replacing: 1986SE1682, 2339305013, 2339305026, 2339305047

Servicing: 0001108222, 0001108223, 0001115048, 0001115074, 0001115075  
12 Volt, B+ M8, ID/eye 4.65, OD 52.50, OD/cover 45.45, Length 54.85, Total length 128.25, Terminal 50 M6, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333998 Solenoid

Replacing: 2339305004, 2339305017, 2339305048, 2339305100, 2339305232

Servicing: 0001108202, 0001108204, 0001108224, 0001108234, 0001108235, 0001108239, 0001108240, 0001115021  
12 Volt, B+ M8, ID/eye 4.50, OD 52.40, OD/cover 45.55, Length 56.90, Total length 137.00, Height/B+ 21.00, Terminal 50 M6, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o

Alternative no.: 234903



### 333999 Solenoid

Replacing: 1986SE1674, 2339304011

Servicing: 0001107063, 0001108176, 0001108183, 0001109026  
12 Volt, B+ M8, ID/cover 24.00, ID/eye 4.50, OD 52.20, OD/cover 45.60, Length 54.80, Total length 141.85, Height/B+ 21.35, Terminal 50 M5, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o

Alternative no.: 230115



### 334046 Solenoid

12 Volt, 1.1 kW, B+ M8, OD 51.50, OD/cover 49.40, Length 41.00, Total length 93.50, Height/B+ 16.50, Terminal 50 M5-6.30, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335000 Solenoid

Replacing: 1986SE1753, 2339304038, 2339304055

Servicing: 0001106012, 0001106017, 0001106022

12 Volt, B+ M8, ID/eye 4.50, OD 52.20, OD/cover 45.50, Length 58.50, Total length 136.70, Height/B+ 27.70, Terminal 50 6.30, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o

Alternative no.: 231203



### 335054 Solenoid

Replacing: 2339305257

Servicing: 0001148009, 0001148010, 0001148029, 0001148030

12 Volt, B+ M8, ID/eye 4.70, OD 52.50, OD/cover 45.90, Length 60.85, Total length 140.75, Height/B+ 12.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 8.00, No./mount. holes 3, Bracket type Crimp, Fork lever w/o





### 335055

Solenoid

Replacing: 2339305354

Servicing: 0001148019, 0001148020, 0001148033, 0001148034, 0001148508, 0001148509, 0001172406, 0001172407  
12 Volt, B+ M8, ID/eye 5.10, OD 52.50, OD/cover 45.80, Total length 140.00, Height/B+ 12.40, Terminal 50 M6, Coil bolt M8, Coil bolt 2 8.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335056

Solenoid

Replacing: 2339305124

Servicing: 0001138009, 0001138010, 0001139005, 0001139006, 0001139013, 0001139014  
12 Volt, B+ M8, ID/eye 4.85, OD 52.50, Length 57.35, Total length 138.55, Height/B+ 16.05, Terminal 50 M6, Coil bolt M8, Coil bolt 2 4.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335057

Solenoid

Replacing: 2339305306

Servicing: 0001108466, 0001109315, 0001109421, 0001109422, 0001115110, 0001107534, 0001107535, 0001108467  
12 Volt, B+ M8, ID/eye 4.85, OD 52.50, OD/cover 45.75, Length 57.50, Total length 145.60, Height/B+ 17.80, Terminal 50 Plug, Coil bolt M8, Coil bolt 2 3.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335061<sup>#</sup>

Solenoid

Replacing: 2339305335

Servicing: 0001179510, 0001179511  
12 Volt, B+ M8, ID/eye 4.70, OD 52.50, OD/cover 45.95, Length 60.80, Total length 154.50, Height/B+ 18.00, Terminal 50 Plug, Coil bolt M8, Coil bolt 2 3.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335090

5★ Solenoid

Manufacturer: Bosch

Replacing: 2339303844, 2339303867

Servicing: 0001109344, 0001109345, 0001109413, 0001109414  
12 Volt, B+ M8, ID/eye 4.60, OD 56.30, OD/cover 50.20, Length 59.30, Total length 139.40, Height/B+ 14.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.50, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335092

5★ Solenoid

Manufacturer: Bosch

Replacing: 2339305008

Servicing: 0001108236, 0001125025, 0001125024, F026T02007  
12 Volt, B+ M8, ID/eye 4.60, OD 52.50, OD/cover 46.00, Length 60.60, Total length 139.00, Height/B+ 12.80, Terminal 50 M6, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335093

5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1697, 2339305037, 2339305071, 2339305118, 2339305292, 2339305338

Servicing: 0001123024, 0001123025, 0001125521, 0001125522, 0001125607, 0001125608, 0001125609, 0001125610  
12 Volt, B+ M8, ID/eye 4.50, OD 52.50, OD/cover 45.70, Length 60.35, Total length 155.00, Height/B+ 18.25, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335096

Solenoid

Replacing: 2339305169

Servicing: 0001139043, 0001139044, 0001149400, 0001149401  
12 Volt, B+ M8, ID/eye 4.60, OD 52.50, OD/cover 45.75, Length 57.00, Total length 137.80, Height/B+ 19.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 7.80, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 335097

5★ Solenoid

Manufacturer: Bosch

Replacing: 2339305211, 2339305329

Servicing: 0001177000, 0001177001, 0001177002, 0001177003, 0001177004, 0001177005, 0001177008, 0001177009  
12 Volt, B+ M8, ID/eye 4.70, OD 52.50, OD/cover 46.35, Length 56.90, Total length 148.50, Height/B+ 18.00, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o





### 335099 Solenoid

Replacing: 1986SE1751, 2339305129

Servicing: 0001107450, 0001107451, 0001107508, 0001107509, 0001107534, 0001108445, 0001108446, 0001109361  
12 Volt, B+ M8, ID/eye 10.60, OD 52.50, OD/cover 45.00, Total length 143.00, Height/B+ 24.00, Coil bolt M8, Coil bolt 2 14.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335181 Solenoid

Replacing: 2339402306, 2339402356

Servicing: 0001262002, 0001262029, 0001262030, 0001262031, 0001262032  
12 Volt, B+ M10, ID/cover 30.22, OD 61.50, OD/cover 53.25, Length 82.50, Total length 115.00, Height/B+ 25.00, Terminal 50 M4, Coil bolt M10, Coil bolt 2 14.00, No./mount. holes 3, No./terminals 3



### 335186 Solenoid

Replacing: 2339303864

Servicing: 0001109369, 0001109370  
12 Volt, B+ M8, ID/eye 5.00, OD 56.90, OD/cover 49.50, Length 65.25, Total length 89.00, Terminal 50 M4, Coil bolt M8, Coil bolt 2 5.00, No./mount. holes 3, Fork lever w/o



### 335333 Solenoid

Replacing: 2339305060

Servicing: 0001107461, 0001107462, 0001108213, 0001108214, 0001108404, 0001108409, 0001108410, 0001108403  
12 Volt, B+ M8, ID/eye 10.50, OD 52.50, OD/cover 45.20, Length 55.15, Total length 120.70, Height/B+ 22.70, Terminal 50 M6, Coil bolt M8, Coil bolt 2 15.15, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 335334 Solenoid

Replacing: 2339304071

Servicing: 0001107476, 0001107477  
12 Volt, B+ M8, ID/eye 10.50, OD 52.50, OD/cover 45.30, Length 54.83, Total length 122.00, Height/B+ 26.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 7.20, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 335336 Solenoid

Replacing: 2339304526

Servicing: 0001107492, 0001107493, 0001107494, 0001107495, 0001107521, 0001107522  
12 Volt, B+ M8, ID/eye 4.60, OD 52.50, OD/cover 45.30, Length 54.70, Total length 120.30, Height/B+ 16.50, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 335339 Solenoid

Replacing: 2339305196

Servicing: 0001137005, 0001137006  
12 Volt, B+ M8, ID/eye 10.50, OD 52.50, OD/cover 45.80, Length 57.00, Total length 123.50, Height/B+ 17.15, Terminal 50 M6, Coil bolt M8, Coil bolt 2 12.75, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 335353 Solenoid

Replacing: 2339305149

Servicing: 0001121440, 0001121439  
12 Volt, B+ M8, ID/eye 10.40, OD 52.40, OD/cover 45.50, Length 56.50, Total length 122.00, Height/B+ 22.30, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 335354 Solenoid

Replacing: 2339305107

Servicing: 0001138013, 0001138014  
12 Volt, B+ M8, OD 52.50, OD/cover 45.90, Total length 145.00, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335355 Solenoid

Replacing: 2339305125

Servicing: 0001138015, 0001138016  
12 Volt, B+ M8, OD 52.50, OD/cover 46.00, Total length 132.00, Height/B+ 14.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 8.40, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 335356 Solenoid

Replacing: 2339305115

Servicing: 0001138019, 0001138020, 0001139017, 0001139018, 0001139019, 0001139020, 0001139041, 0001139042  
12 Volt, B+ M8, OD 52.50, OD/cover 45.40, Total length 143.00, Height/B+ 19.00, Coil bolt M8, Coil bolt 2 7.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 335357 Solenoid

Manufacturer: Bosch

Replacing: 1986SE1693, 2339305193, 2339305243

Servicing: 0001147402, 0001147403, 0001147406, 0001147407, 0001147408, 0001147409, 0001149404, 0001149405  
12 Volt, B+ M8, OD 52.50, OD/cover 45.80, Total length 91.00, Height/B+ 20.00, Coil bolt M8, No./mount. holes 3, No./terminals 3, Fork lever w/o





### 335360 Solenoid

Replacing: 2339305215, 2339305332

Servicing: 0001153013, 0001153014, 0001153020, 0001153019

12 Volt, B+ M8, OD 52.50, OD/cover 46.00, Total length 154.00, Height/B+ 18.00, Coil bolt M8, Coil bolt 2 4.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335361 Solenoid

Replacing: 2339305212, 2339305330

Servicing: 0001179502, 0001179503, 0001179504, 0001179505, 0001179512, 0001179513, 0001179514, 0001179515

12 Volt, B+ M8, OD 52.50, OD/cover 45.50, Total length 149.00, Height/B+ 17.00, Coil bolt M8, Coil bolt 2 4.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp



### 335390 Solenoid

Replacing: 2339402175

Servicing: 0001230015, 0001230016, 0001230028, 0001230029

12 Volt, B+ M10, OD 61.50, OD/cover 42.30, Total length 110.00, Terminal 30H M10, Terminal 30H/width 15.50, Terminal 50 M6, No./mount. holes 3, No./terminals 3



### 335483 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339402131

12 Volt, B+ M10-1.50, OD 61.50, Total length 108.00, Height/B+ 19.50, Terminal 50 M6, Coil bolt M10-1.50, Coil bolt 2 18.50, No./mount. holes 3, No./terminals 3  
Alternative no.: 333744



### 335489 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303100, 0331303102, 0331303105, 0331303116, 0331303117, 0331303120, 0331303126, 0331303616

12 Volt, B+ M8, ID/eye 4.60, OD 56.50, OD/cover 50.00, Length 63.00, Total length 142.00, Height/B+ 15.00, Terminal 30H M5, Terminal 50 M6, Coil bolt M8, Coil bolt 2 10.30, No./mount. holes 3, No./terminals 4, Bracket type Bracket, Fork lever w/o  
Alternative no.: 136036



### 335491 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303066, 1986SE1571

12 Volt, B+ M8, ID/eye 4.60, OD 56.50, OD/cover 50.00, Length 62.90, Total length 142.00, Height/B+ 19.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.60, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o  
Alternative no.: 132265



### 335497 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE3754, 2339402389

Servicing: 0001261069, 0001261070, 0001261071, 0001261072

24 Volt, B+ M10, ID/eye 6.10, OD 61.60, OD/cover 54.10, Length 103.00, Total length 203.50, Height/B+ 31.00, Terminal 50 M6, Coil bolt M10, Coil bolt 2 20.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335499 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303007, 1986SE1569

12 Volt, B+ M8, ID/eye 4.60, OD 56.50, OD/cover 50.00, Length 63.00, Total length 141.00, Height/B+ 13.00, Terminal 50 M4, Coil bolt M8, Coil bolt 2 8.00, No./mount. holes 3, No./terminals 4, Bracket type Bracket, Fork lever w/o  
Alternative no.: 130476



### 335503 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1691, 2339305185

Servicing: 0001115098, 0001115099

12 Volt, B+ M8, ID/cover 46.00, ID/eye 4.60, OD 52.35, Length 56.75, Total length 136.65, Height/B+ 18.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 8.20, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335504 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331303068, 0331303110, 1986SE1572, 1986SE1667

12 Volt, B+ M8, ID/eye 4.60, OD 56.50, OD/cover 49.75, Length 63.00, Total length 136.70, Height/B+ 13.90, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.30, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o  
Alternative no.: 131793





### 335514 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1680, 2339304068

12 Volt, B+ M8, ID/eye 4.60, OD 52.30, OD/cover 45.55, Length 54.75, Total length 124.50, Height/B+ 13.75, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.10, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o

Alternative no.: 139075



### 335527 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1748, 2339303283

12 Volt, B+ M8, ID/eye 4.65, OD 56.40, OD/cover 49.90, Length 63.00, Total length 134.75, Height/B+ 14.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 3, No./terminals 4, Bracket type Bracket, Fork lever w/o

Alternative no.: 130475



### 335533 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339402350

12 Volt, B+ M10, OD 61.60, OD/cover 54.00, Length 83.00, Total length 172.00, Height/B+ 20.00, Terminal 50 M5, Coil bolt M10, Coil bolt 2 20.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 335535 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE1667, 2339303445

Servicing: 0001218774, 0001218816  
12 Volt, B+ M8, ID/eye 4.60, OD 56.50, OD/cover 50.00, Length 62.70, Total length 141.00, Height/B+ 14.60, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o

Alternative no.: 131793



### 335540 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339304016

12 Volt, B+ M8, ID/eye 4.60, OD 52.50, OD/cover 45.50, Length 58.50, Total length 129.00, Height/B+ 138.0, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 335552 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339305080

Servicing: 0001107427, 0001107428, 0001107446, 0001107447  
12 Volt, B+ M8, ID/eye 4.60, OD 52.50, OD/cover 46.00, Length 56.80, Total length 144.50, Height/B+ 18.00, Coil bolt M8, Coil bolt 2 8.60, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 335557 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339303269

Servicing: 0001109011

12 Volt, B+ M8, ID/eye 4.60, OD 56.40, OD/cover 50.00, Length 63.00, Total length 137.00, Height/B+ 13.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 335585 Solenoid

Replacing: 2339305202

Servicing: 0001136002, 0001136003, 0001136005, 0001136006, 0001136007, 0001136008

12 Volt, B+ M8, ID/eye 4.50, OD 52.50, OD/cover 45.25, Total length 137.00, Terminal 50 M8, Coil bolt M8, Coil bolt 2 8.50, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 335592 Solenoid

Replacing: 2339305520

Servicing: 0001139065

12 Volt, B+ M8, ID/eye 10.60, OD 52.50, OD/cover 45.65, Total length 135.50, Height/B+ 20.00, Terminal 30H M8, Terminal 30H/width 9.50, Terminal 50 M6, No./mount. holes 3, No./terminals 3



### 335654 5★ Solenoid

Manufacturer: Bosch

Replacing: F000SH0127, F00ASH0127, F042011150

Servicing: F000AL0309, F000AL0310

12 Volt, B+ M8, ID/eye 4.60, OD 56.30, OD/cover 49.60, Length 59.20, Total length 143.50, Height/B+ 23.50, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.25, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o





**335693** Solenoid  
 Replacing: 2339402154  
 Servicing: 0001230013  
 12 Volt, B+ M10, OD 61.50,  
 Total length 110.00, Height/B+ 19.00,  
 Terminal 30H M10, Terminal 50 M4,  
 No./mount. holes 3, No./terminals 3,  
 Fork lever w/o

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**335731** Solenoid  
 Replacing: 2339305298  
 Servicing: 0001170610  
 12 Volt, B+ M8, OD 52.30,  
 Terminal 30H M8, Terminal 50 M6,  
 No./mount. holes 3, No./terminals 3

**NEW PRODUCT**  
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**335758** Solenoid  
 Replacing: 2339303355, 2339303387,  
 2339303422  
 Servicing: 0001123002, 0001123003,  
 0001125600, 0001125601



**335803** Solenoid  
 Replacing: 2339305030  
 12 Volt, B+ M8, ID/eye 4.60, OD 52.50,  
 Total length 131.00, Height/B+ 17.00,  
 Terminal 30H M8, Terminal 30H/width 14.00,  
 Terminal 50 M6, No./mount. holes 3,  
 No./terminals 3, Fork lever w/o



**335807** Solenoid  
 Replacing: 2339305311  
 Servicing: 0001139075  
 12 Volt, B+ M8, OD 52.50,  
 Total length 90.00, Terminal 30H M8,  
 No./mount. holes 3, No./terminals 3

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**335811** Solenoid  
 Replacing: 2339304033, 2339304054  
 Servicing: 0001106024, 0001106022,  
 0001106023, 0001106028  
 12 Volt, B+ M8, ID/eye 4.60, OD 52.50,  
 Total length 88.00, Height/B+ 23.00,  
 Terminal 50 M5, Coil bolt M8,  
 Coil bolt 2 7.00, No./mount. holes 3,  
 No./terminals 3  
 Alternative no.: 232188

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**335812** Solenoid  
 Replacing: 1986SE1679, 2339304029,  
 2339304032, 2339304057  
 Servicing: 0001107401, 0001107402,  
 0001107413, 0001107414  
 12 Volt, B+ M8, OD 52.00,  
 Total length 80.00, No./mount. holes 3  
 Alternative no.: 233577

**NEW PRODUCT**  
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**335813** Solenoid  
 Replacing: 1986SE1665, 2339303289,  
 2339303316, 2339303405, 2339303432  
 Servicing: 0001107073, 0001107074,  
 0001109021, 0001109022  
 12 Volt, B+ M8, OD 56.67,  
 Total length 92.33, Terminal 50 6.30,  
 Coil bolt M8, No./mount. holes 3,  
 Fork lever w/o  
 Alternative no.: 233716

**NEW PRODUCT**  
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**335816** Solenoid  
 Replacing: 1986SE1683, 2339305018  
 Servicing: 0001108400, 0001108471,  
 0001109364, 0001109443  
 12 Volt, B+ M8, OD 52.64,  
 Total length 95.23, Terminal 50 M5,  
 Coil bolt M8, No./mount. holes 3,  
 No./terminals 3  
 Alternative no.: 238106

**NEW PRODUCT**  
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**335817** Solenoid  
 Replacing: 2339303322  
 Servicing: 0001108186, 0001108185  
 12 Volt, B+ M8, ID/eye 4.60, OD 56.50,  
 Total length 96.00, Height/B+ 20.00,  
 Terminal 50 M5, Coil bolt M8,  
 Coil bolt 2 9.00, No./mount. holes 3,  
 No./terminals 3  
 Alternative no.: 234434

**NEW PRODUCT**  
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**335819** Solenoid  
 Replacing: 1986SE1660, 2339303267  
 Servicing: 0001115005, 0001107102, 0001108197,  
 0001108205, 0001108250, 0001115119, F000AL0319  
 12 Volt, B+ M8, OD 56.50,  
 Total length 91.89, Terminal 50 M6,  
 Coil bolt M8, No./mount. holes 3,  
 No./terminals 3, Fork lever w/o  
 Alternative no.: 230635

**NEW PRODUCT**  
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**335820** Solenoid  
 Replacing: 0331303170, 0331303670,  
 1986SE1676, 2339304022  
 Servicing: 0001116005, 0001109061, 0001113006  
 12 Volt, B+ M8, ID/eye 4.60, OD 52.50,  
 Total length 86.00, Height/B+ 14.00,  
 Terminal 50 M6, Coil bolt M8,  
 Coil bolt 2 8.00, No./mount. holes 3,  
 No./terminals 3  
 Alternative no.: 230258



## NEW PRODUCT

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### 335832 Solenoid

Replacing: 2339305227

Servicing: 0001170400, 0001170401, 0001170402, 0001170403, 0001170406, 0001170407, 0001172400, 0001170410

12 Volt, B+ M8, OD 52.50, Total length 83.00, Terminal 50 M6, Coil bolt M8, No./mount. holes 3, No./terminals 3

## NEW PRODUCT

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### 335835 Solenoid

Replacing: 2339305254

Servicing: 0001138057, 0001138059, 0001138060, 0001138058, 0001147424, 0001147425, 0001170206, 0001170612

12 Volt, B+ M8, OD 56.50, Total length 88.00, Terminal 50 4.80, Coil bolt M8, No./mount. holes 3, No./terminals 3

## NEW PRODUCT


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### 335867 Solenoid

Replacing: 2339303428

Servicing: 0001110122, 0001110126, 0001110127, 0001110128, 0001110129, 0001110136, 0001110137, 0001110138

12 Volt, B+ M8, ID/eye 4.55, OD 56.50, OD/cover 49.80, Length 63.00, Total length 92.00, Height/B+ 24.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.30, No./mount. holes 3, No./terminals 3

Alternative no.: 336459 

## NEW PRODUCT

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### 335898 Solenoid

Replacing: 2339305130

Servicing: 0001138017, 0001138018, 0001138051, 0001138055, 0001138056

12 Volt, B+ M8, ID/eye 4.50, OD 52.50, OD/cover 45.60, Total length 138.00, Height/B+ 17.80, Coil bolt 12.50, No./mount. holes 3, No./terminals 3

## NEW PRODUCT


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### 336353 Solenoid

Replacing: 19865E1686, 2339305051, 2339305226

Servicing: 0001115088

12 Volt, B+ M8, ID/eye 4.60, OD 52.50, OD/cover 50.50, Length 57.00, Switch dim. 6.20, Height/B+ 17.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 8.50, No./mount. holes 3, No./terminals 3

Alternative no.: 333243 



### 336459 Solenoid

Manufacturer: Bosch

Replacing: 2339303428

Servicing: 0001110122, 0001110126, 0001110127, 0001110128, 0001110129, 0001110136, 0001110137, 0001110138

12 Volt, B+ M8, ID/eye 4.60, OD 56.50, OD/cover 49.75, Length 63.00, Total length 146.00, Height/B+ 18.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.60, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o

Alternative no.: 335867



### 336799 Solenoid

Manufacturer: Bosch

Replacing: 19865E1786, 2339305135

Servicing: 0001109306, 0001109307, 0001109371, 0001109375, 0001109376, 0001109462

12 Volt, B+ M8, ID/eye 4.60, OD 52.40, OD/cover 45.70, Length 60.50, Total length 145.50, Height/B+ 18.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 8.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 336834 Solenoid

Replacing: 2339305245

Servicing: 0001139066, 0001139071, 0001139072, 0001139085, 0001139086

12 Volt, B+ M8, ID/eye 5.00, OD 52.50, OD/cover 45.70, Total length 135.75, Terminal 50 M6, No./mount. holes 3, No./terminals 3

24 V



### 130282 Solenoid

Replacing: 0331100002, 0331100011, 0331100012, 0331101002, 0331101004, 0331101019, 9339991018

Servicing: 0001402031, 0001402043, 0001402050, 0001402053, 0001402054, 0001402055, 0001402057, 0001402058

24 Volt, B+ Cable, OD 69.30, Total length 91.20, No./mount. holes 2, Fork lever w/o




### 130283 Solenoid

Replacing: 0331101005, 0331101009, 2339101051

Servicing: 0001410019, 0001410022, 0001410037, 0001410038, 0001410049, 0001410050, 0001410068

24 Volt, B+ Cable, OD 85.50, Total length 93.65, No./mount. holes 4, Fork lever w/o  
Insulated return.

Alternative no.: 333162 





### 130303 Solenoid

**Replacing:** 0331402010, 0331402201, 0331402510, 2339402120, 2339402161

**Servicing:** 0001231003, 0001360022, 0001360037, 0001360052, 0001360056, 0001360065, 0001368024, 0001368028

24 Volt, B+ M10, ID/cover 30.00, ID/eye 5.60, OD 60.90, OD/cover 53.35, Length 82.70, Total length 173.00, Height/B+ 23.95, Terminal 30H M10, Terminal 30H/width 16.75, Terminal 50 M6S, Coil bolt M10, Coil bolt 2 18.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/

Cap: HC-CARGO 133447.

Alternative no.: 130303Z, 333138, 333664



### 130303Z Solenoid

**Replacing:** 0331402010, 0331402201, 0331402510, 2339402120, 2339402161

24 Volt, B+ M10, ID/cover 30.00, OD 60.90, OD/cover 53.35, Total length 173.00, Height/B+ 23.95, Terminal 30H M10, Terminal 30H/width 16.75, Terminal 50 M6S, Coil bolt M10, Coil bolt 2 18.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Cap: HC-CARGO 133447.

Alternative no.: 130303



### 130304 Solenoid

**Replacing:** 0330105001, 0331450001, 0331450004, 0331450005, 2007022001, 2339450012, 2339450014

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410021, 0001410024, 0001410029, 0001410032, 0001410034

24 Volt, B+ Cable, OD 95.25, Total length 93.30, No./mount. holes 2, Fork lever w/o

Alternative no.: 333155



### 130305 Solenoid

**Replacing:** 0331450002, 2339450013, 2339450021

**Servicing:** 0001410019, 0001410022, 0001410024, 0001410037, 0001410038, 0001410049, 0001410050, 0001410068

24 Volt, B+ Cable, OD 94.00, Total length 111.30, No./mount. holes 2, Fork lever w/o  
Insulated return.

Alternative no.: 333159



### 130477 Solenoid

**Replacing:** 0331400024, 0331401002, 0331402081

**Servicing:** 0001360003, 0001360004, 0001360005, 0001360010, 0001360012, 0001360013, 0001360014, 0001360015

24 Volt, B+ M10, ID/cover 30.00, OD 60.80, OD/cover 53.25, Length 87.70, Total length 177.30, Height/B+ 24.60, Coil bolt M10, Coil bolt 2 17.40, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 131318.



### 130939 Solenoid

**Replacing:** 0331402051, 0331402053, 0331402057, 0331402206, 0331402706, 2339402172

**Servicing:** 0001360002, 0001360007, 0001360008, 0001360009, 0001360010, 0001360026, 0001360035, 0001360038

24 Volt, 4.0 kW, B+ M10, ID/cover 29.90, OD 60.80, OD/cover 53.15, Length 82.00, Total length 165.60, Height/B+ 23.90, Terminal 50 M4, Coil bolt M10, Coil bolt 2 17.00, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 131318.



### 131053 Solenoid

**Replacing:** 0331402005, 0331402044, 0331402208, 0331402505, 0331402708, 9330081042, 9330142004, 9330142504

**Servicing:** 0001360023, 0001360036, 0001360040, 0001360049, 0001364103, 0001364108, 0001368018

24 Volt, B+ M10, ID/cover 30.00, OD 60.90, OD/cover 53.15, Length 93.45, Total length 182.30, Height/B+ 23.30, Coil bolt M10, Coil bolt 2 16.30, No./mount. holes 3, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 131318. Rubber boot: HC-CARGO 135576.

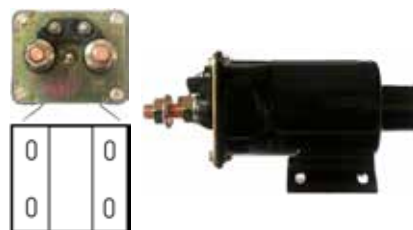


### 131349 Solenoid

**Replacing:** 1987AN0107

**Servicing:** 42MT, 0001108061

24 Volt, B+ 1/2" UNC, OD 69.45, OD/cover 77.00, Total length 159.55, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, No./mount. holes 3, No./terminals 4  
Insulated return. Cap: HC-CARGO 135323.  
Solenoid w/ plunger: HC-CARGO 233873.  
Alternative no.: 233873



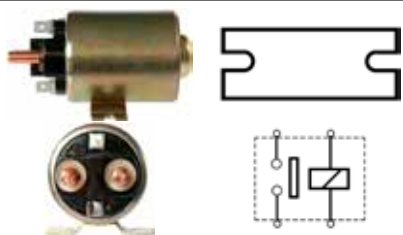
### 131364 Solenoid

**Replacing:** 1987AN0105, 1987AN0106

**Servicing:** 40MT, 50MT

24 Volt, B+ 1/2" UNC, ID/cover 31.00, OD 74.40, Total length 201.75, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, No./terminals 4  
Insulated return. Cap: HC-CARGO 131368.





### 131371 Solenoid

Replacing: 0333006002, 0333006006, 1986SE3742

Servicing: 0333006006

24 Volt, 80 Amp, Intermittent load 500 Amp.,  
B+ M8, OD 51.70, OD/cover 43.45,  
Total length 99.60, Height/B+ 17.35,  
Coil bolt M8, Coil bolt 2 17.35,  
Seconds 5, No./mount. holes 2,  
No./terminals 4  
Silver contact. Insulated return.



### 131372Z Solenoid

Replacing: 0333009002, 0333009013, 1986SE3743

24 Volt, 150 Amp, Intermittent load 800 Amp.,  
B+ M8, OD 45.00, OD/cover 54.80,  
Total length 98.70, Height/B+ 15.00,  
Terminal 50 6.30, Coil bolt M8,  
Seconds 5, No./terminals 4

Alternative no.: 333152 ★



### 132254 Solenoid

Replacing: 0331402031, 0331402036, 0331402531, 9330081045

Servicing: 0001360027, 0001368016, 0001368019, 0001368020, 0001368021, 0001368037, 0001368038, 0001368056

24 Volt, B+ M10, ID/cover 29.80,  
OD 61.00, OD/cover 53.35, Length 82.45,  
Total length 161.85, Height/B+ 21.90,  
Terminal 50 4.70, Coil bolt M10,  
Coil bolt 2 15.75, No./mount. holes 3,  
No./terminals 3, Fork lever w/  
Cap: HC-CARGO 131318.

Alternative no.: 333151



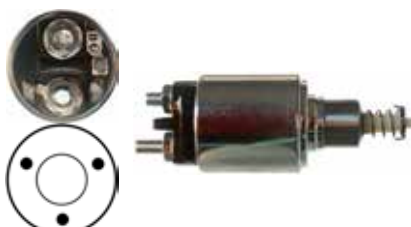
### 132294 Solenoid

Replacing: 0331402012, 0331402207, 0331402707

Servicing: 0001360039, 0001360044, 0001360048, 0001360054, 0001360057, 0001368003, 0001368008

24 Volt, B+ M10, ID/cover 30.00, OD 60.75,  
OD/cover 53.45, Length 82.35,  
Total length 148.00, Height/B+ 24.00,  
Terminal 50 M4, Coil bolt M10,  
Coil bolt 2 17.15, No./mount. holes 3,  
No./terminals 4, Fork lever w/  
Insulated return. Cap: HC-CARGO 132677.

Alternative no.: 335508 ★



### 132361 Solenoid

Replacing: 0331402015, 0331402037, 0331402515, 0331402521, 0331402537

Servicing: 0001360012, 0001360014, 0001360016, 0001360024, 0001360035, 0001360041

24 Volt, B+ M10, ID/cover 30.10,  
OD 60.90, OD/cover 53.00, Length 82.40,  
Total length 171.65, Height/B+ 24.60,  
Coil bolt M10, Coil bolt 2 16.35,  
No./mount. holes 3, No./terminals 3,  
Fork lever w/  
Cap: HC-CARGO 131317.

Alternative no.: 333167 ★



### 132362 Solenoid

Replacing: 0331402021, 0331402055

Servicing: 0001364102, 0001364200, 0001364203, 0001364206, 0001364300

24 Volt, B+ M10, ID/cover 30.00,  
OD 60.85, OD/cover 53.25, Length 92.70,  
Total length 175.90, Height/B+ 23.35,  
Coil bolt M10, Coil bolt 2 17.10,  
No./mount. holes 3, No./terminals 3,  
Fork lever w/  
Cap: HC-CARGO 131317.



### 132363 Solenoid

Replacing: 0331402008, 0331402054, 0331402171, 0331402177, 0331402508

Servicing: 0001363111, 0001364100, 0001364101, 0001364104, 0001364105, 0001368057, B001816384, B001819002

24 Volt, B+ M10, ID/cover 30.00,  
OD 61.00, OD/cover 53.65, Length 92.20,  
Total length 178.00, Height/B+ 26.00,  
Coil bolt M10, Coil bolt 2 20.75,  
No./mount. holes 3, No./terminals 3,  
Fork lever w/  
Cap: HC-CARGO 131318.



### 133554 Solenoid

Replacing: 0331101006, 0331101008, 1339994709, 2339101050, 2339101518

Servicing: 0001410015, 0001410016, 0001410017, 0001410021, 0001410024, 0001410029, 0001410032, 0001410034

24 Volt, OD 69.30, Total length 91.90,  
No./mount. holes 2



### 135380 Solenoid

Replacing: 0331100023

Servicing: 0001510001, 0001510002, 0001510003, 0001510005, 0001510008, 0001510009, 0001510010, 0001510017

24 Volt, OD 72.75, Total length 94.50,  
No./mount. holes 2  
Insulated return.



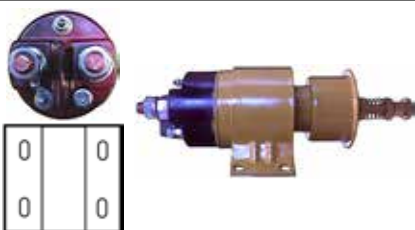
### 135381 Solenoid

Replacing: 0331451001, 0331451002

Servicing: 0001510001, 0001510002, 0001510003, 0001510005, 0001510008, 0001510009, 0001510010, 0001510017

24 Volt, Total length 95.40,  
No./mount. holes 2  
Insulated return.





### 136692 Solenoid

Replacing: 0331410002, 0331410003, 0331410005, 0331410008, 0331410010, 2007010128, 2007010131

Servicing: 0001420001, 0001420002, 0001420003

24 Volt, B+ 1/2" UNC, OD 81.80, OD/cover 75.20, Total length 277.65, Height/B+ 30.00, Terminal 15A/width 15.00, Terminal 30H M6, Terminal 30H/width 14.55, Terminal 50 M6, Coil bolt 1/2" UNC, Coil bolt 2 31.20, No./mount. holes 4, No./terminals 5



### 138257 Solenoid

Replacing: 0331303096, 0331303596, 2339303276

Servicing: 0001111001, 0001111005, 0001219001, 0001219007, 0001219010, 0001219013, 0001219014

24 Volt, B+ M8, ID/cover 27.25, ID/eye 4.80, OD 56.30, OD/cover 49.45, Length 62.80, Total length 137.50, Height/B+ 13.75, Coil bolt M8, Coil bolt 2 8.45, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 132780.



### 138311 Solenoid

Replacing: 1986SE3561, 2339403006, 2339403506, 9330451059, 9330451070, 9330451071

Servicing: 0001371004, 0001371006, 0001371008, 9000453068, B001850025

24 Volt, B+ M12, ID/cover 32.10, OD 65.90, OD/cover 57.90, Length 98.35, Total length 209.00, Height/B+ 26.90, Coil bolt M12, Coil bolt 2 26.90, No./mount. holes 4, No./terminals 3, Fork lever w/o Cap: HC-CARGO 234917.



### 139507 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339402110

Servicing: 0001368085

24 Volt, B+ M10, ID/cover 29.95, OD 61.30, OD/cover 54.00, Length 88.50, Total length 173.15, Height/B+ 25.15, Terminal 50 4.70, Coil bolt M10, Coil bolt 2 13.95, No./mount. holes 3, No./terminals 3, Fork lever w/



### 139965 Solenoid

Replacing: 1986SE3566, 2339403009, 2339403014, 2339403509

Servicing: 0001371010, 0001371013, 0001371015, 0001371016, 0001371018, 0001372002, 0001372003, 0001372007

24 Volt, B+ M12, OD 65.75, OD/cover 57.30, Total length 199.00, Height/B+ 38.00, Terminal 15A/width 2.00, Terminal 50 M6, Coil bolt M12, Coil bolt 2 26.00, No./mount. holes 4, No./terminals 4

Cap: HC-CARGO 235005.



### 139967 Solenoid

Replacing: 0331403003, 0331403004, 2339403008, 2339403010

Servicing: 0001371001, 0001371019, 0001372001, 0001372005

24 Volt, B+ M12, ID/cover 32.00, OD 66.00, OD/cover 56.30, Length 99.00, Total length 184.85, Height/B+ 33.40, Terminal 15A/width 2.70, Terminal 50 M6, Coil bolt M12, Coil bolt 2 26.80, No./mount. holes 4, No./terminals 4

Alternative no.: 335227



### 230904 Solenoid

Replacing: 2339402117, 2339402156, 2339402180

Servicing: 0001231002, 0001231032, B001260015

24 Volt, B+ M10, OD 61.60, Length 82.50, Total length 148.50, Height/B+ 17.50, Terminal 15A/width 17.50, Terminal 50 M6, Coil bolt M10, Coil bolt 2 12.00, No./mount. holes 3, No./terminals 4, Fork lever w/o Cap: HC-CARGO 230278.



### 231711 Solenoid

Replacing: 2339402116, 2339402139, 2339402160, 2339402167, 2339402189, 2339402190

Servicing: 0001231001, 0001231007, 0001231008, 0001231009, 0001231010, 0001231011, 0001231017

24 Volt, B+ 20.60, ID/cover 3.50, OD 62.00, OD/cover 58.80, Total length 153.00, Height/B+ 20.60, Terminal 50 M10/16.40, No./mount. holes 3, No./terminals 3, Bracket type Crimp Cap: HC-CARGO 232195.



### 231800 Solenoid

Replacing: 1987BE2003

Servicing: 28MT,

24 Volt, B+ M10, OD 58.00, OD/cover 59.35, Total length 194.00, Height/B+ 28.00, Terminal 15A/width 10.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 14.00, No./mount. holes 2, No./terminals 4, Fork lever w/o Relay terminal: M5.





### 233583 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339402124, 2339402165

Servicing: 0001231013, 0001368313

24 Volt, B+ M10, ID/cover 30.00,  
OD 61.45, OD/cover 54.00, Length 82.75,  
Total length 172.50, Height/B+ 25.65,  
Terminal 50 M6, Coil bolt M10,  
Coil bolt 2 14.65, No./mount. holes 3,  
No./terminals 3, Fork lever w/



### 233584 5★ Solenoid

Manufacturer: Bosch

Replacing: 1986SE3562, 2339403007

Servicing: 0001371005, 0001371007,  
0001371009, 0001371012

24 Volt, B+ M12, ID/cover 32.25,  
OD 66.00, OD/cover 57.25, Length 100.20,  
Total length 209.75, Height/B+ 25.20,  
Terminal 15A/width 3.55,  
Terminal 50 6.30, Coil bolt M12,  
Coil bolt 2 24.70, No./mount. holes 4,  
No./terminals 4  
Insulated return.

Alternative no.: 335903



### 233734 Solenoid

Replacing: 0331402007, 0331402094,  
0331402507

Servicing: 0001360002, 0001360007,  
0001360008, 0001360009

24 Volt, B+ M10, ID/cover 30.00,  
OD 61.00, OD/cover 53.15, Length 81.85,  
Total length 165.55, Height/B+ 24.00,  
Terminal 50 M6, Coil bolt M10,  
Coil bolt 2 17.45, No./mount. holes 3,  
No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133447.



### 233852 Solenoid

Replacing: 2339402136, 2339402157

Servicing: 0001231004, 0001231012,  
0001231014

24 Volt, B+ M10, ID/cover 46.00,  
OD 61.60, OD/cover 59.00, Length 83.00,  
Total length 153.30, Height/B+ 16.80,  
Terminal 50 M6, Coil bolt M10,  
Coil bolt 2 11.70, No./mount. holes 3,  
No./terminals 3, Bracket type Crimp,  
Fork lever w/o  
Cap: HC-CARGO 232195.

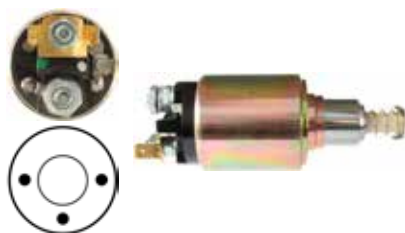


### 234129 Solenoid

Replacing: 2339402155, 2339402173,  
2339402185

Servicing: 0001231016, 0001231046,  
0001231146

24 Volt, B+ M10, ID/cover 29.95,  
OD 61.40, OD/cover 55.85, Length 82.85,  
Total length 180.00, Height/B+ 34.70,  
Terminal 15A/width 3.55,  
Terminal 50 M6, Coil bolt M10,  
Coil bolt 2 15.70, No./mount. holes 3,  
No./terminals 4, Fork lever w/



### 234841 Solenoid

Replacing: 0331402026

Servicing: 0001360055, 0001368026,  
0001368027, 0001368051, B001816076,  
B001816080, B001816338

24 Volt, B+ M8, ID/cover 30.00,  
OD 61.00, OD/cover 53.25, Length 82.40,  
Total length 168.00, Height/B+ 21.60,  
Terminal 50 6.30, Coil bolt M10,  
Coil bolt 2 18.75, No./mount. holes 3,  
No./terminals 3, Fork lever w/



### 235275 Solenoid

Replacing: 0331303054

Servicing: 0001219007, 0001219010,  
0001219013, 0001219014, 0001219015,  
0001316005, 9000332401, B001328011

24 Volt, No./terminals 4  
Insulated return.



### 235807 Solenoid

Replacing: 2339402133, 2339402168

Servicing: 0001231005

24 Volt, B+ 18.55, ID/eye 6.00,  
OD 61.75, OD/cover 53.80, Length 83.00,  
Total length 170.00, Height/B+ M10,  
Terminal 50 M4, Coil bolt M10,  
Coil bolt 2 16.00, No./mount. holes 3,  
No./terminals 3, Fork lever w/o

Alternative no.: 333541 5★



### 237753 Solenoid

Replacing: 2339402220, 2339402230

Servicing: 0001241016, 0001241119,  
0001261001, 0001261002, 0001261016,  
0001261022, 0399504011, F002G20786

24 Volt, B+ M10, OD 61.50,  
Length 102.40, Total length 129.50,  
Height/B+ 27.70,  
Terminal 15A/width 45.00,  
Terminal 50 M6, No./mount. holes 3,  
No./terminals 4

Alternative no.: 333478 5★





### 238847 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339402187

Servicing: 0001231033, 0001231133

24 Volt, B+ M10, OD 61.55,  
OD/cover 59.19, Length 82.97,  
Total length 172.30,  
Switch dim. 2.74, Height/B+ 19.45,  
Terminal 50 M6, Coil bolt M10,  
Coil bolt 2 8.78, No./mount. holes 3,  
No./terminals 3, Fork lever w/o

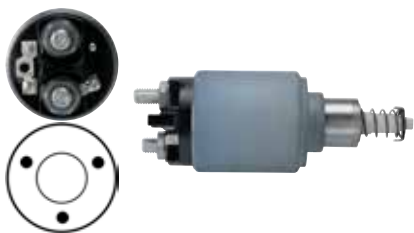


### 239102 Solenoid

Replacing: 2339402221, 2339402235

Servicing: 0001241001, 0001241003,  
0001241007, 0001241014, 0001241019,  
0001330008

24 Volt, B+ M10, ID/eye 5.40, OD 61.50,  
OD/cover 53.90, Length 103.30,  
Total length 200.00, Height/B+ 31.00,  
Terminal 15A/width 16.50, Terminal 50 M6,  
Coil bolt M10, Coil bolt 2 19.90,  
No./mount. holes 3, No./terminals 4,  
Bracket type Crimp, Fork lever w/o  
Terminal 15a is a dummy. Only to be used  
with a safety switch.



### 333138 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331402010, 0331402201,  
0331402510, 2339402120, 2339402161

Servicing: 0001360022, 0001360052,  
0001360065, 0001362027, 0001366014,  
0001368035, 0001368300, 0001368309

24 Volt, B+ M10, ID/cover 30.00,  
ID/eye 5.60, OD 60.90, OD/cover 53.35,  
Length 82.70, Total length 173.00,  
Height/B+ 23.95, Terminal 30H M10,  
Terminal 30H/width 16.75, Terminal 50 M6S,  
Coil bolt M10, Coil bolt 2 18.00,  
No./mount. holes 3, No./terminals 3,  
Bracket type Bracket, Fork lever w/  
Cap: HC-CARGO 133447.  
Alternative no.: 130303, 333664



### 333152 5★ Solenoid

Manufacturer: Bosch

Replacing: 0333006012, 0333009002,  
0333009013, 1986SE3743

24 Volt, 150 Amp, Intermittent load 800 Amp.,  
B+ M8, OD 51.50, OD/cover 43.55,  
Total length 100.55, Height/B+ 17.85,  
Coil bolt M8, Coil bolt 2 17.85,  
Seconds 5, No./mount. holes 2,  
No./terminals 4  
Silver contact. Insulated return.  
Alternative no.: 131372Z



### 333155 5★ Solenoid

Manufacturer: Bosch

Replacing: 0330105001, 0331450001,  
0331450004, 0331450005, 2007022001,  
2339450012, 2339450020

Servicing: 0001410015, 0001410016,  
0001410017, 0001410022, 0001410024,  
0001410034, 0001410041, 0001410045  
24 Volt, B+ Cable, OD 95.25,  
Total length 93.30, No./mount. holes 2  
Alternative no.: 130304



### 333159 Solenoid

Replacing: 0331450002, 2339450013

Servicing: 0001410098, 0001411005,  
0001411021, 0001417061, 0001417076

24 Volt, B+ Cable, OD 94.00,  
Total length 111.30, No./mount. holes 2,  
Fork lever w/o  
Insulated return.  
Alternative no.: 130305



### 333162 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331100009, 0331100019,  
0331100021, 0331100025, 0331101005,  
0331101009, 0331101016, 2339101051

Servicing: 0001410024, 0001410037,  
0001410068, 0001410088, 0001411009,  
0001411013, 0001414011, 0001416028

24 Volt, B+ Cable, OD 85.50,  
Total length 93.65, No./mount. holes 4  
Insulated return.  
Alternative no.: 130283



### 333167 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331402015, 0331402037,  
0331402515, 0331402521, 0331402537

Servicing: 0001368020

24 Volt, B+ M10, ID/cover 30.10,  
OD 61.20, OD/cover 53.00, Length 82.40,  
Total length 171.65, Height/B+ 24.60,  
Coil bolt M10, Coil bolt 2 16.35,  
No./mount. holes 3, No./terminals 3,  
Fork lever w/  
Cap: HC-CARGO 131317.  
Alternative no.: 132361



### 333391 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339402302, 2339402362

Servicing: 0001261003, 0001261004,  
0001261005, 0001261006, 0001261025,  
0001261026, 0001261027, 0001261028

24 Volt, B+ M10, OD 61.60,  
OD/cover 53.75, Length 102.80,  
Total length 200.30, No./mount. holes 3,  
No./terminals 4, Bracket type Crimp,  
Fork lever w/o





### 333392 Solenoid

Replacing: 2339402311, 2339402368

Servicing: 0001261007, 0001261008, 0001261012, 0001261013, 0001261023, 0001261041, 0001261044, 0001261045

24 Volt, B+ M10, ID/eye 6.20, OD 61.70, OD/cover 53.35, Length 102.60, Total length 180.90, Height/B+ 29.00, Terminal 50 M6, Coil bolt M10, No./mount. holes 3, No./terminals 4, Bracket type Crimp, Fork lever w/o



### 333394 Solenoid

Replacing: 2339402193

Servicing: 0001231036

24 Volt, B+ M10, ID/eye 5.75, OD 61.50, OD/cover 53.85, Length 93.85, Total length 191.00, Terminal 50 M6, Coil bolt M10, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



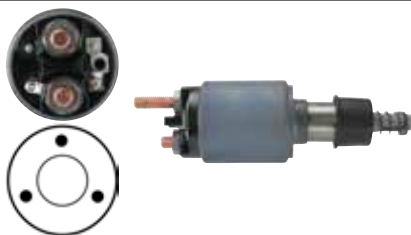
### 333478 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339402220, 2339402230

Servicing: 0001241001, 0001241014

24 Volt, B+ M10, ID/eye 6.10, OD 61.50, OD/cover 54.00, Length 103.00, Total length 181.50, Height/B+ 30.70, Terminal 50 M5, No./mount. holes 3, No./terminals 4, Bracket type Crimp  
Alternative no.: 237753



### 333486 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339402186

Servicing: 0001231034, 0001231035

24 Volt, B+ M8, ID/eye 5.70, OD 61.50, OD/cover 54.00, Length 93.20, Total length 118.20, Switch dim. 19.60, Height/B+ 30.00, Terminal 50 M6, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o

Alternative no.: 333617



### 333530 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339402222

Servicing: 0001241005, 0001241009, 0001241021, 0001330005

24 Volt, B+ M10, ID/eye 6.10, OD 61.50, OD/cover 53.50, Length 102.80, Total length 119.20, Switch dim. 7.80, Height/B+ 36.90, Terminal 50 M6, Coil bolt M10, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 333531 5★ Solenoid

Manufacturer: Bosch

Replacing: 0333009011, 1986SE3747

24 Volt, 150 Amp, B+ M8, OD 50.00, Total length 100.00, Height/B+ 15.00, Terminal 15A/width 60.00, Terminal 50 6.30, No./mount. holes 2, No./terminals 4



### 333541 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339402133, 2339402168

24 Volt, B+ M10, ID/eye 6.00, OD 61.55, OD/cover 53.80, Length 82.70, Total length 170.00, Terminal 50 M4, No./mount. holes 3, No./terminals 3, Bracket type Crimp  
Alternative no.: 235807



### 333617 Solenoid

Replacing: 2339402186

24 Volt, B+ M10, OD 61.50, OD/cover 54.00, Total length 192.00, Height/B+ 30.00, Terminal 50 M6, Coil bolt M10, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o

Alternative no.: 333486 5★



### 333664 Solenoid

Replacing: 0331402010, 0331402201, 0331402510, 2339402120, 2339402161

24 Volt, B+ M10, ID/eye 5.50, OD 60.00, OD/cover 53.30, Length 83.00, Total length 173.00, Height/B+ 18.40, Terminal 50 M6, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o

Alternative no.: 130303, 130303Z, 333138





### 333765

Solenoid

Replacing: 2339402261

Servicing: 0001241128, 0001330050

24 Volt, B+ M12, ID/eye 5.65, OD 61.50, OD/cover 53.80, Length 103.00, Total length 201.50, Height/B+ 29.85, Terminal 50 M6, Coil bolt M10, Coil bolt 2 9.50, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333845

Solenoid

Replacing: 1987BE2017

24 Volt, B+ M10, ID/eye 7.90, OD 58.00, OD/cover 59.00, Total length 197.90, Terminal 50 M5, Coil bolt M8, No./mount. holes 2, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 333977

Solenoid

Replacing: 2339402174

Servicing: 0001231026, 0001231027

24 Volt, B+ M10, ID/eye 5.70, OD 61.50, OD/cover 53.85, Length 83.5, Total length 171.50, Height/B+ 20.00, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 20.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335053

Solenoid

Replacing: 0339D55002, 0399D55002

Servicing: 0001241008, 0001261018, 0001261032, 0001261034, 0001261037, 0001261050

24 Volt, B+ M10, ID/eye 6.00, OD 61.50, OD/cover 53.50, Length 103.00, Total length 199.00, Height/B+ 19.05, Terminal 50 M6, Coil bolt M10, No./mount. holes 3, No./terminals 4, Bracket type Crimp, Fork lever w/o



### 335069

Solenoid

Replacing: 2339402225, 2339402233

Servicing: 0001241015

24 Volt, 5.5 kW, B+ M10, ID/eye 6.00, OD 61.65, OD/cover 53.25, Length 103.00, Total length 208.30, Height/B+ 28.34, Terminal 50 M6, Coil bolt M10, Coil bolt 2 17.75, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335203

Solenoid

Replacing: 2339402309

Servicing: 0001263003, 0001263004

24 Volt, B+ M10, OD 121.00, OD/cover 53.50, Terminal 50 M6, Coil bolt M10, Coil bolt 2 19.00, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 335209

Solenoid

Replacing: 2339402314, 2339402378

Servicing: 0001223506, 0001230015, 0001230016, 0001230024, 0001230028, 0001230029, 0001231005, 0001231008

24 Volt, B+ M10, OD 61.50, OD/cover 53.50, Total length 110.00, Height/B+ 20.00, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 14.00, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 335214

Solenoid

Replacing: 2339402307

Servicing: 0001263023, 0001263024

24 Volt, B+ M10, OD 61.50, OD/cover 53.50, Length 83.30, Total length 120.00, Terminal 50 M6, Coil bolt M10, Coil bolt 2 20.00, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 335227

Solenoid

Replacing: 0331403003, 0331403004, 2339403008, 2339403010

Servicing: 0001372001, 0001372005, 0001372006

24 Volt, B+ M12, ID/cover 32.00, OD 66.00, OD/cover 56.30, Length 99.00, Total length 184.85, Height/B+ 33.40, Terminal 15A/width 2.70, Terminal 50 M6, Coil bolt M12, Coil bolt 2 26.80, No./mount. holes 4  
Alternative no.: 139967





### 335376 Solenoid

Replacing: 0331402046

Servicing: 0001363120, B001813239

24 Volt, B+ M10, OD 61.50, OD/cover 53.75, Total length 180.00, Height/B+ 18.00, Terminal 50 M4, Coil bolt M10, Coil bolt 2 10.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335391 Solenoid

Replacing: 2339402255

Servicing: 0001330057

24 Volt, OD 61.00, Total length 119.20, Terminal 30H M12, Terminal 50 M6, No./mount. holes 3



### 335508 5★ Solenoid

Manufacturer: Bosch

Replacing: 0331402207

24 Volt, B+ M10, Coil bolt M10, No./mount. holes 3, No./terminals 4, Fork lever w/ Alternative no.: 132294



### 335548 5★ Solenoid

Manufacturer: Bosch

Replacing: 2339303859

Servicing: 0001219112, 0001219012

24 Volt, B+ M8, ID/eye 4.60, OD 56.50, OD/cover 50.20, Length 65.50, Total length 145.75, Height/B+ 20.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o

## NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)

### 335597 Solenoid

Replacing: 2339402182

Servicing: 0001231029, 0001231030, 0001231045

24 Volt, B+ M10, OD 61.00, Total length 109.00, Height/B+ 26.00, Terminal 50 M4, Coil bolt M10, Coil bolt 2 21.00, No./mount. holes 3, No./terminals 3

## NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)

### 335903 Solenoid

Replacing: 1986E3562, 1986SE3562, 2339403007

Servicing: 0001371005, 0001371007, 0001371009, 0001371012

24 Volt, B+ M12, OD 66.00, Total length 123.00, Height/B+ 18.20, Terminal 50 M6, Coil bolt M12, Coil bolt 2 17.00, No./mount. holes 4

Alternative no.: 233584 5★

## Safety Switches

### 24 V



### 230386 Safety Switch

Replacing: 1337210726, 1337210728

Servicing: 0001371010, 0001371013, 0001371015, 0001371016, 0001371018, 0001371019, 0001372001, 0001372002

24 Volt, OD 33.65, OD/cover 31.45, Total length 51.80, No./mount. holes 2

Alternative no.: 333281 5★



### 231267 Safety Switch

Replacing: 1337210725, 6033AD0086, 6033AD0440

Servicing: 0001231002, 0001231016, 0001231032, 0001231046, 0001231146, B001260015

24 Volt, OD 33.75, Total length 46.70, No./mount. holes 2, No./wires 3

Alternative no.: 333282 5★



### 238849 5★ Safety switch

Manufacturer: Bosch

Replacing: 1337210812, 1337210855, 6033AD3215, 6033AD3216

Servicing: 0001231033, 0001263016, 0001263049, 0001263050, 0001231133, 0001330047

24 Volt, 4.0 kW, OD 33.00, Total length 65.15, No./mount. holes 2, No./terminals 4, Bracket type Bracket



### 239094 5★ Safety Switch

Manufacturer: Bosch

Replacing: 1337210743, 1337210776, 1337210790, 1337210791, 6033AD5138, 6033AD5139, 6033AD5206, 6033AD5255

Servicing: 0001241001, 0001241003, 0001241007, 0001241014, 0001241019, 0001241119, 0001261001, 0001261002

24 Volt, OD 33.00, Total length 65.00, No./mount. holes 2, No./terminals 4, Bracket type Bracket

Alternative no.: 333830





**331586** Safety switch  
 Manufacturer: Bosch  
 Replacing: 1337210731  
 Servicing: 0001372005  
 24 Volt, 6.2 kW, OD 33.80,  
 OD/cover 31.50, Total length 52.50,  
 No./mount. holes 2, No./terminals 2,  
 Bracket type Crimp



**333281** Safety switch  
 Manufacturer: Bosch  
 Replacing: 1337210726, 1337210728  
 Servicing: 0001372002, 0001372003,  
 0001372007, 0001372008, B001860021,  
 B001860023  
 24 Volt, OD 33.65, OD/cover 31.45,  
 Total length 51.80, No./mount. holes 2  
 Alternative no.: 230386



**333282** Safety switch  
 Manufacturer: Bosch  
 Replacing: 6033AD0086, 6033AD0440  
 24 Volt, OD 33.75, Total length 52.00,  
 No./mount. holes 2  
 Alternative no.: 231267



**333343** Safety Switch  
 Replacing: 6033AD4139  
 Servicing: 0001231034, 0001231035  
 24 Volt, OD 33.30, OD/cover 36.30,  
 Total length 75.60, No./mount. holes 2,  
 No./terminals 3, Bracket type Bracket



**333624** Safety Switch  
 Replacing: 0333006025, 6033AD6084  
 24 Volt, OD 33.00, OD/cover 36.20,  
 Total length 65.00, No./mount. holes 2,  
 No./terminals 4, Bracket type Bracket



**333794** Safety Switch  
 Replacing: 6033AD5190  
 Servicing: 0001241005, 0001241006  
 24 Volt, B+ Ø10.50, OD 32.80,  
 OD/cover 36.00, Total length 74.00,  
 Switch dim. M/A, No./mount. holes 2,  
 No./terminals 4, Bracket type Bracket



**333830** Safety Switch  
 Replacing: 1337210743, 1337210776,  
 6033AD5138, 6033AD5206, 6033AD5255,  
 6033AD6153  
 Servicing: 0001241014, 0001241019  
 24 Volt, OD 33.00, Total length 65.00,  
 No./mount. holes 2, No./terminals 4,  
 Bracket type Bracket  
 Alternative no.: 239094



**335536** Safety Switch  
 Replacing: 1337210746  
 Servicing: 0001261012, 0001263003,  
 0001263004  
 24 Volt

## Solenoid Parts

### Solenoid Caps

Pkg. 5



**130479** Solenoid Cap  
 Replacing: 1330516037, 1330516050  
 Servicing: 0001155009, 0001155010,  
 0001155016, 0001155017, 0001157001,  
 0001157002, 0001157003, 0001157004  
 ID 43.00, OD 50.90, Coil bolt M8,  
 Coil bolt 2 12.95, No./terminals 4  
 HC-CARGO 130471, 131790, 131790, 131794,  
 133636, 234857.

Pkg. 5



**131315** Solenoid Cap  
 Servicing: 0001107005, 0001107006,  
 0001107009, 0001107012, 0001107013,  
 0001108011, 0001108024, 0001108031  
 ID 18.20, OD 54.60, Switch dim. 6.60,  
 Coil bolt M8, Coil bolt 2 9.20,  
 No./terminals 3, Bracket type Crimp  
 HC-CARGO 131143, 131793, 132265, 134378,  
 139018, 232186.



**131316** Solenoid Cap  
 Servicing: 0001360023, 0331401001,  
 0331401002, 0331401003, 0331401011,  
 0331401014, 0331401017, 0331401030  
 ID 43.00, OD 54.65, Coil bolt M10,  
 Coil bolt 2 15.40, No./terminals 3,  
 Bracket type Crimp





Pkg. 5

### 131317 Solenoid Cap

**Servicing:** 0001358020, 0001358046, 0001358047, 0001358049, 0001358200, 0001358201, 0001358202, 0001359049  
ID 48.00, OD 58.90, Coil bolt M10, Coil bolt 2 17.75, No./terminals 3, Bracket type Crimp  
HC-CARGO 130296, 130302, 132252, 132253, 132361, 132362, 133398, 137232.



Pkg. 5

### 131335 Solenoid Cap

**Replacing:** 1330516032, 1330516033, 1330516034  
**Servicing:** 0001108031, 0001157021, 0001207001, 0001207005, 0001207016, 0001207017, 0001207018, 0001207019  
ID 43.25, OD 51.15, Coil bolt M8, Coil bolt 2 13.40, No./terminals 3  
HC-CARGO 130468, 134823, 135871, 136025.



Pkg. 5

### 131847 Solenoid Cap

**Servicing:** 0001108004, 0001108019, 0001108033, 0001208172, 0001208219, 0001208220, 0001208223, 0001208232  
ID 44.39, OD 54.20, Switch dim. 11.52, Coil bolt M8, Coil bolt 2 12.75, No./terminals 4, Bracket type Crimp  
HC-CARGO 130475.



Pkg. 5

### 131318 Solenoid Cap

**Replacing:** 1330516712  
**Servicing:** 0001157008, 0001231007, 0001231008, 0001231009, 0001231014, 0001231017, 0001231029, 0001231045  
ID 47.70, OD 59.00, Coil bolt M10, Coil bolt 2 17.50, No./terminals 3, Bracket type Crimp  
HC-CARGO 130297, 130300, 130301, 130477, 130806, 130939, 131053, 131141, 132254, 132363, 137368.



Pkg. 5

### 131337 Solenoid Cap

**Replacing:** 1330516062  
**Servicing:** 0001106001, 0001106002, 0001107003, 0001107004, 0001107007, 0001107008, 0001108001, 0001108002  
ID 43.00, OD 54.15, Coil bolt M8, Coil bolt 2 12.25, No./terminals 4, Bracket type Crimp  
HC-CARGO 130474, 131586, 132828.



Pkg. 5

### 132279 Solenoid Cap

**Servicing:** 0001108025, 0001108030, 0001108038, 0001108061, 0001108062, 0001108088, 0001108089, 0001108090  
ID 43.30, OD 54.00, Coil bolt M8, Coil bolt 2 12.50, No./terminals 4, Bracket type Crimp  
HC-CARGO 131791.



Pkg. 5

### 131319 Solenoid Cap

**Servicing:** 0001359082, 0001359110, 0001362060, 0001362067, 0001367006, 0001367055, 0001367056, 0001369023  
ID 48.00, OD 59.00, Coil bolt M10, Coil bolt 2 17.30, No./terminals 3, Bracket type Crimp  
HC-CARGO 231801, 234859.



Pkg. 5

### 131338 Solenoid Cap

**Replacing:** 1330516072  
**Servicing:** 0001108021, 0001108098, 0001108122, 0001110113, 0001208200, 0001208201, 0001208208, 0001208216  
ID 42.85, OD 53.90, Coil bolt M8, Coil bolt 2 11.75, No./terminals 4, Bracket type Crimp  
HC-CARGO 130476.



### 132300 Solenoid Cap

**Servicing:** 0001108040, 0001108057, 0001108071, 0001108082, 0001108111, 0001108152, 0001112020, 0001114008  
ID 43.45, OD 54.40, Coil bolt M8, Coil bolt 2 8.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 132299.



Pkg. 5

### 131334 Solenoid Cap

**Replacing:** 1330516023  
**Servicing:** 0001108154  
ID 43.35, OD 51.00, Coil bolt M8, Coil bolt 2 17.00, No./terminals 4  
HC-CARGO 130293, 135878.



### 131345 Solenoid Cap

**Servicing:** 0001108080, 0001157022, 0001208019, 0001208020, 0001208027, 0001208028, 0001208030, 0001208031  
ID 42.20, OD 50.85, Coil bolt M8, Coil bolt 2 9.00, No./terminals 4  
HC-CARGO 130470.



### 132677 Solenoid Cap

**Servicing:** 0331402012  
ID 48.00, OD 59.00, Coil bolt M10, Coil bolt 2 17.30, No./terminals 4, Bracket type Crimp



Pkg. 5



### 132778 Solenoid Cap

**Servicing:** 0001208009, 0001208026, 0001208056, 0001208058, 0001208060, 0001208061, 0001208405, 0001211204  
ID 43.65, OD 51.00, Coil bolt M8, Coil bolt 2 13.15, No./terminals 4  
HC-CARGO 133141, 133642, 135358.

Pkg. 5



### 132779 Solenoid Cap

**Servicing:** 0001108023, 0001108051, 0001108075, 0001108143, 0001108180, 0001108182, 0001110003, 0001110026  
ID 43.00, OD 54.45, Coil bolt M8, Coil bolt 2 11.45, No./terminals 3, Bracket type Crimp  
HC-CARGO 133422, 135526, 136369, 136717, 136779.

Pkg. 5



### 132780 Solenoid Cap

**Servicing:** 0001108003, 0001108032, 0001108046, 0001108066, 0001108068, 0001108069, 0001108103, 0001108104  
ID 43.00, OD 54.30, Coil bolt M8, Coil bolt 2 12.10, No./terminals 4, Bracket type Crimp  
HC-CARGO 132258, 133644, 135065, 138257.

Pkg. 5



### 132781 Solenoid Cap

**Servicing:** 0001311105, 0001311106, 0001311124, 0331302056, 0331302084, 0331302094  
ID 43.00, OD 50.00, Coil bolt M8, Coil bolt 2 9.80, No./terminals 4  
HC-CARGO 133643, 234858.

Pkg. 5



### 133148 Solenoid Cap

**Replacing:** 1330516225  
**Servicing:** 0001110009, 0001110010, 0001208425, 0001208426, 0001208428, 0001208429, 0001211251, 0001211252  
ID 43.00, OD 54.35, Coil bolt M8, Coil bolt 2 11.95, No./terminals 3, Bracket type Crimp  
HC-CARGO 133421.



### 133157 Solenoid Cap

**Servicing:** 0331401004, 0331401007, 0331401022, 0331401025, 0331401029, 0331401033  
ID 43.00, OD 55.00, Coil bolt M10, Coil bolt 2 14.20, No./terminals 3, Bracket type Crimp



### 133159 Solenoid Cap

**Servicing:** 0001362005, 0001362006, 0001362044, 0001362045, 0001362081, 0001362602, 0001362603, 0001362606  
ID 48.00, OD 59.25, Coil bolt M10, Coil bolt 2 17.25, No./terminals 3, Bracket type Crimp  
HC-CARGO 131189.

Pkg. 5



### 133447 Solenoid Cap

**Replacing:** 2330516163  
**Servicing:** 0001231003, 0001231004, 0001359084, 0001359111, 0001360022, 0001360037, 0001360052, 0001360065  
ID 48.00, OD 58.80, Coil bolt M10, Coil bolt 2 17.90, No./terminals 3, Bracket type Crimp  
HC-CARGO 130303, 131042, 233734.

Pkg. 5



### 133777 Solenoid Cap

**Servicing:** 0331302001, 0331302002, 0331302006, 0331302009, 0331302020, 0331302060, 0331302072  
ID 43.15, OD 51.10, Coil bolt M8, Coil bolt 2 12.75, No./terminals 3  
HC-CARGO 133428.



### 134383 Solenoid Cap

**Servicing:** 0331401008, 0331401009, 0331401016  
ID 43.00, OD 55.00, Coil bolt M10, Coil bolt 2 15.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 137443.

Pkg. 5



### 134825 Solenoid Cap

**Replacing:** 1330516306  
**Servicing:** 0001107020, 0001107021, 0001107022, 0001107023, 0001107025, 0001107026, 0001107052, 0001107053  
ID 44.70, OD 54.30, Coil bolt M8, Coil bolt 2 12.65, No./terminals 3, Bracket type Crimp

Pkg. 5



### 134844 Solenoid Cap

**Servicing:** 0001359119, 0001362016, 0001362041, 0001362071, 0001366001, 0001367005, 0001367049  
ID 48.15, OD 59.30, Coil bolt M10, Coil bolt 2 16.70, No./terminals 3, Bracket type Crimp





Pkg. 5

### 136108 Solenoid Cap

**Servicing:** 0001110042, 0001110071, 0001110072, 0001110110, 0001218171, 0331303117

ID 43.00, OD 54.60, Coil bolt M8, Coil bolt 2 11.00, No./terminals 4, Bracket type Crimp  
HC-CARGO 136036, 136615.



Pkg. 5

### 137349 Solenoid Cap

**Servicing:** 0001106011, 0001106016, 0001107016, 0001107041, 0001107043, 0001107059, 0001107062, 0001107082

ID 40.80, OD 50.20, Coil bolt M8, Coil bolt 2 9.75, No./terminals 3, Bracket type Crimp  
HC-CARGO 138763, 138877.



Pkg. 5

### 137815 Solenoid Cap

**Servicing:** 0001108113, 0001108114, 0001108174, 0001108175, 0001108220, 0001108221, 0001109021, 0001109022

ID 45.00, OD 54.35, Coil bolt M8, Coil bolt 2 7.45, No./terminals 3, Bracket type Crimp  
HC-CARGO 136852, 233716.



Pkg. 5

### 138003 Solenoid Cap

**Replacing:** 1330516156

**Servicing:** 0001107010, 0001107034, 0001107038, 0001107056, 0001107092, 0001107093, 0001107100, 0001107101  
ID 43.20, OD 54.25, Coil bolt M8, Coil bolt 2 12.60, No./terminals 3, Bracket type Crimp  
HC-CARGO 137175, 137266, 137613.



Pkg. 5

### 138004 Solenoid Cap

**Replacing:** 1330516267

**Servicing:** 0001107011, 0001107014, 0001107015, 0001107027, 0001107028, 0001107031, 0001107039, 0001107044

ID 43.15, OD 54.20, Coil bolt M8, Coil bolt 2 12.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 133424, 137696, 139498, 230847.



Pkg. 5

### 138926 Solenoid Cap

**Servicing:** 0001208209, 0001208227, 0331303022, 0331303522, 9000142001

ID 42.80, OD 54.00, Coil bolt M8, Coil bolt 2 12.10, No./terminals 3, Bracket type Crimp



Pkg. 5

### 139213 Solenoid Cap

**Servicing:** 0001110039, 0001110053, 0001218172, 0001218772, 0001223002, 0331303017, 0331303115, 2339303261

ID 42.90, OD 53.95, Coil bolt M8, Coil bolt 2 11.85, No./terminals 3, Bracket type Crimp  
HC-CARGO 136371, 137276.



### 139525 Solenoid Cap

**Servicing:** 0001108074, 0001108112, 0001108125, 0001108128, 0001108186, 0001112019, 0001112029, 0331303143

ID 42.85, OD 54.20, Coil bolt M8, Coil bolt 2 8.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 234434.



### 139597 Solenoid Cap

**Servicing:** 0001107030, 0001107075, 0001107079, 0001107088, 0001109034, 0001110132, 0001218166, 2339303202

ID 42.80, OD 54.25, Coil bolt M8, Coil bolt 2 9.20, No./terminals 3, Bracket type Crimp  
HC-CARGO 139069.



### 139598 Solenoid Cap

**Servicing:** 0001107017, 0001107018, 0001107054, 0001107055, 0001107068, 0001107069, 0001107073, 0001107074

ID 43.00, OD 54.00, Coil bolt M8, Coil bolt 2 9.75, No./terminals 4, Bracket type Crimp  
HC-CARGO 137982, 233480.



### 230087 Solenoid Cap

**Servicing:** 2339403010

ID 49.00, OD 63.35, Coil bolt M12, Coil bolt 2 25.85, No./terminals 3, Bracket type Crimp  
HC-CARGO 139967.  
Alternative no.: 139967



### 230278 Solenoid Cap

**Servicing:** 2339402117, 2339402156

ID 48.40, OD 58.70, Switch dim. 3.10, Coil bolt M10, Coil bolt 2 12.00, No./terminals 4, Bracket type Crimp  
HC-CARGO 230904.





Pkg. 5

### 231558 Solenoid Cap

**Servicing:** 0001107442, 0001107443, 0001108157, 0001108196, 0001108245, 0001109025, 0001109200, 0001109201  
ID 40.90, OD 50.30, Coil bolt M8, Coil bolt 2 9.00, No./terminals 4, Bracket type Crimp  
HC-CARGO 137879.



### 231565 Solenoid Cap

**Servicing:** 0001218157, 0001223001, 0001223014, 9330331001  
ID 43.00, OD 55.00, Coil bolt M8, Coil bolt 2 7.90, No./terminals 3, Bracket type Crimp  
HC-CARGO 137491.



Pkg. 5

### 231802 Solenoid Cap

**Servicing:** 0001106014, 0001107067, 0001107076, 0001107078, 0001108166, 0001108167, 0001108173, 0001109252  
ID 40.65, OD 50.15, Coil bolt M8, Coil bolt 2 9.75, No./terminals 3, Bracket type Crimp  
HC-CARGO 139075.



Pkg. 5

### 231815 Solenoid Cap

**Servicing:** 0001107047, 2339304003  
ID 40.85, OD 50.15, Coil bolt M8, Coil bolt 2 11.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 139019.



### 231825 Solenoid Cap

**Servicing:** 0001230002, 0001230006, 0001230012, 0001230014, 0001231011, 2339402132  
ID 47.70, OD 59.00, Coil bolt M10, Coil bolt 2 15.45, No./terminals 3, Bracket type Crimp  
HC-CARGO 230452.



### 231828 Solenoid Cap

**Servicing:** 0001107063, 0001108176, 0001108183, 0001109026, 2339304011  
ID 40.40, OD 50.00, Coil bolt M8, Coil bolt 2 7.30, No./terminals 3, Bracket type Crimp  
HC-CARGO 230115.



### 231882 Solenoid Cap

**Servicing:** 0001107077, 0001107098, 0001107408, 0001113006, 0001116005, 2339304022, 2339304024  
ID 18.20, OD 50.30, Switch dim. 7.00, Coil bolt M8, Coil bolt 2 15.70, No./terminals 3, Bracket type Crimp  
HC-CARGO 230258.



### 232195 Solenoid Cap

**Servicing:** 0001231007, 0001231008, 0001231009, 0001231011, 0001231019, 0001231029, 0001231030, 2339402160  
ID 46.24, OD 58.94, Switch dim. 13.09, Coil bolt M10, Coil bolt 2 8.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 231711, 233852.



### 233075 Solenoid Cap

**Replacing:** 1330516342  
**Servicing:** 0001106018, 0001106019, 0001107037, 0001107048, 0001107072, 0001107096, 0001107403, 0001107406  
ID 40.90, OD 50.15, Coil bolt M8, Coil bolt 2 13.60, No./terminals 3, Bracket type Crimp  
HC-CARGO 230356.



### 233925 Solenoid Cap

**Servicing:** 0001108197, 0001115005, 0001115015, 0001115020, 2339303267, 2339303335, B001115020  
ID 44.85, OD 54.25, Coil bolt M8, Coil bolt 2 11.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 230635.



### 234437 Solenoid Cap

**Servicing:** 2339304020  
ID 41.00, OD 50.45, Coil bolt M8, Coil bolt 2 10.55, No./terminals 3, Bracket type Crimp  
HC-CARGO 230848.



Pkg. 5

### 234439 Solenoid Cap

**Servicing:** 2339304055  
ID 40.90, OD 50.25, Coil bolt M8, Coil bolt 2 7.40, No./terminals 3, Bracket type Crimp  
HC-CARGO 231203.



Pkg. 5



### 234845 Solenoid Cap

Servicing: 0001108162, 0001112041, 0001116003, 2339304008, F000SH0125, F000SH0131

ID 40.60, OD 50.15, Coil bolt M8, Coil bolt 2 9.35, No./terminals 3, Bracket type Crimp  
HC-CARGO 137612.



### 234917 Solenoid Cap

Servicing: 0001371006, 2339403006

ID 51.25, OD 63.65, No./terminals 3, Bracket type Crimp  
HC-CARGO 138311.



### 235005 Solenoid Cap

Servicing: 0001372002, 0001372003, 0001372007, 0001372008, 2339304009, B001860021, B001860023

ID 51.60, OD 63.70, Coil bolt M12, Coil bolt 2 24.60, No./terminals 4, Bracket type Crimp  
HC-CARGO 139965.



### 236372 Solenoid Cap

Replacing: 1330516633

Servicing: 0001107450, 0001107451, 0001107508, 0001107509, 0001107534, 0001107535, 0001108405, 0001108406

OD 50.00, Switch dim. 6.40, Coil bolt M8, Coil bolt 2 11.50, No./terminals 3



### 330536 Solenoid Cap

Servicing: 0001107425, 0001107426

OD 49.70, Switch dim. 6.00, Coil bolt M8, Coil bolt 2 14.00, No./terminals 3, Bracket type Crimp



### 331004 Solenoid Cap

Servicing: 0001231016, 0001231046

Coil bolt M10, Coil bolt 2 10.00, No./terminals 4, Bracket type Crimp  
Support point: M6 bolt



### 335596 Solenoid Cap

Replacing: 1330516695

OD 50.50, Switch dim. 7.00, Coil bolt M8, Coil bolt 2 7.00, No./terminals 3



### 336220 Solenoid Cap

Replacing: 1330516641

Servicing: 0001139408, 0001139029

ID 41.00, OD 50.30, No./terminals 3



### 336835 Solenoid Cap

Replacing: 1330516649

Servicing: 0001139071, 0001139072, 0001139085, 0001139086, 0001148510, 0001148511, 0001149416, 0001149417  
ID 41.00, OD 50.50, No./terminals 3



### 337022 Solenoid Cap

Replacing: 1330516646

Servicing: 0001139065, 0001139066, 0001147401, 0001147402, 0001147403, 0001147406, 0001147407, 0001147408

OD 50.50, No./terminals 3

## Moving Contacts

Pkg. 5



### 131591 Contact Plate

ID 8.00, Length 30.00, Thickness 2.00, Width 15.00

Pkg. 5



### 131592 Contact Plate

ID 11.00/8.00, Length 35.00, Thickness 4.00, Width 18.00

Pkg. 5



### 131594 Moving Contact

OD 2 6.35, Length 31.60, Shaft dim. 31.60, Thickness 2.00, Width 15.00, Material Silver plated brass, Shaft w/

Pkg. 5



### 132275 Moving Contact

OD 2 6.45, Length 40.00, Shaft dim. 32.00, Thickness 4.00, Width 18.00, Material Silver plated brass, Shaft w/  
Alternative no.: b132275





Pkg. 5

### 132276 Moving Contact

Servicing: 0001106018, 0001107408, 0001107410, 0001107448, 0001107449, 0001107450, 0001107508, 0001107509

OD 2 6.50, Length 36.00, Shaft dim. 31.60, Thickness 2.00, Width 15.00, Material Silver plated brass, Shaft w/

Alternative no.: b132276



Pkg. 5

### 132277 Moving Contact

OD 2 6.45, Length 40.50, Shaft dim. 32.00, Thickness 2.50, Width 18.00, Material Copper, Shaft w/

Pkg. 5



### 132281 Moving Contact

Servicing: 0001106014, 0001106023, 0001109315, 0001139408, 0001147400, 0001147404, 0001223014

OD 2 6.40, Length 36.00, Shaft dim. 31.50, Thickness 3.00, Width 15.00, Material Copper, Shaft w/



### 136034 Contact Kit

Servicing: 0001223504, 0001231003, 0001231004, 0001231007, 0001231008, 0001231009, 0001231011, 0001231014

ID 7.45, Length 39.20, Shaft dim. 52.80, Thickness 4.00, Width 17.70, Material Copper, Shaft w/o



Pkg. 5

### 231384 Moving Contact

Servicing: 0001371004, 0001371006, 0001372002, 0001372003, 0001372007, 0001372008, B001860021, B001860023

OD 25.70, OD 2 12.80, Shaft dim. 57.50, Thickness 5.00, Material Copper, Shaft w/

Pkg. 5



### 231821 Moving Contact

Servicing: 0001230002, 0001231007, 0001231008, 0001231009, 0001231011, 0001241020, 0331402106, 2339402115

OD 19.50, OD 2 10.70, Shaft dim. 46.00, Thickness 3.70, Material Copper, Shaft w/

Pkg. 5



### 235538 Moving Contact

OD 2 6.45, Length 36.00, Shaft dim. 31.60, Thickness 2.00, Width 15.00

Silver plated.

Alternative no.: B235538

Pkg. 75



### B132275 Moving Contact

Servicing: 0001368082, 0001368311

OD 2 6.45, Length 40.00, Shaft dim. 32.00, Thickness 4.00, Width 18.00, Shaft w/

Alternative no.: 132275



Pkg. 100

### B132276 Moving Contact

Servicing: 0001106014, 0001106019, 0001106023, 0001107076, 0001107080, 0001107088, 0001107406, 0001107423

OD 2 6.46, Length 36.00, Shaft dim. 31.60, Thickness 2.00, Width 15.00, Shaft w/

Alternative no.: 132276

### Fixed Contacts

Pkg. 10



### 133570 Fixed Contact

Total length 33.00, Length/rear collar 27.40, Thread length 25.15, Thread size M10, Shaft w/, Washer w/o

Steel/copper.

Alternative no.: b133570

Pkg. 10



### 133571 Fixed Contact

Total length 41.00, Length/rear collar 35.00, Thread length 32.30, Thread size M10, Shaft w/, Washer w/o

Steel/copper.

Alternative no.: b133571

Pkg. 50



### 133572 Fixed Contact

Total length 36.00, Length/rear collar 34.30, Thread length 28.25, Thread size M8, Shaft w/, Washer w/o





### 133573 Fixed Contact

Total length 25.95, Length/rear collar 20.45, Thread length 17.60, Thread size M8, Shaft w/, Washer w/o  
*Silverplated. Fixed bolt.*  
Alternative no.: b133573

Pkg. 10



### 133575 Fixed Contact

Total length 35.50, Length/rear collar 30.00, Thread length 27.00, Thread size M8  
*Silverplated. Fixed bolt.*  
Alternative no.: b133575

Pkg. 10



### 134141 Fixed Contact

Servicing: 0001223014  
Total length 50.60, Length/rear collar 45.30, Thread length 41.00, Thread size M8, Shaft w/, Washer w/o  
Alternative no.: b134141



### 136460 Fixed Contact Kit

Replacing: 2333142008, 2333142009  
Total length 37.00, Length/rear collar 31.50, Thread length 30.00/22.00, Thread size M10  
*Copper plated.*



### 234449 Fixed Contact

Servicing: 0001139408, 0001147400  
Total length 31.00, Length/rear collar 25.20, Thread length 21.20, Thread size M8, Shaft w/, Washer w/  
*Steel/copper.*

Pkg. 10



### 234450 Fixed Contact

Total length 46.00, Length/rear collar 40.00, Thread length 36.45, Thread size M8, Shaft w/, Washer w/o  
*Steel/copper.*

Pkg. 10



### 234452 Fixed Contact

Servicing: 0001139408, 0001147400, 0001147404  
Total length 41.30, Length/rear collar 35.35, Thread length 30.40, Thread size M8, Slot type E6 torx, Countersink No, Shaft w/, Washer w/  
*Steel/copper.*

Pkg. 10



### 234453 Fixed Contact

Total length 41.00, Length/rear collar 35.25, Thread length 31.00, Thread size M8, Slot type w/o, Countersink No, Shaft w/, Washer w/o  
*Silver plated.*



### 234454 Fixed Contact

Total length 41.00, Length/rear collar 36.10, Thread length 31.60, Thread size M10, Shaft w/, Washer w/o  
*Silver plated.*



### 332609 Fixed Contact

Replacing: 1333450783  
Total length 34.85, Length/rear collar 24.88, Thread length 24.96, Thread size M10, Slot type w/o, Countersink No, Shaft w/o, Washer w/o



### 332610 Fixed Contact

Replacing: 1333450785  
Total length 54.70, Length/rear collar 44.93, Thread length 45.11, Thread size M10, Slot type w/o, Countersink No, Shaft w/o, Washer w/o

Pkg. 75



### B133570 Fixed Contact

Servicing: 0001368082  
Total length 33.00, Length/rear collar 27.40, Thread length 25.15, Thread size M10, Shaft w/, Washer w/o  
*Steel/copper.*  
Alternative no.: 133570



Pkg. 65



### B133571 Fixed Contact

Servicing: 0001368082

Total length 41.00, Length/rear collar 35.00,  
Thread length 32.30, Thread size M10,  
Shaft w/, Washer w/o  
Steel/copper.

Alternative no.: 133571

Pkg. 125



### B133573 Fixed Contact

Servicing: 0001107080, 0986010030

Total length 25.95, Length/rear collar 20.45,  
Thread length 17.60, Thread size M8,  
Shaft w/o, Washer w/  
Silverplated. Fixed bolt.

Alternative no.: 133573

Pkg. 100



### B133575 Fixed Contact

Servicing: 0001106023, 0001107080,  
0001115015, 0001223014, 0986010030

Total length 35.50, Length/rear collar 30.00,  
Thread length 27.00, Thread size M8  
Silverplated. Fixed bolt.

Alternative no.: 133575

Pkg. 75



### B134141 Fixed Contact

Total length 50.60, Length/rear collar 45.30,  
Thread length 41.00, Thread size M8,  
Shaft w/, Washer w/o  
Alternative no.: 134141

## Various

Pkg. 1000



### 136652 Gasket

ID 8.45, OD 12.85, Thickness 1.00  
For M8 bolt.



### 330257 5★ Cover

Manufacturer: Bosch

Replacing: 6033AD5273

Servicing: 0001231040, 0001241012,  
0001241015, 0001241020, 0001261013,  
0001261023, 0001261044, 0001261045

Height 143.50, No./mount. holes 1,  
Material Shockproof plastic

## Drives



### 130027 Drive

Replacing: 1006209061, 1006209102,  
1006209104, 1006209161, 1006209233,  
1006209339, 2006209160, 2006209161

Servicing: 0001160003, 0001160011,  
0001160013, 0001207016, 0001207017,  
0001207018

ID 11.00, OD 26.00, OD/housing 46.20,  
Total length 67.00, No./teeth 9,  
Rotation CCW, Key spline w/o, Lock w/o



### 130390 Drive

Replacing: 1006209030, 1006209032,  
1006209033, 1006209039, 1006209049,  
1006209056, 1006209071, 1006209105

Servicing: 0001207003, 0001207009,  
0001207014, 0001207015, 0001208004,  
0001208007, 0001208018

ID 12.00, OD 29.60, OD/housing 46.30,  
Total length 68.00, Splines A 10, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 130393 Drive

Replacing: 1006209401, 1006209445, 9001140104

Servicing: 0001157012, 0001157013,  
0001157021, 0001157023, 9000141100,  
9000141101, 9000141103

ID 12.00, OD 25.80, OD/housing 46.20,  
Total length 68.50, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 130396 Drive

Replacing: 1006209236, 1006209340,  
1006209404, 1006209410, 1006209414,  
1006209416, 1006209427, 1006209447

Servicing: 0001157024, 0001157025,  
0001157028, 0001157029, 0001157030,  
0001208200

ID 12.00, OD 25.80, OD/housing 46.30,  
Total length 64.50, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 130400 Drive

Replacing: 1006209429

Servicing: 0001208172, 0001208219,  
0001208220, 0001208223, 0001208232,  
0001208233, 0001208409, 0001208423

ID 12.00, OD 26.80, OD/housing 46.20,  
Total length 64.00, Splines A 10,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o



### 130401 Drive

Replacing: 1006209080, 1006209402,  
1006209439, 2006209273, 9001043178

Servicing: 0001313003, 0001313004,  
0001313005, 0001313006, 0001313007

ID 12.00, OD 25.80, OD/housing 46.25,  
Total length 63.50, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o





### 130402 Drive

Replacing: 1006209081, 1006209444

Servicing: 0001311042, 0001314001

ID 12.00, OD 29.60, OD/housing 46.25,  
Total length 64.00, Splines A 10, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 130404 Drive

Replacing: 1006209162, 1006209424,  
1006209431, 2006209162, 9001042021,  
9001082362, 9001082669

Servicing: 0001204102, 0001204103,  
0001208403, 0001208411, 0001208412,  
0001208414, 0001208415, 0001208416

ID 11.00, OD 25.80, OD/housing 46.10,  
Total length 63.00, Splines A 10, No./teeth 9,  
Rotation CCW, Key spline w/o, Lock w/o



### 130405 Drive

Replacing: 1006209400, 1006209403,  
1006209405, 1006209411, 1006209412,  
1006209417, 2006209163

Servicing: 0001208053, 0001208054,  
0001208055, 0001208254, 0001208255,  
0001211025

ID 12.00, OD 25.80, OD/housing 46.15,  
Total length 63.50, Splines A 10, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 130406 Drive

Replacing: 1006209029, 1006209031,  
1006209034, 1006209040, 1006209047,  
1006209051, 1006209052, 1006209053

Servicing: 0001207010, 0001208001,  
0001208003, 0001208009

ID 12.00, OD 26.00, OD/housing 46.15,  
Total length 68.50, Splines A 10, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 130409 Drive

Replacing: 2006209241, 2006209242,  
2006209249, 2006209331, 2006209332

Servicing: 0001362001, 0001362002, 0001362003,  
0001362004, 0001362007, 0001362027

ID 12.00, OD 25.80, OD/housing 54.20,  
Total length 73.00, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 130414 Drive

Replacing: 2006209471, 2006209500

Servicing: 0001362002, 0001362029,  
0001362030, 0001362038, 0001362047,  
0001362069

ID 12.00, OD 25.80, OD/housing 58.00,  
OD/teeth 25.80, Total length 71.50,  
Splines A 10, No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 130414zz, 333516



### 130414ZZ Drive

Replacing: 2006209471, 2006209500

ID 12.00, OD 25.20, OD/housing 54.15,  
OD/teeth 25.20, Total length 70.95,  
Splines A 10, No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 130414



### 130415 Drive

Replacing: 2006208011, 2006209022,  
2006209030, 2006209043, 2006209068,  
2006209183, 2006209189, 2006209212

Servicing: 0001354004, 0001354006,  
0001354012, 0001354016, 0001354021,  
0001354023, 0001354027

ID 14.30, OD 34.00, OD/housing 54.20,  
Total length 90.00, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 130416 Drive

Replacing: 2006203022, 2006209072,  
2006209073, 2006209268, 2006209368,  
2006209388, 2006209917, 2006209971

Servicing: 0001358018, 0001358020,  
0001358027, 0001358033

ID 14.30, OD 41.00, OD/housing 60.00,  
Total length 92.50, Splines A 3,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 130417 Drive

Replacing: 2006380010, 2006380410, 2006380718

Servicing: 0001401011, 0001401012,  
0001401023, 0001401028, 0001401041,  
0001401050, 0001401052, 0001401066

ID 14.70, OD 34.70, OD/housing 35.00,  
Total length 120.00, Splines A 3,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 130418 Drive

Replacing: 2006382018, 2006382152, 2006382156

Servicing: 0001410018, 0001410032,  
0001410037, 0001410044, 0001410046

ID 10.15, OD 41.00, OD/teeth 41.00,  
Total length 61.00, Shaft length 39.65,  
No./teeth 11, Key spline w/o, Lock w/o



### 130419 Drive

Replacing: 1006382176, 2006382013, 2006382017,  
2006382020, 2006382150, 2006382176

Servicing: 0001410015, 0001410016,  
0001410021, 0001410029

ID 10.15, OD 34.30, Total length 61.10,  
Shaft length 40.30, No./teeth 9,  
Rotation CW, Key spline w/, Lock w/o  
Alternative no.: 130419z





### 130419Z Drive

Replacing: 2006382013, 2006382017, 2006382020, 2006382150, 2006382176  
ID 14.00, OD 34.80, Total length 61.10, Shaft length 40.10, No./teeth 9, Rotation CW, Key spline w/, Lock w/o  
Alternative no.: 130419



### 130721 Drive

Replacing: 2006381558  
Servicing: 0001401044, 0001401046, 0001501003, 0001501014, 0001501020, 0001501032  
ID 14.60, OD 41.00, Total length 120.00, Shaft length 98.60, Splines A 3, No./teeth 11, Key spline w/o, Lock w/o  
Bronze.



### 130722 Drive

Replacing: 2006380500  
ID 14.70, OD 39.00, Total length 120.00, Splines A 3, No./teeth 10, Drive type Steel, Key spline w/o, Lock w/o



### 130731 Drive

Replacing: 9001336221  
ID 11.55, OD 29.20, OD/housing 45.00, Total length 61.90, Splines A 12, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 130738 Drive

Replacing: 9001133219  
ID 14.00, OD 29.15, OD/housing 46.20, Total length 68.00, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 130741 Drive

Replacing: 1987006010  
ID 12.85, OD 29.15, OD/housing 45.40, Total length 60.15, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130920 Drive

Replacing: 9001336203  
ID 12.00, OD 26.95, OD/housing 41.15, Total length 60.65, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o



### 130930 Drive

Replacing: 2006209478  
Servicing: 0001362037, 0001362071, B001812263  
ID 14.25, OD 29.60, OD/housing 54.00, Total length 73.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130931 Drive

Replacing: 2006209240, 2006209330, 2006209418, 2006209448  
Servicing: 0001362031, 0001362032, 0001363101  
ID 14.30, OD 34.80, OD/housing 60.00, Total length 74.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130932 Drive

Replacing: 2006209405, 2006209435  
Servicing: 0001359050, 0001359054, 0001359058, 0001359061, 0001359064, 0001359065, 0001359088  
ID 14.30, OD 40.00, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 130950 Drive

Replacing: 2006209470, 2006209483  
Servicing: 0001362039, 0001362056, 0001362062, 0001362065, 0001362073, 0001362102, 0001362105, 0001362322  
ID 14.25, OD 34.80, OD/housing 60.00, Total length 73.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 333207



### 130995 Drive

Replacing: 1006209423, 9001042013, 9001042032  
Servicing: 0001208425, 0001208426, 0001208428, 0001208429, 0001211221, 0001211222, 0001211251, 0001211252  
ID 11.00, OD 25.80, OD/housing 46.30, Total length 74.00, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 131019 Drive

Replacing: 2006209449, 2006209469, 2006209476, 2006209485, 2006209504  
Servicing: 0001362034, 0001362036, 0001362040, 0001362041, 0001362043, 0001362046, 0001362050, 0001362053  
ID 14.25, OD 34.80, OD/housing 60.00, Total length 74.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 333205



### 131065 Drive

Replacing: 1.01.0367.0, 2006209492, 2006209529, 2006209530, 2008209008, F000AL1897  
Servicing: 0001362051, 0001362063, 0001362096, 0001362097  
ID 14.25, OD 34.80, OD/housing 60.00, OD/teeth 34.80, Total length 91.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 131065Z





### 131065Z Drive

Replacing: 2006209530, 2008209008

ID 14.20, OD 34.30, OD/housing 60.00,  
Total length 91.00, Splines A 10,  
No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 131065



### 131087 Drive

Replacing: 1987006024

ID 12.75, OD 28.10, OD/housing 45.00,  
Total length 61.55, No./teeth 8,  
Rotation CW, Key spline w/o, Lock w/o



### 131097 Drive

Replacing: 1006209406, 1006209428,  
1006209449, 1006209472, 9001692096

Servicing: 0001208204, 0001211225,  
0001311100, 0001311128

ID 12.00, OD 30.00, OD/housing 46.30,  
Total length 64.50, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/

Alternative no.: 333233



### 131098 Drive

Replacing: 1006209448

Servicing: 0001157026, 0001208213,  
0001208221, 0001208222, 0001311134,  
0001311135, 0001311138, 0001314022

ID 12.00, OD 25.80, OD/housing 47.00,  
Total length 64.50, Splines A 10,  
No./teeth 9, Rotation CCW,  
Key spline w/o, Lock w/



### 131101 Drive

Replacing: 1006209469, 1006209470, 1006209473

Servicing: 0001311146, 0001314026,  
0001314027, 0001314028, 0001314029

ID 11.90, OD 25.80, OD/housing 46.20,  
Total length 64.00, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/



### 131102 Drive

Replacing: 1006209500

Servicing: 0001317007, 0001317008,  
0001317013, 0001317022, 0001317025,  
B001329009, B001329014, B001329045

ID 12.00, OD 25.80, OD/housing 46.20,  
Total length 64.00, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/  
Alternative no.: 131102z, 333220



### 131102Z# Drive

Replacing: 1006209500

ID 12.00, OD 25.80, OD/housing 46.00,  
Total length 64.00, Splines A 10,  
No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 131102, 333220



### 131104 Drive

Replacing: 1006209503, 1006209504,  
1006209506, 1006209509, 1006209513,  
1006209526, 1006209528, 1006209530

Servicing: 0001108001, 0001108002,  
0001108003

ID 12.00, OD 25.80, OD/housing 47.50,  
Total length 59.00, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/  
Alternative no.: 131104zz, 333176



### 131104ZZ Drive

Replacing: 1006209503, 1006209504,  
1006209506, 1006209509, 1006209513,  
1006209526, 1006209528, 1006209530

ID 12.00, OD 25.30, OD/housing 46.20,  
OD/teeth 25.30, Total length 58.40,  
Splines A 10, No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 131104, 333176



### 131106 Drive

Replacing: 2006209413, 2006209443

Servicing: 0001359067, 0001359069,  
0001359081, 0001359082, 0001359103,  
0001359104, 0001359109, 0001359110

ID 14.29, OD 39.00, OD/housing 60.32,  
Total length 91.00, Splines A 10,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o



### 131107 Drive

Replacing: 2006382019, 2006382172, 2006382192

Servicing: 0001410065, 0001411017,  
0001411021, 0001411025, 0001411026

ID 10.10, OD 41.00, Total length 61.00,  
Shaft length 40.00, No./teeth 11,  
Key spline w/o, Lock w/o



### 131108 Drive

Replacing: 2006209243, 2006209333,  
2006209473, 2006209481

Servicing: 0001362005, 0001362006,  
0001362026, 0001362044, 0001362045,  
0001362055, 0001362061

ID 14.35, OD 36.50, OD/housing 59.95,  
Total length 73.50, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o





**131150** Drive  
**Replacing:** 1006209502  
**Servicing:** 0001317011, 0001317012, 0001317016, 0001317017, B001329013, B001329029  
 ID 12.00, OD 25.80, OD/housing 46.15, Total length 85.00, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/



**131167** Drive  
**Replacing:** 2006382174, 2006383160  
**Servicing:** 0001410067, 0001410068, 0001410116, 0001415020, 0001416038, 0001416043, 0001416044, 0001416072  
 ID 10.10, OD 42.50, Total length 61.00, Shaft length 40.00, No./teeth 11, Rotation CW, Key spline w/, Lock w/o



**131207** Drive  
**Replacing:** 2006209431  
**Servicing:** 0001362081, 0001362602, 0001362603, 0001362606, 0001362607, B001812323, B001812324, B001812349  
 ID 14.20, OD 27.20, OD/housing 54.10, Total length 74.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/



**131267** Drive  
**Replacing:** 2006209107, 2006209117, 2006209119, 2006209301, 2006209341, 2006209401  
**Servicing:** 0001358048, 0001358049, 0001359012, 0001359013, 0001359014  
 ID 14.00, OD 34.80, OD/housing 60.14, Total length 91.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/




**131269** Drive  
**Replacing:** 2006209109, 2006209120, 2006209302, 2006209304, 2006209342, 2006209344  
**Servicing:** 0001358050, 0001358051, 0001359001, 0001359003, 0001359004, 0001359010, 0001359019, 0001359024  
 ID 14.33, OD 40.55, OD/housing 60.00, Total length 89.60, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/



**131270** Drive  
**Replacing:** 1987MN0175, 2006209408, 2006209410, 2006209423, 2006209438, 2006209440  
**Servicing:** 0001359053, 0001359056, 0001359060, 0001359063, 0001359070, 0001359075, 0001359076, 0001359085  
 ID 14.29, OD 41.00, OD/housing 60.06, Total length 91.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/  
 Alternative no.: 335643



**131271** Drive  
**Replacing:** 2006209425, 2006209494  
**Servicing:** 0001359108, 0001362018, 0001362064, 0001362301, 0001362303  
 ID 14.30, OD 41.00, OD/housing 60.20, Total length 91.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/  
 Alternative no.: 333217 , 335642



**131344** Drive  
**Replacing:** 2006209466  
**Servicing:** 0001362307, B001812330  
 ID 14.40, OD 46.30, OD/housing 59.95, Total length 74.00, Splines A 10, No./teeth 12, Rotation CW, Key spline w/o, Lock w/  
 Alternative no.: 335644



**131381** Drive  
**Replacing:** 2006209417, 2006209447, 9001083502  
**Servicing:** 0001359102, 0001359122, 0001360003, 0001360043, 0001360063, 9000083043, 9000453088, 9000453091  
 ID 14.30, OD 34.80, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



**131432** Drive  
**Replacing:** 1006209501, 1006209517  
**Servicing:** 0001317009, 0001317010, 0001317014, 0001317015, 0001317018, 0001317019, 0001317020, 0001317021  
 ID 10.90, OD 25.80, OD/housing 46.25, Total length 64.00, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/



**131433** Drive  
**Replacing:** 1.01.0520.0, 1006209510, 1006209516, 1006209537, 1006209545, 1006209566, 1006209568, 1006209905  
**Servicing:** 0001107014, 0001107016, 0001107027, 0001107028  
 ID 12.00, OD 26.80, OD/housing 47.50, Total length 58.50, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/  
 Alternative no.: 131433z, 333172



**131433Z** Drive  
**Replacing:** 1006209510, 1006209516, 1006209537, 1006209545, 1006209566, 1006209568, 1006209905, 1006209907  
 ID 12.00, OD 26.80, OD/housing 46.25, OD/teeth 26.80, Total length 58.50, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 131433, 333172





### 131434 Drive

Replacing: 1006209560, 1006209569, 1006209908, 1006210152

Servicing: 0001110013, 0001110019, 0001110043, 0001110044, 0001110051, 0001110064, 0001110065, 0001110088  
ID 12.00, OD 27.00, OD/housing 54.25, Total length 59.00, No./teeth 10, Rotation CW, Key spline w/o, Lock w/

Alternative no.: 333548 ★



### 131475 Drive

Replacing: 2006209498, 2006209533, 2006209539, 2006209932

Servicing: 0001366019, 0001368016, 0001368043, 0001368081, 0001368311, 0001368320, B001811052

ID 14.30, OD 37.80, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/

Alternative no.: 335645



### 131489 Drive

Replacing: 1006209436

Servicing: 0001314010, 0001314017, 0001316008, B001315024, B001315068, B001328013, B001328014

ID 12.00, OD 34.80, OD/housing 53.45, Total length 64.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131495 Drive

Replacing: 1986SE3627, 2006209414, 2006209444

Servicing: 0001359090, 9000453074, 9000453075, 9000453076, 9000083071, 9000083076

ID 14.30, OD 32.00, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/

Alternative no.: 333515 ★



### 131597 Drive

Replacing: 2006209462, 2006209499

Servicing: 0001362093, 0001362310, 0001362327, 0001362328, 0001363127, 0001367006, 0001367022, 0001367035

ID 14.30, OD 39.00, OD/housing 60.10, Total length 91.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/

Alternative no.: 333228 ★



### 131711 Drive

Replacing: 2006209407, 2006209437, 2006209737

Servicing: 0001358200, 0001358201, 0001358202

ID 14.30, OD 46.30, OD/housing 59.90, Total length 75.00, Splines A 10, No./teeth 12, Rotation CW, Key spline w/o, Lock w/



### 131712 Drive

Replacing: 2006209246, 2006209336

Servicing: 0001359120, 0001362012, 0001362013, 0001362016, 0001362017

ID 14.45, OD 34.80, OD/housing 60.00, Total length 77.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131713 Drive

Replacing: 2006208013, 2006209021, 2006209032, 2006209181, 2006209902

Servicing: 0001354018, 0001354029, 0001354033

ID 14.30, OD 41.00, OD/housing 54.15, Total length 90.00, No./teeth 11, Rotation CW, Key spline w/o, Lock w/



### 131714 Drive

Replacing: 2006380558

Servicing: 0001401027, 0001401047, 0001402053, 0001402057, 0001501035, 0001501042, BNG4/12CR168SR

ID 14.60, OD 41.00, Total length 120.00, Shaft length 98.00, Splines A 3, No./teeth 11, Key spline w/o, Lock w/o



### 131744 Drive

Replacing: 9001084020

ID 14.60, OD 45.50, Total length 120.00, Splines A 3, No./teeth 12, Key spline w/o, Lock w/o



### 131745 Drive

Replacing: 2006380574, 2006380594

Servicing: 0001401026, 0001401062, BNG4/12CR242SR

ID 14.60, OD 40.00, Total length 120.00, Shaft length 98.00, Splines A 3, No./teeth 11, Key spline w/o, Lock w/o



### 131747 Drive

Replacing: 2006380450, 2006380458

Servicing: 0001400016, 0001401019, BNG2,5/12DR229, BNG4/12CR236

ID 14.60, OD 46.00, Total length 120.00, Shaft length 98.20, Splines A 3, No./teeth 13, Key spline w/o, Lock w/o

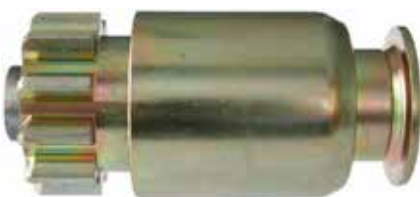




### 131767 Drive

Replacing: 9001453670

Servicing: 40MT, 50MT, 0001370001, 9000453029, 9000453066, B001851001  
ID 15.90, OD 38.80, OD/housing 58.00, Total length 120.40, No./teeth 10, Rotation CW, Key spline w/o, Lock w/



### 131768 Drive

Replacing: 2006202001, 2006202003

Servicing: 40MT, 0001370002, 0001420002, 0001420006, 0001420007, 0001420008  
ID 19.00, OD 56.50, OD/housing 58.00, Total length 120.40, Shaft length 19.00, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 131771 Drive

Replacing: 1006208280, 1006208450, 1006209450, 2006209280

Servicing: 0001212005, 0001212006, 0001212007, 0001212008, 0001212012, 0001212013, 0001212200  
ID 12.10, OD 25.88, OD/housing 47.00, Total length 108.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131772 Drive

Replacing: 1006209451

Servicing: 0001212206, 0001212207, 0001212210, 0001212400, 0001212401, 0001312101, 0001312102, 0001312103  
ID 12.10, OD 26.00, OD/housing 47.00, Total length 108.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131773 Drive

Replacing: 2006382162

Servicing: 0001410051, 0001410092, 0001410108, 0001410110, 0001411001, 0001411002, 0001411006, 0001411011  
ID 10.20, OD 45.50, Total length 61.10, Shaft length 40.00, No./teeth 12, Rotation CW, Key spline w/



### 131995 Drive

Replacing: 1006209523, 9003336291

Servicing: 0001218006, 0001218016, 0001218021, 0001218029, 0001218108, 0001218109, 0001218110, 0001218150  
ID 12.00, OD 27.50, OD/housing 54.00, Total length 64.80, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 335648



### 131996 Drive

Replacing: 9002336283, 9003336283, 9009996289, F000AL1881

Servicing: 0001218014, 0001218019, 0001218024, 0001218101, 0001218102, 0001218103, 0001218151, 0001218154  
ID 12.00, OD 35.00, OD/housing 54.00, Total length 62.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131997 Drive

Replacing: 9002336207, 9003336201, 9003336284

Servicing: 0001218002, 0001218015, 0001218022, 0001218106, 0001218129, 0001218602, B001233231  
ID 11.95, OD 27.25, OD/housing 54.25, Total length 62.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 131998 Drive

Replacing: 9001140317, 9003336293

Servicing: 0001218001, 0001218004, 0001218005, 0001218008, 0001218010, 0001218012, 0001218013  
ID 12.00, OD 25.35, OD/housing 53.50, Total length 62.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 132000 Drive

Replacing: 2006209531, 2006209537, 2006209541, 2006209933

Servicing: 0001364102, 0001364200, 0001364203, 0001364204, 0001364206, 0001364300, 0001368015, 0001368037  
ID 14.30, OD 40.50, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 335649



### 132079 Drive

Replacing: 1006209524, 1006384642, 6033AD0044, 9002336209, 9003336280

Servicing: 0001218009, 0001218011, 0001218026, 0001218027, 0001218028, 0001218122, 0001218134, 0001218135  
ID 12.00, OD 29.35, OD/housing 53.50, Total length 62.85, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 132079z



### 132079Z Drive

Replacing: 1006209524, 1006384642, 6033AD0044, 9002336209, 9003336280

ID 12.00, OD 29.15, OD/housing 54.30, OD/teeth 29.15, Total length 62.15, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 132079





### 132163 Drive

Replacing: 1006209012, 1006209014, 1006209017, 1006209125, 1006209902, 9001082417

Servicing: 0001203016, 0001305016, 0001308006, EGD1/12AR37

ID 12.00, OD 25.20, OD/housing 46.25, Total length 78.00, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132166 Drive

Replacing: 1006209452

Servicing: 0001312108, 0001312109, B001335003

OD 25.00, OD/housing 47.50, Total length 108.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132168 Drive

Replacing: 1006209522, 1986SE1741, F000AL1520

Servicing: 0001110001, 0001110002, 0001110014, 0001110015, 0001110133, 0001110134, 0001112003, 0001117008

ID 11.00, OD 25.80, OD/housing 46.00, Total length 58.50, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 132169 Drive

Replacing: 1006209532

Servicing: 0001110009, 0001110010, B001117030

ID 12.00, OD 25.30, OD/housing 46.00, Total length 79.70, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 132193 Drive

Replacing: 1006209059, 1006209060, 1006209117, 1006209119, 1006209320, 1006209321, 1006209322, 1006209323

Servicing: 0001207001, 0001207005, 0001208006

ID 12.65, OD 29.50, OD/housing 47.75, Total length 66.30, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 132194 Drive

Replacing: 1006209425, 9001082324, 9001082749, F000AL1001, F000AL1871

Servicing: 0001208218, 0001208408, 0001208410, 0001208422, 0001211246

ID 12.00, OD 29.00, OD/housing 46.00, Total length 64.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o




### 132204 Drive

Replacing: 1006209541, 1006209571

Servicing: 0001110017, 0001110056, 0001110999, B001117203, F010AL0101, B001117260, B001117285

ID 12.00, OD 29.00, OD/housing 54.00, Total length 59.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 335547 



### 132205 Drive

Replacing: 1006209538, 1006209539, 1006209691, 1986SE1739, 1986SE1761

Servicing: 0001110003, 0001110005, 0001110012, 0001110016, 0001110025, 0001110026

ID 12.00, OD 27.80, OD/housing 45.70, Total length 58.75, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 132205z, 333196



### 132205Z Drive

Replacing: 1006209538, 1006209539, 1006209691, 1986SE1739, 1986SE1761

ID 12.00, OD 27.90, OD/housing 48.00, Total length 59.50, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 132205, 333196



### 132216 Drive

Replacing: 1006209543, 1006209544, 1006209576, 1006209596, 1006209703, 1006209710, 1006209918, 1006209919

Servicing: 0001108094, 0001108095, 0001108127, 0001110001, 0001110002, 0001110014

ID 12.00, OD 25.80, OD/housing 46.00, Total length 58.50, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o

Alternative no.: 132216zz, 333174



### 132216ZZ Drive

Replacing: 1006209543, 1006209544, 1006209576, 1006209596, 1006209703, 1006209710, 1006209918, 1006209919

ID 12.00, OD 25.30, OD/housing 46.30, OD/teeth 25.30, Total length 58.55, Splines A 10, No./teeth 9, Drive type Steel, Rotation CCW, Key spline w/o, Lock w/o

Alternative no.: 132216, 333174





### 132273 Drive

**Replacing:** 2006209406, 2006209421, 2006209422, 2006209436, 2006209446, 200A209436, 9001083406, 9001083436  
**Servicing:** 0001359017, 0001359028, 0001359031, 0001359038, 0001359049, 0001359055, 0001359057, 0001359062  
 ID 14.30, OD 34.20, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333227



### 132308 Drive

**Manufacturer:** Remy  
**Replacing:** 2006382154, 2006383154  
**Servicing:** 0001410025, 0001410026, 0001410035, 0001410045, 0001410047, 0001410089, 0001410094, 0001415007  
 ID 10.00, OD 46.65, Total length 61.00, Shaft length 40.40, No./teeth 13, Key spline w/o, Lock w/o



### 132345 Drive

**Replacing:** 2006209427, 2006209457, 2006209459, 2006209931  
**Servicing:** 0001362312, 0001362316, 0001362319, 0001362321, 0001362331, 0001362332, 0001367037, 0001367075  
 ID 14.30, OD 32.00, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 10, Key spline w/o, Lock w/o  
 Alternative no.: 333510



### 132364 Drive

**Replacing:** 2006209086, 2006209095, 2006209215, 2006209229  
**Servicing:** 0001354080, 0001354082, 0001354091, 0001354092, 0001354093, 0001354098, 0001354099  
 ID 14.35, OD 34.35, OD/housing 54.00, Total length 90.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132365 Drive

**Replacing:** 2006209023, 2006209031, 2006209185, 2006209901  
**Servicing:** 0001354026, 0001354032  
 ID 14.25, OD 37.65, OD/housing 54.25, Total length 90.00, Splines A 3, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 132366 Drive

**Replacing:** 2006382062  
**Servicing:** 0001510001, 0001510002, 0001510008, 0001510009, 0001510017, 0001510021, 0001510022, 0001510024  
 ID 10.25, OD 40.75, Total length 75.10, Shaft length 51.00, No./teeth 11, Key spline w/o, Lock w/o



### 132367 Drive

**Replacing:** 2006209071, 2006209366, 2006209386, 2006209916  
**Servicing:** 0001358017, 0001358038, 0001358046, 0001358047  
 ID 14.25, OD 34.35, OD/housing 60.00, Total length 92.50, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132368 Drive

**Replacing:** 1986SE1710, 2006209463, 2006209474, F002G20278  
**Servicing:** 0001362048, 0001362049, 0001362084, 0001362100, 0001362330, 0001369020, 9000033005, 9000033007  
 ID 14.30, OD 39.80, OD/housing 54.00, Total length 73.85, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 132388 Drive

**Replacing:** 9003336206  
**Servicing:** 0001218007, 0001218023, 0001218125, 0001218126, 0001218158, 0001218175, 0001218725, 0001218758  
 ID 12.00, OD 29.00, OD/housing 54.25, Total length 62.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 132542 Drive

**Replacing:** 9003336274  
**Servicing:** 9000331406  
 ID 12.00, OD 34.50, OD/housing 53.60, Total length 56.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132697 Drive

**Replacing:** 2006209200, 2006209201, 2006209306, 2006209346  
**Servicing:** 0001359016, 0001359016  
 ID 14.00, OD 32.00, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o






### 132702 Drive

Replacing: 2006209452, 2006209495, 2006209532

Servicing: 0001362302, 0001362324, 0001367002, 0001367017, 0001367020, 0001367047, 0001367048, 0001367051

ID 14.25, OD 39.85, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333209 , 335235



### 132732 Drive

Replacing: 2006202002

Servicing: 40MT, 50MT, 0001421005, 0001421014, 0001421015, B001421020, B001421039, B001421040

ID 19.00, OD 46.20/1.819", OD/housing 46.00, Total length 118.00, Shaft length 19.00, No./teeth 12, Rotation CCW



### 132824 Drive

Replacing: 9002336203, 9003336275

Servicing: 0001218814, 0001218816, 9000332402, 9000331405, 9000331412, 9000331413, 9000331417, 9000331425

ID 12.00, OD 39.75, OD/housing 53.00, Total length 63.45, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 133230 Drive

Replacing: 1006209540

Servicing: 0001108025, 0001108146, B001111018, B001111423

ID 12.00, OD 29.50, OD/housing 47.40, Total length 58.50, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 133362 Drive

Replacing: 1006209534, 1006209547, 1006209549, 1006209554, 1006209559, 9001066242, 9001066247, 9001066248

Servicing: 0001108054, 0001108065, 0001108100, 0001108108, 0001108115, 0001108117

ID 12.00, OD 29.25, OD/housing 46.25, Total length 58.20, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333201 



### 133443 Drive

Replacing: 1006209418

Servicing: 0001311050, 0001311051, 0001311052, 0001311055, 0001314010, B001324002, B001324003, B001324004

ID 12.00, OD 34.00, OD/housing 46.00, Total length 64.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 133498 Drive

Replacing: 2006209475

Servicing: 0001362035, 0001362042, 0001362059, 0001362092, 0001362095, 0001363105, 0001363117, 0001363125

ID 14.16, OD 40.50, OD/housing 60.00, Total length 73.75, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 133596 Drive

Replacing: 2006209465

Servicing: 0001362700, 0001362701, 0001362702, 0001367700, B001812413, B001812450

ID 14.35, OD 35.50, OD/housing 60.00, Total length 74.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 133853 Drive

Replacing: 1006209422

Servicing: 0001311115, 0001314039, 0001314040, B001311075, B001315080, B001315170

ID 12.00, OD 29.30, OD/housing 47.00, Total length 63.75, Splines A 10, No./teeth 11, Rotation CCW, Key spline w/o, Lock w/o



### 133896# Drive

Replacing: 9001140114

Servicing: 9000141104

ID 12.00, OD 29.00, OD/housing 47.55, Total length 61.70, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 134282 Drive

Replacing: 2006209426

Servicing: 0001367014, 0001367023, 0001367028, 0001367029, 0001367082, 0001368019, 0001368020

ID 14.25, OD 34.40, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 335650



### 134371 Drive

Replacing: 1006209295, 1006209552, 1006209591, 1006209594, 1006209911, 1006209912, 2006209594

Servicing: 0001108076, 0001108077, 000110031, 000110032, 000110061, 000110062

ID 12.00, OD 27.65, OD/housing 52.30, Total length 79.50, Splines A 10, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o

Alternative no.: 134371z, 335482





### 134371Z Drive

**Replacing:** 1006209295, 1006209552, 1006209591, 1006209594, 1006209911, 1006209912, 2006209594  
**ID** 12.00, **OD** 27.65, **OD/housing** 52.30,  
**Total length** 79.50, **Splines A** 10, **No./teeth** 10,  
**Rotation** CCW, **Key spline** w/o, **Lock** w/o  
**Alternative no.:** 134371



### 134434 Drive

**Replacing:** 6033AD0422, 9003336290  
**Servicing:** 0001218817, 0001218818, 6033A1J05B, 9000331430, 9000331421, 9000331424, 9000331428  
**ID** 12.00, **OD** 34.75, **OD/housing** 54.00,  
**Total length** 60.45, **No./teeth** 9,  
**Rotation** CW, **Key spline** w/o, **Lock** w/o  
**Alternative no.:** 335500



### 134644 Drive

**Replacing:** 1006209460  
**Servicing:** 0001208427, 0001211241, 0001314044, B001211163, B001315179  
**ID** 12.08, **OD** 30.00, **OD/housing** 48.00,  
**Total length** 64.00, **Splines A** 10, **No./teeth** 9,  
**Rotation** CCW, **Key spline** w/o, **Lock** w/o



### 134925 Drive

**Replacing:** 9001336323  
**Servicing:** 9000334103, 9003334103  
**ID** 12.00, **OD** 27.80, **OD/housing** 46.85,  
**Total length** 63.00, **Splines A** 10, **No./teeth** 8,  
**Rotation** CW, **Key spline** w/o, **Lock** w/o



### 135085 Drive

**Replacing:** 1006209585, 1006209679, 1006209916, 1006210143, 1986SE1651, 1987MN0174  
**Servicing:** 0001107007, 0001107008, 0001107020, 0001107021  
**ID** 12.00, **OD** 25.25, **OD/housing** 46.50,  
**Total length** 55.45, **Splines A** 10, **No./teeth** 9,  
**Rotation** CCW, **Key spline** w/o, **Lock** w/o  
**Alternative no.:** 333203



### 135086 Drive

**Replacing:** 1006209579, 1006209917, 9001081010, F000AL1704  
**Servicing:** 0001107003, 0001107004, 0001107022, 0001107023  
**ID** 12.00, **OD** 27.75, **OD/housing** 46.40,  
**Total length** 77.00, **Splines A** 10, **No./teeth** 10,  
**Rotation** CCW, **Key spline** w/o, **Lock** w/o  
**Alternative no.:** 135086z



### 135086Z Drive

**Replacing:** 1006209579, 1006209917  
**ID** 12.00, **OD** 27.94, **OD/housing** 46.00,  
**Total length** 77.00, **Splines A** 10,  
**No./teeth** 10, **Drive type** Steel,  
**Rotation** CCW, **Key spline** w/o, **Lock** w/o  
**Alternative no.:** 135086



### 135116 Drive

**Replacing:** 9002336204  
**Servicing:** 0001218116, 0001218117, 0001218716, B001233180  
**ID** 12.00, **OD** 27.75, **OD/housing** 54.25,  
**Total length** 86.35, **Splines A** 10,  
**No./teeth** 10, **Rotation** CCW,  
**Key spline** w/o, **Lock** w/o  
**Alternative no.:** 135116z



### 135116Z Drive

**Replacing:** 9002336204  
**ID** 12.00, **OD** 27.50, **OD/housing** 54.25,  
**Total length** 86.00, **Splines A** 10,  
**No./teeth** 10, **Drive type** Steel,  
**Rotation** CCW, **Key spline** w/o, **Lock** w/o  
**Alternative no.:** 135116



### 135164 Drive

**Replacing:** 1006209550  
**Servicing:** 0001107058, 0001108050, 0001112034, B001111098, B001180041, 0001107057  
**ID** 12.00, **OD** 29.10, **OD/housing** 46.25,  
**Total length** 58.60, **Splines A** 10,  
**No./teeth** 9, **Rotation** CCW,  
**Key spline** w/o, **Lock** w/o



### 135251 Drive

**Replacing:** 2006209482  
**Servicing:** 0001362067, 0001362103, 0001362325, 0001362326, 0001362329, B001812248, B001812252, B001812437  
**ID** 14.40, **OD** 39.45, **OD/housing** 60.00,  
**Total length** 73.65, **Splines A** 10,  
**No./teeth** 10, **Rotation** CW,  
**Key spline** w/o, **Lock** w/o



### 135374 Drive

**Replacing:** 2006382060  
**Servicing:** 0001510020, 0001510025, 0001510031, 0001510032, 0001510037, 0001510038, 0001510041, B001510020  
**ID** 10.20, **OD** 34.50, **Total length** 75.00,  
**Shaft length** 51.50, **No./teeth** 9,  
**Key spline** w/o, **Lock** w/o





### 135464 Drive

Replacing: 1006209578, 1006209923  
Servicing: 0001108099, B001111273  
ID 12.00, OD 29.20, OD/housing 46.25,  
Total length 58.65, Splines A 10,  
No./teeth 11, Rotation CCW,  
Key spline w/o, Lock w/o



### 135664 Drive

Replacing: 2006209077, 2006209390, 2006209919  
Servicing: 0001358021, 0001358026  
ID 14.00, OD 39.80, OD/housing 60.00,  
Total length 92.50, Splines A 3,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 135713 Drive

Replacing: 1006209580  
Servicing: 0001109001, 0001109002,  
0001109006, 0001109007, B001116001  
ID 12.00, OD 25.25, OD/housing 46.25,  
Total length 55.40, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 135714 Drive

Replacing: 1006209551  
Servicing: 0001110033, B001117229  
ID 12.00, OD 33.00, OD/housing 46.00,  
Total length 58.60, Splines A 10,  
No./teeth 10, Rotation CCW,  
Key spline w/o, Lock w/o



### 135715Z Drive

Replacing: 1006209581  
ID 12.00, OD 25.45, OD/housing 53.45,  
Total length 58.50, Splines A 10,  
No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o



### 135716 Drive

Replacing: 1006209584, 1006209600,  
1006209686, 1006209993, 1006209997,  
1986SE1650, 9001081033  
Servicing: 0001106012, 0001106017,  
0001106022, 0001106023, 0001106024,  
0001107009  
ID 12.00, OD 25.20, OD/housing 46.20,  
Total length 53.50, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 333194 5★



### 135801 Drive

Replacing: 2006209111, 2006209305,  
2006209345, 2006209394  
Servicing: 0001359002, 0001359008,  
0001359020, 0001359034, 0001359045,  
0001359045, 0001359069  
ID 14.30, OD 40.00, OD/housing 60.00,  
Total length 91.00, Splines A 10,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o



### 135985 Drive

Replacing: 9001336240, 9001690067  
Servicing: 0001112032, 9000692064, 9000333121  
ID 12.00, OD 28.00, OD/housing 46.00,  
Total length 59.35, Splines A 10,  
No./teeth 8, Rotation CW,  
Key spline w/o, Lock w/o



### 135989 Drive

Replacing: 2006209233, 2006209239, 2006209339  
Servicing: 0001362023, 0001362025,  
B001812089  
ID 14.45, OD 34.00, OD/housing 60.25,  
Total length 74.00, Splines A 10, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 136285 Drive

Replacing: 2006209118, 2006209122,  
2006209303, 2006209343  
Servicing: 0001359021, 0001360015  
ID 14.30, OD 35.00, OD/housing 60.00,  
Total length 90.75, Splines A 10, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 136425 Drive

Replacing: 9002336200, 9002336205  
Servicing: 0001218104, 0001218105,  
0001218119, 0001218126, 0001218127,  
0001218128, 0001218728, B001233039  
ID 12.00, OD 26.80, OD/housing 54.00,  
Total length 62.00, Splines A 10,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o



### 136472 5★ Drive

Manufacturer: Bosch  
Replacing: 1006209533  
Servicing: 0001110007, 0001110008,  
B001117011  
ID 12.00, OD 25.35, OD/housing 48.45,  
Total length 58.65, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o





### 136509 Drive

**Replacing:** 2006209458, 2006209543, 2006209544  
**Servicing:** 0001367072, 0001368069, 0001368083, 0001368083, 0001369007, 0001369019, 0001369025  
 ID 14.35, OD 36.25, OD/housing 59.20, Total length 91.45, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 136614 Drive

**Replacing:** 1006209592, 1006209941, 1986SE1758, D001965593  
**Servicing:** 0001107085, 0001110071, 0001110072, B001117153, B001117157, B001117161  
 ID 12.00, OD 29.25, OD/housing 48.85, Total length 58.25, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333544



### 136723 Drive

**Replacing:** 1006209521, 1006209535  
**Servicing:** 0001106001, 0001106002, 0001106004, 0001108005, 0001108006, 0001108021, 0001108147, 0001108203  
 ID 12.00, OD 25.20, OD/housing 46.40, Total length 58.65, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o  
 Alternative no.: 335522



### 136743 Drive

**Replacing:** 1987MN0177, 6033AD2012, 9002336226, 9002336227, 9003336227  
**Servicing:** 0001218168, 0001218768, 0001218820, 0001219012, 0001219012, 9000331432  
 ID 12.00, OD 36.25, OD/housing 54.45, Total length 63.65, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 335534



### 136787 Drive

**Replacing:** 9002336223, 9003336223  
**Servicing:** 0001218162, 0001218165, 0001218765  
 ID 12.00, OD 27.45, OD/housing 54.20, Total length 60.85, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 136854 Drive

**Replacing:** 1006209621, 1006209648, 1006209699, 1986SE1631  
**Servicing:** 0001124001, 0001124002, 0001124005  
 ID 11.00, OD 27.85, OD/housing 54.00, Total length 80.50, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o  
 Dust cover kit: HC-CARGO 230091.  
 Alternative no.: 136854zz, 333177



### 136854ZZ Drive

**Replacing:** 1006209621, 1006209648, 1006209699, 1006209880  
 ID 11.00, OD 27.85, OD/housing 54.40, OD/teeth 27.85, Total length 80.50, No./teeth 10, Drive type Steel, Rotation CCW, Key spline w/o, Lock w/o  
 Alternative no.: 136854, 333177



### 136888 Drive

**Replacing:** 1006209561  
**Servicing:** 0001108068, 0001108069, 0001108070, 0001108103, 0001108104, 0001108105, 0001108123, 0001108134  
 ID 11.00, OD 25.35, OD/housing 46.25, Total length 58.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 136912 Drive

**Replacing:** 1006209474  
**Servicing:** 0001314031, B001315132  
 ID 12.00, OD 40.35, OD/housing 47.00, Total length 63.85, Splines A 10, No./teeth 13, Rotation CCW, Key spline w/o, Lock w/o



### 136925 Drive

**Replacing:** 1006209564  
**Servicing:** 0001108075, 0001108091, 0001108092, 0001108151, 0001108154, B001111266, B001111269, B001111306  
 ID 12.00, OD 25.30, OD/housing 46.35, Total length 58.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 136985 Drive

**Replacing:** 2006209488, 2006209489  
**Servicing:** 0001362094, 0001362099, 0001366005, 0001366006  
 ID 14.30, OD 34.30, OD/housing 60.00, Total length 74.15, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 137170 Drive

**Replacing:** 1006209574, 1006209626, 1006209927  
**Servicing:** 0001110059, 0001110073, 0001110081, B001117274, B001117272  
 ID 12.00, OD 28.00, OD/housing 47.75, Total length 108.90, Splines A 10, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o





### 137171 Drive

Replacing: 9002336218

Servicing: 0001218152, B001233216

ID 12.00, OD 36.65, OD/housing 57.65,  
Total length 62.75, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 137199 Drive

Replacing: 2006381010, 2006381410

Servicing: 0001401007, 0001401025,  
0001401049, 0001401051, 0001401061,  
0001402002, 0001402008, 0001402018

ID 14.60, OD 34.25, Total length 120.00,  
Splines A 3, No./teeth 9,  
Key spline w/o, Lock w/o  
Bronze.




### 137231 Drive

Replacing: 2006209540, 2006209542

Servicing: 0001364400, 0001364402,  
0001368313, 0001368318

ID 14.30, OD 41.50, OD/housing 60.00,  
Total length 90.45, Splines A 10,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o

Alternative no.: 333232 



### 137265 Drive

Replacing: 1006209587, 1006209933

Servicing: 0001112017, B001180054

ID 12.00, OD 26.90, OD/housing 47.00,  
Total length 54.00, Splines A 10,  
No./teeth 8, Rotation CW,  
Key spline w/o, Lock w/o



### 137275 Drive

Replacing: 9002336230

Servicing: 0001218172, 0001218772

ID 12.00, OD 35.35, OD/housing 54.40,  
Total length 64.00, Splines A 10,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 137279 Drive

Replacing: 1006209482, 1006209914

Servicing: 0001314047, 0001316012,  
0001316013, B001328030, B001315186

ID 12.00, OD 33.00, OD/housing 54.40,  
Total length 75.15, Splines A 10,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o



### 137299 Drive

Replacing: 1003209432, 1006209082, 1006209432

Servicing: 0001315002, B001317004

ID 12.00, OD 29.75, OD/housing 47.75,  
Total length 64.10, Splines A 10,  
No./teeth 11, Rotation CCW,  
Key spline w/o, Lock w/o



### 137310 Drive

Replacing: 9003336292

Servicing: 9000331420

ID 12.00, OD 32.00, OD/housing 53.65,  
Total length 58.00, Splines A 10,  
No./teeth 12, Rotation CW,  
Key spline w/o, Lock w/o



### 137480 Drive

Replacing: 1006209628, 1006209649,  
1006209758, 1986SE1633

Servicing: 0001123003, 0001124003, 0001124003,  
0001124004, 0001124004, 0001124013

ID 11.20, OD 25.35, OD/housing 53.70,  
Total length 83.65, No./teeth 9,  
Rotation CCW, Key spline w/o, Lock w/o  
Dust cover kit: HC-CARGO 230338.  
Alternative no.: 137480zz, 333179



### 137480ZZ Drive

Replacing: 1006209628, 1006209649, 1006209758

ID 11.00, OD 25.40, OD/housing 54.50,  
OD/teeth 25.40, Total length 81.45,  
No./teeth 9, Drive type Steel,  
Rotation CCW, Key spline w/o, Lock w/o  
Alternative no.: 137480, 333179



### 137481 Drive

Replacing: 1006209618, 1006209638,  
1006209667, 1006209672, 1006209677,  
1006209690, 1006209787, 1006209815

Servicing: 0001107037, 0001107048,  
0001107054, 0001107055

ID 12.00, OD 25.30, OD/housing 46.90,  
Total length 51.00, Splines A 10, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 137481z, 333178



### 137481Z Drive

Replacing: 1006209618, 1006209638,  
1006209672, 1006209677, 1006209690,  
1006209815, 1006209937, 1986SE1623

ID 12.00, OD 25.30, OD/housing 46.25,  
OD/teeth 25.30, Total length 50.60,  
Splines A 10, No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 137481, 333178





### 137483 Drive

**Replacing:** 1006209624, 1006209633, 1006209692, 1006209696, 1006209706, 1006209715, 1006209777, 1006209944  
**Servicing:** 0001106011, 0001106014, 0001106015, 0001107047, 0001107063  
 ID 12.00, OD 25.00, OD/housing 46.35, Total length 49.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333191



### 137888 Drive

**Replacing:** 1006209634, 1006209660, 1006209968, 1006209975, 1006209983, 1986SE1628  
**Servicing:** 0001107062, 0001108157, 0001108169, 0001108190, 0001108196, 0001108230, 0001108231  
 ID 12.00, OD 28.85, OD/housing 46.40, Total length 51.25, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333192



### 137889 Drive

**Replacing:** 1006209637, 1986SE1625  
**Servicing:** 0001109015, 0001109052, 0001109055, 0001109062, 0001109068, 0001109050  
 ID 12.00, OD 27.80, OD/housing 54.25, Total length 57.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333199



### 137890 Drive

**Replacing:** 1006209636, 1006209643, 1006209759, 1006209946  
**Servicing:** 0001124007, 0001124008, 0001124011, 0001124012  
 ID 11.20, OD 25.40, OD/housing 53.60, Total length 93.50, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o  
 Kit 230338 also needed to install the drive  
 Alternative no.: 333181



### 137891 Drive

**Replacing:** 1006209652  
**Servicing:** 0001107059, 0001107082  
 ID 12.00, OD 49.45, OD/housing 53.40, Total length 48.65, Splines A 10, No./teeth 21, Rotation CW, Key spline w/o, Lock w/o



### 137981 Drive

**Replacing:** 1006209629, 1006209929  
**Servicing:** 0001107043, 0001107087, 0001113010, 0001113017  
 ID 12.00, OD 26.70, OD/housing 46.15, Total length 50.40, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333216



### 138252 Drive

**Manufacturer:** Bosch  
**Replacing:** 1006209602  
**Servicing:** 0001107024, 0001115042, B001110080, 0001111010, 0001115038  
 ID 12.00, OD 29.60, OD/housing 47.70, Total length 53.45, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 138308 Drive

**Replacing:** 2006202010, 2006202011, 2008109203  
**Servicing:** 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009  
 ID 15.90, OD 41.25, OD/housing 58.00, Total length 118.00, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 138308zz, 335502



### 138308ZZ Drive

**Replacing:** 2006202010, 2006202011, 2008109203  
**Servicing:** 0001371004, 0001371006, 0001371007, 0001371008, 0001372001, 0001372002, 0001372005, 0001372006  
 ID 15.90, OD 41.50, OD/housing 58.00, OD/teeth 41.50, Total length 118.00, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 138308



### 138316 Drive

**Replacing:** 2006209432  
**Servicing:** 0001367054, B001816187  
 ID 14.30, OD 40.00, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 138322 Drive

**Replacing:** 1006209642  
**Servicing:** 0001109014, 0001115001  
 ID 12.00, OD 27.70, OD/housing 53.00, Total length 50.50, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333214





### 138332 Drive

Replacing: 1987MN0179, 9001453601

Servicing: 0001371001, 9000453064, 9000453065, 9000453067, 9000453068, B001850025, B001851012  
ID 15.85, OD 46.15, OD/housing 58.00, Total length 118.30, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o



### 138874 Drive

Replacing: 1006209588, 1006209932

Servicing: 0001112018, B001180055  
ID 12.00, OD 27.00, OD/housing 46.50, Total length 69.60, Splines A 10, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o



### 138875 Drive

Replacing: 1006209641, 1006209762, F000AL1186, F000AL1681

Servicing: 0001121001, 0001121002, 0001121003, 0001121030, 0001121031  
ID 11.10, OD 25.20, OD/housing 47.65, Total length 82.85, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 138875z, 333183



### 138875Z Drive

Replacing: 1006209641, 1006209762, F000AL1186, F000AL1681

ID 11.00, OD 25.30, OD/housing 46.30, OD/teeth 25.30, Total length 81.80, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 138875, 333183



### 138946 Drive

Replacing: 1006209420

Servicing: 0001311056, 0001314016, B001315028, B001324012  
ID 12.00, OD 34.40, OD/housing 47.00, Total length 64.00, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 138948 Drive

Replacing: 9002336208

Servicing: 0001218809, 9000331419  
ID 12.00, OD 25.00, OD/housing 54.35, Total length 65.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 139013 Drive

Replacing: 1006209605, 1006209606, 1006209627, 1006209928

Servicing: 0001108137, 0001108144, 0001108156, 0001109040, 0001110090, 0001110120, B001117613, B001116118  
ID 12.00, OD 25.25, OD/housing 46.50, Total length 59.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 139056 Drive

Replacing: 2006209554, 6033AD0442, 6033AD0462, 6033AD3006, 6033AD3108, 6033AD3111, 6033AD3244, 6033AD3850

Servicing: 0001230001, 0001230006, 0001230012, 0001230013, 0001230014, 0001230027  
ID 14.30, OD 34.50, OD/housing 59.00, Total length 82.25, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 139056z



### 139056Z Drive

Replacing: 6033AD0442, 6033AD0462, 6033AD3006, 6033AD3108, 6033AD3111, 6033AD3244, 6033AD3850, 6033AD4034

ID 14.45, OD 34.80, OD/housing 60.00, Total length 82.50, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 139056



### 139336 Drive

Replacing: 1006209555

Servicing: 0001317024, B001329044  
ID 12.00, OD 29.00, OD/housing 46.30, Total length 64.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 139458 Drive

Replacing: 9002336225

Servicing: 0001218166, 0001218766  
ID 11.75, OD 37.00, OD/housing 54.00, Total length 58.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 139503 Drive

Replacing: 1006209073, 1006209107

Servicing: 0001214002, 0001214002  
ID 12.00, OD 30.50, OD/housing 48.00, Total length 68.00, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o





### 139558 Drive

Replacing: 2006209491

Servicing: 0001362052, 0001367016, 0001367064, 0001367065, 9000143410, 9000143600, 9000143602, 9000143603

ID 14.40, OD 39.80, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 139850 Drive

Replacing: 1006209553, 1006209558, 1006209565, 1006209583, 1006209910, 1006209922

Servicing: 0001107005, 0001107006, 0001108059, 0001108060, 0001108076, 0001108077

ID 12.00, OD 27.70, OD/housing 46.80, Total length 79.50, Splines A 10, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o



### 139954 Drive

Replacing: 1006209607, 1006209670, 1006209675, 1006210150, 1986SE1622, 1987MN0180, F000AL1200, F000AL1250

Servicing: 0001106019, 0001107030, 0001107066, 0001107075, 0001107078

ID 12.00, OD 29.25, OD/housing 46.85, Total length 49.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333208



### 230144 Drive

Replacing: 2006209477, 2006209501, 2006209503

Servicing: 0001363106, 0001363119, 0001363120, 0001363123, B001813206, B001813221, B001813239

ID 12.00, OD 27.45, OD/housing 53.40, Total length 71.65, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 230144z



### 230144Z Drive

Replacing: 2006209477, 2006209501, 2006209503

ID 12.00, OD 27.45, OD/housing 54.00, Total length 70.65, Splines A 10, No./teeth 10, Drive type Steel,

Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 230144



### 230145 Drive

Replacing: 2006209535

Servicing: 0001367025, 0001368004, B001816061, B001816062

ID 14.30, OD 39.75, OD/housing 60.00, Total length 90.50, Splines A 10,

No./teeth 11, Rotation CW,

Key spline w/o, Lock w/o



### 230159 Drive

Replacing: 1006209083, 1006209433

Servicing: 0001314003, B001315015

ID 12.00, OD 34.00, OD/housing 47.70,

Total length 64.15, Splines A 10,

No./teeth 9, Rotation CCW,

Key spline w/o, Lock w/o



### 230197 Drive

Replacing: 1006209419

Servicing: 0001311054, B001324007

ID 12.00, OD 46.85, OD/housing 53.75,

Total length 63.70, Splines A 10,

No./teeth 13, Rotation CW,

Key spline w/o, Lock w/o



### 230336 Drive

Replacing: 9002336219, 9003336289

Servicing: 0001218118, 0001218176, 0001218776, 9000331201, 9000331203, 9000331415, B001233200

ID 12.00, OD 35.00, OD/housing 58.00, Total length 62.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333511



### 230339 Drive

Replacing: 1006209657, 1006209757, 1007010105

Servicing: 0001121006, 0001121007, 0001121011, 0001121028

ID 11.00, OD 25.35, OD/housing 46.20,

Total length 82.25, No./teeth 9,

Rotation CCW, Key spline w/o, Lock w/o

Dust cover kit: HC-CARGO 230338.

Alternative no.: 333200 , 335405



### 230340 Drive

Replacing: 1006209680, F000AL1100, F00MAL1100

Servicing: 0001121008, 0001121009, 0001121010, 0001121011, 0001121016, 0001121017, 0001121018, 0001121019

ID 11.20, OD 27.75, OD/housing 46.35,

Total length 82.85, No./teeth 10,

Rotation CCW, Key spline w/o, Lock w/o

Alternative no.: 333215



### 230349 Drive

Replacing: 1006209620

Servicing: 0001109012, 0001109047, 0001354200, 0001109032

ID 12.00, OD 34.00, OD/housing 47.75,

Total length 58.80, Splines A 10, No./teeth 9,

Rotation CCW, Key spline w/o, Lock w/o





### 230350 Drive

Replacing: 1006209622

Servicing: 0001110110

ID 12.00, OD 39.80, OD/housing 53.65,  
Total length 59.00, Splines A 10, No./teeth 13,  
Rotation CW, Key spline w/o, Lock w/o



### 230351 Drive

Replacing: 9002336216

Servicing: 0001218143, 0001218144, 0001218171,  
0001218771, B001233189, B001233194

ID 12.00, OD 29.60, OD/housing 53.70,  
Total length 64.00, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 230352 Drive

Replacing: 1006209646, 1986SE1759

Servicing: 0001109026, 0001109010

ID 12.00, OD 29.00, OD/housing 54.00,  
Total length 51.50, Splines A 10,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o

Alternative no.: 333553 5★



### 230546 Drive

Replacing: 9002336224, 9002336287, 9003336287

Servicing: 0001218153, 0001218157,  
0001218757, 9000331414

ID 12.00, OD 28.80, OD/housing 54.50,  
Total length 61.50, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 230789 Drive

Replacing: 2006209468

Servicing: 0001363108, 0001366025,  
B001811056, B001813212

ID 14.30, OD 33.40, OD/housing 60.00,  
Total length 72.90, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 230828 Drive

Replacing: 1006209645, 1006209802,  
1006209950, 1006209987, 1986SE1765

Servicing: 0001109025, 0001109030,  
0001109033, 0001109035, 0001109045,  
0001109200

ID 12.00, OD 29.25, OD/housing 54.35,  
Total length 51.00, Splines A 10, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333571 5★



### 230834 Drive

Replacing: 1006209671

Servicing: 0001108180, 0001108182,  
0001108186, 0001108185

ID 12.00, OD 29.00, OD/housing 50.00,  
Total length 50.50, Splines A 10,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o

Alternative no.: 230834z, 333180



### 230834Z Drive

Replacing: 1006209671

ID 12.00, OD 29.35, OD/housing 50.10,  
OD/teeth 29.35, Total length 51.50,  
Splines A 10, No./teeth 11, Rotation CW,  
Drive type Steel, Key spline w/o, Lock w/o

Alternative no.: 230834, 333180



### 230835 Drive

Replacing: 1006209631, 1006209635, 1006209678,  
1986SE1624, F000AL1209, F005M10053

Servicing: 0001108183, 0001108217,  
0001108218, 0001109036, 0001109250,  
0001110112, 0001115001

ID 12.00, OD 27.75, OD/housing 46.30,  
Total length 50.00, Splines A 10,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o

Alternative no.: 333189 5★



### 230961 Drive

Replacing: 2006382178, 2006382182, 2006382188

Servicing: 0001410064, 0001410097,  
0001411004, 0001411019, 0001415023,  
0001416029

ID 10.20, OD 39.10, Total length 61.00,  
Shaft length 39.85, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 231009 Drive

Replacing: 1006209650

Servicing: 0001109029

ID 12.00, OD 29.30, OD/housing 46.00,  
Total length 51.00, Splines A 10,  
No./teeth 9, Rotation CCW,  
Key spline w/o, Lock w/o



### 231585 Drive

Replacing: 2006209033, 2006209187, 2006209903

Servicing: 0001354009

ID 14.45, OD 46.80, OD/housing 59.00,  
Total length 90.40, Splines A 3,  
No./teeth 13, Rotation CW,  
Key spline w/o, Lock w/o





**231756** Drive  
 Replacing: 6033AD0184, 6033AD0200, 6033AD3110, 6033AD3334, 9002336237  
 Servicing: 0001230004, 0001230008, 0001231001, 0001231009, 0001231012, 0001231016, 0001231026, 0001231027  
 ID 14.35, OD 39.55, OD/housing 62.20, Total length 83.80, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333185 , 335558



**231884** Drive  
 Replacing: 1006209050, 1006209054, 1006209120, 2006209282  
 Servicing: 0001212001, 0001215001, 0001215002, B001223001  
 OD 25.30, OD/housing 47.75, Total length 98.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**231885** Drive  
 Replacing: 2006209434  
 Servicing: 0001367061, B001816377  
 ID 14.30, OD 29.20, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



**231896** Drive  
 Replacing: 1006209704, 1986SE1762  
 Servicing: 0001116001  
 ID 12.00, OD 25.20, OD/housing 46.30, Total length 46.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333210



**231897** Drive  
 Replacing: 1006209601, 1006209924  
 Servicing: 0001109008, 0001109043, B001116015  
 ID 12.00, OD 29.50, OD/housing 53.65, Total length 70.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**231898** Drive  
 Replacing: 6033AD0061  
 Servicing: 0001223002  
 ID 12.00, OD 35.35, OD/housing 54.45, Total length 64.25, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333509



**232362** Drive  
 Replacing: 9002336233  
 Servicing: 0001218819, 9000331431  
 ID 12.00, OD 34.00, OD/housing 60.00, Total length 68.75, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**232481** Drive  
 Replacing: 1006209542  
 Servicing: 0001110018, B001117046  
 ID 12.00, OD 30.00, OD/housing 48.00, Total length 58.00, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



**232623** Drive  
 Replacing: 1006209681, 1006209943, 1986SE1645  
 Servicing: 0001125016, 0001125017, 0001125018, 0001125019, 0001125046, 0001125047, 0001125048  
 ID 12.00, OD 27.94, OD/housing 54.50, Total length 103.50, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o  
 Alternative no.: 333564 , 335236



**232632** Drive  
 Replacing: 2006202000  
 Servicing: 0001420001, 0001420003, 0001420004, 0001420005, 0001420009, 0001420012, 0001420013, 0001420014  
 ID 19.00, OD 46.30, OD/housing 58.00, Total length 118.45, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333858



**233719** Drive  
 Replacing: 6033AD0414  
 Servicing: 0001223013  
 ID 11.75, OD 36.00, OD/housing 53.00, Total length 58.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**233720** Drive  
 Manufacturer: Bosch  
 Replacing: 1006209653, 1006209751, 1006209947, 1986SE1626  
 Servicing: 0001109048, 0001109061, 0001109063, 0001109252, 0001109256, 0001109264, 0001109293, 0001109439  
 ID 12.00, OD 25.35, OD/housing 53.50, Total length 50.80, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 335810





### 233722 Drive

Replacing: 6033AD0129, 6033AD4243

Servicing: 0001231004, 0001263012

ID 14.30, OD 46.25, OD/housing 59.50,  
Total length 84.35, Splines A 10, No./teeth 12,  
Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333500



### 233723 Drive

Replacing: 6033AD0267, 6033AD3106

Servicing: 0001230002, 0001230002

ID 14.30, OD 39.80, OD/housing 60.00,  
Total length 83.40, Splines A 10,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 233828 Drive

Replacing: 1006209656, 1986SE1627

Servicing: 0001109028, 0001109031,  
0001109419, 0001109420, 000110132,  
F000AL0108, 0001109016, 0001109019

ID 12.00, OD 34.40, OD/housing 50.00,  
Total length 50.60, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o

Alternative no.: 333193



### 233829 Drive

Replacing: 1006209669

Servicing: 0001109034

ID 12.00, OD 38.85, OD/housing 53.25,  
Total length 51.50, Splines A 10,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o

Alternative no.: 233829z, 335554



### 233829Z Drive

Replacing: 1006209669

ID 12.00, OD 38.75, OD/housing 54.15,  
OD/teeth 38.75, Total length 51.00,  
Splines A 10, No./teeth 10,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o

Alternative no.: 233829



### 233831 Drive

Replacing: 1006209630, 1006209647

Servicing: 0001107046, 0001107107,  
0001108168, 0001111005, 0001107102

ID 12.00, OD 35.30, OD/housing 48.85,  
Total length 48.60, Splines A 10,  
No./teeth 11, Rotation CCW,  
Key spline w/o, Lock w/o



### 233835 Drive

Replacing: 1987MN0186, 6033AD0077, 6033AD1002

Servicing: 0001223003, 0001223007,  
0001223024

ID 12.00, OD 35.00, OD/housing 54.50,  
Total length 64.20, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 335233



### 233836 Drive

Replacing: 6033AD0004

Servicing: 0001223001

ID 12.00, OD 29.00, OD/housing 57.35,  
Total length 59.25, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333593



### 233837 Drive

Replacing: 1987MN0183, 6033AD0148,  
6033AD3120, 6033AD3130

Servicing: 0001230007, 0001230009,  
0001230010, 0001230023, 0001231010

ID 14.30, OD 34.35, OD/housing 60.00,  
Total length 84.00, Splines A 10, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 233838 Drive

Replacing: 1006209632, 1006209930

Servicing: 0001112036

ID 12.00, OD 26.00, OD/housing 47.85,  
Total length 59.00, Splines A 10,  
No./teeth 9, Rotation CCW,  
Key spline w/o, Lock w/o



### 233841 Drive

Replacing: 1006209753

Servicing: 0001106016

ID 12.00, OD 25.65, OD/housing 47.65,  
Total length 68.70, Splines A 10,  
No./teeth 9, Rotation CCW,  
Key spline w/o, Lock w/o



### 233842 Drive

Replacing: 1006209466

Servicing: 0001314025, 0001314032,  
0001314043, 0001314045, B001315122,  
B001315177, B001315181

ID 12.00, OD 29.60, OD/housing 48.00,  
Total length 63.65, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o





**233947** Drive  
 Replacing: 6033AD1062  
 Servicing: 0001223016, 0001223021  
 ID 12.00, OD 34.50, OD/housing 54.40,  
 Total length 64.00, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333212



**233948** Drive  
 Replacing: 6033AD0250  
 Servicing: 0001231013, 0001231036,  
 0001231040, 0001231041  
 ID 14.35, OD 41.50, OD/housing 60.00,  
 Total length 83.00, Splines A 10,  
 No./teeth 11, Rotation CW,  
 Key spline w/o, Lock w/o



**234065** Drive  
 Replacing: 2002336232, 9002336232  
 Servicing: 0001218173, 0001218173  
 ID 12.10, OD 25.30, OD/housing 53.00,  
 Total length 58.30, Splines A 10,  
 No./teeth 9, Rotation CW,  
 Key spline w/o, Lock w/o



**234087** Drive  
 Replacing: 6033AD0243, 6033AD0306,  
 9006033136, 9006033306  
 Servicing: 0001231008, 0001231029, 0001231035  
 ID 14.30, OD 37.70, OD/housing 60.00,  
 Total length 85.00, Splines A 10,  
 No./teeth 10, Rotation CW,  
 Key spline w/o, Lock w/o



**234124** Drive  
 Replacing: 1006209804, 1986SE1638  
 Servicing: 0001107407, 0001107410,  
 0001107417, 0001107418, 0001107499,  
 0001107500, 0001107501, 0001107502  
 ID 11.10, OD 26.80, OD/housing 45.35,  
 Total length 48.50, No./teeth 10,  
 Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 234124z, 333171



**234124Z** Drive  
 Replacing: 1006209804  
 ID 11.00, OD 26.80, OD/housing 46.25,  
 OD/teeth 26.80, Total length 48.10,  
 No./teeth 10, Drive type Steel,  
 Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333171 , 234124



**234158** Drive  
 Replacing: 1006209666, 1006209791, 1006209936  
 Servicing: 0001109021, 0001109022,  
 0001109066, 0001109067, 0001109258,  
 0001109259, 0001109260, 0001109261  
 ID 12.00, OD 32.70, OD/housing 53.50,  
 Total length 61.40, No./teeth 10,  
 Rotation CW, Key spline w/o, Lock w/o



**234168** Drive  
 Replacing: 6033AD0218  
 Servicing: 0001223005  
 ID 12.00, OD 27.80, OD/housing 53.00,  
 Total length 60.65, No./teeth 10,  
 Rotation CW, Key spline w/o, Lock w/o



**234242** Drive  
 Replacing: 1006209661  
 Servicing: 0001107102, 0001108197,  
 0001108205, 0001108213, 0001108214,  
 0001108222, 0001108223, 0001115005  
 ID 12.00, OD 27.80, OD/housing 50.00,  
 Total length 71.00, No./teeth 10,  
 Rotation CW, Key spline w/o, Lock w/  
 Alternative no.: 333224



**234247** Drive  
 Manufacturer: Bosch  
 Replacing: 1006209793, 1006209801, 1006209807,  
 1006209846, 1986SE1536, 1986SE1635, 1986SE1639  
 Servicing: 0001107401, 0001107402,  
 0001107403, 0001107404, 0001107405  
 ID 11.00, OD 25.50, OD/housing 45.00,  
 Total length 48.00, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 234247z



**234277** Drive  
 Replacing: 1006209801, 1006209807, 1006209846,  
 1986SE1536, 1986SE1635, 1986SE1639  
 ID 11.00, OD 25.20, OD/housing 46.25,  
 OD/teeth 25.20, Total length 48.35,  
 No./teeth 9, Drive type Steel,  
 Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 234247



**234271** Drive  
 Replacing: 1006209639  
 Servicing: 0001109017  
 ID 12.00, OD 35.75, OD/housing 53.00,  
 Total length 59.00, Splines A 10,  
 No./teeth 11, Rotation CW,  
 Key spline w/o, Lock w/o





### 234293 Drive

Replacing: 1006209655, 1006209760, 1986SE1634

Servicing: 0001125055, 0001125056, 0001125501, 0001125502, 0001125503

ID 13.30, OD 26.00, OD/housing 54.40, Total length 81.00, No./teeth 9, Rotation CW, Drive type Steel, Key spline w/o, Lock w/o

Alternative no.: 333211



### 234403 Drive

Replacing: 1987MN0171, 9003336282

Servicing: 0001218161, 0001218808, 9000218161, 9000331418

ID 12.00, OD 34.35, OD/housing 54.35, Total length 61.80, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 234534 Drive

Replacing: 1006209440

Servicing: 0001314008, B001315050

ID 12.00, OD 29.00, OD/housing 47.15, Total length 64.00, Splines A 10, No./teeth 9, Rotation CCW



### 234535 Drive

Replacing: 1006209812

Servicing: 0001108400, F004A94000, F004A94001, 0001108471

ID 10.90, OD 27.80, OD/housing 45.00, Total length 47.80, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333195



### 234785 Drive

Replacing: 1006209806, 1986SE1763

Servicing: 0001120400, 0001120401, 0001120404, 0001120405, 0001120406, 0001120407, 0001120408, 0001120409

ID 12.00, OD 27.94, OD/housing 53.50, Total length 83.10, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o

Alternative no.: 333551



### 234807 Drive

Replacing: 1006209481, 1006209925

Servicing: 0001314046, 0001314049, 0001316011, B001315184, B001328029

ID 12.00, OD 26.00, OD/housing 53.65, Total length 75.00, Splines A 10, No./teeth 9, Rotation CW



### 234862 Drive

Replacing: 9002336238

Servicing: 0001219014

ID 12.00, OD 34.50, OD/housing 53.35, Total length 62.00, Splines A 10, No./teeth 9, Rotation CW



### 234902 Drive

Replacing: 1006209779, 1006209792, 1006209959, 1006210144

Servicing: 0001108202, 0001108224, 0001108234, 0001108235, 0001108239, 0001108240, 0001109204

ID 12.00, OD 29.00, OD/housing 47.65, Total length 51.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333579



### 234946 Drive

Manufacturer: Bosch

Replacing: 1006209805, 1006209808, 1006209814, 1006209958

Servicing: 0001107411, 0001107411, 0001107425, 0001107425, 0001107490, 0001107491

ID 11.05, OD 29.60, OD/housing 45.15, Total length 48.00, No./teeth 9, Rotation CW

Alternative no.: 335815



### 234971 Drive

Replacing: 2006209461

Servicing: 0001368077, B001816486

ID 14.25, OD 35.80, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333861



### 235200 Drive

Replacing: 1006209714

Servicing: 0001116006

ID 12.00, OD 27.00, OD/housing 47.00, Total length 48.10, Splines A 10, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333872



### 235290 Drive

Replacing: 1006209794, 1006209810, 1006209820

Servicing: 0001107415, 0001107431, 0001107432, 0001107438, 0001107439, 6004AA0027

ID 11.00, OD 27.15, OD/housing 47.25, Total length 48.00, Splines A 10, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o





**235425** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209768  
 Servicing: 0001106018, 000110608, 0001106026  
 ID 12.00, OD 26.00, OD/housing 47.50,  
 Total length 56.00, No./teeth 9, Rotation CW



**235440** Drive  
 Replacing: 1006209695, 1986SE1630  
 Servicing: 0001107088, 9001107088, F000AL0106, 0001107086, F000AL0144  
 ID 12.00, OD 34.90, OD/housing 34.50,  
 Total length 50.00, Splines A 10,  
 No./teeth 11, Rotation CW  
 Alternative no.: 235440z, 333186



**235440Z** Drive  
 Replacing: 1006209695  
 ID 12.00, OD 34.90, OD/housing 46.25,  
 OD/teeth 34.90, Total length 49.00,  
 No./teeth 11, Drive type Steel,  
 Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333186 5★, 235440



**235445** Drive  
 Replacing: 2006209089  
 Servicing: 0001354094  
 ID 14.40, OD 37.95, OD/housing 53.75,  
 Total length 91.00, Splines A 10, No./teeth 10,  
 Rotation CW, Key spline w/o, Lock w/o



**235701** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 2006209536, 2006209930  
 Servicing: 0001367074, 0001367300, 0001367301, 0001367303, 0001368300  
 ID 14.25, OD 34.23, OD/housing 59.77,  
 Total length 91.15, Splines A 10,  
 No./teeth 9, Rotation CW,  
 Key spline w/o, Lock w/  
 Alternative no.: 335631



**235798** Drive  
 Replacing: 1006209862, 1006210100, 1006210171  
 Servicing: 0001137001, 0001137002, 0001137011, 0001137012  
 ID 12.00, OD 25.50, OD/housing 48.10,  
 Total length 52.00, Splines A 10, No./teeth 9,  
 Drive type Steel, Rotation CW



**235799** Drive  
 Replacing: 6033AD0099  
 Servicing: 0001230005  
 ID 14.30, OD 60.00, OD/teeth 35.00,  
 Total length 82.00, Splines A 10, No./teeth 11,  
 Drive type Steel, Rotation CW



**235810** Drive  
 Replacing: 2006209245, 2006209335  
 Servicing: 0001362009, 0001362011, 0001362022  
 ID 14.30, OD 40.80, OD/housing 60.20,  
 Total length 73.90, Splines A 10, No./teeth 11,  
 Drive type Steel, Rotation CW



**235839** Drive  
 Replacing: 6033AD0070  
 Servicing: 0001218821, 0001218822, 6033AB1J00, 9000331433  
 ID 12.00, OD 35.00, OD/housing 54.25,  
 Total length 62.40, Splines A 10, No./teeth 9,  
 Drive type Steel, Rotation CW  
 Alternative no.: 335488 5★



**235849** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 6033AD3336  
 Servicing: F002G20785, 0001230020, 0001230021, 0001230022  
 ID 14.20, OD 39.90, OD/housing 62.00,  
 OD/teeth 39.90, Total length 83.00,  
 Splines A 10, No./teeth 10,  
 Drive type Steel, Rotation CW, Lock w/o  
 Alternative no.: 335633



**235861** Drive  
 Replacing: 1006209070  
 Servicing: 0001211016, 0001211023  
 ID 12.00, OD 27.30, OD/housing 47.50,  
 Total length 68.60, Splines A 10, No./teeth 8,  
 Drive type Steel, Rotation CW



**236130** Drive  
 Replacing: 6033AD0242, 6033AD0304, 6033AD0467, 6033AD4052, 6033AD4232  
 Servicing: 0001231007, 0001231014, 0001231019, 0001231030, 0001231034, 0001231119  
 ID 14.30, OD 40.50, OD/housing 60.00,  
 Total length 83.00, Splines A 10,  
 No./teeth 11, Drive type Steel,  
 Rotation CW, Key spline w/o, Lock w/o





### 236375 Drive

Replacing: 1006209785, 1006209961, 1986SE1531

Servicing: 0001123004, 0001123005, 0001123014, 0001123015, 0001123016, 0001123017, 0001123020, 0001123021

ID 11.00, OD 28.00, OD/housing 49.20, Total length 93.35, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o  
Alternative no.: 333182



### 236508# Drive

Manufacturer: Bosch

Replacing: 1006209781

Servicing: 0001123002, 0001123003, 0001123024, 0001123025, 0001124015

ID 11.00, OD 25.30, OD/housing 50.50, Total length 82.50, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 236832 Drive

Replacing: 1006209796, 1986SE1637

Servicing: 0001107429, 0001107437, 0001108444, F002G20485, F002G20917, 0001107444, F002G70069

ID 11.05, OD 25.30, OD/housing 44.98, Total length 48.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333198



### 236854 Drive

Replacing: 1006209769, 1006209953

Servicing: 0001121022, 0001121023

ID 12.00, OD 27.80, OD/housing 50.50, Total length 104.60, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o



### 236883 Drive

Replacing: 1006209813

Servicing: 0001121402, 0001121403, 0001121412, 0001121413, 0001121429, 0001121430, 0001122402, 0001122403

ID 11.00, OD 27.85, OD/housing 46.00, Total length 93.00, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o



### 236891 Drive

Replacing: 1006209809

Servicing: 0001120402, 0001120403, F004A94403

ID 11.55, OD 25.50, OD/housing 45.00, Total length 83.55, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 237667 Drive

Replacing: 1006209818, 1006209964, 1006210111, 1986SE1653

Servicing: 0001109300, 0001109301, 0001109302, 0001109303, 0001109306, 0001109307, 001109300, 001109301

ID 12.00, OD 35.65, OD/housing 53.15, Total length 55.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333396



### 237752 Clutch

Replacing: 6033AD5055, 6033AD5078, 6033AD5355, 6033AD5356

Servicing: 0001241001, 0001241003, 0001241004, 0001241005, 0001241006, 0001241007, 0001241009, 0001241014

OD 20.80, Shaft OD/front 30.00, Total length 128.60, No./splines 19  
Alternative no.: 335908



### 239633 Drive

Replacing: 1006209771, 1006209948, 1006210137, 1006210159

Servicing: 0001115013, 0001115011, 0001115118

ID 12.00, OD 27.81, OD/housing 47.45, Total length 102.11, Splines A 10, No./teeth 10, Drive type Steel, Rotation CCW



### 239777 Drive

Replacing: 1006209799, 1006209981, 1986SE1647

Servicing: 0001107423, 0001107424, 0001107425, 0001107433, 0001107434, 0001107442, 0001107443, 0001107448

ID 11.00, OD 29.64, OD/housing 45.80, OD/teeth 29.64, Total length 47.90, Splines A 10, No./teeth 9, Rotation CW

Alternative no.: 333234



### 239967 Drive

Manufacturer: Bosch

Replacing: 1006209786, 1006209962, 1986SE1646

Servicing: 0001123012, 0001123013, 0001123018, 0001123019, 0001123026, 0001123027

OD 27.75, OD/housing 50.60, Total length 83.00, No./teeth 10, Drive type Steel, Rotation CCW



### 330007 Drive

Manufacturer: Bosch

Replacing: 1006209795, 1986SE1636

Servicing: 0001107459, 0001107460, 0001107461, 0001107462, 0001107539, 0001108403, 0001108404, 0001108409

ID 12.10, OD 27.80, OD/housing 47.30, Total length 72.50, No./teeth 10, Rotation CW





**330125** Drive  
 Replacing: 1006209828, 1006209836, 1006209845, 1986SE1641  
 Servicing: 0001115047, 0001115048, 0001115074, 0001115075  
 ID 11.84, OD 32.08, OD/housing 47.00, Total length 51.42, Splines A 10, No./teeth 12, Rotation CW  
 Alternative no.: 333581 , 333866



**330265** Drive  
 Replacing: 1006209824, 1006209966, 1006210128, 1006210146, 1986SE1652  
 Servicing: 0001105205, 0001109205, 0001109304, 0001109305, 0001109324, 0001109325, 0001109328, 0001109329  
 ID 12.00, OD 38.60, OD/housing 52.40, OD/teeth 38.60, Total length 58.00, vRotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333188 , 335231



**331009** Drive  
 Replacing: 1006209971, 1006209979, 1006210261, 1006210262  
 Servicing: 0001138003, 0001138004, 0001138005, 0001138006, 0001138045, 0001138046  
 ID 12.02, OD 29.45, OD/housing 46.90, OD/teeth 29.45, Total length 52.00, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW



**331010** Drive  
 Replacing: 1006209849, 1006209940, 1986SE1644  
 Servicing: 0001107476, 0001107477, 0001108428, 0001108429  
 ID 11.08, OD 29.40, OD/housing 47.00, OD/teeth 29.40, Total length 48.60, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW



**331504** Drive  
 Manufacturer: Bosch  
 Replacing: 1006209847, 1006210217, 1986SE1642  
 Servicing: 0001123036, 0001123037, 0001123038, 0001123039, 0001123044, 0001123045  
 ID 13.50, OD 27.29, OD/housing 50.49, OD/teeth 27.29, Total length 92.40, No./teeth 11, Drive type Steel, Rotation CCW, Key spline w/o, Lock w/  
 Alternative no.: 335311



**331866** Drive  
 Replacing: 1006209825, 1986SE1640  
 Servicing: 0001107440, 0001107441, F004A94441  
 ID 11.00, OD 34.50, OD/housing 47.30, OD/teeth 34.50, Total length 49.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o

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**332004** Drive  
 Replacing: 1006209858  
 Servicing: 0001115068, 0001115069  
 ID 12.00, OD 32.05, OD/housing 47.40, Total length 50.90, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



**332915** Drive  
 Replacing: 1006209841  
 Servicing: 0001123028, 0001123029  
 ID 11.00, OD 27.90, OD/housing 50.50, OD/teeth 27.90, Total length 82.60, No./teeth 11, Rotation CCW



**332949** Drive  
 Manufacturer: Bosch  
 Replacing: 1006210212, 1006210913  
 Servicing: 0001139025, 0001139026, 0001139029, 0001139030, 0001139043, 0001139044, 0001139065, 0001139066  
 ID 12.00, OD 34.00, OD/housing 53.40, OD/teeth 34.00, Total length 54.00, No./teeth 13, Rotation CW



**333094** Drive  
 Manufacturer: Bosch  
 Replacing: 1006209775  
 Servicing: 0001109046, 0001109027  
 ID 12.04, OD 34.25, OD/housing 53.50, Total length 57.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



**333126** Drive  
 Replacing: 2006209429, 2006209490  
 Servicing: 0001362058, 0001362104, 0001366003, 0001366029, 0001368029, 0001368080, B001816064, B001816066  
 ID 14.15, OD 34.50, OD/housing 60.45, Total length 91.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CCW  
 Alternative no.: 333862





### 333171 5★ Drive

Manufacturer: Bosch

Replacing: 1006209804, 1986SE1638

Servicing: 0001108430, 0001108431

ID 11.10, OD 26.80, OD/housing 45.35,

Total length 48.50, No./teeth 10,

Drive type Steel, Rotation CW,

Key spline w/o, Lock w/o

Alternative no.: 234124z, 234124



### 333172 5★ Drive

Manufacturer: Bosch

Replacing: 1006209516, 1006209537,  
1006209545, 1006209566, 1006209568,  
1006209905, 1006209907, 1006210145

Servicing: 0001208719, B001232033

ID 12.00, OD 26.80, OD/housing 47.50,

Total length 58.50, Splines A 10,

No./teeth 10, Drive type Steel,

Rotation CW, Key spline w/o, Lock w/

Alternative no.: 131433, 131433z



### 333174 5★ Drive

Manufacturer: Bosch

Replacing: 1006209543, 1006209544,  
1006209576, 1006209596, 1006209703,  
1006209710, 1006209918, 1006209919

Servicing: 0001108094, 0001108095,  
0001108127, 0001110001, 0001110002,  
0001110014, 0001110015, 0001110076

ID 12.00, OD 25.80, OD/housing 46.00,

Total length 58.50, Splines A 10,

No./teeth 9, Drive type Steel,

Rotation CCW, Key spline w/o, Lock w/o

Alternative no.: 132216, 132216zz



### 333176 5★ Drive

Manufacturer: Bosch

Replacing: 1006209503, 1006209504,  
1006209506, 1006209509, 1006209513,  
1006209526, 1006209528, 1006209530

ID 12.00, OD 25.80, OD/housing 47.50,

Total length 59.00, Splines A 10,

No./teeth 9, Drive type Steel,

Rotation CW, Key spline w/o, Lock w/

Alternative no.: 131104, 131104zz



### 333177 5★ Drive

Manufacturer: Bosch

Replacing: 1006209621, 1006209648,  
1006209699, 1986SE1631

Servicing: 0001124001, 0001124002,  
0001124005, 0001124006, 0001125001,  
0001125002, 0001125007, 0001125008

ID 11.00, OD 27.75, OD/housing 53.60,

Total length 83.25, No./teeth 10,

Drive type Steel, Rotation CCW,

Key spline w/o, Lock w/o

Dust cover kit: HC-CARGO 230091.

Alternative no.: 136854, 136854zz



### 333178 5★ Drive

Manufacturer: Bosch

Replacing: 1006209618, 1006209672,  
1006209677, 1006209690, 1006209815,  
1006209937

Servicing: 0001107037, 0001107048,  
0001107054, 0001107055, 0001107067,  
0001107068, 0001107069, 0001107072

ID 12.00, OD 25.30, OD/housing 46.90,

Total length 51.00, Splines A 10,

No./teeth 9, Drive type Steel,

Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 137481



### 333179 5★ Drive

Manufacturer: Bosch

Replacing: 1006209628, 1006209649,  
1006209758, 1986SE1633

Servicing: 0001124003, 0001124004,  
0001124013, 0001124014, 0001125005,  
0001125006, 0001125035, 0001125036

ID 11.20, OD 25.35, OD/housing 53.70,

Total length 83.65, No./teeth 9,

Drive type Steel, Rotation CCW,

Key spline w/o, Lock w/o

Dust cover kit: HC-CARGO 230338.

Alternative no.: 137480, 137480zz



### 333180 5★ Drive

Manufacturer: Bosch

Replacing: 1006209671

ID 12.00, OD 29.00, OD/housing 50.00,

Total length 50.50, Splines A 10,

No./teeth 11, Drive type Steel,

Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 230834, 230834z



### 333181 5★ Drive

Manufacturer: Bosch

Replacing: 1006209636, 1006209643,  
1006209759, 1006209946

ID 11.20, OD 25.40, OD/housing 53.60,

Total length 93.50, No./teeth 9, Lock w/o,

Drive type Steel, Rotation CCW, Key spline w/o

Kit 230338 also needed to install the drive

Alternative no.: 137890





**333182** ★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209785, 1006209961, 1986SE1531  
**Servicing:** 0001123014, 0001123015, 0001123017, 0001123020, 0001123021  
 ID 11.00, OD 28.00, OD/housing 49.20, Total length 93.35, No./teeth 10, Lock w/o, Drive type Steel, Rotation CCW, Key spline w/o  
 Alternative no.: 236375



**333183** ★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209641, 1006209762  
 ID 11.10, OD 25.20, OD/housing 47.65, Total length 82.85, No./teeth 9, Lock w/o, Drive type Steel, Rotation CW, Key spline w/o  
 Alternative no.: 138875, 138875z



**333185** ★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 6033AD0184, 6033AD3334, 9002336237  
**Servicing:** 0001231012, 0001231016, 0001231017, 0001231045  
 ID 14.35, OD 39.55, OD/housing 62.20, Total length 83.80, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 231756, 335558



**333186** ★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209695, 1986SE1630  
 ID 12.00, OD 34.90, OD/housing 47.50, Total length 50.00, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW  
 Alternative no.: 235440z, 235440



**333188** ★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209824, 1006210128, 1006210146  
**Servicing:** 0001109205, 0001109324  
 ID 12.00, OD 38.60, OD/housing 52.40, OD/teeth 38.60, Total length 58.00, Splines A 10, No./teeth 12, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 330265, 335231



**333189** ★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209631, 1006209635, 1006209678, 1986SE1624, F000AL1209, F005M10053  
**Servicing:** 0001108183, 0001108217, 0001108218, 0001109036, 0001109250, 0001115008, F000AL0101, 0001109290  
 ID 12.00, OD 27.75, OD/housing 50.50, Total length 50.00, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 230835



**333191** ★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209624, 1006209633, 1006209692, 1006209696, 1006209706, 1006209715, 1006209777, 1006209944  
**Servicing:** 0001106011, 0001106014, 0001106015, 0001107047, 0001107063, 0001107077, 0001107098, 0001107109  
 ID 12.00, OD 25.00, OD/housing 46.35, Total length 49.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 137483



**333192** ★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209634, 1006209660, 1006209983, 1986SE1628  
**Servicing:** 0001107062, 0001108230, 0001108231, 0001109204, 0001109341  
 ID 12.00, OD 28.85, OD/housing 46.40, Total length 51.25, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 137888



**333193** ★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209656, 1986SE1627  
 ID 12.00, OD 34.40, OD/housing 53.50, Total length 50.60, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 233828



**333194** ★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209584, 1006209600, 1006209686, 1006209993, 1006209997, 1986SE1650, 9001081033  
**Servicing:** 0001106012, 0001106017, 0001106022, 0001106023, 0001106024, 0001107009, 0001107012, 0001107013  
 ID 12.00, OD 25.20, OD/housing 46.20, Total length 53.50, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 135716





### 333195 5★ Drive

Manufacturer: Bosch

Replacing: 1006209812, 1986SE1764

ID 10.90, OD 27.85, OD/housing 45.00,  
OD/teeth 27.85, Total length 47.80,  
No./teeth 10, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 234535



### 333196 5★ Drive

Manufacturer: Bosch

Replacing: 1006209538, 1006209539, 1006209691

Servicing: 0001110003, 0001110005,  
0001110012, 0001110016, 0001110025,  
0001110026, 0001110039, 0001110053

ID 12.00, OD 27.80, OD/housing 45.70,  
Total length 58.75, Splines A 10,  
No./teeth 10, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 132205, 132205z



### 333198 5★ Drive

Manufacturer: Bosch

Replacing: 1006209796, 1986SE1637

ID 11.05, OD 25.30, OD/housing 44.98,  
Total length 48.50, Splines A 10,  
No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 236832



### 333199 5★ Drive

Manufacturer: Bosch

Replacing: 1006209637, 1986SE1625

ID 12.00, OD 27.80, OD/housing 54.25,  
OD/teeth 27.80, Total length 57.00,  
Splines A 10, No./teeth 10,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 137889



### 333200 5★ Drive

Manufacturer: Bosch

Replacing: 1006209657, 1006209757

Servicing: 0001121006, 0001121007,  
0001121028

ID 11.00, OD 25.35, OD/housing 46.20,  
OD/teeth 25.35, Total length 82.25,  
No./teeth 9, Drive type Steel,  
Rotation CCW, Key spline w/o,  
Lock w/o

Dust cover kit: HC-CARGO 230338.

Alternative no.: 230339



### 333201 5★ Drive

Manufacturer: Bosch

Replacing: 1006209549, 1006209554,  
1006209559, 1986SE1620

Servicing: 0001108065, 0001108100,  
0001108115, 0001108141, 0001108145,  
0001109009, 0001110011, 0001110041

ID 12.00, OD 29.25, OD/housing 46.25,  
OD/teeth 29.25, Total length 58.20,  
Splines A 10, No./teeth 9,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o

Alternative no.: 133362



### 333203 5★ Drive

Manufacturer: Bosch

Replacing: 1006209585, 1006209679,  
1006209916, 1006210143, 1986SE1651,  
1987MN0174

Servicing: 0001107008, 0001107020,  
0001107021, 0001107053

ID 12.00, OD 25.25, OD/housing 46.50,  
Total length 55.45, Splines A 10,  
No./teeth 9, Drive type Steel,  
Rotation CCW, Key spline w/o,  
Lock w/o

Alternative no.: 135085



### 333205 5★ Drive

Manufacturer: Bosch

Replacing: 2006209449, 2006209469,  
2006209476, 2006209485, 2006209504

ID 14.25, OD 34.80, OD/housing 60.00,  
OD/teeth 34.80, Total length 74.00,  
Splines A 10, No./teeth 9,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o

Alternative no.: 131019



### 333207 5★ Drive

Manufacturer: Bosch

Replacing: 2006209470, 2006209483

ID 14.25, OD 34.80, OD/housing 60.00,  
OD/teeth 34.80, Total length 73.50,  
Splines A 10, No./teeth 9,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o

Alternative no.: 130950



### 333208 5★ Drive

Manufacturer: Bosch

Replacing: 1006209607, 1006209670,  
1006209675, 1006210150, 1986SE1622,  
1987MN0180, F000AL1200, F000AL1250

Servicing: 0001107066, F000AL0102

ID 12.00, OD 29.25, OD/housing 46.85,  
OD/teeth 29.25, Total length 49.00,  
Splines A 10, No./teeth 9,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o

Alternative no.: 139954





**333209** ★ Drive  
 Manufacturer: Bosch  
 Replacing: 2006209452, 2006209495, 2006209532  
 Servicing: 0001367017, 0001367070, 0001367302, 0001368034, 0001368070, 0001368082, 0001368304, 0001368306  
 ID 14.25, OD 39.85, OD/housing 60.00, OD/teeth 39.85, Total length 91.00, Splines A 10, No./teeth 10, Rotation CW, Drive type Steel, Key spline w/o, Lock w/o  
 Alternative no.: 132702, 335235



**333210** ★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209704, 1986SE1762  
 ID 12.00, OD 25.20, OD/housing 46.30, OD/teeth 25.20, Total length 46.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 231896



**333211** ★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209655, 1006209760, 1986SE1634  
 ID 13.60, OD 26.10, OD/housing 53.00, OD/teeth 25.00, Total length 81.00, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 234293



**333212** ★ Drive  
 Manufacturer: Bosch  
 Replacing: 6033AD1062  
 ID 12.00, OD 34.50, OD/housing 54.40, OD/teeth 34.50, Total length 64.00, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 233947



**333214** ★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209642  
 ID 12.00, OD 27.70, OD/housing 53.00, OD/teeth 27.70, Total length 50.50, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 138322



**333215** ★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209680, F000AL1100, F00MAL1100  
 Servicing: 0001121010, 0001121024  
 ID 11.20, OD 27.75, OD/housing 46.35, OD/teeth 27.75, Total length 82.85, No./teeth 10, Drive type Steel, Rotation CCW, Key spline w/o, Lock w/o  
 Alternative no.: 230340



**333216** ★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209629, 1006209929  
 Servicing: 0001107043, 0001107087, 0001113010, 0001113017  
 ID 12.00, OD 26.70, OD/housing 46.15, Total length 50.40, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 137981



**333217** ★ Drive  
 Manufacturer: Bosch  
 Replacing: 2006209425, 2006209494  
 ID 14.30, OD 41.00, OD/housing 60.20, OD/teeth 41.00, Total length 91.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 131271, 335642



**333220** ★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209500  
 ID 12.00, OD 25.80, OD/housing 46.20, OD/teeth 25.80, Total length 64.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 131102, 131102z



**333224** ★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209661  
 ID 12.00, OD 27.80, OD/housing 50.00, OD/teeth 27.80, Total length 71.00, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 234242



**333227** ★ Drive  
 Manufacturer: Bosch  
 Replacing: 2006209406, 2006209422, 2006209436, 2006209446, 200A209436, 9001083406, 9001083436, 9002453073  
 Servicing: 0001359038, 0001359049, 0001359073, 0001359074, 0001359083, 0001359084, 0001359111, 0001359119  
 ID 14.30, OD 34.20, OD/housing 60.00, OD/teeth 34.20, Total length 91.00, Splines A 10, No./teeth 9, Rotation CW, Drive type Steel, Key spline w/o, Lock w/o  
 Alternative no.: 132273



**333228** ★ Drive  
 Manufacturer: Bosch  
 Replacing: 2006209462, 2006209499  
 ID 14.30, OD 39.00, OD/housing 60.10, OD/teeth 39.00, Total length 91.00, Splines A 10, No./teeth 10, Rotation CW, Drive type Steel, Key spline w/o, Lock w/o  
 Alternative no.: 131597





### 333232 5★ Drive

Manufacturer: Bosch

Replacing: 2006209540, 2006209542

Servicing: 0001368313

ID 14.30, OD 41.50, OD/housing 60.00, Total length 90.45, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 137231



### 333233 5★ Drive

Manufacturer: Bosch

Replacing: 1006209406, 1006209428, 1006209449, 1006209472, 9001692096

ID 12.00, OD 30.00, OD/housing 46.30, OD/teeth 30.00, Total length 64.50, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/  
Alternative no.: 131097



### 333234 5★ Drive

Manufacturer: Bosch

Replacing: 1006209799, 1006209981, 1986SE1647

Servicing: 0001107433, 0001107434, 0001107442, 0001107443, 0001107527, 0001107528

ID 10.00, OD 29.00, Total length 48.30, No./teeth 9, Drive type Steel, Rotation CW  
Alternative no.: 239777



### 333235 5★ Drive

Manufacturer: Bosch

Replacing: 1004336634, 1006209917, 1006210141

Servicing: 0001107003, 0001107022

ID 12.00, OD 28.80, OD/housing 47.40, OD/teeth 25.50, Total length 76.80, No./teeth 10, Drive type Steel, Rotation CCW



### 333236 5★ Drive

Manufacturer: Bosch

Replacing: 1006209936, 1006210163

Servicing: 0001109066, 0001109067

ID 12.00, OD 54.00, OD/housing 54.00, OD/teeth 32.70, Total length 62.00, No./teeth 10, Drive type Steel, Rotation CCW



### 333341 Drive

Replacing: 1006210103, 1006210185

Servicing: 0001109355, 0001109356, 0001109357, 0001109358, 0001109359, 0001109360, 0001109369, 0001109460

ID 12.05, OD 35.00, OD/housing 52.40, Total length 56.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW



### 333344 Drive

Replacing: 1986SE3752, 2006209550

Servicing: 0001260001

ID 14.30, OD 43.55, OD/housing 62.00, OD/teeth 43.55, Total length 83.00, No./teeth 11, Drive type Steel, Rotation CW

Alternative no.: 335546 5★



### 333355 Drive

Replacing: 1006209778, F000AL1709

Servicing: F000AL0105, F000AL0107, F000AL0112, F000AL0117, 0001115115

ID 12.00, OD 36.00, OD/housing 54.00, OD/teeth 36.00, Total length 51.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW



### 333396 5★ Drive

Manufacturer: Bosch

Replacing: 1006209818, 1006209964, 1006210111, 1006210149, 1986SE1653

Servicing: 0001109306, 0001109313, 0001109321, 0001109332, 0001109333, 0001109334, 0001109335, 0001109344

ID 12.03, OD 35.80, OD/housing 53.40, OD/teeth 35.80, Total length 54.60, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW  
Alternative no.: 237667



### 333500 5★ Drive

Manufacturer: Bosch

Replacing: 6033AD0129, 6033AD4243

ID 14.20, OD 46.70, OD/housing 61.70, OD/teeth 46.70, Total length 83.30, Splines A 10, No./teeth 12, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 233722



### 333509 5★ Drive

Manufacturer: Bosch

Replacing: 6033AD0061

Servicing: 0001223002

ID 12.00, OD 35.30, OD/housing 57.30, Total length 62.00, No./teeth 11, Rotation CW, Drive type Steel, Key spline w/o, Lock w/o  
Alternative no.: 231898



### 333510 5★ Drive

Manufacturer: Bosch

Replacing: 2006209457, 2006209459, 2006209931

Servicing: 0001362312, 0001362316, 0001362319, 0001362321, 0001367037, 0001368059, 0001369001, 0001369005

ID 14.25, OD 32.00, OD/housing 59.80, Total length 91.00, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 132345





**333511** 5★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 9002336219, 9003336289  
**Servicing:** 9000331201, 9000331203  
 ID 12.00, OD 35.00, OD/housing 58.00,  
 OD/teeth 35.00, Total length 62.00,  
 Splines A 10, No./teeth 9,  
 Drive type Steel, Rotation CW  
 Alternative no.: 230336



**333515** 5★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1986SE3627, 2006209414,  
 2006209444  
**Servicing:** 0001359090, 9000083075,  
 9000083076, 9000453075, 9000453076,  
 F006AL0602  
 ID 14.30, OD 32.00, OD/housing 60.00,  
 OD/teeth 32.00, Total length 91.00,  
 Splines A 10, No./teeth 10,  
 Drive type Steel, Rotation CW  
 Alternative no.: 131495



**333516** 5★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 2006209471, 2006209500  
**Servicing:** 0001362002, 0001362030,  
 0001362038, 0001362047, 0001362069,  
 0001362070, 0001362077, 0001362078  
 ID 12.00, OD 25.35, OD/housing 57.40,  
 Total length 72.00, Splines A 10,  
 No./teeth 9, Drive type Steel,  
 Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 130414zz, 130414



**333544** 5★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209592, 1006209941,  
 1986SE1758  
**Servicing:** 0001110071, 0001110072  
 ID 12.00, OD 29.20, OD/housing 48.50,  
 Total length 58.70, Splines A 10,  
 No./teeth 9, Rotation CW,  
 Key spline w/o, Lock w/o  
 Alternative no.: 136614



**333548** 5★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209545, 1006209560,  
 1006209569, 1006209908, 1006210152  
**Servicing:** 0001110065, 0001110104,  
 0001110105  
 ID 12.00, OD 26.80, OD/housing 53.40,  
 OD/teeth 26.80, Total length 58.70,  
 Splines A 10, No./teeth 10, Rotation CW,  
 Key spline w/o, Lock w/  
 Alternative no.: 131434



**333551** 5★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209806, 1986SE1763  
**Servicing:** 0001120400, 0001120401,  
 0001120403, 0001120404, 0001120405,  
 0001120406, 0001120408, 0001120410  
 ID 12.00, OD 27.85, OD/housing 45.45,  
 Total length 83.00, No./teeth 10,  
 Rotation CCW, Key spline w/o,  
 Lock w/o  
 Alternative no.: 234785



**333553** 5★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209646, 1986SE1759  
**Servicing:** 0001109026  
 ID 12.00, OD 29.70, OD/housing 53.50,  
 Total length 51.30, Splines A 10,  
 No./teeth 11, Rotation CW,  
 Key spline w/o, Lock w/o  
 Alternative no.: 230352



**333564** 5★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209681, 1006209943,  
 1986SE1645  
**Servicing:** 0001125018, 0001125046,  
 0001125047, 0001125048, 0001125049,  
 0001125605, 0001125606  
 ID 12.00, OD 27.76, OD/housing 54.50,  
 Total length 105.45, No./teeth 10,  
 Rotation CCW, Key spline w/o,  
 Lock w/o  
 Alternative no.: 232623, 335236



**333571** 5★ Drive  
**Manufacturer:** Bosch  
**Replacing:** 1006209645, 1006209802,  
 1006209950, 1006209987, 1006210148,  
 1986SE1765  
**Servicing:** 0001109336, 0001109337,  
 0001115048, 0001109254, 0001109268,  
 0001109269, 0001109270, 0001109438  
 ID 12.00, OD 29.20, OD/housing 53.50,  
 Total length 51.00, Splines A 10,  
 No./teeth 9, Rotation CW,  
 Key spline w/o  
 Alternative no.: 230828





**333579** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209779, 1006209792, 1006209959, 1006210144  
 Servicing: 0001108224, 0001115021, 0001115025  
 ID 12.00, OD 29.00, OD/housing 50.50, Total length 51.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 234902



**333581** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209828, 1006209836, 1006209845, 19865E1641  
 Servicing: 0001115074, 0001115075  
 ID 12.00, OD 32.20, OD/housing 48.40, Total length 51.20, Splines A 10, No./teeth 12, Rotation CW, Key spline w/o  
 Alternative no.: 330125



**333593** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 6033AD0004  
 Servicing: 0001223001  
 ID 12.00, OD 29.30, OD/housing 57.35, Total length 59.80, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 233836



**333606** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 2004336027, 2006209427, 2006209457  
 ID 14.20, OD 32.16, OD/housing 59.80, Total length 91.10, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o



**333683** 5★ Drive  
 Manufacturer: Mahle Letrika  
 Replacing: 6033AD0190, 6033AD0191  
 Servicing: 0001223500, 0001223502  
 ID 14.00, OD 32.00, OD/housing 62.00, OD/teeth 32.00, Total length 75.90, No./teeth 10, Drive type Steel, Rotation CW



**333740** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006210205, 1006210206, 19865E1654  
 Servicing: 0001115088, 0001115089, 0001115092, 0001115093  
 ID 12.10, OD 37.80, OD/housing 50.50, OD/teeth 37.80, Total length 57.80, Splines A 10, No./teeth 12, Drive type Steel, Rotation CW  
 Alternative no.: 335312



**333833** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209819, 1006209965  
 Servicing: 0001125521, 0001125522, 0001125609, 0001125610, 0001125519, 0001125520  
 ID 13.30, OD 28.00, OD/housing 54.00, OD/teeth 28.00, Total length 83.00, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



**333835** Drive  
 Replacing: 6033AD0275, 6033AD0474  
 Servicing: 0001223006  
 ID 12.00, OD 27.55, OD/housing 52.52, OD/teeth 27.55, Total length 91.80, No./teeth 10, Drive type Steel, Rotation CW



**333853** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209838, 1006210106, 1006210174  
 Servicing: 0001109280, 0001109281, 0001109315, 0001109361, 0001109362, 0001109421, 0001109422, 0001115082  
 ID 12.05, OD 33.00, OD/housing 50.50, OD/teeth 33.00, Total length 61.75, No./teeth 10, Drive type Steel, Rotation CW  
 Alternative no.: 333925



**333858** Drive  
 Replacing: 2006202000  
 Servicing: 0001420001, 0001420003, 0001420004, 0001420009, 0001420012, 0001420013, 0001420015, 0001420024  
 ID 19.00, OD 46.30, OD/housing 58.00, Total length 118.45, No./teeth 12, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 232632



**333861** Drive  
 Replacing: 2006209461  
 Servicing: 0001368077  
 ID 14.25, OD 35.80, OD/housing 60.00, OD/teeth 35.80, Total length 91.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 234971



**333862** Drive  
 Replacing: 2006209429, 2006209490  
 ID 14.15, OD 34.50, OD/housing 60.45, Total length 91.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CCW  
 Alternative no.: 333126





**333866** Drive  
 Replacing: 1006209828, 1006209836, 1006209845  
 Servicing: 0001115048, 0001115074, 0001115075  
 ID 12.00, OD 32.00, OD/housing 47.00, Total length 51.40, Splines A 10, No./teeth 12, Drive type Steel, Rotation CW  
 Alternative no.: 330125, 333581



**333872** Drive  
 Replacing: 1006209714, 1006209934, 1006209952, 1006210117, 1006210125, 1006210147, 1006210154  
 Servicing: 0001107038, 0001107092, 0001107093  
 ID 12.00, OD 27.00, OD/housing 47.00, Total length 48.10, Splines A 10, No./teeth 8, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 235200



**333886** Drive  
 Replacing: 1006209612  
 Servicing: 0001109011  
 ID 12.00, OD 29.80, OD/housing 48.50, OD/teeth 29.80, Total length 58.80, Splines A 10, No./teeth 11, Drive type Steel, Rotation CCW  
 Alternative no.: 335510



**333888** Drive  
 Manufacturer: Bosch  
 Replacing: 1006209826, 1006209982, 1986SE1648  
 Servicing: 0001107425, 0001107426, 0001107442, 0001107443, 0001107525, 0001107526  
 ID 10.90, OD 29.00, OD/housing 45.50, Total length 48.50, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW



**333895** Drive  
 Replacing: 1006209782  
 Servicing: 0001125025, 0001125057, 0001125058, 0001125059, 0001125060, 0001125024  
 ID 13.50, OD 27.75, OD/housing 52.40, Total length 81.80, No./teeth 10, Drive type Steel, Rotation CW  
 Alternative no.: 335320



**333896** Drive  
 Replacing: 6033AD0461  
 Servicing: 0001223506  
 ID 14.00, OD 40.75, OD/housing 60.10, Total length 76.00, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW



**333913** Drive  
 Manufacturer: Bosch  
 Replacing: 1006209798  
 Servicing: 0001107430, 0001107420  
 ID 11.00, OD 33.80, OD/housing 47.40, Total length 48.40, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



**333915** Drive  
 Replacing: 1006209995  
 Servicing: 0001108234, 0001108235, 0001108239, 0001108240, 0001115021, 0001115025  
 ID 12.00, OD 28.50, OD/housing 46.90, OD/teeth 28.50, Total length 51.50, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW



**333918** Drive  
 Replacing: 6033AD0329  
 Servicing: 0001223011, 0001223012, 0001223018, 0001223019  
 ID 12.00, OD 29.30, OD/housing 53.53, OD/teeth 29.30, Total length 59.00, No./teeth 9, Drive type Steel, Rotation CW



**333925** Drive  
 Replacing: 1006209838, 1006210106, 1006210174  
 Servicing: 0001109275, 0001109276, 0001109315, 0001109421, 0001109422, 0001115057, 0001115082, 0001115083  
 ID 12.00, OD 32.85, OD/housing 50.50, Total length 60.30, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW  
 Alternative no.: 333853



**333926** Drive  
 Replacing: 1006210271  
 Servicing: 0001177000, 0001177001, 0001177002, 0001177003, 0001177004, 0001177005, 0001177006, 0001177007  
 ID 13.50, OD 34.30, OD/housing 45.80, OD/teeth 34.30, Total length 97.85, No./teeth 13, Drive type Steel, Rotation CCW



**333930** Drive  
 Replacing: 1006209789  
 Servicing: 0001108206, 0001108207, 0001108228, 0001108229, 0001108237, 0001108238  
 ID 12.00, OD 29.10, OD/housing 48.50, OD/teeth 29.10, Total length 51.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW





### 333932 Drive

Replacing: 1006210183, 1006210194

Servicing: 0001139017, 0001139018, 0001139019, 0001139020, 0001139041, 0001139042, 0001139045, 0001139046

ID 12.00, OD 32.75, OD/housing 50.40, OD/teeth 32.75, Total length 59.50, No./teeth 10, Drive type Steel, Rotation CW



### 333933 Drive

Manufacturer: Bosch

Replacing: 1006209991, 1986SE1649

Servicing: 0001107478, 0001107479, 0001108420, 0001108421, 0001108450, 0001108451, 0001108456, 0001108457

ID 11.00, OD 33.00, OD/housing 47.50, OD/teeth 33.00, Total length 48.00, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW



### 333937 Drive

Replacing: F000AL1238, F000AL1679, F000AL1680, F000AL1692

Servicing: F000AL0308, F000AL0309, F000AL0310, F000AL0316, F000AL0304, F000AL0314, F000AL0319, F000AL0320

ID 12.00, OD 25.20, OD/housing 46.35, OD/teeth 25.20, Total length 58.60, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW



### 333940 Drive

Replacing: 1006209821, F000AL1281, F000AL2281, F000AL2814

Servicing: 00010DB98E, F000AL0111, F004A94008, F004A94011, F000AL0137, F000AL0142

ID 12.00, OD 34.40, OD/housing 52.50, OD/teeth 34.40, Total length 60.60, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW



### 333943 Drive

Replacing: 6033AD0204

Servicing: 0001223004, 0001223104

ID 12.00, OD 28.85, OD/housing 57.30, OD/teeth 28.85, Total length 59.60, No./teeth 9, Drive type Steel, Rotation CW



### 333954 Drive

Replacing: 9002336214

Servicing: 0001219010, B001235019

ID 12.00, OD 29.40, OD/housing 53.50, OD/teeth 29.40, Total length 61.20, Splines A 10, No./teeth 9, Drive type Steel, Rotation CCW



### 333990 Drive

Replacing: 2006209351, 2006209905

Servicing: 0001212002

ID 14.30, OD 34.25, OD/housing 59.30, Total length 90.30, Splines A 3, No./teeth 9, Drive type Steel, Rotation CCW



### 335110 Drive

Replacing: 1006209998

Servicing: 0001109011

ID 12.00, OD 29.00, OD/housing 48.50, Total length 58.60, Splines A 10, No./teeth 11, Drive type Steel, Rotation CCW



### 335114 Drive

Replacing: 1006209146, 2006209924

Servicing: 0001307009

ID 14.30, OD 34.25, OD/housing 59.25, Total length 78.40, Splines A 3, No./teeth 9, Drive type Steel, Rotation CW



### 335127 Drive

Replacing: 1006210107

Servicing: 0001145001, 0001145002

ID 11.00, OD 34.50, OD/housing 50.50, Total length 98.50, No./teeth 13, Rotation CCW



### 335128 Drive

Replacing: 1006210172, 1006210905

Servicing: 0001142001, 0001142002, 0001142003, 0001142004, 0001142005, 0001142006

ID 13.60, OD 34.00, OD/housing 50.20, Total length 98.70, No./teeth 13, Drive type Steel, Rotation CCW, Lock w/



### 335129 Drive

Replacing: 1006209608, 1006210184

Servicing: 0001137003, 0001137004, 0001137005, 0001137006, 0001138011, 0001138012, 0001138029, 0001138030

ID 12.00, OD 27.80, OD/housing 47.00, Total length 53.50, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW



## NEW PRODUCT

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### 335131 Drive

Replacing: 1006210232, 1006210233  
 Servicing: 0001148009, 0001148010, 0001148015, 0001148016, 0001148023, 0001148024  
 ID 12.00, OD 34.70, OD/housing 47.00, Total length 52.00, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW



### 335132 Drive

Replacing: 1006210932  
 Servicing: 0001139001, 0001139002, 0001148033, 0001148034, 0001148019, 0001148020  
 ID 12.00, OD 34.70, OD/housing 48.60, Total length 53.80, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW



### 335165 Drive

Replacing: 1006210222, 1006210910  
 Servicing: 0001149400, 0001149401, 0001149408, 0001149409  
 ID 12.00, OD 33.85, OD/housing 53.60, Total length 54.75, No./teeth 13, Drive type Steel, Rotation CW



### 335166 Drive

Manufacturer: Bosch  
 Replacing: 2006209546  
 Servicing: 0001368056, 0001368317  
 ID 14.26, OD 40.55, OD/housing 60.04, Total length 91.13, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW



### 335172 Drive

Replacing: 6033AD1447  
 Servicing: 0001109355, 0001223022  
 ID 12.00, OD 34.50, OD/housing 53.25, Total length 59.60, No./teeth 9, Drive type Steel, Rotation CW



### 335173 Drive

Replacing: 2006209571  
 Servicing: 0001251003, 0001251004, 0001251005, 0001251006, 0001251007, 0001251008, 0001251010  
 ID 14.40, OD 39.60, OD/housing 60.50, Total length 84.50, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW



### 335183 Drive

Replacing: 2007010165  
 Servicing: 0001262002, 0001262006, 0001262029, 0001262030  
 ID 14.30, OD 34.50, OD/housing 62.00, OD/teeth 34.50, Total length 83.00, Splines A 10, No./teeth 9, Rotation CW, Drive type Steel, Key spline w/o, Lock w/o



### 335189 Drive

Replacing: 1006209866  
 Servicing: 0001138009, 0001138010, 0001138072, 0001138071  
 ID 12.00, OD 35.00, OD/housing 47.00, Total length 52.00, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW



### 335231 Drive

Replacing: 1006209824, 1006209966, 1006210128, 1006210146, 1986SE1652  
 Servicing: 0001105205, 0001109205, 0001109304, 0001109305, 0001109324, 0001109328, 0001109329, 0001109387  
 ID 12.00, OD 38.75, OD/housing 53.10, Total length 58.50, Splines A 10, No./teeth 12, Drive type Steel, Rotation CW  
 Alternative no.: 330265, 333188



### 335232 Drive

Replacing: 6033AD0242, 6033AD0304, 6033AD0467, 6033AD4052, 6033AD4232  
 Servicing: 0001231007, 0001231014, 0001231019, 0001231030  
 ID 14.27, OD 40.00, OD/housing 61.25, Total length 83.50, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW  
 Alternative no.: 236130



### 335233 Drive

Replacing: 6033AD0077, 6033AD1002  
 Servicing: 0001223003, 0001223007, 0001223024  
 ID 12.00, OD 35.10, OD/housing 57.40, Total length 64.00, No./teeth 9, Drive type Steel, Rotation CW  
 Alternative no.: 233835



### 335235 Drive

Replacing: 2006209452, 2006209495, 2006209532  
 Servicing: 0001367017, 0001367070, 0001367076, 0001367077, 0001367302, 0001368034, 0001368070, 0001368082  
 ID 14.30, OD 40.00, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW  
 Alternative no.: 132702, 333209





### 335236 Drive

Replacing: 1006209681, 1006209943

Servicing: 0001125016, 0001125017, 0001125018, 0001125019, 0001125046, 0001125047, 0001125605, 0001125606

ID 11.95, OD 27.80, OD/housing 53.30, OD/teeth 27.80, Total length 103.50, No./teeth 10, Drive type Steel, Rotation CCW, Key spline w/o, Lock w/o  
Alternative no.: 232623, 333564



### 335311 Drive

Replacing: 1006209847, 1006210217

ID 13.50, OD 27.25, OD/housing 50.10, Total length 90.95, Shaft length 53.80, No./teeth 11, Drive type Steel, Rotation CCW

Alternative no.: 331504 5★



### 335312 Drive

Replacing: 1006210205, 1006210206, 1986SE1654

ID 12.00, OD 38.60, OD/housing 50.20, Total length 58.00, Splines A 10, No./teeth 12, Drive type Steel, Rotation CW

Alternative no.: 333740 5★



### 335320 5★ Drive

Manufacturer: Bosch

Replacing: 1006209782

ID 13.50, OD 27.80, OD/housing 53.35, Total length 82.50, No./teeth 10, Drive type Steel, Rotation CW

Alternative no.: 333895



### 335322 5★ Drive

Manufacturer: Bosch

Replacing: 1006209834, 1006209864, 1986SE1643

Servicing: 0001115078, 0001115079, 0001115114, 0001115116, 0001115117

ID 12.00, OD 35.70, OD/housing 50.40, Total length 50.50, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW



### 335332 Drive

Replacing: 1006210228, 1006210229

Servicing: 0001109379, 0001109397, 0001109398

ID 12.00, OD 32.10, OD/housing 52.40, OD/teeth 32.10, Total length 56.40, Splines A 10, No./teeth 12, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335338 Drive

Replacing: 1006210218

Servicing: 0001121416, 0001121417, 0001121435, 0001121436

ID 13.60, OD 28.20, OD/housing 45.40, OD/teeth 27.80, Total length 93.65, No./teeth 11, Drive type Steel, Rotation CCW



### 335352 Drive

Replacing: 6004AH5018

ID 11.00, OD 27.20, OD/housing 46.40, Total length 49.00, Splines A 10, No./teeth 8, Drive type Steel, Rotation CW



### 335364 Drive

Replacing: 1006210182

Servicing: 0001138013, 0001138014, 0001138067, 0001138068

ID 12.00, OD 33.00, OD/housing 48.40, OD/teeth 33.00, Total length 51.40, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335365 Drive

Replacing: 1006210912

Servicing: 0001138015, 0001138016

ID 12.00, OD 27.50, OD/housing 48.40, OD/teeth 12.90, Total length 51.00, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335366 Drive

Replacing: 1006210220, 1006210909

Servicing: 0001147401, 0001147402, 0001147403, 0001147405, 0001147406, 0001147407, 0001147420, 0001147421

ID 12.00, OD 27.60, OD/housing 48.50, OD/teeth 27.90, Total length 76.00, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335367 Drive

Replacing: 1006210911

Servicing: 0001147408, 0001147409

ID 12.00, OD 33.90, OD/housing 48.50, OD/teeth 33.90, Total length 52.20, Splines A 10, No./teeth 13, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o





**335368** Drive  
 Replacing: 1006210928  
 Servicing: 0001153005, 0001153006  
 ID 11.00, OD 28.20, OD/housing 51.50,  
 OD/teeth 18.80, Total length 94.20,  
 No./teeth 22, Drive type Steel,  
 Rotation CCW, Key spline w/o, Lock w/o



**335369** Drive  
 Replacing: 1006385079  
 Servicing: 0001153013, 0001153014,  
 0001153020, 0001153019  
 ID 11.00, OD 18.70, OD/housing 50.40,  
 Total length 88.80, No./teeth 22,  
 Drive type Steel, Rotation CW,  
 Key spline w/o, Lock w/o



**335396** Drive  
 Replacing: 2006380209  
 Servicing: 0001330050, 0001330014,  
 0001330067, 0001330068, 0001330071,  
 0001330072, 0001330073, 0001330076  
 OD/housing 78.60, Total length 69.50,  
 Splines A 12, Drive type Steel,  
 Key spline w/o, Lock w/o



**335405** Drive  
 Replacing: 1006209657, 1006209757,  
 1007010105  
 ID 11.00, OD 28.20, OD/housing 47.70,  
 OD/teeth 25.40, Total length 81.00,  
 No./teeth 9, Drive type Steel,  
 Rotation CCW  
 Alternative no.: 230339



**335413** Drive  
 Replacing: 1006209461  
 Servicing: 0001314024, 0001316009,  
 B001315049, B001328022  
 ID 12.00, OD 41.00, OD/housing 47.00,  
 Total length 64.50, Splines A 10,  
 No./teeth 11, Drive type Steel,  
 Rotation CW, Key spline w/o, Lock w/o



**335482** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209591  
 Servicing: 0001314005, 0001314028,  
 0001314029, 0001314030, 0001314041  
 ID 12.00, OD 27.80, OD/housing 48.35,  
 Total length 79.50, Splines A 10,  
 No./teeth 10, Rotation CCW  
 Alternative no.: 134371



**335488** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 6033AD0070  
 ID 12.00, OD 36.30, OD/housing 57.30,  
 Total length 64.00, Splines A 10,  
 No./teeth 9, Rotation CW  
 Alternative no.: 235839



**335500** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 9003336290  
 ID 12.00, OD 38.85, OD/housing 53.25,  
 Total length 51.50, Splines A 10,  
 No./teeth 10, Rotation CW,  
 Key spline w/o, Lock w/o  
 Alternative no.: 233829



**335502** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 2008109203  
 ID 15.50, OD 41.55, OD/housing 58.15,  
 Total length 118.10, No./teeth 11,  
 Drive type Steel, Rotation CW,  
 Key spline w/o, Lock w/o  
 Alternative no.: 138308



**335510** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209612  
 ID 12.00, OD 29.65, OD/housing 48.40,  
 Total length 58.60, Splines A 10,  
 No./teeth 11, Rotation CCW  
 Alternative no.: 333886



**335517** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209755, 1986SE1632  
 ID 13.50, OD 29.00, OD/housing 53.40,  
 Total length 91.80, No./teeth 9,  
 Drive type Steel, Rotation CW



**335522** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209535  
 ID 12.00, OD 25.35, OD/housing 47.50,  
 Total length 58.75, Splines A 10,  
 No./teeth 9, Drive type Steel,  
 Rotation CCW  
 Alternative no.: 136723





**335534** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 9002336226  
 ID 12.00, OD 37.20, OD/housing 57.20,  
 Total length 63.00, Splines A 10,  
 No./teeth 9, Rotation CW  
 Alternative no.: 136743



**335539** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209674  
 Servicing: 0001109042, 0001109020  
 ID 12.00, OD 29.30, OD/housing 53.50,  
 Total length 51.15, Splines A 10,  
 No./teeth 9, Drive type Steel, Rotation CW



**335546** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1986SE3752, 2006209550  
 ID 14.50, OD 43.80, OD/housing 61.80,  
 Total length 83.25, Splines A 10,  
 No./teeth 11, Drive type Steel,  
 Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333344



**335547** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209541, 1986SE1619  
 ID 12.00, OD 29.70, OD/housing 53.40,  
 Total length 58.80, Splines A 10,  
 No./teeth 11, Drive type Steel,  
 Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 132204



**335554** 5★ Drive  
 Manufacturer: Bosch  
 Replacing: 1006209669  
 Servicing: 0001109034  
 ID 12.00, OD 38.80, OD/housing 53.40,  
 Total length 50.80, Splines A 10,  
 No./teeth 10, Rotation CW  
 Alternative no.: 233829



**335558** Drive  
 Replacing: 6033AD0184, 6033AD0200,  
 6033AD3110, 6033AD3334, 9002336237  
 Servicing: 0001230018, 0001230020, 0001230021,  
 0001230022, 0001230025, 0001230026  
 ID 14.30, OD 40.00, OD/housing 61.20,  
 Total length 82.50, Splines A 10,  
 No./teeth 10, Drive type Steel,  
 Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 231756, 333185



**335579** Drive  
 Replacing: 1006210216, 1006210237  
 Servicing: 0001148003, 0001148004  
 ID 12.00, OD 35.00, OD/housing 48.60,  
 Total length 52.60, No./teeth 11,  
 Drive type Steel, Rotation CW,  
 Key spline w/o, Lock w/o



**335587** Drive  
 Servicing: 0001136007  
 ID 12.00, OD 32.00, OD/housing 48.20,  
 Total length 51.10, Splines A 10,  
 No./teeth 12, Drive type Steel,  
 Rotation CW, Key spline w/o, Lock w/o



**335615** Drive  
 Replacing: 9002336201  
 Servicing: 0001218812  
 ID 12.02, OD 39.60, OD/housing 60.20,  
 OD/teeth 39.60, Total length 69.00,  
 Splines A 10, No./teeth 10,  
 Drive type Steel, Rotation CW,  
 Key spline w/o, Lock w/o



**335616** Drive  
 Replacing: 1006210208  
 ID 12.00, OD 33.60, OD/housing 53.20,  
 Total length 50.50, Splines A 10,  
 No./teeth 11, Rotation CW,  
 Key spline w/o



**335619** Drive  
 Replacing: 1006209985  
 Servicing: 0001109069, 0001109070  
 ID 12.00, OD 34.50, OD/housing 52.50,  
 OD/teeth 34.50, Total length 54.50,  
 Splines A 10, No./teeth 11,  
 Drive type Steel, Rotation CW,  
 Key spline w/o, Lock w/o



**335620** Drive  
 Replacing: 1006210172, 1006210176  
 Servicing: 0001138020  
 ID 12.00, OD 33.00, OD/housing 48.00,  
 Total length 64.00, Splines A 10,  
 No./teeth 10, Drive type Steel,  
 Rotation CW



## NEW PRODUCT

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### 335631

Drive

Replacing: 2006209536, 2006209930

Servicing: 0001367074, 0001367300, 0001367301, 0001367303, 0001368300, 0001368307, 0001368309, 0001368315

ID 14.25, OD 34.30, OD/housing 59.77, Total length 91.15, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 235701



### 335633

Drive

Replacing: 6033AD3336

ID 14.30, OD 39.90, OD/housing 62.00, Total length 83.00, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Lock w/o

Alternative no.: 235849

## NEW PRODUCT

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### 335642

Drive

Replacing: 2006209425, 2006209494

Servicing: 0001362018, 0001362064, 0001362301, 0001362303, 0001362304, 0001363118, 0001363121, 0001366008

ID 14.35, OD 40.80, OD/housing 60.20, Total length 91.20, Splines A 10, No./teeth 11, Rotation CW

Alternative no.: 131271, 333217

## NEW PRODUCT

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### 335643

Drive

Replacing: 1987MN0175, 2006209408, 2006209410, 2006209423, 2006209438, 2006209440

Servicing: 0001359053

ID 14.30, OD 40.10, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 11, Rotation CW

Alternative no.: 131270



### 335644

Drive

Replacing: 2006209466

ID 14.25, OD 46.40, OD/housing 59.60, OD/teeth 46.40, Total length 73.50, Splines A 10, No./teeth 12, Rotation CW

Alternative no.: 131344



### 335645

Drive

Replacing: 2006209498, 2006209533, 2006209539, 2006209932

ID 14.30, OD 37.80, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW

Alternative no.: 131475



### 335648

Drive

Replacing: 1006209523

ID 12.00, OD 27.90, OD/housing 52.40, OD/teeth 27.90, Total length 64.80, Splines A 10, No./teeth 10, Rotation CW

Alternative no.: 131995



### 335649

Drive

Replacing: 2006209531, 2006209537, 2006209541, 2006209933

Servicing: 40.50, 0001364102, 0001364200, 0001364203, 0001364300, 0001368015, 0001368037, 0001368056, 0001368305

ID 14.30, OD 40.50, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 11, Rotation CW

Alternative no.: 132000



### 335650

Drive

Replacing: 2006209426

ID 14.30, OD 34.40, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW

Alternative no.: 134282



### 335723

Drive

Replacing: 1006210331

Servicing: 0001170604

ID 11.00, OD 32.10, OD/housing 47.00, Total length 52.00, Splines A 16, No./teeth 12, Drive type Steel, Rotation CW

## NEW PRODUCT

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### 335787

Drive

Replacing: 1006210317

Servicing: 0001172406, 0001172407

ID 11.00, OD 37.10, OD/housing 47.50, Total length 55.00, Splines A 16, No./teeth 12, Rotation CW



### 335789

Drive

Replacing: 1006210926

Servicing: 0001138017

ID 12.00, OD 29.70, OD/housing 47.50, Total length 54.00, Splines A 10, No./teeth 9, Rotation CW





### 335810 Drive

Replacing: 1006209653, 1006209751, 1006209947, 1986SE1626

Servicing: 0001109041

ID 12.00, OD 25.40, OD/housing 52.50, Total length 50.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW

Alternative no.: 233720



### 335815 Drive

Replacing: 1006209805, 1006209808, 1006209814, 1006209958

Servicing: 0001107411

ID 11.00, OD 29.20, OD/housing 45.50, Total length 48.50, Splines A 16, No./teeth 9, Rotation CW

Alternative no.: 234946



### 335818 Drive

Replacing: 1006209683, 1987MN0172

Servicing: 0001107083

ID 12.00, OD 34.80, OD/housing 47.00, Total length 51.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW

**NEW PRODUCT**  
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### 335822 Drive

Replacing: 1006210929

Servicing: 0001136005, 0001136006

ID 12.00, OD 32.01, OD/housing 50.26, Total length 51.40, Splines A 16, No./teeth 12, Drive type Steel, Rotation CW



### 335828 Drive

Replacing: 1006210260

Servicing: 0001172400, 0001172401

ID 11.04, OD 27.90, OD/housing 44.90, Total length 56.30, Splines A 16, No./teeth 10, Drive type Steel, Rotation CW

**NEW PRODUCT**  
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### 335834 Drive

Replacing: 1006210342

Servicing: 0001147425, 0001147424

ID 12.00, OD 35.00, OD/housing 51.00, Total length 51.50, No./teeth 11, Rotation CW



### 335836 Drive

Replacing: 1006210274

Servicing: 0001170400

ID 11.00, OD 28.00, OD/housing 45.00, Total length 51.50, Splines A 16, No./teeth 10, Drive type Steel, Rotation CW

**NEW PRODUCT**  
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### 335853 Drive

Replacing: 1006210316

Servicing: 0001170200, 0001170201, 0001172204, 0001172205

ID 11.00, OD 34.60, OD/housing 48.00, Total length 55.00, Splines A 16, No./teeth 13, Rotation CW

## Drive Parts

### Caps



### 134210 Drive Cap

Replacing: 1000500018

Servicing: 0001139408

ID 52.15, OD 53.80, Height 21.60

Pkg. 25



### 134211 Drive Cap

ID 56.05, OD 58.25, Height 21.65

Pkg. 100



### 134250 Drive Cap

Servicing: 1006209570

ID 46.10, OD 47.20, Height 18.35

Pkg. 50



### 134257 Drive Cap

ID 50.17, OD 51.90, Height 18.60

Pkg. 10



### 134258 Drive Cap

ID 52.20, OD 54.20, Height 19.45





Pkg. 50

**139299** Drive Cap  
ID 46.15, OD 47.50, Height 18.50,  
Rubber w/o



Pkg. 25

**230387** Drive Cap  
Servicing: 0001223504  
ID 58.00, OD 59.75, Height 26.80

#### Rollers



Pkg. 1000

**134214** Roller  
OD 7.00, Length 9.00



Pkg. 500

**134216** Roller  
Servicing: 0001223504  
OD 7.00, Length 13.90



Pkg. 2000

**134241** Roller  
Replacing: 1003200018  
Servicing: 0001147400, 0001147404,  
1006209570  
OD 6.00, Length 7.90



Pkg. 1000

**134245** Roller  
OD 7.00, Length 11.80



Pkg. 100

**134913** Roller  
Servicing: 1006209570  
OD 6.10, Length 7.90



Pkg. 1000

**135377** Roller  
Servicing: 1006209570  
OD 6.00, Length 8.00



Pkg. 100

**235141** Roller  
Servicing: 1006209796, 1006209797,  
1006209801, 1006209804, 1006209807  
OD 4.96, Length 6.93



Pkg. 500

**331014** Roller  
OD 6.05, Length 9.00



Pkg. 100

**331015** Roller  
OD 7.05, Length 14.00



Pkg. 100

**333362** Roller  
OD 5.00, Length 9.75

#### Springs



Pkg. 2000

**134279** Dp Springs  
Replacing: 1004611018  
Servicing: 0001139408, 0001147400,  
0001147404, 1006209570  
ID 3.35, OD 4.35, Length 12.65,  
Material Steel



Pkg. 250

**134280** Dp Springs  
ID 3.80, OD 5.00, Length 17.00,  
Material Steel

#### Spring/Roller Retainer



Pkg. 25

**134225** Spring/roller retainer  
Replacing: 1000139015  
Servicing: 0001139408  
ID 30.00, OD 50.95, Thickness 5.15,  
Material Plastic, Bushing w/o





**134259** Spring/roller retainer  
Servicing: 1006209570, 0001109290  
ID 28.70, OD 45.55, Thickness 1.75,  
Material Plastic, Bushing w/o



**134272** Spring/roller retainer  
ID 32.45, OD 45.25, Material Plastic,  
Bushing w/o

Pkg. 10



**134923** Spring/roller retainer  
Servicing: 0001223504  
ID 32.55, OD 56.75, Thickness 0.75,  
Material Nylon, Bushing w/o

Pkg. 24



**134924** Spring/roller retainer  
Servicing: 0001223504  
ID 33.00, OD 45.65, Thickness 17.70,  
Material Nylon, Bushing w/o

Pkg. 25



**134978** Spring/roller retainer  
ID 31.40, OD 54.95, Thickness 5.00,  
Material Plastic, Bushing w/o

## Pinion



**134188** Pinion  
ID 12.00, OD 29.00, Height 26.85,  
No./teeth 9, Bushing w/



**134192** Pinion  
ID 14.00, OD 34.00, Height 42.45,  
No./teeth 9, Bushing w/

Pkg. 5



**134236** Pinion  
Servicing: 1006209570  
ID 12.00, OD 25.35, Height 26.90,  
No./teeth 9, Bushing w/



**136679#** Pinion  
ID 12.70, OD 25.15, Height 65.70,  
No./teeth 9, Bushing w/



**237769** Pinion  
Manufacturer: Bosch  
Replacing: 1986SE3753, 2006382416,  
2006382438, 6033AC5149, 6033AC5246,  
6033AC5394, 6033AD5395  
Servicing: 0001241001, 0001241003,  
0001241004, 0001241005, 0001241006,  
0001241007, 0001241009, 0001241014  
ID 25.60, OD 45.10, Height 22.70,  
No./splines 19, No./teeth 12  
Alternative no.: 333398



**333398** Pinion  
Replacing: 1986SE3753, 2006382438,  
2007010160, 6033AC5394  
Servicing: 0001261041, 0001261072  
OD 44.90, Height 23.20, No./splines 19,  
No./teeth 12  
Alternative no.: 237769



**336860** Pinion  
Replacing: 1006318202, 1006385041  
Servicing: 0001142001, 0001142002,  
0001153001, 0001153002, 0001153005,  
0001153006, 0001145001  
ID 20.00, OD 34.50, Height 20.80,  
Height/collar 6.10, No./splines 22,  
No./teeth 13, Bushing w/o

## Washers

Pkg. 100



**134223#** DP Washer  
Replacing: 1000103005  
Servicing: 0001139408, 0001147400,  
0001147404, 1006209570  
ID 12.35, OD 19.65, Thickness 2.00,  
Material Steel, Bushing w/o

Pkg. 25



**134708** DP Washer  
ID 18.00, OD 28.00, Thickness 4.00,  
Material Rubber, Bushing w/o



**134709** Rubber Washer  
ID 27.85, OD 58.80, OD/collar 34.00,  
Height/collar 2.55, Thickness 1.60,  
Material Rubber, Bushing w/o  
Improved version.





Pkg. 100

**134757** DP Washer  
ID 24.90, OD 45.00, Thickness 1.60,  
Bushing w/o



Pkg. 100

**134764** Fiber Washer  
Replacing: 1000207006  
Servicing: 00010DB98E, 0001105205,  
0001106011, 0001106012, 0001106014,  
0001106015, 0001106016, 0001106017  
ID 18.50, OD 23.50, Thickness 1.60,  
Material Fiber



Pkg. 100

**134770** Washer  
Replacing: 1000207001  
Servicing: 0001106405, 0001106406,  
0001106407, 0001106409, 0001106410,  
0001107401, 0001107402, 0001107403  
ID 20.50, OD 25.80, Thickness 1.60,  
Material Fiber, Bushing w/o

### Various



**230091** Dust Cover Kit  
Servicing: 0001120400, 0001120407,  
0001120409, 0001120411, 0001121018,  
0001121019, 0001121024, 0001121025  
For 10 teeth drives.



**230338** Dust Cover Kit  
Servicing: 0001120402, 0001123001,  
0001124015, 0001124020, 0001124021,  
0001125009, 0001125036, 0001125053  
For 9 teeth drives.



**331021** Dust Cover Kit  
Servicing: 0001121023, 0001125016,  
0001125017, 0001125019, 0001125605  
ID/housing 8.00, OD/housing 11.50,  
Thickness 1.50, Type Rounded,  
Material Steel

### Planet Gears



**133456** Planet Gear  
Replacing: 1006200006, 1006200187  
Servicing: 0001110004, 0001110007,  
0001110008, 0001110011  
Shaft dia./front 11.90,  
Total length 136.60, No./splines 10



**133457** Planet Gear  
Manufacturer: Bosch  
Replacing: 1006200015, 1006200984  
Servicing: 0001109009, 0001110003,  
0001110005, 0001110024, 0001110025,  
0001110042, 0001110055, 0001110082  
Shaft dia./front 11.90,  
Total length 136.50, No./splines 10



**133459** Planet Gear  
Replacing: 1003200056, 1006200001,  
1006200005, 1006200010, 1006200018,  
1006200022, 1006200056, 1006200123  
Servicing: 0001107061, 0001108001,  
0001108002, 0001108004  
Shaft dia./front 11.90,  
Total length 133.25, No./splines 10



**135068** Planet Gear  
Manufacturer: Bosch  
Replacing: 1006200037, 1006200130, 1006200910  
Servicing: 0001107003, 0001107004,  
0001107022, 0001107023  
Shaft dia./front 11.90, Total length 148.20,  
No./splines 10, Rotation CCW



**135069** Planet Gear  
Replacing: 1006200014, 1006200900  
Servicing: 0001108021, 0001108121,  
0001108147, B001111069  
Shaft dia./front 11.90, Total length 138.40,  
No./splines 10, Rotation CCW



**135071** Planet Gear  
Replacing: 9001337059  
Servicing: 0001218002, 0001218004,  
0001218005, 0001218009, 0001218011,  
0001218013, 0001218025, 0001218027  
Shaft dia./front 11.90,  
Total length 145.45, No./splines 10



**135072** Planet Gear  
Replacing: 9001337056, 9001337062,  
9003336268  
Servicing: 0001218006, 0001218016,  
0001218021, 0001218029, 0001218108  
Shaft dia./front 11.90,  
Total length 144.60, No./splines 10





### 135073 Planet Gear

Replacing: 9001337057, 9003336296, 9003337014

Servicing: 0001218101, 0001218111, 0001218112, 0001218130, 0001218132, 0001218134

Shaft dia./front 11.93,  
Total length 144.80, No./splines 10



### 135074 Planet Gear

Replacing: 9001337058, 9003336299

Servicing: 0001218002, 0001218004, 0001218005, 0001218007, 0001218008, 0001218009

Shaft dia./front 11.90,  
Total length 144.90, No./splines 10



### 135598 Planet Gear

Manufacturer: Bosch

Replacing: 1006200012, 1006200183

Servicing: 0001110009, 0001110010, 0001110031

Shaft dia./front 11.90, Total length 160.95,  
No./splines 10, Rotation CCW



### 135601 5★ Planet Gear

Manufacturer: Bosch

Replacing: 1006200043, 1006200128

Servicing: 0001107007, 0001107008, 0001107020, 0001107021

Shaft dia./front 11.90, Total length 124.35,  
No./splines 10, Rotation CCW



### 136855 Planet Gear

Manufacturer: Bosch

Replacing: 1006200088

Servicing: 0001123003, 0001124001, 0001124002, 0001124003, 0001124004, 0001124005, 0001124006, 0001124013

Shaft dia./front 14.15, Total length 116.45,  
No./splines 16, Rotation CCW



### 137328 Planet Gear

Manufacturer: Bosch

Replacing: 1006200069, 1006200127

Servicing: 0001107025, 0001107026, 0001107103, 0001107104, B001110114

Shaft dia./front 11.90,  
Total length 139.70, No./splines 10



### 137464 5★ Planet Gear

Manufacturer: Bosch

Replacing: 1006200117

Servicing: 0001125001, 0001125002, 0001125005, 0001125006, 0001125007, 0001125008, 0001125009, 0001125010

Shaft dia./front 14.00, Total length 109.65,  
No./splines 16, Rotation CCW



### 137755 Planet Gear

Replacing: 1006200061, 1006200071, 1006200081, 1006200111

Servicing: 0001108125, 0001108128, 0001108132

Shaft dia./front 11.90,  
Total length 132.45, No./splines 10



### 137884 Planet Gear

Replacing: 1006200101

Servicing: 0001109015, 0001109052, 0001109055, 0001109062, 0001109068, 0001109202, 0001109203, 0001109307

Shaft dia./front 11.90,  
Total length 129.25, No./splines 10



### 137886 5★ Planet Gear

Replacing: 1006200100, 1006200109, 1006200118

Servicing: 0001124007, 0001124008, 0001124011, 0001124012, 0001124022, 0001124023

Shaft dia./front 14.20, Total length 128.50,  
No./splines 16, Rotation CCW



### 137921 Planet Gear

Replacing: 1006200087, 1006200145

Servicing: 0001107037, 0001107048, 0001108157, 0001108169

Shaft dia./front 11.92, Total length 120.71,  
No./splines 10, Rotation CW



### 138325 5★ Planet Gear

Manufacturer: Bosch

Replacing: 1006200096, 1006200099

Servicing: 0001109014, 0001109018, 0001109025, 0001109026

Shaft dia./front 11.90,  
Total length 125.15, No./splines 10





**138916** Planet Gear  
**Manufacturer:** Bosch  
**Replacing:** 1006200072, 1006200148, 1006200153  
**Servicing:** 0001106011, 0001106015, 0001106019, 0001107030, 0001107075, 0001107077, 0001107079, 0001107088  
**Shaft dia./front** 11.90,  
**Total length** 110.75, **No./splines** 10



**138920** Planet Gear  
**Replacing:** 1006200055, 1006200184  
**Servicing:** 0001110061, 0001110062, 0001110069, 0001110070, 0001110084  
**Shaft dia./front** 11.90, **Total length** 162.00,  
**No./splines** 10, **Rotation** CCW



**230158** Planet Gear  
**Replacing:** 1006200027  
**Servicing:** 0001109011, 0001109012, 0001110033, B001117229  
**Shaft dia./front** 11.90,  
**Total length** 136.65, **No./splines** 10



**230830** Planet Gear  
**Replacing:** 1006200126  
**Servicing:** 0001125055, 0001125056, 0001125501, 0001125502, 0001125503, 0001125504, 0001125507, 0001125508  
**Shaft dia./front** 14.15, **Total length** 115.85,  
**No./splines** 16, **No./teeth** 38  
**Gear wheel:** HC-CARGO 134066.



**231202** 5★ Planet Gear  
**Manufacturer:** Bosch  
**Replacing:** 1006200137  
**Servicing:** 0001121006, 0001121007, 0001121008, 0001121009, 0001121010, 0001121011, 0001121016, 0001121017  
**Shaft dia./front** 10.90, **Total length** 114.15,  
**No./splines** 16, **Rotation** CCW



**233580** 5★ Planet Gear  
**Manufacturer:** Bosch  
**Replacing:** 1006200141  
**Servicing:** 0001107062, 0001107083, 0001107051  
**Shaft dia./front** 11.90,  
**Total length** 119.20, **No./splines** 10



**234085** 5★ Planet Gear  
**Manufacturer:** Bosch  
**Replacing:** 1006200136  
**Servicing:** 0001109034, 0001109063  
**Shaft dia./front** 11.90,  
**Total length** 121.30, **No./splines** 10



**234323** Planet Gear w/ Drive  
**Servicing:** 0001230006, 0001231002  
**Shaft dia./front** 14.10,  
**Total length** 172.00, **No./splines** 10,  
**No./teeth** 9, **Rotation** CW



**234396** 5★ Planet Gear  
**Manufacturer:** Bosch  
**Replacing:** 6033AD0053  
**Servicing:** 0001223001, 0001223008, 0001223009, 0001223010, 0001223013, 0001223014, 0001223022  
**Shaft dia./front** 11.90,  
**Total length** 137.25, **No./splines** 16



**235025** Planet Gear  
**Manufacturer:** Bosch  
**Replacing:** 1006200303, 1006200304, 1006200306, 1006200307, 1006200309, 1006200972  
**Servicing:** 0001107401, 0001107403, 0001107404, 0001107405, 0001107406, 0001107407, 0001107408, 0001107411  
**Shaft dia./front** 11.00, **Total length** 109.70,  
**No./splines** 16, **Rotation** CW



**235399** 5★ Planet Gear  
**Manufacturer:** Bosch  
**Replacing:** 1006200301, 1006200302, 1006200310, 1006200493  
**Servicing:** 0001107401, 0001107402, 0001107403, 0001107406, 0001107407, 0001107409  
**Shaft dia./front** 10.95, **Total length** 110.00,  
**No./splines** 16, **Rotation** CW  
**Alternative no.:** 335801



**235579** Planet Gear  
**Replacing:** 1006200178  
**Servicing:** 0001109045, 0001109201, 0001109250, 0001110132, F000AL0115, F002G20795, 6004AA3014  
**Shaft dia./front** 12.00,  
**Total length** 123.00, **No./splines** 10





### 237668 Planet Gear

Replacing: 1006200218

Servicing: 0001109300, 0001109301, 0001109332, 0001109333, 0001109344, 0001109345, 0001109369, 0001109370

Shaft dia./front 12.00, Total length 130.20, No./splines 10, No./teeth 38



### 239780 Planet Gear

Replacing: 1006200319, 1007010128

Servicing: 0001107433, 0001107434, 0001107438, 0001107439, 0001107440

Shaft dia./front 10.97, Total length 109.11, No./splines 10, Rotation CW



### 330127 5★ Planet gear

Manufacturer: Bosch

Replacing: 1006200227

Servicing: 0001108230, 0001108231, 0001115047, 0001115048, 0001115074, 0001115075, 0001115080, 0001115081

Shaft dia./front 11.98, Total length 119.00, No./splines 10, Rotation CW



### 333358 5★ Planet Gear w/ clutch

Manufacturer: Bosch

Replacing: 1986SE3755, 6033AD5359

Servicing: 0001241008, 0001241012, 0001241024, 0001241119, 0001261003, 0001261004, 0001261005, 0001261006

Total length 137.60, No./splines 14, No./teeth 41, Rotation CW



### 333405 Planet Gear

Replacing: 1006200230, 1006200490, 1986SE1781

Servicing: 0001105205, 0001109205, 0001109304, 0001109305, 0001109324, 0001109325, 0001109328

Shaft dia./front 12.00, Total length 129.00, No./splines 10, Rotation CW



### 333423 Planet Gear

Replacing: 1006200929

Servicing: 0001115078, 0001115079, 0001115114, 0001115115, 0001115116, 0001115117

Shaft dia./front 11.98, Total length 121.00, No./splines 10, Rotation CW



### 333464 Planet Gear

Replacing: 1006200342

Servicing: 0001109306, 0001109321, 0001109322, 0001109342, 0001109343, 0001109365, 0001109366, 0001109375

Shaft dia./front 11.98, Total length 132.00, No./splines 10



### 333550 5★ Planet Gear

Manufacturer: Bosch

Replacing: 1006200316, 1986SE1615

Servicing: 0001107429, 0001107431, 0001107432, 0001107437, F002G20485, F002G20917, F002G70069, 0001107444

Shaft dia./front 10.91, Total length 109.44, No./splines 10, No./teeth 16, Rotation CW



### 333594 5★ Planet Gear

Manufacturer: Bosch

Replacing: 6033AD3306, 6033AD3310, 9001336244

Servicing: 0001230004, 0001230005, 0001230006, 0001230007, 0001230009, 0001230013, 0001230027, 0001230030

Shaft dia./front 14.10, Total length 180.50, No./splines 10, No./teeth 13



### 335588 Planet Gear

Replacing: 1006200541

Servicing: 0001136005, 0001136006, 0001136007, 0001136008

Shaft dia./front 12.00, Total length 116.00, No./splines 10

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### 335591 Planet Gear

Replacing: 1006200517

Servicing: 0001139066, 0001139085, 0001139086, 0001149408, 0001149409, 0001139043, 0001139044, 0001139071

Shaft dia./front 12.00, Total length 124.00, No./splines 16

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### 335684 Planet Gear

Replacing: 6033AD3305

Servicing: 0001230021, 0001230026

Shaft dia./front 14.15, Total length 180.50, No./splines 10, Rotation CW



## NEW PRODUCT

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### 335692 Planet Gear

Replacing: 2007010152

Servicing: 0001260004, 0001260025, 0001260026, 0001262002, 0001262006, 0001262007, 0001262008, 0001262019

Shaft dia./front 14.15, Total length 180.50, No./splines 10, Rotation CW

## NEW PRODUCT

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### 335763 Planet Gear

Replacing: 1006200566

Servicing: 0001177008, 0001177009, 0001177012, 0001177013, 0001179512, 0001179513, 0001179514, 0001179515

Shaft dia./front 11.00, Total length 127.60, No./splines 16, No./teeth 3, Rotation CCW



### 335786 Planet Gear

Replacing: 1006200553

Servicing: 0001172407, 0001172204

Shaft dia./front 11.00, Total length 124.50, No./splines 16, Rotation CW



### 335801 Planet Gear

Replacing: 1006200493

Servicing: 0001107407

Shaft dia./front 11.00, Total length 109.50, No./splines 16

Alternative no.: 235399

## Gear Parts

### Outer Gear



Pkg. 5

### 131503 Outer Gear

Replacing: 1005821300, 1005821307

Servicing: 0001106001, 0001106002, 0001106015, 0001107005, 0001107006, 0001107092, 0001108004, 0001108019

ID 46.75, OD 70.00, Height 23.50, Height/collar 2.98, No./teeth 37, Bushing w/



Pkg. 5

### 132123 Outer Gear

Replacing: 1005821303

Servicing: 0001109003, 0001109008, 0001109011, 0001109012, 0001110001, 0001110002, 0001110004, 0001110005

ID 52.50, OD 74.00, Height 39.70, Height/collar 3.30, No./teeth 42, Bushing w/



### 135077 Outer Gear

Replacing: 9002338850

Servicing: 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009

ID 52.50, OD 86.00, Height 30.00, Height/collar 2.43, No./teeth 42, Bushing w/



Pkg. 5

### 135078 Outer Gear

Replacing: 1005821312

Servicing: 0001106014, 0001107003, 0001107004, 0001107007, 0001107008, 0001107009, 0001107011, 0001107012

ID 46.75, OD 70.00, Height 17.00, Height/collar 3.29, No./teeth 37, Bushing w/



Pkg. 5

### 135079 Outer Gear

Replacing: 1005821313

Servicing: 0001109001, 0001109002

ID 53.00, OD 74.00, Height 17.50, Height/collar 2.93, No./teeth 42, Bushing w/



Pkg. 5

### 137812 Outer Gear

ID 46.90, OD 70.00, Height 17.50, Height/collar 2.86, No./teeth 37, Bushing w/



Pkg. 5

### 138991 Outer Gear

Replacing: 1005821321, 138991

Servicing: 0001107077, 1006200062, 1006200063, 1006200072, 0001115081, 0001115080, 0001115074, 0001115075

ID 44.65, OD 70.00, Height 16.50, Height/collar 3.36, No./teeth 36, Bushing w/



### 231751 Outer Gear

Replacing: 9003337009

Servicing: 0001230001, 0001230002, 0001230003, 0001230004, 0001230005, 0001230006, 0001230007, 0001230008

ID 62.00, OD 90.00, Height 40.00, Height/collar 2.72, No./teeth 42, Bushing w/





Pkg. 5

**233497** Outer Gear  
 Servicing: 1006200136  
 ID 48.75, OD 74.00, Height 17.50,  
 Height/collar 3.52, No./teeth 38,  
 Bushing w/



Pkg. 5

**235105** Outer Gear  
 Servicing: 1006200138, 1006200162  
 ID 46.50, OD 70.00, Height 24.00,  
 Height/collar 3.33, No./teeth 37,  
 Bushing w/

#### Gear Covers



Pkg. 5

**133466** Gear Cover  
 Replacing: 1005821308, 1005821352  
 Servicing: 0001107014, 0001107016,  
 0001107017, 0001107018, 0001107027,  
 0001107028, 0001107041, 0001108001  
 ID 18.00, OD 69.50, Height 28.00



Pkg. 5

**133467** Gear Cover  
 Replacing: 1005321306, 1005821306  
 Servicing: 0001109040, 0001110003,  
 0001110016, 0001110017, 0001110026,  
 0001110028, 0001110029, 0001110030  
 ID 18.00, OD 74.00, Height 32.60



Pkg. 5

**135970** Gear Cover  
 Replacing: 1005821328, 1005821362  
 Servicing: 0001115068, 0001115069,  
 0001121023, 0001147400, 0001147404  
 ID 17.90, OD 70.00, Height 25.00



Pkg. 5

**139143** Gear Cover  
 Replacing: 1005821333, 1005821336  
 Servicing: 0001109315, 0001124020,  
 0001124021, 0001125053, 0001125054,  
 0001139408, 0001109290, 0001139041  
 ID 18.00, OD 68.50, OD 2 73.80,  
 Height 27.00

#### Gear Wheels



**132604** Gear Wheel  
 Replacing: 9001140322  
 Servicing: 0001218029, B001233158  
 ID 52.00, OD 86.00, Height 14.25,  
 No./teeth 42, Bushing w/o



**134035** Gear Wheel Kit  
 Servicing: 0001223504, 1006200006,  
 1006200021, 1006200902  
 ID 9.95, OD 19.30, Height 10.50,  
 No./teeth 13, Bushing w/o  
 w/ needle bearing.  
 Alternative no.: B134035



**134066** Gear Wheel Kit  
 Servicing: 1006200015  
 Shaft dia./front 2.10, Total length 10.50,  
 No./splines 12, Rotation CW/CCW



**134516** Gear Wheel  
 Servicing: 0001115068, 0001115069,  
 0001147400, 0001147404, 1006200017  
 ID 46.78, OD 57.70, Height 10.00,  
 No./teeth 37, Bushing w/o



**135080** Gear Wheel  
 ID 52.23, OD 62.00, Height 13.50,  
 No./teeth 42, Bushing w/o



**138989** Gear Wheel  
 Servicing: 0001124020, 0001124021,  
 0001125053, 0001125054, 0001139408  
 ID 48.70, OD 62.00, Height 13.50,  
 No./teeth 38, Bushing w/o



**139572** Gear Wheel Kit  
 Servicing: 0001121023, 0001125053, 0001125054  
 ID 5.00, OD 18.00, Height 9.50,  
 No./teeth 12, Bushing w/  
 Alternative no.: B139572





**235173** Gear Wheel  
**Replacing:** 1006334011, 235173  
**Servicing:** 0001107072, 0001121008, 0001121009, 0001121010, 0001121011, 0001121016, 0001121017, 0001121026  
**ID** 48.50, **OD** 58.00, **Height** 10.00,  
**No./teeth** 40, **Bushing** w/o

Pkg. 100



**B134035** Gear Wheel  
**ID** 9.95, **OD** 19.30, **Height** 10.50,  
**No./teeth** 13, **Bushing** w/o  
*w/ needle bearing*  
**Alternative no.:** 134035

Pkg. 10



**B139572** Gear Wheel  
**ID** 5.00, **OD** 18.00, **Height** 9.50,  
**No./teeth** 12, **Bushing** w/  
**Alternative no.:** 139572

### Gear Plates



**133469** Gear Plate  
**Servicing:** 0001109021, 0001109022, 0001109040, 0001110016, 0001110017, 0001110028, 0001110029, 0001110030  
**ID** 25.50, **OD** 74.00, **Material** Steel

Pkg. 5



**133475** Gear Plate  
**Replacing:** 1000520035  
**Servicing:** 0001107076, 1006200006, 1006200018  
**ID** 18.50, **OD** 60.00, **Thickness** 8.90,  
**Material** Steel

Pkg. 10



**133476** Gear Plate  
**Servicing:** 1006200015, 1006200021  
**ID** 25.50, **OD** 74.00, **Thickness** 9.00,  
**Material** Steel, **Gasket** w/o

Pkg. 5



**235136** Gear Plate  
**Servicing:** 0001106012, 0001106014, 0001106016, 0001106017, 0001106022, 0001106023, 0001106024, 0001107011  
**ID** 18.50, **OD** 70.00, **Thickness** 7.77

Pkg. 10



**235164** Gear Plate  
**Replacing:** 6033AC3200  
**Servicing:** 9001336244  
**ID** 27.30, **OD** 90.60, **Material** Steel

Pkg. 5

### Rubbers

Pkg. 3



**133478** Damping Rubber  
**Servicing:** 0001124020, 0001124021, 0001125053, 0001125054, 1006200019, 1006200902, 1006200904  
**Length** 20.00, **Thickness** 14.00

Pkg. 10



**135056** Damping Rubber  
**Length** 25.00, **Thickness** 14.00

Pkg. 10



**139173** Damping Rubber  
**Length** 15.00, **Thickness** 20.00

Pkg. 10



**232853** Damping Rubber  
**Replacing:** 9003332320  
**Servicing:** 0001230006, 0001230012, 0001230014, 0001230020, 0001230021, 0001230022, 0001230026, 0001230028  
**Length** 19.00, **Thickness** 30.00

Pkg. 10



**234887** Rubber Seal  
**Replacing:** 1001012005, 234887  
**Servicing:** 0001115068, 0001115069, 0001120411, 0001121023, 0001123044, 0001147400, 0001147404, 1006200017  
**Height** 20.00 mm. **Length** 12.00 mm.



## Rivets



Pkg. 10

### 135866 Rivet

Servicing: 1006200037

OD 6.00, OD/collar 12.50, Length 16.70, Height/collar 2.00, Collar w/

## Various



Pkg. 5

### 133470 Gear Ring

Replacing: 1000290037, 133470

Servicing: 0001108001, 0001108002, 0001108003, 0001108009, 0001108010, 0001108018, 0001108026, 0001108027

ID 50.52, OD 70.00, Height 17.25, Type Piston ring, Material Shockproof plastic, Collar w/o, Gasket w/o, O-ring w/o



### 133471 Gear Ring

Servicing: 0001109014, 0001109021, 0001109022, 0001109036, 0001109040, 0001110003, 0001110016, 0001110017

OD 74.00, Height 11.50



Pkg. 5

### 135971 Gear Ring

Servicing: 0001107014, 0001107016, 0001107017, 0001107018, 0001107027, 0001107028, 0001107037, 0001107041

ID 50.25, OD 70.00, Height 11.50, Gasket w/o, O-ring w/o



Pkg. 5

### 231382 Gear Ring

Replacing: 1000290013, 231382

Servicing: 0001107031, 0001107037, 0001107048, 0001107049, 0001107070, 0001107071, 0001107072, 0001108157

ID 50.30, OD 69.80, Height 2.50



Pkg. 10

### 231833 Gear Ring

Replacing: 1000290018, 231833

Servicing: 0001109014, 0001109018, 0001109025, 0001109026, 0001109030, 0001109033, 0001109036, 0001109041

ID 57.80, OD 74.30, Height 12.80, Material Plastic, Collar w/o, Gasket w/o, O-ring w/o



Pkg. 10

### 234227 Fiber Washer

Replacing: 9003330115

ID 22.00, OD 35.60, Thickness 1.00, Material Fiber, Bushing w/o



Pkg. 10

### 235073 Fiber Washer

Servicing: 0001218162, 0001218165, 0001218166, 0001218172, 0001223001, 0001223002, 0001223003, 0001223005

ID 19.00, OD 27.00, Thickness 1.00, Material Fiber, Bushing w/o



Pkg. 10

### 235074 Fiber Washer

Servicing: 0001218172, 0001223001, 0001223002, 0001223003, 0001223005, 0001223007, 0001223013, 0001223014

ID 18.00, OD 33.00, Thickness 1.00, Material Fiber, Bushing w/o



Pkg. 10

### 235299 Washer

Replacing: 1000101032, 235299

Servicing: 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106022, 0001106023

ID 18.10, OD 33.80, Thickness 0.80, Material Metal, Bushing w/o

## Levers



### 131138 Lever

Replacing: 2001933104, 2001933174, 2001933175

Servicing: 0001358048, 0001358049, 0001358050, 0001358051, 0001358200, 0001358201, 0001358202, 0001359008

Dist. 36.30, ID 8.35, Length 104.70, Plunger w/o



Pkg. 5

### 132808 Lever

Replacing: 1001933106, 1001933108, 1001933110, 1001933111

Servicing: 00010DB98E, 0001105205, 0001106001, 0001106002, 0001106004, 0001106011, 0001106012, 0001106014

Dist. 41.40, Length 86.50, Plunger w/o

Alternative no.: 333537 5★





### 135777 Lever

Manufacturer: Bosch

Replacing: 1001933101

Servicing: 0001208501, 0001208508, 0001208510, 0001208513, 0001208514, 0001208515, 0001208516, 0001208517

Dist. 40.35, Length 92.70, Plunger w/o



### 137617 Lever

Manufacturer: Bosch

Replacing: 2001933148, 2001933149

Servicing: 0001358049, 0001359008, 0001359014, 0001359016, 0001359020, 0001359023, 0001359025, 0001359027

Dist. 37.60, ID 8.20, Length 101.20, Plunger w/o



### 139060 Lever

Replacing: 2001933056

Servicing: 0001204102, 0001204103, 0001208044, 0001208049, 0001208051, 0001208052, 0001208053, 0001208054

Dist. 32.00, ID 5.90, Length 88.40, Plunger w/o

Pkg. 10



### 139700 Lever

Manufacturer: Bosch

Replacing: 6033AC4002, 9003331931

Servicing: 0001223500, 0001223501, 0001223502, 0001223503, 0001223504, 0001223505, 0001223506, 0001223507

Dist. 48.65, Length 99.50, Plunger w/o



### 139811 Lever

Replacing: 2001933021

Servicing: 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009

Dist. 37.90, ID 8.15, Length 109.50, Plunger w/o



### 233570 Lever

Manufacturer: Bosch

Replacing: 1001933126

Servicing: 0001106403, 0001106404, 0001106405, 0001106406, 0001106407, 0001106409, 0001106410, 0001107401

Dist. 31.20, Length 81.80, Plunger w/o

Pkg. 5



### 234890 Lever

Servicing: 0001107030, 0001107075, 0001107079, 0001109034, 0001110132, F000AL0319

Dist. 40.75, ID 7.25, Length 88.00, Plunger Without Lever w/ support.



### 333408 Lever

Replacing: 2007010150

Servicing: 0001260004, 0001260025, 0001260026, 0001261003, 0001261004, 0001261005, 0001261006, 0001261013

Dist. 47.00, Length 98.50



### 333537 Lever

Manufacturer: Bosch

Replacing: 1001933106, 1001933108, 1001933110, 1001933111

Servicing: 0001106011, 0001106014, 0001106016, 0001106023, 0001106024, 0001107003, 0001107004, 0001107005

Dist. 43.80, Length 89.80, Plunger w/o Alternative no.: 132808



### 335589 Lever

Replacing: 1007010145

Servicing: 0001136002, 0001136003, 0001136005, 0001136006, 0001136007, 0001136008, 0001139043, 0001139044

Dist. 43.00, ID 7.00, Length 90.00, Plunger w/o



### 335595 Lever

Replacing: 1007010139

Servicing: 0001139047, 0001139048, 0001142001, 0001142002, 0001142003, 0001142004, 0001142005, 0001142006

Dist. 44.00, ID 7.00, Length 91.00, Plunger w/o

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### 335833 Lever

Replacing: 1001933130

Servicing: 0001177006, 0001177007, 0001177010, 0001177011, 0001170200, 0001170201, 0001170202, 0001170203

Dist. 32.00, ID 8.00, Length 81.00, Plunger w/o



## Lever Parts

### Various

Pkg. 5



### 132226 Pivot Pin

Replacing: 2003421012, 2003429000, 2003429025, 2003429063, 2003429066, 2003429067

Servicing: 0001358048, 0001358049, 0001358200, 0001358201, 0001358202, 0001359016, 0001359049, 0001359072

Total length 40.25, Length/rear collar 36.00, Thread length 10.40, Thread size M8, Shaft w/

Pkg. 5



### 136283 Lever Support

Servicing: 0001107005, 0001107006, 0001107014, 0001107027, 0001107028, 0001107033, 0001107041, 0001108003

ID 7.40, Length 33.00, Plunger w/o

Pkg. 5



### 137791 Lever Support

Servicing: 0001106011, 0001106014, 0001106015, 0001107019, 0001107030, 0001107031, 0001107038, 0001107049

ID 7.20, Length 29.00, Plunger w/o

Pkg. 5



### 138221 Lever Support

Replacing: 1001328046

Servicing: 0001106012, 0001106017, 0001106019, 0001106022, 0001106023, 0001106024, 0001107003, 0001107004

ID 7.15, Length 23.90, Plunger w/o

Pkg. 5



### 138597 Lever Support

Servicing: 0001108001, 0001108002, 0001108004, 0001108005, 0001108006, 0001108009, 0001108010, 0001108033  
ID 6.75, Length 31.00, Plunger w/o

Pkg. 5



### 139814# 5★ Pivot Pin

Manufacturer: Bosch

Replacing: 2003429064, 2003429065, 2003429069, 2003429071

Servicing: 0001370003, 0001370004, 001371004, 0001371005, 0001371006

Total length 60.00, Length/rear collar 58.35, Thread length 15.55, Thread size M8, Shaft w/

Pkg. 10



### 233527 Lever Spacer

Servicing: 0001371004, 0001371006, 0001371008, 0001372001, 0001372002, 0001372003, 0001372005, 0001372006

Total length 14.20/28.80, Thread length 3.10, Thread size/external 10.50  
Lever: HC-CARGO 139811.



### 335553 Lever support

Replacing: 2339305060

ID 21.20, OD 43.00, Thickness 7.70

## Clutches



### 130317 Clutch

Replacing: 2003162001, 2003162005, 2003162006, 2003162016, 2006401527

Servicing: 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021

OD 9.70, Total length 166.00, Rotation CW  
Alternative no.: 333732



### 130328 Clutch

Replacing: 2006401903, 2006401904, 2006401908, 2009999032

Servicing: 0001401044, 0001401046, 0001401049, 0001401050, 0001401067, 0001401069, 0001401071, 0001401073



### 135375 Clutch

Manufacturer: Remy

Replacing: 2000780133

Servicing: 0001510001, 0001510002, 0001510003, 0001510004, 0001510005, 0001510008, 0001510009, 0001510010

OD 75.75, Total length 176.00



### 333407 5★ Clutch

Manufacturer: Bosch

Replacing: 2006209558, 2007010160, 2007110060, 333397, 333406

Servicing: 0001241003, 0001241014, 0001241119, 0001241128, 0001261003, 0001261004, 0001261005

OD 20.80, Shaft OD/front 30.00, Total length 130.40, No./splines 19, Rotation CW





### 333732 Clutch

**Replacing:** 2003162001, 2003162005, 2003162006, 2003162016, 2006401527  
**OD** 65.90, **Total length** 165.60,  
**Shaft length/C.E. house** 66.20, **Rotation** CW  
**Alternative no.:** 130317

**NEW PRODUCT**  
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### 335904 Clutch

**Replacing:** F042215013  
**OD** 18.90, **Shaft OD/front** 24.90,  
**Total length** 133.50, **No./splines** 26,  
**Rotation** CW  
**Alternative no.:** 237105

**NEW PRODUCT**  
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### 335908 Clutch

**Replacing:** 6033AD5055, 6033AD5078, 6033AD5355, 6033AD5356  
**Servicing:** 0001241003, 0001241004, 0001241005, 0001241006, 0001241007, 0001241014, 0001241015, 0001241019  
**OD** 20.85, **Shaft OD/front** 29.95,  
**Total length** 130.00, **No./splines** 19,  
**Shaft length/D.E. house** 75.20, **Rotation** CW  
**Alternative no.:** 237752

#### Clutch Parts

#### Various

Pkg. 10



### 131445 Washer

**Manufacturer:** Bosch  
**Replacing:** 2000105040  
**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023  
**ID** 41.10, **OD** 57.60, **Thickness** 0.50,  
**Material** Copper



### 231369 Clutch Housing

**Servicing:** 0001410015, 0001410016, 0001410024, 0001410037, 0001410041, 0001410044, 0001410046, 0001410053

#### Brush Gears



### 130684 Brush Gear

**Replacing:** 1001329900, 1004336028, 1004336034, 1004336049  
**Servicing:** 0001208172, 0001208200, 0001208201, 0001208202  
**12 Volt, ID** 13.50, **OD** 83.00, **Height** 16.65



### 130685 Brush Gear

**Replacing:** 1004336025, 1004336029, 1004336055  
**Servicing:** 0001208053, 0001208054, 0001208200, 0001208201, 0001208203, 0001208205, 0001208206, 0001208208  
**ID** 13.50, **OD** 82.80, **Height** 17.50



### 130688 Brush Gear

**Replacing:** 1004336033, 1004336057, 1007010027  
**Servicing:** 0001207001, 0001207005, 0001207016, 0001207017, 0001207018, 0001207019, 0001208009, 0001208019  
**ID** 13.45, **OD** 82.85, **Height** 23.25  
**w/ neg. springs and brushes. Brush set:** HC-CARGO BSX124f4.



### 131184 Brush Gear

**Replacing:** 2001329907, 2004336027  
**Servicing:** 0001362005, 0001362006, 0001362034, 0001362035, 0001362036, 0001362037, 0001362038  
**ID** 23.15, **OD** 86.25, **Height** 26.00  
**Neg. brushes. Brush set:** HC-CARGO BSX97F4.



### 131185 Brush Gear

**Replacing:** 2004336031, 2004336046, 2009994110  
**Servicing:** 0001368001, 0001368002, 0001368004, 0001368005, 0001368006, 0001368007, 0001368009, 0001368010  
**24 Volt, ID** 23.00, **OD** 93.00, **Height** 33.90  
**Neg. brushes. Brush set:** HC-CARGO BSX135-1454.  
**Alternative no.:** 333293



### 132303 Brush Gear

**Replacing:** 2004336028, 2004336044, 2004336067  
**Servicing:** 0001367001, 0001367002, 0001367003, 0001367004, 0001367005, 0001367006  
**12 Volt, ID** 23.00, **OD** 86.25, **Height** 34.30  
**Neg. brushes. Brush set:** HC-CARGO BSX134-1444.



### 132304 Brush Gear

**Replacing:** 2004336026  
**Servicing:** 0001363101, 0001363103, 0001363104, 0001363105, 0001363106, 0001363107, 0001363108, 0001363109  
**ID** 23.30, **OD** 86.70, **Height** 25.00





### 132306 Brush Gear

Replacing: 2004336041

Servicing: 0001362034, 0001362035, 0001362036, 0001362038, 0001362039, 0001362041, 0001362046, 0001362050

ID 23.30, OD 97.50, Height 25.00

Neg. brushes. Brush set: HC-CARGO BSX137-1434.

Alternative no.: 333497 5★



### 134092 Brush Gear

Replacing: 2005854053, 2005854084, 2005854136

Servicing: 0001358200, 0001358201, 0001358202, 0001359001, 0001359002, 0001359003, 0001359008, 0001359010

12 Volt, OD 104.20, Height 44.00



### 134093 Brush Gear

Replacing: 2005854041, 2005854046, 2005854052, 2005854081, 2005854901

Servicing: 0001359012, 0001359062, 0001359065, 0001359100, 0001360002, 0001360004, 0001360005, 0001360007

24 Volt, ID 92.50, OD 107.70/103.70, Height 50.30



### 134103 Brush Gear

Replacing: 1004336100, 1004336101, 1004336107, 1004336108, 1004336900

Servicing: 0001312108, 0001312109, 0001317007, 0001317008, 0001317009, 0001317010, 0001317011

ID 32.60, OD 82.50, Height 24.30



### 134104 Brush Gear

Replacing: 1004336102, 1004336901

Servicing: 0001208506, 0001208510, 0001208513, 0001208514, 0001208515, 0001208516, 0001208517, 0001208518

ID 37.00, OD 82.70, Height 18.30



### 134658 Brush Gear

Replacing: 1004336125, 1004336130, 1004336132, 1004336146, 1004336162, 1004336374, 1004336403, 1004336420

Servicing: 0001108001, 0001108002, 0001108003, 0001108004

ID 34.25, OD 67.60, Lead length 25.60, Height 22.35



### 134659 Brush Gear

Replacing: 1004336139, 1004336155, 1004336156, 1004336402, 1004336404, 1004336405, 1004336446, 1004336455

Servicing: 0001109011, 0001110001, 0001110002, 0001110004, 0001110007, 0001110008, 0001110009

12 Volt, ID 35.00, OD 72.85, Lead length 63.65, Height 25.50

Alternative no.: 333595 5★



### 134660 Brush Gear

Replacing: 1004336301, 1004336394, 1004336401, 1004336407, 1004336413, 1004336458, 1004336460, 1004336720

Servicing: 0001109015, 0001109021, 0001109022, 0001109034

ID 34.50, OD 66.35, Lead length 53.00, Height 27.95

Alternative no.: 335495 5★



### 134661 Brush Gear

Replacing: 1004336218, 9003334314, 9003334343, 9003334355

Servicing: 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009

12 Volt, ID 31.20, OD 85.50, Height 27.50



### 134868 Brush Gear

Replacing: 1004336217, 1004336302, 1004336815, 1004336834, 1004336915, 1004336916, 1004336963, 1004336992

Servicing: 0001112005, 0001112006, 0001112007, 0001112008, 0001112009

ID 30.65, OD 67.25, Lead length 45.70, Height 24.55

Alternative no.: 333643



### 135015 Brush Gear

Replacing: 1004336326, 1004336417, 1004336435, 1004336746, 1004336810, 1004336821, 1004336831, 1004336937

Servicing: 0001106014, 0001106016, 0001107003, 0001107004

12 Volt, ID 35.00, OD 68.00, Lead length 40.40, Height 19.15

Alternative no.: 333287 5★



### 135235 Brush Gear

Replacing: 1004336362, 1004336426, 1004336467, 1004336772, 1004336811, 1004336911, 1004336919, 1004336923

Servicing: ACR, 0001108021, 0001108050, 0001108059

ID 33.00, OD 63.90, Lead length 77.00, Height 25.00





### 136418 Brush Gear

**Replacing:** 1004336433, 1004336753, 1004336938, F000AL1483

**Servicing:** 0001107010, 0001107013, 0001107015, 0001107038, 0001107044, 0001108200, 0001108201

ID 27.00, OD 64.65, Lead length 36.40, Height 23.50



### 136557 Brush Gear

**Replacing:** 1004336239, 1004336397, 1004336415, 1004336421, 1004336428, 1004336432, 1004336462, 1004336715

**Servicing:** 0001106011, 0001106014, 0001106015, 0001107009

12 Volt, ID 34.70, OD 68.00, Lead length 24.30, Height 18.10

Alternative no.: 333286



### 137137 Brush Gear

**Replacing:** 2004336064

**Servicing:** 0001368083, B001816570

ID 23.20, OD 93.00, Height 33.65

Brush set: HC-CARGO BSX135-1454. Brush springs: HC-CARGO 132223.



### 137268 Brush Gear

**Replacing:** 1004336939, F000AL2035

**Servicing:** 0001112017, B001180054

ID 27.75, OD 72.50, Lead length 37.70, Height 20.00



### 137618 Brush Gear

**Replacing:** 1004336368, 1004336391, 1004336716, 1004336853, 2004336212

**Servicing:** 0001106018, 0001106019, 0001107048, 0001107056, 0001107096, 0001107100, 0001107101

ID 33.50, OD 66.25, Lead length 37.55, Height 23.35



### 137703 Brush Gear

**Replacing:** 1004336233, 1004336456, 1004336463, 1004336622, 1004336802, 1004336835, 1004336908, 1004336946

**Servicing:** 0001110003, 0001110026, 0001110080

12 Volt, ID 33.00, OD 66.45, Lead length 82.35, Height 27.30



### 138201 Brush Gear

**Replacing:** 1004336940, 1004336969, F000AL2034

**Servicing:** 0001112018, 0001112034, 0001112039, 0001113011

12 Volt, ID 28.00, OD 72.35, Lead length 35.25, Height 22.70



### 138320 Brush Gear

**Replacing:** 1004336013, 1004336016, 1004336036, 1004336039, 1004336040, 1004336043, 1004336046, 130691

**Servicing:** 0001311047, 0001311050, 0001311051, 0001311052, 0001311053, 0001311054, 0001311055, 0001311101

ID 13.60, OD 85.55, Height 23.00 w/ springs and neg. brushes.



### 138326 Brush Gear

**Replacing:** 1004336337, 1004336436, 1004336823, 1004336832, 1004336922, 1004336944, 1004336971, 1004336973

**Servicing:** 0001108051, 0001108052, 0001108074, 0001108123, 0001108125, 0001108130, 0001108138, 0001108143

12 Volt, ID 34.50, OD 63.45, Lead length 45.00, Height 23.50



### 138424 Brush Gear

**Servicing:** ACR, 0001218104, 0001218116, 0001218117, 9000331201, 9000331203

12 Volt, ID 24.30, OD 83.35, Height 27.70



### 138899 Brush Gear

**Replacing:** 1004336817, 1004336844, 1004336846, 1004336917, 1004336928, F000AL1919

**Servicing:** 0001112003, 0001112004, 0001112010

12 Volt, ID 26.65, OD 64.90,

Lead length 25.45, Height 23.55

Brush pos.: HC-CARGO BS175. Brush neg.: HC-CARGO BS176.

Alternative no.: 333301



### 138900 Brush Gear

**Replacing:** 1004336430, 1004336431, 1004336445, 1004336472, 1004336778, 1004336829, 1004336836, 1004336881

**Servicing:** 0001109014, 0001109018, 0001109025

12 Volt, ID 35.25, OD 67.25,

Lead length 36.30, Height 24.50

Brush pos.: HC-CARGO BS157. Brush neg.: HC-CARGO BS158.





### 138904 Brush Gear

**Replacing:** 1004336843, 1004336993, F000AL1918

**Servicing:** 0001112020, 0001112027, 0001112028, 0001112033, 0001112035, 0001112037, 0001112041, 0001112044  
ID 37.00, OD 66.15, Lead length 30.00, Height 18.50



### 139428 Brush Gear

**Replacing:** 1004336408, 1004336737, 1004336990, 2004336240

**Servicing:** 0001125001, 0001125002, 0001125007, 0001125008, 0001125009, 0001125010, 0001125012, 0001125013  
12 Volt, ID 35.20, OD 67.20, Lead length 48.00, Height 23.35

**Alternative no.:** 333288 ★



### 139505 Brush Gear

**Replacing:** 1004336009

**Servicing:** 0001208004, 0001208006, 0001208007, 0001208017, 0001208018, 0001208029, 0001208036, 0001208037  
ID 13.35, OD 78.40, Height 22.80  
*Neg. brushes.*



### 139550 Brush Gear

**Replacing:** 1004336822, 1004336838, F000AL2050, F000AL2051

**Servicing:** 0001116001, 0001116003, 0001116005, 0001116006, 0001116008, 0001116009  
12 Volt, ID 31.50, OD 72.60, Lead length 37.65, Height 23.30



### 139638 Brush Gear

**Replacing:** 1004336400, 1004336412, 1004336730, 1004336741, 1004336804, 1004336956, 2004336237

**Servicing:** 0001109001, 0001109002, 0001109003, 0001109006, 0001109007  
ID 35.00, OD 64.75, Lead length 58.00, Height 24.20

**Alternative no.:** 333559 ★



### 139698 Brush Gear

**Replacing:** 6033AD0130, 6033AD0156, 6033AD0380, 6033AD0471, 6033AD4026, 6033AD4161, 6033AD4180, 6033AD4212

**Servicing:** 0001231002, 0001231003, 0001231006, 0001231010, 0001231011  
28 Volt, ID 33.00, OD 90.75, Lead length 50.00, Height 27.90

**Alternative no.:** 333300 ★



### 230182 ★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336414, 1004336598, 1004336743, 1004336824, 1004336873

**Servicing:** 0001115005, 0001115006, 0001115008, 0001115009

ID 10.65, OD 68.30, Lead length 36.15, Height 25.40

**Alternative no.:** 333968



### 230843 Brush Gear

**Replacing:** 2004336078

**Servicing:** 0001371004, 0001371006, 0001371008, 0001371010, 0001371013, 0001371015, 0001371016, 0001371018  
24 Volt, ID 47.00, OD 111.00, Height 41.85



### 231084 Brush Gear

**Replacing:** 2004336085, 2004336087

**Servicing:** 0001372001, 0001372004, 0001372006, 0AA137200B, 0AA137200F, 0AA137200G, B001960018  
24 Volt, ID 23.20, OD 96.59, Height 33.40  
*w/ springs and neg brushes. Brush set: HC-CARGO BSX170-1714.*



### 231648 Brush Gear

**Replacing:** 6033AD0014, 6033AD0159, 6033AD0368, 6033AD0401, 6033AD1244, 6033AD1246, 6033AD1250

**Servicing:** 0001223001, 0001223003

12 Volt, ID 31.50, OD 86.00, Lead length 54.00, Height 29.70  
*Spring: HC-CARGO 135004.*



### 232183 ★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336392, 1004336444, 1004336717, 1004336833, 1004336989, 2004336226

**Servicing:** 0001107047, 0001107077, 0001107098, 0001106017

12 Volt, Dist. mount. holes 43.00, ID 33.60, OD 68.40, Lead length 39.00, Height 19.40  
**Alternative no.:** 333969



### 232700 ★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336525, 1004336526, 1004336534, 1004336542, 1004336608, 1004336630, 1004336702, 1004336703

**Servicing:** 0001107401, 0001107402, 0001107403

12 Volt, ID 31.00, OD 64.00, Lead length 37.00, Height 19.40  
**Alternative no.:** 333967





### 234118 Brush Gear

Replacing: 2004336077

Servicing: 0001371005, 0001371007, 0001371009, 0001371012, 0001371014, 0001371017

ID 48.00, OD 110.50, Height 42.25



### 234475 Brush Gear

Replacing: 1004336138, 1004336411, 1004336423, 1004336434, 1004336439, 1004336740, 1004336762, 1004336980

Servicing: 0001107031, 0001107032, 0001108004, 0001108019, 0001108020

ID 28.00, OD 68.50, Lead length 34.50, Height 19.70

Alternative no.: 333285



### 234947 Brush Gear

Replacing: 6033AD0166, 6033AD0370, 6033AD0374, 6033AD3022, 6033AD3328, 9003334368

Servicing: 0001230002, 0001230003, 0001230004, 0001230005, 0001230006, 0001230007

12 Volt, ID 33.40, OD 90.90, Lead length 91.35, Height 31.00

Alternative no.: 333574



### 235024 Brush Gear

Replacing: 1004336699

Servicing: 0001139017, 0001139018, 0001139019, 0001139020, 0001139075, 0001139076, 0399703044, 0399703045

12 Volt, ID 34.30, OD 72.70, Lead length 66.50, Height 27.80  
Start & Stop.



### 235072 Brush Gear

Replacing: 1004337006

Servicing: 0001153001, 0001153002, 0001153007, 0001153008, 0001153009, 0001153010, 0001153015, 0001153016

12 Volt, ID 34.25, OD 69.20, Lead length 40.00, Height 28.80  
Start & Stop.



### 235090 Brush Gear

Replacing: 1004337013, 1004337029, 1004337042

Servicing: 0001148003, 0001148004, 0001148009, 0001148010, 0001148015, 0001148016, 0001148023, 0001148024

12 Volt, ID 34.20, OD 69.20, Lead length 41.50, Height 28.70  
Start & Stop.



### 235091 Brush Gear

Replacing: 1004337019, 1986SE1607

Servicing: 0001139041, 0001139042, 0001139073, 0001139074

12 Volt, ID 34.00, OD 72.70, Lead length 63.50, Height 27.80  
Start & Stop.



### 235281 Brush Gear

Replacing: 1004336861, F000AL1921

Servicing: 0001116008, 0001116006, 0001116009

12 Volt, ID 36.75, OD 66.00, Lead length 25.00, Height 16.60



### 235401 Brush Gear

Replacing: 1004336522, 1004336553, 1004336584, 1004336591, 1004336663, 1004336677, 1004336678, 1004336754

Servicing: 0001107476, 0001107477, 0001115008, 0001115021, 0001115025, 0001115040

12 Volt, ID 33.55, OD 69.25, Lead length 44.95, Height 25.35

Alternative no.: 333304



### 235406 Brush Gear

Manufacturer: Bosch

Replacing: 1004336570, 1004336625, 1004336626

Servicing: 0001109064, 0001109065, 0001125053, 0001125054

12 Volt, ID 34.50, OD 73.60, Lead length 69.00, Height 25.35

Alternative no.: 335176



### 235459 Brush Gear

Replacing: 1004336531, 1004336708, 1004336886

Servicing: 0001108401, 0001108403, F002G20670, F004A94004, F002G70287, F002G70291

12 Volt, ID 31.00, OD 56.50, Lead length 32.00, Height 24.00



### 235529 Brush Gear

Replacing: 0011516314, 1004336669

Servicing: 0001115074, 0001115075, 0001115077

ID 33.60, OD 68.80, Lead length 42.50, Height 25.35





### 235531 Brush Gear

**Replacing:** 1004336506, 1004336519, 1004336655, 1004336879, 1004336896, 1986SE1588

**Servicing:** 0001106403, 0001106404, 0001106405, 0001106406, 0001106407, 0001106409, 0001106410, 0001120400  
ID 31.00, OD 56.50, Lead length 37.00, Height 17.00

**Alternative no.:** 333292



### 235741 Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336574, 1004336784, 1986SE1596

**Servicing:** 0001109064, 0001109065, 0001109250, 0001109264, 0001109300, 0001109301, 0001109304, 0001109305

12 Volt, ID 33.40, OD 71.10, Lead length 63.90, Height 25.30  
**Alternative no.:** 333657



### 235742 Brush Gear

**Replacing:** 1007010124, 1007010135

**Servicing:** 0001124011, 0001124012, 0001124013, 0001124014, 0001124022, 0001124023

ID 33.60, OD 73.50, Lead length 60.00, Height 25.00



### 235745 Brush Gear

**Manufacturer:** Bosch

**Replacing:** 6033AD4016, 6033AD4194, 6033AD5316, 6033AD5320

**Servicing:** 0001231004, 0001231005, 0001231006, 0001231007, 0001231008, 0001231009, 0001231012, 0001231013

24 Volt, ID 34.00, OD 90.85, Lead length 46.75, Height 31.50  
**Alternative no.:** 333658



### 235832 Brush Gear

**Replacing:** 1004336530, 1004336631, 1004336707, 1986SE1591

**Servicing:** 0001108400, 0001108411, 0001108412, 0001108444, 0001108471

ID 31.00, OD 64.00, Lead length 28.75, Height 19.50

**Alternative no.:** 333566



### 235883 Brush Gear

**Replacing:** 2004336250, 6033AD0221, 6033AD0407, 6033AD1252

**Servicing:** 0001218728, 0001218772, 0001218774, 0001223001, 0001223002, 0001223003, 0001223005

12 Volt, ID 31.00, OD 85.90, Height 26.30



### 236867 Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336527, 1004336565, 1004336704, 1004336769, 1004337140

**Servicing:** 0001108402, 0001108405, 0001108406, 0001108420, 0001108421, 0001108450, 0001108451

12 Volt, ID 30.70, OD 63.00, Lead length 35.00, Height 21.24



### 237366 Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336536, 1004336712, 1004336727, 1004336770, 1004336888, 1986SE1593

**Servicing:** 0001108157, 0001108190, 0001108202

12 Volt, ID 33.45, OD 56.15, Lead length 23.01

**Alternative no.:** 333659



### 237670 Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336518, 1004336894, 1986SE1589

**Servicing:** 0001105205, 0001109068, 0001109202, 0001109203, 0001109205, 0001109250

12 Volt, Lead length 40.00

**Alternative no.:** 333970



### 239116 Brush Gear

**Replacing:** 2004336091, 6033AD6098

**Servicing:** 0001330008, 0001330008

24 Volt, ID 42.40, OD 105.80, Lead length 69.00, Height 37.00



### 239781 Brush Gear

**Replacing:** 1004336583, 1004336791

**Servicing:** 0001107434, 0001107440, 0001107441, 0001107448, 0001107449, 0001107433

12 Volt, ID 31.00, OD 62.00, Lead length 24.50



### 330495 Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336609, 1004336645

**Servicing:** 0001138001, 0001138011, 0001138012, 0001138029, 0001138030, 0001138037, 0001138038, 0001138039

12 Volt, ID 33.63, OD 66.90, Lead length 22.50





**330531** Brush Gear  
**Replacing:** 1004336597, 1004336628, 1004336783  
**Servicing:** 0001109066, 0001109067  
 12 Volt, ID 33.50, OD 71.01,  
 Lead length 62.00, Height 23.60

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**331707** Brush Gear  
**Replacing:** 6033AD1255  
**Servicing:** 0001223501, 0001223503, 0001223504, 0001223505, 0001223507  
 12 Volt, ID 31.00, OD 86.00,  
 Lead length 37.00, Height 4.00



**331821** Brush Gear  
**Replacing:** 1004336806  
**Servicing:** 0001108125, 0001108130, 0001108138, 0001108162, 0001108166, 0001108167, 0001108173, 0001108176  
 12 Volt, ID 35.20, OD 69.50,  
 Lead length 57.00, Height 22.67



**331995** Brush Gear  
**Replacing:** 1004336612, 1004336649  
**Servicing:** 0001139001, 0001139002, 0001139005, 0001139006, 0001139011, 0001139012, 0001139013  
 12 Volt, ID 34.00, OD 72.00,  
 Lead length 50.00, Height 28.00



**332070** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 1004336557, 1004336650, 1004336758, 1004336897  
**Servicing:** 0001108404, 0001109030, 0001115021, 0001115025, 0001115042, 0001123004, 0001123005, 0001123012  
 12 Volt, ID 34.25, OD 67.00,  
 Lead length 24.77  
 Alternative no.: 333660



**332071** Brush Gear  
**Replacing:** 1004336639  
**Servicing:** 0001109069, 0001109070  
 12 Volt, ID 33.50, OD 70.00,  
 Lead length 65.00, Height 25.00



**332155** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 1004336581, 1004336603, 1004338157, 1986SE1609  
**Servicing:** 0001109267, 0001109306, 0001109307, 0001109321, 0001109322, 0001109336, 0001109337  
 12 Volt, ID 33.60, OD 71.30,  
 Lead length 42.00, Height 25.30  
 Alternative no.: 335221



**333093** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 1004336577  
**Servicing:** 0001107107, 0001107102  
 ID 34.50, OD 67.00, Height 16.00



**333123** Brush Gear  
**Replacing:** 1004336523, 1004336558, 1004336653, 1004336700, 1004336759  
**Servicing:** 0001123017, 0001123036, 0001123037, 0001123044, 0001123045, 0001123016, 0001123017  
 ID 33.10, OD 69.25, Lead length 55.40,  
 Height 25.35  
 Alternative no.: 333552



**333285** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 1004336138, 1004336411, 1004336423, 1004336434, 1004336439, 1004336740, 1004336762, 1004336980  
**Servicing:** 0001107031, 0001108128, 0001108138, 0001108166, 0001108167, 0001108173, 0001108176, 0001108189  
 ID 28.00, OD 68.50, Lead length 77.00,  
 Height 19.70  
 Alternative no.: 234475



**333286** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 1004336239, 1004336397, 1004336415, 1004336421, 1004336428, 1004336432, 1004336462, 1004336715  
**Servicing:** 0001106014, 0001107009, 0001107014, 0001107015, 0001107016, 0001107017, 0001107018, 0001107019  
 ID 27.80, OD 68.00, Lead length 24.30,  
 Height 19.90  
 Alternative no.: 136557





### 333287 Brush Gear

Manufacturer: Bosch

Replacing: 1004336326, 1004336417, 1004336435, 1004336746, 1004336810, 1004336821, 1004336831, 1004336937

Servicing: 0001106016, 0001107003, 0001107004, 0001107005, 0001107006, 0001107007, 0001107008, 0001107011

12 Volt, ID 35.00, OD 68.00,  
Lead length 40.40, Height 19.15  
Alternative no.: 135015



### 333288 Brush Gear

Manufacturer: Bosch

Replacing: 1004336408, 1004336737, 1004336990, 2004336240

Servicing: 0001125001, 0001125002, 0001125007

12 Volt, ID 27.35, OD 67.20,  
Lead length 44.10, Height 23.35  
Alternative no.: 139428



### 333291 Brush Gear

Manufacturer: Bosch

Replacing: 2004336234

Servicing: 0001109015, 0001109022, 0001109034, 0001109041, 0001109052, 0001109055, 0001109062, 0001109068

ID 33.80, OD 66.35, Lead length 54.10,  
Height 27.95



### 333292 Brush Gear

Manufacturer: Bosch

Replacing: 1004336506, 1004336519, 1004336637, 1004336655, 1004336879, 1004336896, 1986SE1588

Servicing: 0001106405, 0001106406, 0001120400, 0001120401, 0001120402, 0001120408, 0001120410, 0001120411

12 Volt, ID 31.00, OD 64.94,  
Lead length 19.50, Height 17.20  
Alternative no.: 235531



### 333293 Brush Gear

Manufacturer: Bosch

Replacing: 2004336031, 2004336046, 2009994110

Servicing: 0001364301, 0001368001, 0001368007, 0001368010, 0001368016, 0001368017, 0001368019, 0001368020

ID 23.00, OD 86.25, Height 33.90  
w/ neg. brushes. Brush set: HC-CARGO  
BSX135-1454.

Alternative no.: 131185



### 333300 Brush Gear

Manufacturer: Bosch

Replacing: 6033AD0130, 6033AD0156, 6033AD0380, 6033AD0471, 6033AD4026, 6033AD4161, 6033AD4180, 6033AD4212

Servicing: 0001231002, 0001231011, 0001231014, 0001231016, 0001231017, 0001231032, 0001231039

28 Volt, ID 10.35, OD 90.75,  
Lead length 50.00, Height 27.90  
Alternative no.: 139698



### 333301 Brush Gear

Manufacturer: Bosch

Replacing: 1004336817, 1004336844, 1004336846, 1004336917, 1004336928, F000AL1919

12 Volt, ID 26.65, OD 64.90,  
Lead length 25.45, Height 23.55

Brush pos.: HC-CARGO BS175. Brush neg.:  
HC-CARGO BS176.

Alternative no.: 138899



### 333304 Brush Gear

Manufacturer: Bosch

Replacing: 1004336522, 1004336584, 1004336591, 1004336678, 1004336798, 1004336876, 1004336890, 1004336899

12 Volt, ID 33.55, OD 69.25,  
Lead length 44.95, Height 25.35  
Alternative no.: 235401



### 333305 Brush Gear

Manufacturer: Bosch

Replacing: 1004336361, 1004336460, 1004336848, 2004336233

Servicing: 0001109035, 0001109035

12 Volt, ID 34.55, OD 72.50,  
Lead length 82.50, Height 24.35  
Alternative no.: 335222



### 333306 Brush Gear

Manufacturer: Bosch

Replacing: 1004336409, 1004336422, 1004336729, 1004336738, 2004336235

Servicing: 0001110132, F000AL0108, 0001110132, 0001124020

12 Volt, ID 35.19, OD 72.33, Height 24.22



### 333307 Brush Gear

Manufacturer: Bosch

Replacing: 1004336551, 1004336605, 1004336621, 1004336752, 1004336885, 1986SE1599

Servicing: 0001110133, 0001110134, 0001125003, 0001125004, 0001125035

ID 33.50, OD 74.20, Lead length 43.00,  
Height 25.40

Alternative no.: 333971



### 333356 Brush Gear

Replacing: 1004336695, 1004337156

Servicing: 0001136002, 0001136003, 0001136005, 0001136006, 0001136007, 0001136008, 0001137001, 0001137002

12 Volt, ID 34.16, OD 68.00,  
Lead length 24.30, Height 23.00





**333414** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 1004336599, 1004336618  
**Servicing:** 0001109105, 0001109205, 0001109260, 0001109261, 0001109304, 0001109319, 0001109320, 0001109324  
 12 Volt, ID 33.45, OD 73.75,  
 Lead length 31.00, Height 25.55



**333415** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 1004336615  
**Servicing:** 0001108415, 0001108416, 0001108428, 0001108429, 0001108445, 0001108446, F000AL0901, F000AL0903  
 ID 31.00, OD 53.00, Lead length 46.15,  
 Height 23.30



**333425** Brush Gear  
**Replacing:** 1004336553, 1004336677  
**Servicing:** 0001115078, 0001115079  
 ID 33.50, OD 67.10, Lead length 42.00,  
 Height 25.50



**333497** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 2004336041  
**Servicing:** 0001362310  
 12 Volt, ID 23.00, OD 97.50,  
 Height 21.00  
 Alternative no.: 132306



**333536** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 1004336556, 1004336623, 1004336757  
**Servicing:** 0001125025, 0001125600, 0001125024, 0001125601, F026T02007  
 ID 33.30, OD 74.00, Lead length 40.00,  
 Height 25.35



**333552** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 1004336523, 1004336558, 1004336653, 1004336700, 1004336759  
**Servicing:** 0001123045  
 ID 33.60, OD 69.25, Lead length 55.00,  
 Height 25.35  
 Alternative no.: 333123



**333559** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 1004336400, 1004336412, 1004336730, 1004336741, 1004336804, 1004336848, 1004336956, 2004336237  
**Servicing:** 0001109009, 0001109017, 0001109026, 0001109049  
 ID 25.35, OD 64.75, Lead length 68.65,  
 Height 24.20  
 Alternative no.: 139638



**333566** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 1004336530, 1004336631, 1004336707, 1986SE1591  
**Servicing:** 0001108400, 0001108411, 0001108412, 0001108444  
 ID 31.00, OD 66.40, Lead length 28.75,  
 Height 23.40  
 Alternative no.: 235832



**333574** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 6033AD0166, 6033AD0370, 6033AD0374, 6033AD3022, 6033AD3328, 9003334368  
 ID 33.40, OD 90.40, Lead length 40.50,  
 Height 31.40  
 Alternative no.: 234947



**333595** Brush Gear  
**Manufacturer:** Bosch  
**Replacing:** 1004336139, 1004336155, 1004336156, 1004336402, 1004336404, 1004336405, 1004336446, 1004336455  
**Servicing:** 0001110001, 0001110002, 0001110009, 0001110010, 0001110014, 0001110015, 0001110031  
 ID 34.50, OD 72.30, Lead length 52.00,  
 Height 24.80  
 Alternative no.: 134659



**333643** Brush Gear  
**Replacing:** 1004336302, 1004336815, 1004336834, 1004336915, 1004336916, 1004336939, 1004336963, F000AL1055  
**Servicing:** 0001112005, 0001112006, 0001112007, 0001112008, 0001112009, 0001112012, 0001112013, 0001112014  
 ID 30.65, OD 67.25, Height 24.55  
 Alternative no.: 134868



**333655** Brush Gear  
**Replacing:** 1004336549, 1004336619, 1004336750, 1004336878  
**Servicing:** 0001125021, 0001125022, 0001125031, 0001125032, 0001125042, 0001125043, 0001125046, 0001125047  
 12 Volt, ID 34.00, OD 63.00,  
 Lead length 42.20, Height 27.45





### 333657 Brush Gear

Replacing: 1004336574, 1004336784, 1986SE1596

Servicing: 0001109250, 0001109264, 0001109304, 0001109305, 0001109328, 0001109329, 0001109391, 0001109392

12 Volt, ID 33.40, OD 71.10, Lead length 60.00, Height 25.30

Alternative no.: 235741 5★



### 333658 Brush Gear

Replacing: 6033AD4016, 6033AD4194, 6033AD5316, 6033AD5320

Servicing: 0001231008, 0001231012, 0001231013, 0001231019, 0001231029, 0001231030, 0001231040, 0001231041

24 Volt, ID 34.00, OD 90.85, Lead length 48.00, Height 31.50

Alternative no.: 235745 5★



### 333659 Brush Gear

Replacing: 1004336536, 1004336712, 1004336727, 1004336888, 1986SE1593

Servicing: 0001108190, 0001108202, 0001108204, 0001108213, 0001108214, 0001108217, 0001108218, 0001108222

12 Volt, ID 33.45, OD 56.15, Lead length 23.00, Height 23.50

Alternative no.: 237366 5★



### 333660 Brush Gear

Replacing: 1004336557, 1004336650, 1004336758, 1004336897

Servicing: 0001115021, 0001115025, 0001123012, 0001123013, 0001123014, 0001123015, 0001123017, 0001123018

12 Volt, ID 34.25, OD 67.00

Alternative no.: 332070 5★



### 333923 5★ Brush Gear

Manufacturer: Bosch

Replacing: 1004336588, 1004336796

Servicing: 0001115035, 0001115034

ID 33.50, OD 65.00, Lead length 50.00, Height 25.25



### 333967 Brush Gear

Replacing: 1004336525, 1004336526, 1004336542, 1004336608, 1004336630, 1004336702, 1004336703, 1004336718

Servicing: 0001107401, 0001107407, 0001107408, 0001107409, 0001107417, 0001107418, 0001107425, 0001107426

12 Volt, ID 31.50, OD 64.00, Lead length 39.00, Height 19.40

Alternative no.: 232700 5★



### 333968 Brush Gear

Replacing: 1004336414, 1004336598, 1004336743, 1004336824, 1004336873

Servicing: 0001115005, 0001115008, 0001115012, 0001115020, 0001115024

12 Volt, ID 34.00, OD 68.30, Lead length 36.00, Height 25.40

Alternative no.: 230182 5★



### 333969 Brush Gear

Replacing: 1004336392, 1004336444, 1004336717, 1004336833, 1004336989, 2004336226

Servicing: 0001107047, 0001107077, 0001107098

12 Volt, Dist. mount. holes 43.00, ID 34.20, OD 68.50, Lead length 34.00, Height 20.00

Alternative no.: 232183 5★



### 333970 Brush Gear

Replacing: 1004336518, 1004336894, 1986SE1589

Servicing: 0001105205, 0001109205, 0001109302, 0001109303, 0001109324

12 Volt, ID 34.00, OD 74.00, Lead length 52.00, Height 25.20

Alternative no.: 237670 5★



### 333971 Brush Gear

Replacing: 1004336551, 1004336605, 1004336621, 1004336752, 1004336885, 1986SE1599

Servicing: 0001110086, 0001110087, 0001110118, 0001110119, 0001110133, 0001110134, 0001124001, 0001124002

12 Volt, ID 34.00, OD 73.00, Lead length 50.00, Height 25.00

Alternative no.: 333307 5★



### 333983 5★ Brush Gear

Manufacturer: Bosch

Replacing: 1004336465, 1004336845, 2004336244

Servicing: 0001110106, 0001110107, 0001109041

ID 33.60, OD 71.10, Lead length 60.00, Height 25.60



### 335116 Brush Gear

Replacing: 1004337165

Servicing: 0001138057, 0001138058, 0001138059, 0001138060, 0001138061, 0001138062, 0001147424, 0001147425

12 Volt, ID 32.00, OD 69.50, Lead length 40.00, Height 23.50





### 335117 Brush Gear

Replacing: 1004338126, 1004338140

Servicing: 0001179500, 0001179501, 0001179502, 0001179503, 0001179504, 0001179505, 0001179506, 0001179507

12 Volt, ID 31.50, OD 70.00,  
Lead length 42.00, Height 25.40



### 335118 Brush Gear

Replacing: 1004337155

Servicing: 0001148019, 0001148020, 0001148025, 0001148026, 0001148029, 0001148030, 0001148033, 0001148034

12 Volt, Dist. mount. holes 43.00,  
ID 34.20, OD 69.00, Lead length 40.00,  
Height 28.50



### 335119 Brush Gear

Replacing: 1004337040

Servicing: 0001139043

12 Volt, ID 34.00, OD 73.55,  
Lead length 60.00, Height 27.50



### 335122 Brush Gear

Replacing: 1004337185, 1004337193

Servicing: 0001139065, 0001139085, 0001139086

12 Volt, ID 34.00, OD 73.50,  
Lead length 60.00, Height 27.00



### 335176 Brush Gear

Replacing: 1004336570, 1004336625, 1004336626

12 Volt, ID 33.50, OD 73.60,  
Lead length 69.00, Height 25.35

Alternative no.: 235406



### 335199 Brush Gear

Replacing: 1004337002

Servicing: 0001139029, 0001139030, 0001139071, 0001139072, 0001139408, 0001139409

12 Volt, ID 33.25, OD 73.00,  
Lead length 54.50, Height 27.00



### 335205 Brush Gear

Replacing: 1004336504, 1004336562, 1004336766, 1004336978

Servicing: 0001107112, 0001108147, 0001121018, 0001121019, 0001121024, 0001121025

12 Volt, ID 33.60, OD 61.00,  
Lead length 43.00, Height 18.80



### 335206 Brush Gear

Replacing: 1004336580, 1004336607, 1004336789

Servicing: 0001107406, 0001107438, 0001107439, 0001107459, 0001107460, 0001107461

12 Volt, ID 31.00, OD 56.00,  
Lead length 47.00, Height 20.00



### 335207 Brush Gear

Replacing: 1004336564, 1004336633, 1004336768

Servicing: 0001108403, 0001108404, 0001108409, 0001108410, 0001108441, 0001108442

12 Volt, ID 31.00, OD 55.00,  
Lead length 45.00, Height 23.30



### 335208 Brush Gear

Replacing: 1004336658, 1004337173

Servicing: 0001122201, 0001122202, 0001111016

24 Volt, ID 33.60, OD 61.00,  
Lead length 39.00, Height 23.35



### 335211# Brush Gear

Replacing: 1004336418, 1004336747, 2004336216

Servicing: 0001108174, 0001108175, 0001108197, 0001108220, 0001108221

12 Volt, ID 35.00, OD 63.00,  
Lead length 52.00, Height 23.20

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### 335212 Brush Gear

Replacing: 1004336582, 1004336586, 1004338159, 1986SE1610

Servicing: 00010DB98E, 0001109263, 0001109265, 0001109271, 0001109272, 0001109273, 0001109274, 0001109284

12 Volt, ID 33.50, OD 64.00,  
Lead length 46.00, Height 25.00





**335213** Brush Gear  
 Replacing: 1004336568, 1004336773, 1004336898  
 Servicing: 0001108203, 0001108194, 0001111010  
 24 Volt, ID 33.60, OD 61.00,  
 Lead length 45.00, Height 23.30



**335221** Brush Gear  
 Replacing: 1004336581, 1004336603, 1004338157, 19865E1609  
 ID 34.00, OD 64.60, Lead length 42.00,  
 Height 25.40  
 Alternative no.: 332155



**335222** Brush Gear  
 Replacing: 1004336361, 1004336460, 1004336848, 2004336233  
 Servicing: 0001109035  
 12 Volt, ID 34.15, OD 72.50,  
 Lead length 82.50, Height 25.00  
 Alternative no.: 333305



**335337** Brush Gear  
 Replacing: 1004336533  
 Servicing: 0001108210, F002G20326, F002G20582, F002G20593, F002G20820, F002G20348, F002G20546  
 ID 33.50, OD 68.70, Lead length 46.00,  
 Height 29.00



**335480** Brush Gear  
 Replacing: 1004336576, 1004336656, 1004336785  
 Servicing: 0001122400, 0001122401, 0001122402, 0001122403  
 ID 31.00, OD 65.75, Lead length 38.00,  
 Height 23.50



**335486** Brush Gear  
 Replacing: 1004336593, 1004336632  
 Servicing: 0001107442, 0001107443  
 12 Volt, ID 31.00,  
 OD 65.10, Lead length 42.00



**335490** Brush Gear  
 Manufacturer: Bosch  
 Replacing: 1004336537, 1004336617, 1004336713  
 Servicing: 0001124026, 0001124027  
 ID 33.50, OD 68.25, Lead length 64.00,  
 Height 25.30



**335494** Brush Gear  
 Replacing: 2004336213  
 12 Volt, ID 33.60,  
 OD 63.60, Lead length 37.00,  
 Height 25.25



**335495** Brush Gear  
 Replacing: 1004336301, 1004336394, 1004336720, 1004336997, 1004336999, 2004336239  
 Servicing: 0001110016, 0001109252, 0001109439, 0001109021  
 12 Volt, ID 33.50, OD 68.60,  
 Lead length 60.00, Height 25.25  
 Alternative no.: 134660



**335507** Brush Gear  
 Manufacturer: Bosch  
 Replacing: 1004337158  
 Servicing: 0001139023, 0001139024, 0001139031, 0001139032  
 12 Volt, ID 34.00, OD 72.60,  
 Lead length 49.00, Height 27.45



**335512** Brush Gear  
 Manufacturer: Bosch  
 Replacing: 1004336567  
 Servicing: 0001108200, 0001108201, 0001108206, 0001108207, 0001108228, 0001108229, 0001108237, 0001108238  
 12 Volt, ID 33.50, OD 61.00,  
 Lead length 40.00, Height 23.25



**335519** Brush Gear  
 Manufacturer: Bosch  
 Replacing: 1004336661  
 Servicing: 0001115022, 0001115023  
 12 Volt, ID 33.50, OD 68.50,  
 Lead length 66.00, Height 25.25





**335521** Brush Gear  
 Manufacturer: Bosch  
 Replacing: 2004336225  
 ID 33.60, OD 63.60, Lead length 54.00,  
 Height 23.25



**335531** Brush Gear  
 Manufacturer: Bosch  
 Replacing: 2004336218  
 Servicing: 0001115002, 0001115007,  
 0001123052  
 ID 33.60, OD 63.80, Lead length 31.00,  
 Height 25.25



**335544** Brush Gear  
 Manufacturer: Bosch  
 Replacing: 1004336363, 2004336227  
 Servicing: 0001108185, 0001108180,  
 0001108186  
 ID 33.60, OD 63.60, Lead length 47.00,  
 Height 23.25

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**335725** Brush Gear  
 Replacing: 1004338149  
 Servicing: 0001170605, 0001170624,  
 0001170625, 0001170628, 0001170629,  
 0001170604  
 12 Volt, ID 32.00, OD 70.30,  
 Lead length 35.00, Height 23.00

**NEW PRODUCT**  
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**335730** Brush Gear  
 Replacing: 1004338205  
 Servicing: 0001170611, 0001170610  
 12 Volt, ID 31.90, OD 70.30,  
 Lead length 50.00, Height 23.40



**335761** Brush Gear  
 Replacing: 1004338102  
 Servicing: 0001177000, 0001177001,  
 0001177002, 0001177003, 0001177004,  
 0001177005, 0001177007, 0001177008  
 12 Volt, ID 32.00, OD 70.00,  
 Lead length 32.50, Height 23.00

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**335765** Brush Gear  
 Replacing: 1004338136  
 Servicing: 0001170400, 0001170401,  
 0001170402, 0001170403, 0001170406,  
 0001170407, 0001170410, 0001170411  
 12 Volt, ID 32.00, OD 70.00,  
 Lead length 50.00



**335788** Brush Gear  
 Replacing: 1004338198  
 Servicing: 0001172407  
 12 Volt, ID 32.00, OD 70.20,  
 Lead length 36.00, Height 23.10



**337346** Brush Gear  
 Replacing: 1004338138  
 Servicing: 0001170200, 0001170201,  
 0001172406  
 12 Volt, ID 32.00, OD 70.20,  
 Lead length 26.00, Height 23.20



**337347** Brush Gear  
 Replacing: 1004338170  
 Servicing: 0001172205  
 12 Volt, ID 32.00, OD 70.20,  
 Lead length 38.00, Height 23.10

**NEW PRODUCT**  
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**337559** Brush Gear  
 Replacing: 1004338188  
 Servicing: 0001174612  
 12 Volt, ID 32.00, OD 70.00,  
 Lead length 40.00

## Brush Gear Parts

### Brush Holders

Pkg. 10



**134530<sup>#</sup>** Brush Holder  
 Servicing: 0001312108, 0001312109,  
 0001317007, 0001317008, 0001317009,  
 0001317010, 0001317011, 0001317012



Pkg. 10



### 134531 Brush Holder

**Servicing:** 0001208506, 0001208510, 0001208513, 0001208514, 0001208515, 0001208516, 0001208517, 0001208518

Pkg. 10



### 134702# Brush Holder

**Servicing:** 0001218003, 0001218004, 0001218005, 0001218006, 0001218008, 0001218011, 0001218012, 0001218013

Pkg. 10



### 135563 Brush Holder

**Servicing:** ACR, 0001218116, 0001218117, 0001218151, 0001218164, 0001218172, 9000331201, 9000331203



### 335323# Brush Gear

**Replacing:** 1001323104  
**Servicing:** 0001106405, 0001106406, 0001120400, 0001120401, 0001120402, 0001120403, 0001120406, 0001120407  
**ID** 10.25/4.75, **OD** 14.75, **Height** 17.35

## Brush Springs

Pkg. 10



### 131499 Brush Spring

**Replacing:** 2004652006  
**Servicing:** 0001402055, 0001402081, 0001402083, 0001410015, 0001410016, 0001410017, 0001410018, 0001410019  
**Length** 32.00, **Height** 15.50, **Width** 6.00, **Material** Steel

Pkg. 10



### 132223 Brush Spring

**Replacing:** 2004616007  
**Servicing:** 0001218127, 0001364301, 0001367001, 0001367002, 0001367004, 0001367005, 0001367006, 0001367008  
**ID** 10.20, **OD** 12.00, **Length** 24.00, **Material** Steel

Pkg. 10



### 132224 Brush Spring

**Replacing:** 2004652036, 2004652038, 2004652039  
**Servicing:** 0001358200, 0001358201, 0001358202, 0001359002, 0001359003, 0001359004, 0001359008, 0001359010  
**Length** 32.00, **Height** 10.15, **Width** 16.15, **Material** Steel

Pkg. 10



### 132576 Brush Spring

**Servicing:** 0001108001, 0001108002, 0001108003, 0001108004, 0001108005, 0001108006, 0001108009, 0001108010  
**ID** 7.00, **OD** 8.45, **Length** 17.00, **Material** Steel

Pkg. 10



### 133556 Brush Spring

**Replacing:** 2004618004  
**Servicing:** 0001362005, 0001362006, 0001362034, 0001362035, 0001362036, 0001362038, 0001362039, 0001362040  
**ID** 8.55, **OD** 10.30, **Length** 27.50, **Material** Steel

Pkg. 10



### 133557 Brush Spring

**Servicing:** 0001124020, 0001124021, 0001125016, 0001125017, 0001125019, 0001125519, 0001125520, 2004618004  
**ID** 7.75, **OD** 9.50, **Length** 20.00, **Material** Steel

Pkg. 10



### 134442 Brush Spring

**Replacing:** 1004652007, 2004652034  
**Servicing:** 0001311047, 0001311050, 0001311051, 0001311052, 0001311053, 0001311054, 0001311055, 0001311056  
**Length** 29.85, **Height** 15.10, **Width** 5.95, **Material** Steel

Pkg. 10



### 134548 Brush Spring

**Replacing:** 1004611006  
**Servicing:** 0001138001, 0001138002, 0001211514, 0001312108, 0001312109, 0001317007, 0001317008, 0001317009  
**ID** 6.55, **OD** 8.20, **Length** 32.50, **Material** Steel



Pkg. 10



### 134937 Brush Spring

Replacing: 1004611007

Servicing: 0001208501, 0001208506, 0001208507, 0001208508, 0001208510, 0001208513, 0001208514, 0001208515

ID 6.60, OD 8.30, Length 26.40, Material Steel

Pkg. 10



### 135004 Brush Spring

Replacing: 1004615001

Servicing: 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009

ID 9.70, OD 11.50, Length 32.00, Material Steel

Pkg. 10



### 135299 Brush Spring

Servicing: 0001106014, 0001106018, 0001106019, 0001106023, 0001107076, 0001107080, 0001107088, 0001107091

ID 5.00, OD 6.30, Length 17.30, Material Steel

Pkg. 10



### 135460 Brush Spring

Replacing: 2004652010

Servicing: 0001208202, 0001208229, 0001311112, 0001311145, 0001357002, 0001357003, 0001362002, 0001362003

OD 15.00, Length 26.70, Width 5.00, Material Steel

Pkg. 4



### 136694 Brush Spring

Replacing: 2004652004

Servicing: 0001370002, 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008

OD 16.75, Length 32.90, Width 10.00, Material Steel

Pkg. 10



### 139119 Brush Spring

Replacing: 1004652002, 1004652005, 2004652015

Servicing: 0001204102, 0001207001, 0001207003, 0001207005, 0001207009, 0001207010

OD 14.70, Length 24.30, Width 5.00, Material Steel

Pkg. 10



### 139302 Brush Spring

Replacing: 2004452001, 2004652001

Servicing: 0001358035, 0001358040, 0001358048, B001804003

Length 36.00, Height 5.00, Width 17.20, Material Steel

Pkg. 10



### 231172 Brush Spring

Replacing: 2004652002

Servicing: 0001154001, 0001154007, 0001155003, 0001155004, 0001155008, 0001155009, 0001155011, 0001155016

OD 12.50, Length 22.15, Width 4.00, Material Steel

Pkg. 10



### 231709 Brush Spring

Replacing: 2004616009

Servicing: 0001223504, 0001231004, 0001231005, 0001231007, 0001231008, 0001231009, 0001231012, 0001231016

ID 9.65, OD 11.90, Length 30.00, Material Steel

Pkg. 10



### 232173 Brush Spring

Servicing: 0001223003, 0001223005, 0001223007, 0001223024, 0001231002, 0001231003, 0001231004, 0001231005

ID 9.95, OD 12.30, Length 32.00, Material Steel

Pkg. 10



### 234117 Brush Spring

Servicing: 0001223013, 0001230002, 0001230006, 0001230009, 0001230012, 0001230014

ID 9.95, OD 11.80, Length 34.85, Material Steel

Pkg. 10



### 235818 Spring

Replacing: 1004611030, 235818

Servicing: 0001105205, 0001109009, 0001109064, 0001109065, 0001109066, 0001109067, 0001109069, 0001109070

OD 10.10, Length 21.50



## Various

Pkg. 25


**133967** Insulator

## Brush Sets


**140347** Brush Set

Replacing: 1987000010  
12 Volt, Length 17.00,  
Lead length 38.00, Height 12.00,  
Thickness 6.80

Pkg. 5


**140356** Brush Set

Replacing: 1987000002  
12 Volt, Length 16.00,  
Lead length 36.50, Height 12.00,  
Thickness 7.00


**140556** Brush Set

Replacing: 1987000010  
12 Volt, Length 17.50,  
Lead length 38.00, Height 11.73,  
Thickness 6.46


**140918** Brush Set

Replacing: 2137014038  
Servicing: 0136352005, 0136355049,  
0136355050, 0136355057, 0136355058,  
0136355059, 0136355060, 0136355061  
24 Volt, Length 25.50,  
Lead length 32.00, Height 25.85,  
Thickness 8.90  
1.5/2.5 kW.


**141008** Brush Set

Replacing: 9001083592, 9001454592  
Servicing: 9000083053, 9000083054,  
9000083055, 9000083056, 9000083057,  
9000083058, 9000083059, 9000083060  
12 Volt, Length 20.00,  
Lead length 42.00, Height 22.20,  
Thickness 10.00


**141184** Brush Set

12 Volt, Length 13.00,  
Lead length 23.00, Lead length 2 45.50,  
Height 16.00, Thickness 4.80


**141185** Brush Set

Replacing: 1004320119, 141185  
12 Volt, Length 11.50,  
Lead length 23.00/63.00, Height 11.85,  
Thickness 4.80


**141194** Brush Set

Replacing: 1004320163, 1004320164,  
1004320200, 1004320201, 141194  
Servicing: 0001107094, 0001107095,  
0001107401, 0001107402, 0001107403,  
0001107404, 0001107405, 0001107406  
12 Volt, Length 12.00, Lead length 24.00,  
Height 12.00, Thickness 4.60


**142086** Brush set

Replacing: 2004320272, 2004320273  
Servicing: 0001261001, 0001261002,  
0001261007, 0001261008, 0001261012  
24 Volt, Length 18.00, Lead length 34.00,  
Height 27.80, Thickness 6.50


**142134** 5★ Brush Set

Manufacturer: Bosch  
Replacing: 2007014076  
Servicing: 0001367005, 0001367007,  
0001367008, 0001367010, 0001367013,  
0001367014, 0001367015, 0001367016  
Length 15.10, Lead length 41.00,  
Lead length 2 54.00, Height 24.90,  
Thickness 9.85


**142134** 5★ Brush Set

Manufacturer: Bosch  
Replacing: 2007014076  
Servicing: 0001367005, 0001367007,  
0001367008, 0001367010, 0001367013,  
0001367014, 0001367015, 0001367016  
Length 15.10, Lead length 41.00,  
Lead length 2 54.00, Height 24.90,  
Thickness 9.85





### 142324 Brush Set

Manufacturer: Bosch

Replacing: 2007014065

Servicing: 0001362300, 0001362301, 0001362302, 0001362303, 0001362304, 0001362305, 0001362306, 0001362307

12 Volt, Length 17.10, Lead length 44.00, Height 15.80, Thickness 8.90

Alternative no.: BSX1394



### 142326 Brush Set

Manufacturer: Bosch

Replacing: 2007014063

Servicing: 0001368001, 0001368002, 0001368003, 0001368004, 0001368005, 0001368006, 0001368007, 0001368008

24 Volt, Length 16.60, Lead length 56.00, Lead length 2 46.80, Height 25.00, Thickness 8.00

Alternative no.: BSX135-1454



### 142327 Brush Set

Manufacturer: Bosch

Replacing: 2007014079

Servicing: 0001410029, 0001410105, 0001416001, 0001416002, 0001416003, 0001416004, 0001416005, 0001416006

24 Volt, Length 19.25, Lead length 33.10, Height 35.80, Thickness 11.87

Alternative no.: BSX172-1734



### 142332 Brush Set

Replacing: 1004320244, 1004320261, 1004320279, 1004320281, 1004320321

Servicing: 0001139025, 0001139026, 0001139029, 0001139030, 0001139071, 0001139072, 0001139408, 0001139409

12 Volt, Length 14.20/12.70, Height 18.00, Thickness 5.25



### 142339 Brush Set

Replacing: 2004320173, 2007014026

Servicing: 0001208053, 0001208054, 0001208172, 0001208200, 0001208201, 0001208202, 0001208206, 0001208208

12 Volt, Length 18.00, Lead length 35.00, Height 10.00, Thickness 6.92

Alternative no.: BSX754



### 142340 Brush Set

Replacing: 1007014121

12 Volt, Length 18.20, Lead length 36.00, Height 16.00, Thickness 7.00

Alternative no.: BSX764

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### 335823 Brush Set

Replacing: 1004320255, 1004320325

Servicing: 0001147400, 0001136002, 0001136003, 0001136005, 0001136006, 0001136007, 0001136008, 0001137005

Length 13.70, Lead length 24.00, Height 14.00, Thickness 4.60



### BSX1004 Brush Set

Replacing: 2007014022, 2007014035, 2007014049, 2007014051, 2007014078

Servicing: 0001360002, 0001360007, 0001360008, 0001360009, 0001360010, 0001360012, 0001360013, 0001360015

24 Volt, Length 23.00, Lead length 42.00, Height 25.00, Thickness 8.00

Alternative no.: BS100



### BSX1014 Brush Set

Replacing: 2007014040

Servicing: 0001305010

12 Volt, Length 18.00, Lead length 36.00, Height 16.00, Thickness 9.00



### BSX1024 Brush Set

Replacing: 2007014019, 2007014053

Servicing: 0001357002, 0001362001, 0001362002, 0001362003, 0001362004, 0001362005, 0001362006, 0001362007

12 Volt, Length 25.50, Lead length 36.00, Height 15.85, Thickness 9.00

Alternative no.: BS102



### BSX1034 Brush Set

Replacing: 2007014014, 2007014017

Servicing: 0001510001, 0001510002, 0001510003, 0001510004, 0001510005, 0001510006, 0001510008, 0001510009

24 Volt, Length 27.00, Lead length 49.00, Height 40.00, Thickness 12.00



### BSX1042 Brush Set

Replacing: 1007014112, 1007014117, 2007014030

Servicing: 0001208009, 0001208033, 0001208061, 0001311001, 0001311007, 0001311016, 0001311026, 0001311027

12 Volt, Length 18.00, Lead length 32.00, Height 16.00, Thickness 7.00

Alternative no.: BS104/0





### BSX1044 Brush Set

Replacing: 1007014113, 1007014114, 1007014118, 1007014119, 1007014122, 2007014054, 2007014055

Servicing: 0001208003, 0001208025, 0001208026, 0001208047, 0001208056, 0001208058, 0001211016, 0001211023  
12 Volt, Length 18.00,  
Lead length 32.00, Height 16.00,  
Thickness 7.00



### BSX116F4 Brush Set

Replacing: BSX116F4

Servicing: 0001363101, 0001363111  
24 Volt, Length 16.00,  
Lead length 34.00, Height 15.50,  
Thickness 9.00



### BSX121F4 Brush Set

Replacing: BSX121F4

12 Volt, Length 16.00,  
Lead length 34.50, Height 14.00,  
Thickness 7.00



### BSX124 Brush Set

Replacing: 1007014100

Servicing: 0001354004, 0001354005, 0001354016, 0001354018, 0001354027, 0001354029, 0001354031, 0001354038  
6/12 Volt, Length 25.50,  
Lead length 32.00, Height 13.00,  
Thickness 9.00



### BSX124F4 Brush Set

Replacing: 1007014129, 1007014134

Servicing: 0001208004, 0001208006, 0001208007, 0001208017, 0001208018, 0001208029, 0001208032, 0001208036  
12 Volt, Length 18.05,  
Lead length 32.50, Height 15.80,  
Thickness 6.90



### BSX128F4# Brush Set

Replacing: 1004320900, 1004320907,

12 Volt, Length 18.00,  
Lead length 34.50, Height 10.00,  
Thickness 7.00



### BSX1304 Brush Set

Replacing: 2007014059, 2007014060

Servicing: 0001413001, 0001413003, 0001413004, 0001413005, 0001413006, 0001413007, 0001413008, 0001413009  
12 Volt, Length 27.00,  
Lead length 49.00, Height 36.00,  
Thickness 12.00



### BSX1314 Brush Set

Replacing: 2007014008, 2007014023, 2007014036, 2007014048, 2007014061

Servicing: 0001410015, 0001410016, 0001410017, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024  
24 Volt, Length 27.00, Lead length 46.00,  
Height 36.00, Thickness 12.00



### BSX134-1444 Brush Set

Replacing: 2007014062

Servicing: 0001367001, 0001367002, 0001367003, 0001367004, 0001367005, 0001367006, 0001367007, 0001367008

12 Volt, Length 17.00,  
Lead length 57.00, Lead length 2 44.00,  
Height 25.00, Thickness 10.00  
Alternative no.: BS134/0



### BSX135-1454 Brush Set

Replacing: 2007014063

Servicing: 0001368001, 0001368002, 0001368003, 0001368004, 0001368005, 0001368006, 0001368007, 0001368008

24 Volt, Length 16.60,  
Lead length 56.00, Lead length 2 46.80,  
Height 25.00, Thickness 8.00  
Alternative no.: BS135/0, 142326



### BSX137-1434 Brush Set

Replacing: 2007014068

Servicing: 0001362034, 0001362035, 0001362036, 0001362038, 0001362039, 0001362040, 0001362041, 0001362042

12 Volt, Length 17.00, Lead length 45.00,  
Height 16.00, Thickness 9.00



### BSX138-1424 Brush Set

Replacing: 2007014069

Servicing: 0001363103, 0001363104, 0001363105, 0001363106, 0001363107, 0001363108, 0001363109, 0001363110

24 Volt, Length 16.00, Lead length 44.00,  
Height 15.50, Thickness 9.00





### BSX1394 Brush Set

Replacing: 2007014065

Servicing: 0001362300, 0001362301, 0001362302, 0001362303, 0001362304, 0001362305, 0001362306, 0001362307

12 Volt, Length 17.00, Lead length 44.00, Height 16.00, Thickness 9.00

Alternative no.: BS139, 142324

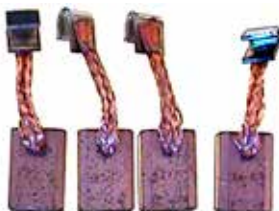


### BSX1404 Brush Set

Replacing: 1007014138, 1007014144

Servicing: 0001208516, 0001208710, 0001211514, 0001312108, 0001312109, 0001317007, 0001317008, 0001317009

12 Volt, Length 15.00, Lead length 21.00, Height 16.00, Thickness 7.00



### BSX1464 Brush Set

Replacing: 1007014137

Servicing: 0001211500, 0001211501, 0001211502, 0001211503, 0001211504, 0001211505, 0001211506, 0001211507

12 Volt, Length 14.00, Lead length 26.50, Height 10.00, Thickness 7.00



### BSX1474 Brush Set

Replacing: 2007014067

Servicing: 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008

24 Volt, Length 26.40, Lead length 50.00, Height 36.00, Thickness 10.00



### BSX1484 Brush Set

Replacing: 2007014004, 2007014015, 2007014042, 2007014047, 2007014070, 2007014074

Servicing: 0001410029, 0001410062, 0001410105, 0001416001, 0001416002, 0001416003, 0001416004, 0001416005

24 Volt, Length 27.00, Lead length 54.00, Height 36.00, Thickness 12.00

Alternative no.: BS148



### BSX1494 Brush Set

Replacing: 1007014105, 1007014139, 1007014141, 1007014145

Servicing: 0001208501, 0001208506, 0001208507, 0001208508, 0001208510, 0001208513, 0001208514, 0001208515

12 Volt, Length 16.50, Lead length 31.00, Height 10.00, Thickness 7.00

Alternative no.: BS149



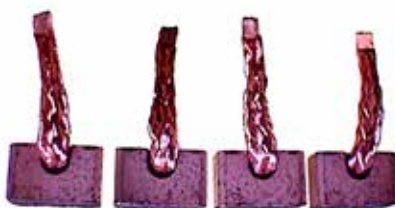
### BSX151S4 Brush Set

Replacing: 1007014140, 1007014143, 9003337001

Servicing: 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009

12 Volt, Length 17.00/19.00, Lead length 26.00, Height 18.00, Thickness 7.50

Alternative no.: BS151



### BSX1554 Brush Set

Replacing: 2007014071

Servicing: 0001367005, 0001367049, 0001367070, 0001369001, 0001369003, 0001369004, 0001369005, 0001369007

12 Volt, Length 15.00, Lead length 43.50, Height 25.00, Thickness 10.00



### BSX157-1584 Brush Set

Replacing: BSX157-1584

Servicing: 0001108404, 0001109001, 0001109002, 0001109014, 0001109015, 0001109018, 0001109021, 0001109022

12 Volt, Length 14.40/13.20, Lead length 25.00, Height 17.90, Thickness 5.95



### BSX159-1604 Brush Set

Replacing: BSX159-1604

Servicing: 0001108011, 0001108100, 0001108123, 0001108141, 0001108150, 0001108177, 0001108178, 0001108184

12 Volt, Length 11.50/13.00, Lead length 28.50, Height 16.00, Thickness 5.00

w/ brush bar: HC-CARGO 141184.

Alternative no.: BS160



### BSX163-1644 Brush Set

Replacing: 2007014073, 2007014076

Servicing: 0001367001, 0001367004, 0001367005, 0001367007, 0001367008, 0001367009

12 Volt, Length 15.00, Lead length 47.00, Lead length 2 46.00, Height 25.00, Thickness 10.00



### BSX1654 Brush Set

Replacing: 9003334321

Servicing: 0001219010

24 Volt, Length 19.00, Lead length 25.00, Height 18.00, Thickness 7.60





### BSX1664 Brush Set

Replacing: 1004320136, BSX1664

Servicing: 0001106015, 0001106023, 0001106024, 0001112003, 0001112004, 9000695002, 9000695003, 8001109104

12 Volt, Length 12.00, Lead length 26.00, Height 12.00, Thickness 5.00

w/ brush bar: HC-CARGO 141185.



### BSX170-1714 Brush Set

Replacing: 2007014077, 2007014085

Servicing: 0001364300, 0001364301, 0001364400, 0001364402

24 Volt, Length 15.00, Lead length 56.00, Lead length 2 43.00, Height 25.00, Thickness 10.00



### BSX172-173-1744 Brush Set

Replacing: 2007014084

Servicing: 0001417075, 0001417076

24 Volt, Length 19.00, Lead length 31.50, Lead length 2 61.00/174.00, Height 36.00, Thickness 12.00




### BSX172-1734 Brush Set

Replacing: 2007014079

Servicing: 0001410024, 0001410029, 0001410062, 0001410067, 0001410088, 0001410105, 0001410111, 0001410115

24 Volt, Length 19.00, Lead length 30.00, Height 36.00, Thickness 12.00

Alternative no.: 142327 



### BSX175-1764 Brush Set

Replacing: 1004320155

Servicing: 0001106012, 0001106017, 0001106018, 0001106019, 0001106022, 0001107088, 0001121017

12 Volt, Length 10.90/11.60, Lead length 24.50, Height 12.00, Thickness 5.00, Terminals 1

Alternative no.: Bs175



### BSX1774 Brush Set

Replacing: 2007014082, 9001453644

Servicing: 0001371001, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009

24 Volt, Length 18.00, Lead length 33.50, Height 36.00, Thickness 9.00



### BSX178-1794 Brush Set

Replacing: 2007014080

Servicing: 0001418001, 0001418002, 0001418003, 0001418009, 0001418012, 0001418014, 0001418015, 0001418017

12 Volt, Length 19.00, Lead length 33.50, Height 36.00, Thickness 12.00



### BSX182-1834 Brush Set

Replacing: 9001454433

Servicing: 0001124018, 0001124019

12 Volt, Length 13.00/14.50, Lead length 25.00, Height 20.00, Thickness 6.00



### BSX190-1914 Brush Set

Replacing: BSX190-1914

Servicing: 0001231002, 0001231003, 0001231004, 0001231005, 0001231007, 0001231008, 0001231009, 0001231011

24 Volt, Length 15.40/16.40, Lead length 25.00, Height 25.00, Thickness 6.40



### BSX192-1934 Brush Set

Replacing: 2004336250, 6033AD0011, 6033AD0012, 6033AD0161, 6033AD0409, 6033AD1158, 6033AD1159, 6033AD1255

Servicing: 0001223002, 0001223003, 0001223004, 0001223007, 0001223009, 0001223013

12 Volt, Length 13.00/15.00, Lead length 25.00, Height 22.00, Thickness 6.00



### BSX194-1954 Brush Set

Replacing: 6033AD3196, 6033AD3197, 9003334361, 9003334362, BSX194-1954

Servicing: 0001230002, 0001230004, 0001230006, 0001230009, 0001230012, 0001230014

12 Volt, Length 15.40/16.40, Lead length 30.00, Height 27.00, Thickness 7.50



### BSX1964 Brush Set

Replacing: 1004320158, BSX1964

Servicing: 0001116001, 0001116003, 0001116005, 0001116006, 0001116008, 0001116009

12 Volt, Length 10.50/11.50, Lead length 24.00, Height 8.50, Thickness 5.00





### BSX202-2034 Brush Set

Replacing: 6033AD0263, BSX202-2034

Servicing: 0001330001, 0001330003, 0001330008, 0001330016, 0001330501, 000133E101, 000133F102, 0001340502

24 Volt, Length 23.00, Lead length 25.00, Height 32.00, Thickness 9.00



### BSX204-2054 Brush Set

Replacing: BSX204-2054

Servicing: 0001106405, 0001106406, 0001120400, 0001120401, 0001120402, 0001120403, 0001120406, 0001120407

12 Volt, Length 12.00/12.70, Lead length 25.00, Height 10.00, Thickness 5.00



### BSX206-2074 Brush Set

Replacing: 6033AD5097, 6033AD5098, 6033AD5126, 6033AD5127

Servicing: 0001241001

24 Volt, Length 18.00, Lead length 26.50, Height 28.00, Thickness 6.35



### BSX208-2094 Brush Set

Replacing: 1004320208, 1004320209, BSX208-2094

12 Volt, Length 14.20/15.20, Lead length 24.50, Height 18.00, Thickness 6.00



### BSX210-2114 Brush Set

Replacing: 1004320179, 1004320180, 1004320202, 1004320203, BSX210-2114

Servicing: 0001108400, 0001108401, 0001108402, 0001108403, 0001108405, 0001108406

12 Volt, Length 11.50/12.20, Lead length 24.50, Height 16.00, Thickness 4.50



### BSX212-2134 Brush Set

Replacing: 1004320183, 1004320184, 1004320204, 1004320205, 1004320206, 1004320207, BSX212-2134

Servicing: 0001108210, F005M00001, F000AL0110, F002G20326, F002G20348, F002G20546, F002G20582

12 Volt, Length 11.50/13.00, Lead length 24.50, Height 16.00, Thickness 5.00



### BSX214-2154 Brush Set

Replacing: 1004320228, 1004320229, 1004320234, 1004320235, BSX214-2154

Servicing: 0001109014, 0001115005, 0001115006, 0001115008, 0001115011

12 Volt, Length 11.00, Lead length 25.00, Height 17.95, Thickness 5.95



### BSX216-2174 Brush Set

Replacing: 6033AD5177, 6033AD5178

Servicing: 0001231004, 0001231005, 0001231007, 0001231008, 0001231009, 0001231013, 0001231017, 0001231019

24 Volt, Length 18.00, Lead length 26.00, Height 28.00, Thickness 5.35



### BSX218-2194 Brush Set

Replacing: 1004320230, 1004320231

Servicing: 0001107103, 0001107107, 0001107109, 0001107110, 0001107111, 0001121024, 0001121031

12 Volt, Length 10.90/11.60, Lead length 25.00, Height 12.00, Thickness 5.00



### BSX344 Brush Set

Replacing: 1007014107, 2007014021

Servicing: 0001401069, 0001402018, 0001402031, 0001402043, 0001402050, 0001402053, 0001402054, 0001402055

24 Volt, Length 28.50, Lead length 45.00, Height 20.00, Thickness 9.00



### BSX354 Brush Set

Replacing: 1007014109

Servicing: 0001401011, 0001401012, 0001401019, 0001401023, 0001401026, 0001401027, 0001401028, 0001401041

12 Volt, Length 28.50, Lead length 47.00, Height 20.00, Thickness 12.00



### BSX434 Brush Set

Replacing: 1007014110, 1007014123, 1107014110, 2007014041

Servicing: 0001203009, 0001204002, 0001204005, 0001205015, 0001205017, 0001304009, 0001304010, 0001304016

6/12 Volt, Length 22.00, Lead length 34.00, Height 16.00, Thickness 7.00





### BSX444 Brush Set

Replacing: 2007014006, 2007014009, 2007014037

Servicing: 0001356003, 0001358017, 0001358018, 0001358020, 0001358026, 0001358033, 0001358035, 0001358038  
12 Volt, Length 22.50, Lead length 43.00, Height 22.00, Thickness 8.00



### BSX494 Brush Set

Replacing: 1107014126

Servicing: 0001207001, 0001207003, 0001207005, 0001207010, 0001207014, 0001207016, 0001207017, AL/EEF0.5/6  
6 Volt, Length 18.00, Lead length 32.00, Height 16.00, Thickness 7.00



### BSX524 Brush Set

Replacing: 2007014000

Servicing: 0001154001, 0001154007, 0001155003, 0001155009, 0001155011, 0001155016, 0001155017, 9000141004

6/12 Volt, Length 17.50, Lead length 33.00, Height 14.00, Thickness 7.00



### BSX704 Brush Set

Replacing: 1007014128, 2007014018

Servicing: 0001157001, 0001157002, 0001157003, 0001157004, 0001157005

12 Volt, Length 16.00, Lead length 26.00, Height 14.00, Thickness 7.00  
Alternative no.: BS70/0



### BSX744 Brush Set

Replacing: 2007014024

Servicing: 0001155004, 0001155006, 0001155008, 0001155009, 0001155010, 0001155015, 0001155016, 0001155017  
12 Volt, Length 17.50, Lead length 33.00, Height 14.00, Thickness 7.00



### BSX754 Brush Set

Replacing: 2004320173, 2007014026

Servicing: 0001208203, 0001208205, 0001212200, 0001212202

12 Volt, Length 18.00, Lead length 28.00, Height 10.00, Thickness 7.00  
Alternative no.: BS75/0



### BSX764 Brush Set

Replacing: 1007014121

Servicing: 0001213004, 0001311033, 0001311034, 0001311042, 0001311043, 0001311047, 0001311051, 0001311101

12 Volt, Length 18.00, Lead length 33.00, Height 16.00, Thickness 7.00  
Alternative no.: 142340

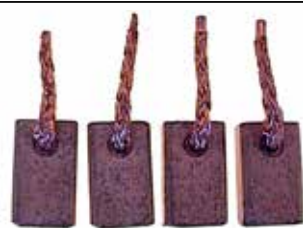


### BSX784 Brush Set

Replacing: 2007014027

Servicing: 0001157009, 0001157010, 9000692069

12 Volt, Length 16.00, Lead length 28.00, Height 10.00, Thickness 7.00



### BSX934 Brush Set

Replacing: 2007014016

Servicing: 0001363001, 0001363101  
24 Volt, Length 25.50, Lead length 32.00, Height 16.00, Thickness 9.00



### BSX964 Brush Set

Replacing: 2007014044, 2007014050, 2007014052, 2007014056, 2007014064, 2007014566

Servicing: 0001358201, 0001358202, 0001359001, 0001359002, 0001359003, 0001359004, 0001359008

12 Volt, Length 23.00, Lead length 43.00, Height 25.00, Thickness 10.00  
Alternative no.: BS96



### BSX97F4 Brush Set

Replacing: 1007014130, 2007014057

Servicing: 0001315002, 0001315004, 0001315005, 0001362034, 0001362035, 0001362036, 0001362037, 0001362038

12 Volt, Length 17.00, Lead length 33.50, Height 16.00, Thickness 9.00



### BSX98F4 Brush Set

Replacing: BSX98F4

12 Volt, Length 18.00, Lead length 34.00, Height 10.00, Thickness 7.00



## Brushes

Pkg. 100



**BS100** Brush  
 Replacing: BS100  
 24 Volt, Length 23.05, Lead length 41.50,  
 Height 24.90, Thickness 7.80  
 Alternative no.: BSX1004

Pkg. 100



**BS102** Brush  
 Replacing: BS102  
 12 Volt, Length 25.40,  
 Lead length 35.00, Height 15.85,  
 Thickness 8.85  
 Alternative no.: BSX1024

Pkg. 100



**BS104/0** Brush  
 Replacing: BS104/0  
 Servicing: 0001314047  
 12 Volt, Length 18.10,  
 Lead length 32.50, Height 15.90,  
 Thickness 6.90  
 Alternative no.: BSX1042

Pkg. 100



**BS134/0** Brush  
 Replacing: BS134/0  
 Length 16.30, Lead length 42.50, Height 24.85, Thickness 9.85  
 Alternative no.: BSX134-1444

Pkg. 100



**BS135/0** Brush  
 Replacing: BS135/0  
 Servicing: 0001368082  
 24 Volt, Length 16.60,  
 Lead length 42.70, Height 24.80,  
 Thickness 8.00  
 Alternative no.: BSX135-1454

Pkg. 100



**BS139** Brush  
 Replacing: BS139  
 12 Volt, Length 17.05,  
 Lead length 42.00, Height 15.80,  
 Thickness 8.95  
 Alternative no.: BSX1394

Pkg. 100



**BS144/0** Brush  
 Replacing: BS144/0  
 12 Volt, Length 16.60,  
 Lead length 53.00, Height 24.85,  
 Thickness 9.85

Pkg. 100



**BS145/0** Brush  
 Replacing: BS145/0  
 Servicing: 0001368082  
 24 Volt, Length 16.60,  
 Lead length 53.00, Height 24.85,  
 Thickness 7.90  
 Alternative no.: BSX135-1454

Pkg. 100



**BS148** Brush  
 Replacing: BS148  
 24 Volt, Length 27.00,  
 Lead length 53.00, Height 35.75,  
 Thickness 11.80  
 Alternative no.: BSX1484

Pkg. 100



**BS149** Brush  
 Replacing: BS149  
 12 Volt, Length 14.05,  
 Lead length 26.00, Height 9.90,  
 Thickness 6.95  
 Alternative no.: BSX1494

Pkg. 100



**BS151** Brush  
 Replacing: 9003334328  
 12 Volt, Length 18.90,  
 Lead length 25.00, Height 17.95,  
 Thickness 7.40

Pkg. 100



**BS157** Brush  
 Replacing: 9001320110  
 Servicing: 0001105205, 0001109064,  
 0001109065, 0001109069, 0001109258,  
 0001109259, 0001109268, 0001109269  
 12 Volt, Length 14.40, Lead length 24.00,  
 Height 17.85, Thickness 6.00  
 Alternative no.: BSX157-1584



Pkg. 100



### BS158 Brush

Replacing: 9001320111

Servicing: 0001105205, 0001109064,  
0001109065, 0001109069, 0001109258,  
0001109259, 0001109268, 0001109269

12 Volt, Length 14.35, Lead length 25.00,  
Height 17.80, Thickness 5.90  
Alternative no.: BSX157-1584

Pkg. 100



### BS159 Brush

Replacing: 9001320113

Servicing: 0001108196, 0001108202,  
0001108222, 0001108240, 0001108245

12 Volt, Length 12.85, Lead length 24.00,  
Height 15.85, Thickness 4.85  
Alternative no.: BSX159-1604

Pkg. 100



### BS160 Brush

Replacing: 9001320114

Servicing: 0001108196, 0001108202,  
0001108222, 0001108240, 0001108245

12 Volt, Length 12.85, Lead length 23.50,  
Height 15.80, Thickness 4.85  
Alternative no.: BSX159-1604

Pkg. 100



### BS175 Brush

Replacing: 9001320118

Servicing: 0001106014, 0001106019,  
0001106023, 0001107076, 0001107080,  
0001107091, 0001107097, 0001121006

12 Volt, Length 11.40, Lead length 25.00,  
Height 11.90, Thickness 4.75  
Alternative no.: BSX175-1764

Pkg. 100



### BS176 Brush

Replacing: 9001320119

Servicing: 0001106014, 0001106019,  
0001106023, 0001107076, 0001107080,  
0001107091, 0001107097, 0001121006

12 Volt, Length 11.40, Lead length 24.50,  
Height 11.90, Thickness 4.90  
Alternative no.: BSX175-1764

Pkg. 100



### BS70/0 Brush

Replacing: BS70/0

12 Volt, Length 15.92,  
Lead length 27.00, Height 13.85,  
Thickness 6.85  
Alternative no.: BSX704

Pkg. 100



### BS75/0 Brush

Replacing: BS75/0

12 Volt, Length 18.00,  
Lead length 33.50, Height 9.90,  
Thickness 6.90  
Alternative no.: BSX754

Pkg. 100



### BS96 Brush

Replacing: BS96

12 Volt, Length 23.05,  
Lead length 41.00, Height 24.80,  
Thickness 9.75  
Alternative no.: BSX964

## Bushings

Pkg. 10



### 140003 Bushing

Replacing: 1000301001, 1000301046

Servicing: 0001157001, 0001157002,  
0001157003, 0001157004, 0001157005,  
0001157006, 0001157007, 0001157008

ID 12.55, OD 16.56, Length 11.50,  
Material Copper, Pin w/o  
Alternative no.: B140003

Pkg. 10



### 140004 Bushing

Replacing: 2000301001, 2000301009

Servicing: 0001354004, 0001354005,  
0001354016, 0001354018, 0001354027,  
0001354029, 0001354031, 0001354038

ID 14.08, OD 17.58, Length 15.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140004

Pkg. 10



### 140006 Bushing

Replacing: 1900301420

Servicing: 0001358200, 0001358201,  
0001358202, 0001359001, 0001359002,  
0001359003, 0001359004, 0001359008

ID 14.04, OD 20.02, Length 10.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140006

Pkg. 10



### 140008 Bushing

Replacing: 1000301021

Servicing: 0001106001, 0001106002,  
0001106004, 0001107007, 0001107008,  
0001107020, 0001107021, 0001107052

ID 11.00, OD 13.60, Length 13.80,  
Material Copper, Pin w/o  
Alternative no.: B140008



Pkg. 10



### 140009 Bushing

Replacing: 1000301011

Servicing: 0001208205, 0001218002, 0001218004, 0001218005, 0001218006, 0001218012, 0001218013, 0001218017  
ID 12.10, OD 16.12, Length 16.00, Material Copper, Pin w/o  
Alternative no.: B140009

Pkg. 10



### 140010 Bushing

Replacing: 2000301000

Servicing: 0001223026, 0001230001, 0001230003, 0001230004, 0001230005, 0001230006, 0001230007, 0001230008  
ID 12.59, OD 16.55, Length 18.00, Material Copper, Pin w/o  
Alternative no.: B140010

Pkg. 10



### 140011 Bushing

Replacing: 2000301015

Servicing: 0001402018, 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022  
ID 40.12, OD 48.04, Length 10.50, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140011, b140011u

Pkg. 10



### 140012 Bushing

Replacing: 1000301002, 1000301047

Servicing: 0001201009, 0001203008, 0001203009, 0001203010, 0001204002, 0001205015, 0001205017, 0001207001  
ID 12.56, OD 16.55, Length 14.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140012

Pkg. 10



### 140014 Bushing

Replacing: 2000301013, 2000301128, 9900333089

Servicing: 0001107109, 0001107110, 0001107111, 0001107450, 0001107451, 0001107508, 0001107509, 0001107534  
ID 10.08, OD 14.09, Length 13.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140014

Pkg. 10



### 140016 Bushing

Replacing: 1000301000, 1000301042, 2000301019

Servicing: 0001211227, 0001304009, 0001304010, 0001304016, 0001305010, 0001305011  
ID 12.57, OD 16.55, Length 15.80, Material Copper, Pin w/o  
Alternative no.: B140016

Pkg. 10



### 140017 Bushing

Replacing: 1000301012

Servicing: 0001107012, 0001107013, 0001107017, 0001107018, 0001107024, 0001107034, 0001107037, 0001107045  
ID 12.09, OD 16.11, Length 14.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140017

Pkg. 10



### 140018 Bushing

Replacing: 2000301036, 9001082166

Servicing: 0001106018, 0001106020, 0001107003, 0001107004, 0001107005, 0001107006, 0001107009, 0001107014  
ID 12.08, OD 14.09, Length 13.90, Material Copper, Pin w/o  
Alternative no.: B140018

Pkg. 10



### 140019 Bushing

Replacing: 2000301043, 2000301047

Servicing: 0001311028, 0001311029, 0001311030, 0001311031, 0001330004, 0001330007, 0001330011, 0001330016  
ID 14.06, OD 18.03, Length 14.00, Material Copper, Pin w/o  
Alternative no.: B140019

Pkg. 10



### 140020 Bushing

Replacing: 2000301002, 2000301140

Servicing: 0001354004, 0001354005, 0001354027, 0001354031, 0001354064, 0001354077, 0001354079, 0001354082  
ID 19.13, OD 25.09, Length 10.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140020

Pkg. 10



### 140025 Bushing

Replacing: 2000301026

Servicing: 0001358200, 0001358201, 0001358202, 0001362001, 0001362002, 0001362003, 0001362004, 0001362005  
ID 19.11, OD 23.08, Length 9.80, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140026 Bushing

Replacing: 2000301041, 2000301045

Servicing: 0001358048, 0001358051, 0001359002, 0001359003, 0001359008, 0001359010, 0001359012, 0001359013  
ID 19.10, OD 23.10, Length 13.00, Material Copper, Pin w/o  
Alternative no.: B140026





### 140027 Bushing

Replacing: 1000301022, 1000301034

Servicing: 0001112010, 0001112011, 0001112017, 0001112018, 0001114003, 0001114004, 0001114005, 0001114006

ID 17.60, OD 21.60, Length 9.40, Material Copper, Pin w/o  
Alternative no.: B140027

Pkg. 10



### 140031 Bushing

Replacing: 2000301024

Servicing: 0001211995, 0001358035, 0001358040, 0001358201, 0001358202, 0001362005, 0001362006, 0001362008

ID 14.30, OD 16.00, Length 13.70, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140031

Pkg. 10



### 140111 Bushing

Replacing: 2000301016

Servicing: 0001360049, 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022

ID 22.14, OD 28.07, Length 11.20, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140111

Pkg. 10



### 140028 Bushing

Replacing: 2000301022

Servicing: 0001207016, 0001207017, 0001207020, 0001211012, 0001211013, 0001211221, 0001211222, 0001211223

ID 11.10, OD 12.60, Length 11.50, Material Copper, Pin w/o  
Alternative no.: B140028

Pkg. 10



### 140033 Bushing

Replacing: 1000301019, 2000301031

Servicing: 0001212002, 0001212005, 0001212006, 0001212007, 0001212008, 0001212011, 0001212012

ID 14.30, OD 16.00, Length 11.50, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140033

Pkg. 10



### 140140 Bushing

Replacing: 2000301004

Servicing: 0001400016, 0001401011, 0001401012, 0001401019, 0001401023, 0001401026, 0001401027, 0001401028

ID 16.67, OD 19.60, Length 19.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140140

Pkg. 10



### 140029 Bushing

Replacing: 1000301026, 1000301053, 1000301077

Servicing: 0001108183, 0001109014, 0001109015, 0001109036, 0001110005, 0001110016, 0001110054, 0001110092

ID 12.10, OD 13.60, Length 13.50, Material Copper, Pin w/o  
Alternative no.: B140029

Pkg. 10



### 140035 Bushing

Replacing: 1000301023

Servicing: 0001120400, 0001120401, 0001120402, 0001120403, 0001120404, 0001120405, 0001120406, 0001120408

ID 14.36, OD 16.02, Length 10.00, Material Copper, Pin w/o  
Alternative no.: B140035

Pkg. 10



### 140151 Bushing

Replacing: 2000301011

Servicing: 0001358035, 0001358040, 0001358046, 0001358047, 0001358049, 0001359012, 0001359016, 0001359027

ID 19.12, OD 25.10, Length 12.80, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140151

Pkg. 10



### 140030 Bushing

Replacing: 1000301009, 1000301066, 1000301082, 1000301088, 2000301020

Servicing: 00010DB98E, 0001107003, 0001107004, 0001107005, 0001107006, 0001107007

ID 12.10, OD 13.60, Length 11.50, Material Copper, Pin w/o  
Alternative no.: B140030

Pkg. 10



### 140043 Bushing

Replacing: 1000301063

Servicing: 0001108074, 0001108085, 0001108086, 0001108099, 0001108112, 0001108122, 0001108143, 0001112007

ID 12.10, OD 15.05, Length 15.00, Material Copper, Pin w/o  
Alternative no.: B140043

Pkg. 10



### 140203 Bushing

Replacing: 2000301037

Servicing: 0001364100, 0001364101, 0001364102, 0001364103, 0001364104, 0001364105, 0001364106, 0001364108

ID 14.08, OD 20.03, Length 17.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140203

Pkg. 10



Pkg. 10



### 140204

Bushing

Replacing: 9001140347

Servicing: 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009

ID 10.05, OD 16.55, Length 11.50, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140204

Pkg. 10



### 140208

Bushing

Replacing: 1000301056, 2000301056, F000AL1005

Servicing: 00010DB98E, 0001105205, 0001106001, 0001106002, 0001106004, 0001106011, 0001106012, 0001106014

ID 10.11, OD 14.04, Length 9.90, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140208

Pkg. 10



### 140221#

Bushing

ID 16.09, OD 18.00, Length 22.00, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140248

Bushing

Replacing: 1000301061

Servicing: 0001108074, 0001108112, 0001108125, 0001108128, 0001108130, 0001108162, 0001110016, 0001110052

ID 10.03, OD 16.55, Length 10.35, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140248

Pkg. 10



### 140249

Bushing

Replacing: 1000301054, 1000301076

Servicing: 0001106001, 0001106002, 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017

ID 8.10, OD 11.12, Length 8.00, Material Copper, Pin w/o  
Alternative no.: B140249

Pkg. 10



### 140250

Bushing

Servicing: 0001110001, 0001110002, 0001110014, 0001110015, 0001110133, 0001110134, 0001117008, 0001123014

ID 8.09, OD 11.12, Length 10.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140250

Pkg. 10



### 140251

Bushing

Replacing: 1000301055, 1000301074

Servicing: 0001106001, 0001106002, 0001106011, 0001107005, 0001107006, 0001107014, 0001107016, 0001107027

ID 18.00, OD 22.10, Length 8.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140251

Pkg. 10



### 140252

Bushing

Replacing: 1000301068, 1000301075,

Servicing: 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106022, 0001106023

ID 18.03, OD 22.10, Length 6.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140252

Pkg. 10



### 140256

Bushing

Replacing: 1000301013

Servicing: 0001212001, 0001212002, 0001212003, 0001212005, 0001212006, 0001212007, 0001212008, 0001212011

ID 26.10, OD 30.40, OD/collar 33.00, Length 11.35, Height/collar 2.50, Material Copper, Pin w/o

Pkg. 10



### 140261

Bushing

Replacing: 1000301003

Servicing: 0001223504

ID 14.39, OD 16.00, Length 18.00, Material Copper alloy, Pin w/o  
Alternative no.: B140261

Pkg. 10



### 140319

Bushing

Replacing: 1000301083

Servicing: 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106022, 0001106023

ID 10.00, OD 14.00, Length 12.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140319

Pkg. 10



### 140320

Bushing

Replacing: 1987007014

ID 11.06, OD 13.03, Length 13.00, Material Copper, Pin w/o  
Alternative no.: B140320





### 140321 Bushing

Replacing: 1987007015

ID 14.27, OD 17.26, Length 12.45,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140321

Pkg. 10



### 140423 Bushing

Servicing: 0001112003, 0001112004,  
0001112005, 0001112006, 0001112007,  
0001112009, 0001112010, 0001112011  
ID 12.55, OD 16.50, Length 10.60,  
Material Copper, Pin w/o  
Alternative no.: B140423

Pkg. 10



### 140500 Bushing

Replacing: 1000301008, 2000301023

Servicing: 0001111001, 0001112021,  
0001112022, 0001112027, 0001112028,  
0001112044, 0001113001, 0001113002  
ID 12.11, OD 14.10, Length 12.00,  
Material Copper, Pin w/o  
Alternative no.: B140500

Pkg. 10



### 140563 Bushing

Replacing: 1000322005

Servicing: 0001218002, 0001218003,  
0001218004, 0001218005, 0001218006,  
0001218007, 0001218008, 0001218009  
ID 10.07, OD 16.55, OD/collar 18.70,  
Length 14.60, Height/collar 1.50,  
Material Copper, Pin w/o  
Alternative no.: B140563

Pkg. 10



### 140645 Bushing

Replacing: 1000301010

Servicing: 0001207001, 0001207005,  
0001208006, 0001208017, 0001310007,  
0001310008, 0001310019, AL/EEF0.5/6  
ID 12.63, OD 14.10, Length 10.50,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140645

Pkg. 10



### 140692 Bushing

Replacing: 1000301027

Servicing: 0001312104, 0001312105,  
0001312106, 0001312107, 0001312108,  
0001312109, B001335003  
ID 26.10, OD 32.10, OD/collar 33.20,  
Length 11.60, Height/collar 2.50,  
Material Copper, Pin w/o

Pkg. 10



### 140711 Bushing

Servicing: 0001107094, 0001107095,  
0001108184, B001110315

ID 18.02, OD 22.04, Length 5.90,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140745 Bushing

Replacing: 1900301454

Servicing: 0001510001, 0001510002,  
0001510003, 0001510004, 0001510005,  
0001510006, 0001510008, 0001510009  
ID 24.90, OD 32.00, Length 17.85,  
Material Copper, Pin w/o

Pkg. 10



### 140782 Bushing

ID 12.13, OD 13.62, Length 20.00,  
Material Copper, Pin w/o  
Alternative no.: B140782

Pkg. 10



### 140850 Bushing

Replacing: 1000390001, 1000390003, 1000390004

Servicing: 0001121001, 0001121002, 0001121003  
ID 28.35, OD 32.25, Length 10.00, Pin w/

Pkg. 10



### 140853 Bushing

Replacing: 1000301032

Servicing: 0001106001, 0001106002,  
0001106004, 0001107031, 0001107032,  
0001107049, 0001107400, 0001107401  
ID 11.09, OD 12.60, Length 11.50,  
Material Copper, Pin w/o  
Alternative no.: B140853

Pkg. 10



### 140854 Bushing

Replacing: 1000301031, 1000301106

Servicing: 0001106011, 0001106012,  
0001106014, 0001106015, 0001106016,  
0001106017, 0001106020, 0001106022  
ID 12.10, OD 13.57, Length 11.50,  
Type Standard, Material Steel, Pin w/o  
Alternative no.: B140854



Pkg. 10



### 140855

Bushing

Replacing: 2000301025

Servicing: 0001362001, 0001362002, 0001362027, 0001362028, 0001362029, 9000143406

ID 14.10, OD 20.05, Length 10.00, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140856

Bushing

Replacing: 1000301062

Servicing: 0001112003, 0001112004, 0001112005, 0001112006, 0001112007, 0001112008, 0001112009, 0001112010

ID 12.57, OD 16.54, Length 9.80, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140856

Pkg. 10



### 140857#

Bushing

Replacing: 1000301009

ID 12.10, OD 13.50, Length 11.50, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140858

Bushing

Replacing: 2000301040

Servicing: 0001154001, 0001155003, 0001155004, 0001155011, 0001157011, 9000141001, 9000141002, 9000141009

ID 12.00, OD 14.00, Length 11.90, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140858

Pkg. 10



### 140859

Bushing

Replacing: 2000301049

Servicing: 0001359067, 0001359072, 0001359075, 0001359084, 0001359094, 0001359095, 0001359099, 0001359100

ID 19.13, OD 23.05, Length 13.20, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140859

Pkg. 10



### 140862

Bushing

Replacing: 2000301051

Servicing: 0001358202, 0001362307

ID 14.30, OD 16.03, Length 16.90, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140865

Bushing

ID 14.44, OD 16.00, Length 15.20,

Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140866

Bushing

Replacing: 2000301006

Servicing: 0001208515, 0001223500, 0001223502, 0001223505, 0001358048, 0001359003, 0001359008, 0001359010

ID 14.36, OD 16.02, Length 23.50, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140866

Pkg. 10



### 140867

Bushing

Replacing: 2000301044

Servicing: 0001223501, 0001223503, 0001223504, 0001362051, 0001362052, 0001362063, 0001362064, 0001362093

ID 14.34, OD 16.04, Length 20.39, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140867

Pkg. 10



### 140911



Bushing

Replacing: 9003330905

Servicing: 9000331203, 9000331201

ID 10.03, OD 16.10, Length 12.50, Material Copper, Pin w/o

Pkg. 10



### 140916

Bushing

ID 8.02, OD 11.51, Length 11.43,

Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140928

Bushing

Servicing: 0001124005, 0001124006

ID 18.01, OD 22.24, Length 5.93, Type Standard, Material Copper, Pin w/o





### 140929 Bushing

Replacing: 1000301072

Servicing: 0001120400, 0001120401, 0001120402, 0001120403, 0001120404, 0001120405, 0001120406, 0001120408

ID 11.03, OD 13.54, Length 9.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140929

Pkg. 10



### 140962 Bushing

Replacing: 9001083373

Servicing: 9000083027, 9000083028, 9000083043, 9000083045, 9000083049, 9000083053, 9000083054, 9000083055

ID 15.72, OD 19.58, Length 9.80,  
Material Copper, Pin w/o

Pkg. 10



### 140984 Bushing

Replacing: 1000301080

Servicing: 0001108430, 0001108431, 0001116001, 0001116003, 0001116005, 0001116006, 0001116008, 0001116009

ID 12.55, OD 16.57, Length 7.85,  
Material Copper, Pin w/o

Pkg. 10



### 140988 Bushing

Replacing: 9003330317

Servicing: 0001218602, 0001218620, 0001218703, 0001218710, 0001218711, 0001218712, 0001218715, 0001218716

ID 10.03, OD 16.02, Length 10.00,  
Material Copper, Pin w/o

Pkg. 10



### 141061 Bushing

Replacing: 1000301069

Servicing: 0001108003, 0001108112, 0001108120, 0001108124, 0001108147, 0001108149, 0001108162, 0001110016

ID 10.04, OD 16.55, OD/collar 18.50,  
Length 13.80, Height/collar 2.90,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 141095 Bushing

ID 12.11, OD 14.02, Length 20.80,

Type Standard, Material Copper, Pin w/o

Pkg. 10



### 141096 Bushing

Servicing: 0001218012, 0001218013, 0001218018, 0001218024, 0001218103, 0001218105, 0001218113, 0001218114

ID 18.03, OD 22.10, Length 7.00,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 141099 Bushing

Servicing: 0001218166, 0001223013, 0001223014, 0001223504

ID 17.93, OD 22.10, Length 7.05,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 141115# 5★ Bushing

Replacing: 1000301087, 1000301114

Servicing: 0001121022, 0001121023, 0001125018, 0001125046, 0001125047

ID 12.20, OD 15.15, Length 8.40,  
Material Copper, Pin w/

Pkg. 5



### 141117 Bushing

Servicing: 0001218004, 0001218005, 0001218008, 0001218009, 0001218017, 0001218026, 0001218134, 0001218145

ID 5.20, OD 9.00, Length 9.00,  
Material Copper, Pin w/o

Pkg. 10



### 141118 Bushing

ID 8.01, OD 11.12, Length 8.00,  
Material Copper, Pin w/o

Pkg. 10



### 141119 Bushing

ID 10.10, OD 14.00, Length 9.55,  
Material Copper, Pin w/o

Pkg. 10



### 141141 Bushing

ID 20.50, OD 26.55, Length 11.90,  
Material Copper, Pin w/o

Pkg. 10



Pkg. 10



**141161** Bushing  
Servicing: 1006209949  
ID 14.25, OD 16.05, Length 9.95,  
Material Steel, Pin w/

Pkg. 10



**141165** Bushing  
Replacing: 1000301113, 141165  
Servicing: 0001123004, 0001123005,  
0001123014, 0001123015, 0001123017,  
0001123020, 0001123021, 0001123028  
ID 11.07, OD 14.02, Length 9.00,  
Material Steel, Pin w/

Pkg. 10



**141212** Bushing  
Servicing: 0001231002, 0001231032,  
B001260015  
ID 21.03, OD 25.00, Length 11.80,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



**142049** Bushing  
ID 7.05, OD 12.03, Length 8.60,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



**142054** Bushing  
Replacing: 6033AC0423  
Servicing: 0001330001, 0001330003,  
0001330005, 0001330006, 0001330008,  
0001330012, 0001330013, 0001330014  
ID 14.00, OD 20.00, Length 13.90

Pkg. 5



**142061#** Bushing  
Replacing: 6033AC5050  
Servicing: 0001241003, 0001241004,  
0001241005, 0001241006, 0001241007,  
0001241008, 0001241009, 0001241012  
ID 18.00, OD 20.08, Length 25.95,  
Type Standard, Material Copper, Pin w/

Pkg. 10



**142068** Bushing  
ID 6.05, OD 12.00, Length 11.07,  
Material Copper



**142116** Bushing  
Replacing: 1000301056  
ID 10.05, OD 14.04, Length 9.90



**142119** Bushing  
Replacing: 1000301076  
ID 8.00, OD 11.10, Length 8.00

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**142125** Bushing  
Replacing: 1000301072  
ID 11.10, OD 13.62, Length 9.00

Pkg. 10



**237666** Bushing  
Replacing: 1000300029  
Servicing: 0001109300, 0001109301,  
0001109302, 0001109303, 0001109332,  
0001109333, 0001109334, 0001109335  
ID 9.35, OD 11.98, Length 12.46,  
Type Mount., Material Steel, Pin w/o

Pkg. 10



**332820** Bushing  
Replacing: 1000301091  
Servicing: 0001106403, 0001106404,  
0001106405, 0001106406, 0001106407,  
0001106409, 0001106410, 0001107400  
ID 12.56, OD 16.60, Length 6.00,  
Type Standard, Material Copper, Pin w/o

Pkg. 10

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**335774** Bushing  
Replacing: 1000301600  
Servicing: 0001192008  
ID 15.00, OD 19.00, Length 6.88

Pkg. 10



**335775** Bushing  
Replacing: 1000301601  
Servicing: 0001192008  
ID 9.03, OD 12.07, Length 6.00

Pkg. 10



**335776** Bushing  
Replacing: 1000301602  
Servicing: 0001192008  
ID 10.04, OD 13.56, Length 6.00





Pkg. 10

**335777**

Bushing

Replacing: 1000301603

Servicing: 0001192008

ID 10.07, OD 14.03, Length 10.00



Pkg. 10

**335778**

Bushing

Replacing: 1000301604

Servicing: 0001192008

ID 5.02, OD 9.03, Length 7.70



Pkg. 100

**B140003**

Bushing

Replacing: 1000301001, 1000301046

Servicing: 0001314047

ID 12.60, OD 16.56, Length 11.50,

Material Copper, Pin w/o

Alternative no.: 140003



Pkg. 100

**B140004**

Bushing

Replacing: 2000301001, 2000301009

ID 14.08, OD 17.58, Length 15.00,

Type Standard, Material Copper, Pin w/o

Alternative no.: 140004



Pkg. 100

**B140006**

Bushing

Replacing: 1900301420

ID 14.04, OD 20.02, Length 10.00,

Type Standard, Material Copper, Pin w/o

Alternative no.: 140006



Pkg. 100

**B140008**

Bushing

Replacing: 1000301021

ID 11.06, OD 13.60, Length 14.00,

Material Copper, Pin w/o

Alternative no.: 140008



Pkg. 100

**B140009**

Bushing

Replacing: 1000301011

ID 12.10, OD 16.12, Length 16.00,

Material Copper, Pin w/o

Alternative no.: 140009



Pkg. 100

**B140010**

Bushing

Replacing: 2000301000

Servicing: 0001231004, 0001231005, 0001231008, 0001231009, 0001231011, 0001231014, 0001231016, 0001231045

ID 12.56, OD 16.55, Length 18.00,

Material Copper, Pin w/o

Alternative no.: 140010



Pkg. 100

**B140011**

Bushing

Replacing: 2000301015

ID 40.12, OD 48.04, Length 10.50,

Type Standard, Material Copper, Pin w/o

Alternative no.: 140011, b140011u



Pkg. 100

**B140011U**

Bushing

Replacing: B140011U

OD 48.04, Length 40.12, Type Standard,

Material Copper, Pin w/o

Alternative no.: 140011, B140011



Pkg. 100

**B140012**

Bushing

Replacing: 1000301002, 1000301047

ID 12.56, OD 16.55, Length 14.00,

Material Copper, Pin w/o

Alternative no.: 140012



Pkg. 100

**B140014**

Bushing

Replacing: 2000301013, 2000301128, 9900333089

Servicing: 0001107535

ID 10.08, OD 14.09, Length 13.00,

Material Copper, Pin w/o

Alternative no.: 140014



Pkg. 100

**B140016**

Bushing

Replacing: 1000301000, 1000301042, 2000301019

ID 12.57, OD 16.55, Length 15.80,

Material Copper, Pin w/o

Alternative no.: 140016



Pkg. 100



### B140017 Bushing

Replacing: 1000301012

ID 12.05, OD 16.10, Length 14.00,  
Material Copper, Pin w/o  
Alternative no.: 140017

Pkg. 100



### B140018 Bushing

Replacing: 2000301036, 9001082166

Servicing: 0001107076, 0001108196,  
0001108245, 0001115015, 0986010030  
ID 12.08, OD 14.09, Length 13.90,  
Material Copper, Pin w/o  
Alternative no.: 140018

Pkg. 100



### B140019 Bushing

Replacing: 2000301043, 2000301047

Servicing: 0001368082, 0001368311,  
0001368313, 0001372005, B001860023  
ID 14.06, OD 18.03, Length 14.00,  
Material Copper, Pin w/o  
Alternative no.: 140019

Pkg. 100



### B140020 Bushing

Replacing: 2000301002, 2000301140

Servicing: 0001354034  
ID 19.13, OD 25.09, Length 10.00,  
Material Copper, Pin w/o  
Alternative no.: 140020

Pkg. 100



### B140026 Bushing

Replacing: 2000301041, 2000301045

Servicing: 0001368082, 0001368311,  
0001368313  
ID 19.10, OD 23.10, Length 13.00,  
Material Copper, Pin w/o  
Alternative no.: 140026

Pkg. 100



### B140027 Bushing

Replacing: 1000301022, 1000301034

Servicing: 0001314047  
ID 17.62, OD 21.63, Length 9.42,  
Material Copper, Pin w/o  
Alternative no.: 140027

Pkg. 100



### B140028 Bushing

Replacing: 2000301022

ID 11.10, OD 12.60, Length 11.50,  
Material Copper, Pin w/o  
Alternative no.: 140028

Pkg. 100



### B140029 Bushing

Replacing: 1000301026, 1000301053,  
1000301077

ID 12.10, OD 13.60, Length 13.50,  
Material Copper, Pin w/o  
Alternative no.: 140029

Pkg. 100



### B140030 Bushing

Replacing: 1000301009, 1000301066,  
1000301082, 1000301088, 2000301020  
Servicing: 0001147400, 0001147404,  
1006209570

ID 12.13, OD 13.62, Length 11.50,  
Material Copper, Pin w/o  
Alternative no.: 140030

Pkg. 100



### B140031 Bushing

Replacing: 2000301024

ID 14.30, OD 16.00, Length 13.50,  
Material Copper, Pin w/o  
Alternative no.: 140031

Pkg. 100



### B140033 Bushing

Replacing: 1000301019, 2000301031

ID 14.30, OD 16.00, Length 11.50,  
Type Mount., Material Copper, Pin w/o  
Alternative no.: 140033

Pkg. 100



### B140035 Bushing

Replacing: 1000301023

ID 14.36, OD 16.02, Length 10.00,  
Material Copper, Pin w/o  
Alternative no.: 140035





Pkg. 100

**B140043** Bushing  
Replacing: 1000301063  
ID 12.10, OD 15.05, Length 15.00,  
Material Copper, Pin w/o  
Alternative no.: 140043



Pkg. 100

**B140111** Bushing  
Replacing: 2000301016  
ID 22.14, OD 28.07, Length 11.20,  
Material Copper, Pin w/o  
Alternative no.: 140111



Pkg. 100

**B140140** Bushing  
Replacing: 2000301004  
ID 16.67, OD 19.60, Length 19.00,  
Material Copper, Pin w/o  
Alternative no.: 140140



Pkg. 100

**B140151** Bushing  
Replacing: 2000301011  
ID 19.12, OD 25.10, Length 12.80,  
Material Copper, Pin w/o  
Alternative no.: 140151



Pkg. 100

**B140203** Bushing  
Replacing: 2000301037  
ID 14.08, OD 20.06, Length 16.90,  
Material Copper, Pin w/o  
Alternative no.: 140203



Pkg. 100

**B140204** Bushing  
Replacing: 9001140347  
ID 10.05, OD 16.55, Length 11.50,  
Material Copper, Pin w/o  
Alternative no.: 140204



Pkg. 100

**B140208** Bushing  
Replacing: 1000301056, 2000301056  
Servicing: 0001106014, 0001106019,  
0001106023, 0001107076, 0001107080,  
0001107088, 0001107091, 0001107097  
ID 10.11, OD 14.04, Length 9.90,  
Material Copper, Pin w/o  
Alternative no.: 140208



Pkg. 100

**B140248** Bushing  
Replacing: 1000301061  
ID 10.03, OD 16.55, Length 10.35,  
Material Copper, Pin w/o  
Alternative no.: 140248



Pkg. 100

**B140249** Bushing  
Replacing: 1000301054, 1000301076,  
9003330314  
Servicing: 0001107076, 0001109315,  
0001112017, 0001120411, 0001121023,  
0001124020, 0001124021, 0001125009  
ID 8.10, OD 11.12, Length 8.00,  
Material Copper, Pin w/o  
Alternative no.: 140249



Pkg. 100

**B140250** Bushing  
Replacing: B140250  
ID 8.09, OD 11.12, Length 10.00,  
Material Copper, Pin w/o  
Alternative no.: 140250



Pkg. 100

**B140251** Bushing  
Replacing: 1000301055, 1000301074  
ID 18.00, OD 22.10, Length 8.00,  
Material Copper, Pin w/o  
Alternative no.: 140251



Pkg. 100

**B140252** Bushing  
Replacing: 1000301068, 1000301075  
Servicing: 0001107076, 0001109315,  
0001115088, 0001120411, 0001121023,  
0001124020, 0001124021, 0001125009  
ID 18.03, OD 22.10, Length 6.00,  
Material Copper, Pin w/o  
Alternative no.: 140252



Pkg. 100

**B140261** Bushing  
Replacing: 1000301003  
ID 14.36, OD 16.00, Length 18.00,  
Material Copper alloy, Pin w/o  
Alternative no.: 140261



Pkg. 100



### B140319

Bushing

Replacing: 1000301083

Servicing: 0001106014, 0001106019,  
0001106023, 0001107402, 0001107423,  
0001107424, 0001107425, 0001107439

ID 10.00, OD 14.00, Length 12.00,  
Material Copper, Pin w/o  
Alternative no.: 140319

Pkg. 100



### B140320#

Bushing

Replacing: 1987007014

ID 11.06, OD 13.03, Length 13.00,  
Material Copper, Pin w/o  
Alternative no.: 140320

Pkg. 100



### B140321

Bushing

Replacing: 1987007015

ID 14.27, OD 17.26, Length 12.50,  
Material Copper, Pin w/o  
Alternative no.: 140321

Pkg. 100



### B140423

Bushing

Servicing: F000AL0321

ID 12.55, OD 16.50, Length 10.60,  
Material Copper, Pin w/o  
Alternative no.: 140423

Pkg. 100



### B140500

Bushing

Replacing: 1000301008, 2000301023

ID 12.11, OD 14.10, Length 12.00,  
Material Copper, Pin w/o  
Alternative no.: 140500

Pkg. 100



### B140563

Bushing

Replacing: 1000322005

ID 10.07, OD 16.55, OD/collar 19.00,  
Length 14.60, Height/collar 1.60,  
Material Copper, Pin w/o  
Alternative no.: 140563

Pkg. 100



### B140645

Bushing

Replacing: 1000301010

ID 12.63, OD 14.10, Length 10.50,  
Material Copper, Pin w/o  
Alternative no.: 140645

Pkg. 100



### B140782

Bushing

Servicing: 1006209570

ID 12.13, OD 13.62, Length 20.00,  
Material Copper, Pin w/o  
Alternative no.: 140782

Pkg. 100



### B140853

Bushing

Replacing: 1000301032

ID 11.09, OD 12.60, Length 11.50,  
Material Copper, Pin w/o  
Alternative no.: 140853

Pkg. 100



### B140854

Bushing

Replacing: 1000301031, 1000301106

ID 12.10, OD 13.57, Length 11.50,  
Material Steel, Pin w/o  
Alternative no.: 140854

Pkg. 100



### B140856

Bushing

Replacing: 1000301062

ID 12.57, OD 16.55, Length 10.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: 140856

Pkg. 100



### B140858

Bushing

Replacing: 2000301040

ID 12.10, OD 14.10, Length 12.10,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: 140858

Pkg. 100



### B140859

Bushing

Replacing: 2000301049

ID 19.13, OD 23.05, Length 13.20,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: 140859



Pkg. 100

**B140866** Bushing

Replacing: 2000301006

ID 14.36, OD 16.02, Length 23.50,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: 140866

Pkg. 100

**B140867** Bushing

Replacing: 2000301044

ID 14.34, OD 16.04, Length 20.39,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: 140867

Pkg. 100

**B140929** Bushing

Replacing: 1000301072

ID 11.03, OD 13.54, Length 9.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: 140929

## Bearings

### Ball Bearings

Pkg. 10

**140084 FAG** 6202-2RS1

Replacing: 1100900000, 1900900303, 1900900314,  
1900905269, 2000905000, 9902455037, F00M390410

Servicing: 0001370001, 0001370002,  
0001370003, 0001370004, 0001371001,  
0001371004, 0001371005, 0001371006

ID 15.00, OD 35.00, Height 11.00

Alternative no.:

142272 High Performance,

333110 High Performance

**140283 FAG** 6006-2RS1

Replacing: 6033AC5029, 6033AC5321, 6033AD5158

Servicing: 0001241001, 0001241003,  
0001241004, 0001241005, 0001241006,  
0001241007, 0001241014, 0001241015

ID 30.00, OD 55.00, Height 13.00

Alternative no.:

142281 High Performance

**140649 FAG** 16009

Replacing: 1900900206, 2000900001

Servicing: 0001510001, 0001510001,  
0001510002, 0001510003, 0001510005,  
0001510008, 0001510009, 0001510010

ID 45.00, OD 75.00, Height 10.00

**140874 CAR GO** High Performance 6204

Replacing: 1410900016

Servicing: 0001107438, 0001107439

ID 20.00, OD 47.00, Height 14.00

Pkg. 10

**142005** 6805-2RS

Replacing: 6033AC5145

Servicing: 0001241003, 0001241007,  
0001241014, 0001241015

ID 25.00, OD 37.00, Height 7.00

## Roller Bearings

**140650** Roller Bearing

Replacing: 2000914012

Servicing: 0001510001, 0001510002,  
0001510003, 0001510005, 0001510008,  
0001510009, 0001510010, 0001510017

ID 25.00, OD 62.00, Height 17.00, No./rolls 10

## Needle Bearings

Pkg. 10

**140197 FAG** Needle Bearing

Replacing: 2000910002, 2000910009

Servicing: 0001410015, 0001410016,  
0001410017, 0001410018, 0001410019,  
0001410021, 0001410022, 0001410023

ID 18.00, OD 24.00, Height 16.00

Pkg. 5

**140198 FAG** Needle Bearing

Replacing: 2000910005

Servicing: 0001410015, 0001410016,  
0001410017, 0001410018, 0001410019,  
0001410021, 0001410022, 0001410023

ID 34.00, OD 48.00, Height 15.00

Pkg. 10

**140242 FAG** Needle Bearing

Replacing: 9001140384

Servicing: PMGR SERIES, M78, M79,  
00010DB98E, 0001107037, 0001107048,  
0001107056, 0001107100, 0001107101,  
0001107108, 0001107112

ID 12.00, OD 16.00, Height 10.00



Pkg. 10



**140375** Needle Bearing  
 Replacing: 9003330902  
 Servicing: 9000331201, 9000331203  
 ID 18.00, OD 24.00, Height 12.00

Pkg. 5



**140468** Needle Bearing  
 Replacing: 9003330906  
 Servicing: 0001230006, 0001230012, 0001230014, 0001231002, 0001231008, 0001231011, 0001231013, 0001231017  
 ID 8.00, OD 12.00, Height 10.00

Pkg. 10



**140482 FAG** Needle Bearing  
 Replacing: 0399C74008, 1000917003  
 Servicing: 0001106023, 0001106024, 0001107030, 0001107032, 0001107059, 0001107064, 0001107075, 0001107078  
 ID 10.00, OD 14.00, Height 10.00

Pkg. 10



**140494 FAG** Needle Bearing  
 Replacing: 6033AC0093  
 Servicing: 0001223003, 0001223007, 0001223024  
 ID 12.00, OD 18.00, Height 12.00

Pkg. 5



**140617** Needle Bearing  
 Replacing: 9001140359  
 Servicing: 0001107072, 0001109001, 0001109002, 0001110003, 0001110005, 0001110017, 0001110025, 0001110026  
 ID 5.00, OD 9.00, Height 8.84

Pkg. 5



**140619** Needle Bearing  
 Servicing: 0001110001, 0001110002, 0001110007, 0001110008, 0001110009, 0001110010, 0001110011, 0001110012  
 ID 6.00, OD 10.00, Height 9.00

Pkg. 10



**140620 FAG** Needle Bearing  
 Replacing: 1000917001  
 Servicing: 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106022, 0001106023  
 ID 6.00, OD 10.00, Height 8.00,  
 Lock ring w/o, Oil seals w/o,  
 Teflon ring w/o

Pkg. 5



**140717** Needle Bearing  
 Replacing: 2000910004  
 Servicing: 0001510001, 0001510002, 0001510003, 0001510004, 0001510005, 0001510006, 0001510008, 0001510009  
 ID 19.05, OD 25.05, Height 15.88

Pkg. 5



**140733** Needle Bearing  
 Servicing: 0001420001, 0001420012  
 ID 22.00, OD 28.00, Height 20.00



**140901** Needle Bearing  
 Servicing: 0001420003, 0001420004, 0001420009, 0001420010, 0001420011, 0001420013, 0001420015, 0001420024  
 ID 22.00, OD 28.00, Height 20.00

Pkg. 5



**140902** Needle Bearing  
 Servicing: 0001420003, 0001420004, 0001420009, 0001420010, 0001420011, 0001420013, 0001420015, 0001420024  
 ID 18.00, OD 24.00, Height 16.00

Pkg. 5



**140903** Needle Bearing  
 Replacing: 9003330901  
 Servicing: 9000331201  
 ID 10.00, OD 17.00, Height 12.00

Pkg. 10



**140904** Needle Bearing  
 Replacing: 6033AC0105, 9003330903  
 Servicing: 0001218157, 0001218757, 0001223001, 0001223009, 0001223010, 0001223014, 0001223021, 0001230002  
 ID 12.00, OD 18.00, Height 16.00





Pkg. 5

### 140935 Needle Bearing

Replacing: 1000917006

Servicing: 0001107031, 0001107032,  
0001107049, 0001107415, 0001107429,  
0001107431, 0001107432, 0001107437

ID 9.00, OD 13.00, Height 10.00



### 140971 Needle Bearing

Replacing: 2000910013

Servicing: 0001370003, 0001370004,  
0001371004, 0001371005, 0001371006,  
0001371007, 0001371008, 0001371009

ID 15.88, OD 23.88, Height 21.88  
Closed end.

Pkg. 5



### 140972 Needle Bearing

Replacing: 2000910012, 9000910012

Servicing: 0001370001, 0001370002,  
0001370003, 0001370004, 0001371001,  
0001371004, 0001371005, 0001371006

ID 22.00, OD 28.00, Height 16.00

Pkg. 5



### 141015# Needle Bearing

Replacing: 2000910011

Servicing: 0001370001, 0001370002,  
0001371001, 9000453029, 9000453064,  
9000453065, 9000453066, 9000453067

ID 15.88, OD 20.64, Height 19.05



Pkg. 5

### 141040 Needle Bearing

Replacing: 6033AC0352

Servicing: 0001330001, 0001330003,  
0001330004, 0001330005, 0001330006,  
0001330007, 0001330008, 0001330011

ID 30.00, OD 37.00, Height 16.00

Pkg. 5



### 141054 Needle Bearing

Replacing: 1000917000, 1000917005

Servicing: 0001105205, 0001107070,  
0001107071, 0001108113, 0001108114,  
0001108133, 0001108174, 0001108175

ID 12.00, OD 16.00, Height 14.00

Alternative no.: 335930

Pkg. 5



### 141084 Needle Bearing

Replacing: 1000917007

Servicing: 0001121022, 0001121023,  
0001124020, 0001124021, 0001125016,  
0001125017, 0001125018, 0001125019

ID 30.50, OD 37.00, Height 15.90

Pkg. 10



### 141256 Needle Bearing

Replacing: 1000917008, 141256

Servicing: 0001107404, 0001107405,  
0001107410, 0001107418, 0001107429,  
0001107435, 0001107437, 0001107501

ID 5.50, OD 8.50, Height 6.85



Pkg. 10

### 142019 Needle Bearing

Replacing: 6033AC5059, HK2512

Servicing: 0001241001, 0001241003,  
0001241007, 0001241014, 0001241015,  
6033AC5060

ID 25.00, OD 32.00, Height 12.00

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### 142124 Needle Bearing

Replacing: 0399C74005, 1000917009,  
1000917010, 1000917012

Servicing: 0001120402, 0001120403,  
0001121402, 0001121403, 0001121408,  
0001121409, 0001121416, 0001121417

Bushings w/o

Pkg. 10



### 142364 Needle Bearing

Replacing: 1007010151

Servicing: 0001136002, 0001136003,  
0001136005, 0001136006, 0001136007,  
0001136008, 0001137001, 0001137002

ID 12.00, OD 16.00, Height 10.00



### 335319 Needle Bearing

Replacing: 1000917020

Servicing: 0001177000, 0001177001,  
0001177002, 0001177003, 0001177004,  
0001177005, 0001177006, 0001177008

ID 25.50, OD 32.02, Height 14.70,  
Oil seals Dual



## NEW PRODUCT

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### 335930 Needle Bearing

**Replacing:** 1000917000, 1000917005  
**Servicing:** 0001109315, 0001109324, 0001115088, 0001105205, 0001107070, 0001107071, 0001108113, 0001108114  
**ID 12.00, OD 16.00, Height 14.00**  
**Alternative no.:** 141054

## Repair Kits



### 130968 Repair Kit

**Replacing:** 2007010007  
**Servicing:** 0001354089, 0001358020, 0001358051, 0001358200, 0001358201, 0001358202, 0001359004, 0001359008



### 133308 Terminal Kit

**Replacing:** 2004449002, 2004449086  
**Servicing:** 0001410037, 0001410068, 0001411013, 0001414011, 0001416001, 0001416006, 0001416014  
**Terminal 30: M10. Terminal 31: M10 insulated.**



### 133312 Repair Kit

**Servicing:** 0001354, 0001363 SERIES

Pkg. 5



### 133316 Repair Kit

**Servicing:** 0001362, 0003167 SERIES,



### 133317 Repair Kit

**Servicing:** 0001367 SERIES



### 133540 Repair Kit

**For FKB-24 V insulated. includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130283, 130305. Brush set: HC-CARGO BSX1314.**



### 134009 Repair Kit

**Servicing:** 0001415016

**For FKB-24 V earthed. Includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130304, 133554. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX1314.**



### 135205 Repair Kit

**For FKB-24 V. Includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130283, 130304. Repair set: HC-CARGO 137016. Brush set: HC-CARGO BSX1314.**



### 135303 Repair Kit

**For FKB-24 V earthed. Includes: Solenoid: HC-CARGO 130304, 133554. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX1314.**



### 136282 Repair Kit

**For FKB-24 V earthed. Includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130304, 133554. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX1484.**



### 136915 Repair Kit

**Manufacturer:** Bosch

**Replacing:** 1007010039, 1007010081

**Servicing:** 0001090112, 0001090115, 0001090137, 0001090139, 0001090141, 0001090144, 0001105205, 0001106001



### 137016 Repair Kit

**Replacing:** 1987010000

**Servicing:** STARTER FKB, 0001410016, 0001410017, 0001410019, 0001410021, 0001410022, 0001410024, 0001410037, 0001410041



### 137883 Sealing Kit

**Manufacturer:** Bosch

**Replacing:** 2007010053

**Servicing:** 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008





### 138412 Terminal Kit

Servicing: 0001416010, 0001417037

Terminal 30: M12. Terminal 31: M10 insulated.



### 138927 Terminal Kit

Replacing: 2004632026

Servicing: 0001410015, 0001410016, 0001410024, 0001410041, 0001410044, 0001410046, 0001410053, 0001410063

Terminal 30: M10. Terminal 31: M10.



### 139071 Terminal Kit

Replacing: 2007011070

Servicing: 0001108107, 0001410024, 0001410029, 0001410062, 0001410088, 0001411009, 0001411023, 0001413017

Terminal 50. New type.



### 139152 Repair Kit

Manufacturer: Bosch

Replacing: 2007010020, 2007010032

Servicing: 0001354080, 0001354082, 0001354088, 0001354090, 0001354091, 0001354092, 0001354093, 0001354094



### 139292 Terminal Kit

Servicing: 0001416002, 0001416038, 0001416040, 0001416043, 0001416062, 0001417007, 0001417036

Terminal 30: M12. Terminal 31: M10. Grounded.



### 139576 Repair Kit

12 Volt

Contains: Clutch: HC-CARGO 130317.

Solenoid: HC-CARGO 132803, 133487. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX1304.



### 230021 Terminal Kit

Servicing: 0001416079

Terminal 30: M10. Terminal 31: M10 grounded. New type.



### 230022 Terminal Kit

Terminal 30: M10. Terminal 31: M10 insulated. New type.



### 230329 Repair Kit

24 Volt

For FKB-24 V insulated. Includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130283, 130305. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX172-1734.



### 230330 Repair Kit

For FKB-24 V earthed. includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130304, 133554. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX172-1734.



### 230331 Repair Kit

For FKB-24 V earthed. Includes: Solenoid: HC-CARGO 130304, 133554. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX172-1734.



### 231086 Repair Kit

Manufacturer: Bosch

Replacing: 2007010133

Servicing: 0001359021, 0001359038, 0001359083, 0001360035, 0001362039, 0001362060, 0001362064, 0001362069



### 231649 Repair Kit

Manufacturer: Bosch

Replacing: 6033AD0047

Servicing: 0001223001, 0001223004, 0001223005, 0001223006, 0001223008, 0001223009, 0001223011, 0001223012



### 231651 Repair Kit

Manufacturer: Bosch

Replacing: 6033AD0064

Servicing: 0001223002, 0001223003, 0001223007, 0001223016, 0001223021, 0001223024, 0001230006, 0001230014



### 335771 Repair Kit

Replacing: 1007010166

Servicing: 0001177000

Height 15.00



## Sundry Parts

### Thru Bolts

Pkg. 10



#### 134617 Through Bolt

Replacing: 1003527132, 1003527149

Servicing: 0001108166, 0001108167, 0001110003, 0001110009, 0001110010, 0001110012, 0001110013, 0001110016

Total length 180.00, Thread size M5/M6, Shaft w/, Washer w/

Pkg. 5



#### 135552 Through Bolt

Manufacturer: Bosch

Replacing: 2003526006, 2003526043

Servicing: 0001367001, 0001367002, 0001367004, 0001367005, 0001367006, 0001367007

Total length 210.00, Thread size M6, Thread size/rear M6, Shaft w/, Washer w/o

Pkg. 10



#### 135782 Through Bolt

Replacing: 1003421003, 1003527103, 1003527135

Servicing: 0001108018, 0001108021, 0001108028, 0001108029, 0001108038, 0001108039, 0001108042, 0001108047

Total length 153.00, Thread length 24.00, Thread size M5, Thread size/rear M5, Shaft w/, Washer w/

Pkg. 10



#### 135982 Through Bolt

Replacing: 1003527105

Servicing: 0001107027, 0001107028, 0001107427, 0001107428, 0001112005, 0001112006, 0001112013, 0001112014

Total length 137.00, Length/rear collar 121.05, Thread length 19.06, Thread size M5, Thread size/rear M5, Shaft w/, Washer w/o

Pkg. 20



#### 191292 Through Bolt

Replacing: 1123429102, 1123429201, 1123429212, 6033AC1148

Servicing: 0001218602, 0001218620, 0001218703, 0001218710, 0001218711, 0001218712, 0001218715, 0001218716

Thread M5, Length 110.00, Thread length 40.00, Head type Cheese head, Colour Black, Material Steel

Pkg. 20



#### 191584 Through Bolt

Replacing: 1003450040, 1003450047, 1123429207, 1123429231

Servicing: 0001106012, 0001106014, 0001106017, 0001106022, 0001106023, 0001106024, 0001107094

Thread M5, Length 125.00, Thread length 60.00, Head type Cheese head, Colour Black, Coating Electro galvanized, Material Steel

Pkg. 20



#### 191585 Through Bolt

Replacing: 1003410115, 1003450010, 1003450013, 1003450048, 1003450049, 1004450013, 1123429203

Servicing: 0001107032, 0001107034, 0001107037, 0001107045, 0001107048, 0001107056

Total length 138.70, Length/rear collar 134.80, Thread length 61.20, Thread size M5

Pkg. 2



#### 230453 Through Bolt

Replacing: 1003450012, 1003450028, 1003450053

Servicing: 0001109069, 0001109070, 0001109252, 0001109262, 0001109263, 0001109264, 0001109271

Total length 165.00, Length/rear collar 161.55, Thread length 20.35, Thread size M5, Shaft w/

Pkg. 2



#### 230726 Through Bolt

Replacing: 2003415003, 2003415011, 6033AC3116, 9001333446

Servicing: 0001230001, 0001230002, 0001230003, 0001230004, 0001230005

Total length 175.00, Length/rear collar 170.00, Thread length 25.60, Thread size M6, Shaft w/

Pkg. 2



#### 230730 Through Bolt

Manufacturer: Bosch

Replacing: 2003526023, 2003526044

Servicing: 0001362001, 0001362002, 0001362003, 0001362004, 0001362005, 0001362006

Total length 181.00, Thread size M6, Thread size/rear M6, Shaft w/

Pkg. 2



#### 230772 Through Bolt

Replacing: 1003450015, 1003450042, 1003450052

Servicing: 0001106011, 0001106015, 0001106018, 0001106019, 0001106403, 0001106404, 0001106405

Total length 119.00, Length/rear collar 118.65, Thread length 19.00, Thread size M5, Shaft w/

Pkg. 5



#### 231173 Through Bolt

Replacing: 1003527024, 1003527037

Servicing: 0001108167, 0001110009, 0001110010, 0001110026, 0001110027, 0001110053, 0001110060, 0001110065

Total length 162.00/182.00, Thread size M6, Thread size/rear M5, Shaft w/, Washer w/



## Screws

Pkg. 200



### 191586 Machine Screw

Replacing: 2910001116, 2910022118

Servicing: 0001203009, 0001204002, 0001204005, 0001204006, 0001207016, 0001207017, 0001207018, 0001207019

Thread M4, Length 6.00, Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045

## Nuts

Pkg. 200



### 191307 Hex Flange Nut

Replacing: 1123314008

Servicing: CS121, -130, 0001147400, 0001147404, 0120465031, 012046503B, 0120485029, 0120485030, 0120485048, 012048504J

Thread M5-0.8, Spanner size 8, Coating Electro galvanized, Material Steel  
Alternative no.: B191307

## Oil Seals

Pkg. 10



### 131448 Oil Seal

Replacing: 2000283013

Servicing: 0001410024, 0001410032, 0001410035, 0001410043, 0001410046, 0001410047, 0001410049, 0001410052

ID 33.00, OD 45.00, Height 7.00, Material Plastic, O-ring w/o

Pkg. 10



### 131449 Oil Seal

Manufacturer: Bosch

Replacing: 2000212000

Servicing: 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023

ID 31.90, OD 44.35, Height 2.65  
Spring: HC-CARGO 131450.

Pkg. 5



### 135372 Oil Seal

Replacing: 2000283012, 2000283015

Servicing: 0001510001, 0001510002, 0001510003, 0001510005, 0001510008

ID 35.00, OD 47.00, Height 7.00, Material Metal/Rubber, O-ring w/o

Pkg. 5



### 135575 Oil Seal

Replacing: 2916740049

Servicing: 0001362321, 0001362331, 0001363128, 0001363130, 0001367036, 0001367038, 0001367046, 0001367051

ID 19.00, OD 27.00, Height 6.00, Material Rubber, O-ring w/o

Pkg. 5



### 135579 Oil Seal

Replacing: 2000283016

Servicing: 0001359023, 0001359031, 0001359035, 0001359050, 0001359051, 0001359054, 0001359059, 0001359066

ID 19.00, OD 32.00, Height 7.00, Material Rubber, O-ring w/o

Pkg. 5



### 136665 Oil Seal

Servicing: 0001420..., 0001420001, 0001420003, 0001420004, 0001420009, 0001420010, 0001420011, 0001420012, 0001420013

ID 22.00, OD 35.00, Height 7.00, Material Rubber, O-ring w/o

Pkg. 10



### 136791 Oil Seal

Replacing: 1000221001

Servicing: 0001212206, 0001212207, 0001212208, 0001212209, 0001212210, 0001212211, 0001212212, 0001212213

ID 27.00, OD 40.00, Height 3.80, Material Rubber, O-ring w/o  
Spring: HC-CARGO 135397.

Pkg. 10



### 136857 Oil Seal

Replacing: 1000500078, 1000500084

Servicing: 0001121001, 0001121002, 0001121003, 0001121006, 0001121007, 0001121010, 0001121011, 0001124001

ID 30.00, OD 38.00, Height 2.60, Material Plastic, O-ring w/o

Pkg. 5



### 230448 Oil Seal

Manufacturer: Bosch

Replacing: 9001453583

Servicing: 0001370001, 0001370002, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009

ID 20.09, OD 32.00, Height 6.30, Material Metal/Rubber, O-ring w/o

Pkg. 500



### 230673 Oil Seal

ID 29.70, OD 39.00, Height 2.85, Material Rubber, O-ring w/o  
For free wheel pulley.





### 236644 Oil Seal

Manufacturer: Bosch

Replacing: 6033AC0285

Servicing: 0001230002, 0001230014, 0001231019, 0001231028, 0001231033, 0001231040, 6033AD3169, 6033AD4049

ID 54.10, OD 72.25, Height 4.10, Total height 5.15, Type Starter, Material Metal/Rubber, O-ring w/o

Pkg. 10



### 237766 Oil Seal

Replacing: 6033AC5028

Servicing: 0001241001, 0001241003, 0001241004, 0001241005, 0001241006, 0001241007, 0001241014, 0001241015

ID 30.00, OD 40.00, Height 7.00

Pkg. 10



### 239111 Oil Seal

Replacing: 6033AC0424

Servicing: 0001330001, 0001330003, 0001330004, 0001330005, 0001330006, 0001330007, 0001330008, 0001330011

ID 26.00, OD 42.00, Height 7.00, Total height 7.00, Type Various, Material Rubber, O-ring w/o

Pkg. 10



### 335737 Oil Seal

Replacing: 1000500094

Servicing: 0001121022

ID 29.00, OD 40.00, Height 2.50

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### 335738 Oil Seal

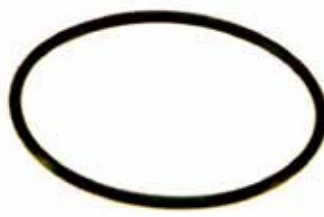
Replacing: 1000500091

Servicing: 0001121001

ID 28.00, OD 38.00, Height 2.50

## O-rings

Pkg. 10

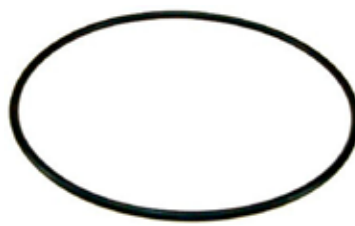


### 134612 O-ring

Servicing: 0001231004, 0001231012, 0001359111, 0001362039, 0001362092, 0001367010, 0001367039, 0001367070

ID 35.00, Thickness 2.00, Colour Black

Pkg. 10



### 134613 O-ring

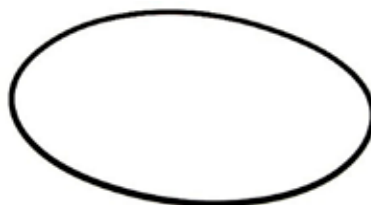
Manufacturer: Bosch

Replacing: 2000210079

Servicing: 0001358020, 0001358047, 0001358049, 0001358051, 0001358200, 0001358201, 0001358202, 0001359016

OD 104.50, Thickness 3.00, Colour Black

Pkg. 10



### 134965 O-ring

Replacing: 1480210075

Servicing: 0001330001, 0001330003, 0001330004, 0001330005, 0001330006, 0001330007, 0001330008, 0001330011

ID 100.00, Thickness 2.00, Colour Black



### 135357 O-ring

Replacing: 9491140203

Servicing: 0001218029, 0001218109, 0001218152, 0001218160, 0120300552, 0120300562, 0120300568, 0120300569

ID 28.00, Thickness 2.00, Colour Black  
Bearing sleeve: HC-CARGO 140524.

Pkg. 10



### 136340 O-ring

Replacing: 2000210028

Servicing: 0001358202, 0001359002, 0001359003, 0001359008, 0001359010, 0001359012, 0001359014, 0001359016

ID 105.00, Thickness 4.00, Colour Black

Pkg. 5

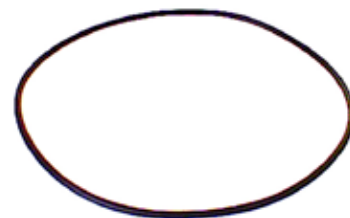


### 136690 O-ring

Servicing: 0001415007, 0001416004, 0001416012, 0001416074, 0001420001, 0001420010, 0001420011, 0001420012

ID 83.00, Thickness 3.00, Colour Black  
For FKB.

Pkg. 5

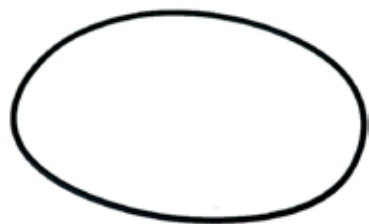


### 136691 O-ring

Servicing: 0001420..., 0001359021, 0001420001, 0001420010, 0001420011, 0001420012, 0001420015, 0001420024

ID 123.00, Thickness 3.00, Colour Black





Pkg. 10

### 230447 5★ O-ring

Manufacturer: Bosch

Replacing: 2000210095

Servicing: 0001370002, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371012

ID 105.00, Thickness 2.00, Colour Black

Pkg. 10



### 230634 5★ O-ring

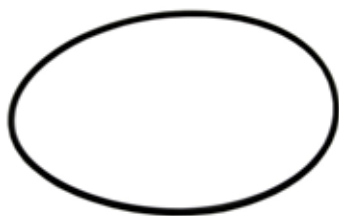
Manufacturer: Bosch

Replacing: 1900210142

Servicing: 0001370002, 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008

ID 40.00, Thickness 2.50, Colour Black

Pkg. 5



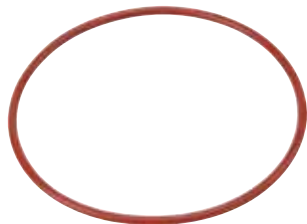
### 237603 O-ring

Replacing: 9003330205

Servicing: 0001230001, 0001230013, 0001230027, 0001231001, 0001231002, 0001231004, 0001231006, 0001231014

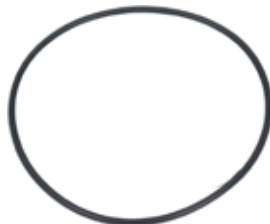
OD 90.00, Thickness 2.00

Pkg. 10



### 330643 O-ring

ID 67.50, OD 71.75, Thickness 2.15, Colour Red



Pkg. 10

### 335736 O-ring

Replacing: 2000210014

Servicing: 0001418016

ID 132.00, OD 135.00, Thickness 3.50, Colour Black, Material Rubber

#### Covers



Pkg. 10

### 138856 Cover

Replacing: 1000505010

Servicing: 0001204102, 0001207001, 0001207003, 0001207005, 0001207009, 0001207015, 0001207016, 0001207017

OD 32.00, Height 20.00

Bosch.

Pkg. 10



### 139011 Cover

Replacing: 1000520034, 1000520045, 1000520049, 1000520068, 1000520070, 1000520075, F000AL1074

Servicing: 00010DB98E, 0001105205, 0001106011, 0001106012, 0001106014, 0001106015, 0001106016

Height 19.50

Pkg. 5



### 234335 Cover

Servicing: 0001231009, 0001231014

ID 20.50, OD 25.00, Height 15.40



Pkg. 10

### 336214 Cover

Replacing: 1000520083

Servicing: 0001139071, 0001139072, 0001147400, 0001147401, 0001147402, 0001147403, 0001147405, 0001147406

ID 18.25, OD 28.25, Height 20.00

#### Rods



### 131443 Rod

Replacing: 2003050052, 2003050056, 2003050058, 2003050075, 2007010045

Servicing: 0001410015, 0001410016, 0001410017, 0001410019, 0001410021, 0001410022, 0001410024, 0001410035

OD 9.66, Length 325.00



### 132802 Rod

Replacing: 2003050076

Servicing: 0001410029, 0001410062, 0001413001, 0001413003, 0001413004, 0001413005, 0001413006, 0001413007

Length 290.00



### 132843 Rod

Replacing: 2003050040

Servicing: 0001416005, 0001416070, 0001417001, 0001417002, 0001417005, 0001417006, 0001417007, 0001417008

Length 310.00





**134441** Rod  
 Replacing: 2007010048  
 OD 10.00, Length 354.00  
 Nut: HC-CARGO 136169.

### Various



**131453** Washer  
 Replacing: 2000102620, 2000102621, 2000102622  
 Servicing: 0001410015, 0001410016,  
 0001410017, 0001410019  
 ID 22.00, OD 31.95, Thickness 0.20,  
 Material Steel, Bushing w/o



**131454** Clutch Housing  
 Manufacturer: Bosch  
 Replacing: 2005825077  
 Servicing: 0001410015, 0001410016,  
 0001410017, 0001410018, 0001410019,  
 0001410021, 0001410022, 0001410023  
 Dist. mount. holes 10.35, OD 39.80,  
 No./mount. holes 4



**131841** Key  
 Replacing: 1902300090  
 Servicing: 0001410015, 0001410016,  
 0001410017, 0001410018, 0001410019,  
 0001410021, 0001410022, 0001410023  
 Length 31.80, Thickness 4.00, Width 6.00



**132203** Washer  
 Replacing: 2000101600  
 Servicing: 0001367302, 0001401044,  
 0001401046, 0001401049, 0001401050,  
 0001401067, 0001401069, 0001401071  
 ID 14.20, OD 19.80, Thickness 0.50,  
 Material Steel, Bushing w/o



**132982** Plug  
 Replacing: 2916090013  
 Servicing: 0001372001, 0001372002,  
 0001372003, 0001372004, 0001372005,  
 0001372006, 0001372007, 0001372008  
 OD 26.00, Height 1.85  
 Bosch



**133603** Terminal Bolt  
 Replacing: 2001030031, 2003590003,  
 2003590004  
 Servicing: 0001410065, 0001410067,  
 0001411017, 0001411025, 0001411026,  
 0001411027, 0001416002, 0001416010  
 Total length 122.25, Thread length 34.10,  
 Thread size M12  
 Terminal 30.



**134769** Washer  
 ID 22.30, OD 27.20, Thickness 1.60,  
 Material Fiber, Bushing w/o



**134771** Gasket  
 Length 15.70, Thickness 8.55,  
 Width 13.65



**134772** Bushing  
 Replacing: 1000301029  
 Servicing: 0001107066, 0001107089,  
 0001107411, 0001107490, 0001107491,  
 0001108202, 0001108204, 0001108224  
 ID 8.60, OD 11.00, Length 10.95,  
 Material Steel, Pin w/o



**134958** Insulator  
 Servicing: 0001208506, 0001208510,  
 0001208513, 0001208514, 0001208515,  
 0001208516, 0001208517, 0001208518



**135050** Grommet  
 Servicing: 0001108143, 0001208506,  
 0001208513, 0001208514, 0001208515,  
 0001208516, 0001208517, 0001208518



**135052#** Grommet  
 Servicing: 0001106019, 0001107014,  
 0001108061, 0001108123, 0001108125,  
 0001108197, 0001109040, 0001110001  
 Dim. A 20.00, Dim. C 16.55





### 135055 Grommet

Servicing: 0001312108, 0001312109, 0001317007, 0001317008, 0001317009, 0001317010, 0001317011, 0001317012

Dim. A 23.65, Dim. B 19.35, Dim. D 6.22

Pkg. 10



### 135060 Felt

Servicing: 0001108202, 0001108240

ID 11.00, OD 19.00

Pkg. 10



### 135195 Lock Washer

Servicing: 0001139408, 0001147400, 0001147404

ID/housing 8.00, OD/housing 15.00,

Thickness 3.90, Material Steel

Alternative no.: 335896

Pkg. 1000



### 135259 Grommet

Servicing: 0001208172, 0001208202, 0001208203, 0001208205, 0001208211, 0001208214, 0001208223, 0001208224

Dim. A 10.20, Dim. C 25.50

Pkg. 10



### 135291 Brake Washer

Servicing: 0001107423, 0001107424, 0001107439, 0001107448, 0001107449, 0001107450, 0001107451, 0001107508

ID 12.50, OD 23.00, Thickness 1.90, Bushing w/o

Pkg. 10



### 135302 Insulator

ID 11.60, OD 17.50, Height 8.00,

Material Plastic, Collar w/o,

Gasket w/o, O-ring w/o

Pkg. 10



### 135522 Washer

ID 19.50, OD 33.00, Thickness 0.50,

Material Fiber, Bushing w/o

Pkg. 10



### 135523 Washer

ID 19.50, OD 33.00, Thickness 1.50,

Material Fiber, Bushing w/o

Pkg. 10



### 135576 Rubber Boot

Replacing: 1330503702, 1330503703

Servicing: 0001107049, 0001360022, 0001360023, 0001360036, 0001360037, 0001360049, 0001360052, 0001360065

ID 13.45, Thickness 27.40,

Material Rubber

Solenoid: HC-CARGO 131053, 131141.

Pkg. 5



### 135580 Gasket

Manufacturer: Bosch

Replacing: 2000290012

Servicing: 0001362321, 0001362331, 0001363128, 0001363130, 0001367036, 0001367038, 0001367046, 0001367051

Thickness 1.20, Material Rubber

Pkg. 5



### 135634 Brake Washer

Servicing: 0001114014, 0001114020, 0001114021, 0001211228, 0001211246

ID 15.50, OD 23.00, Thickness 2.10, Bushing w/o

Pkg. 10



### 135645 Screw

Replacing: 2003429055, 2003429057, 2003429060, 2910960285, 9001140194

Servicing: 0001157021, 0001218006, 0001218011, 0001218012, 0001218013, 0001218014, 0001218018, 0001218019

Thread M10, Total length 16.00,

Thread length 11.00, Shaft w/,

Washer w/

Pkg. 10



### 135846 Retaining Ring

Servicing: 0001106405, 0001106406, 0001107007, 0001107008, 0001107031, 0001107049, 0001107401, 0001107402

Stop collar: HC-CARGO 137742.

Pkg. 10



### 135847 Retaining Ring

Servicing: 0001105205, 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106018

Thickness 2.00, Material Steel

Stop collar: HC-CARGO 137742.

Pkg. 10



Pkg. 10



### 135876 Screw

Replacing: 2003429058, 2003429059, 2910961287, 9001140371

Servicing: 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009

Thread M10, Total length 17.90, Thread length 14.00, Slot type Torx, Countersink No, Shaft w/, Washer w/o

Pkg. 10



### 136169 Nut

Replacing: 2003315002, 2003315004, 2003315040

Servicing: 0001410015, 0001410016, 0001410024, 0001410029, 0001410037, 0001410041, 0001410046, 0001410053

Thread M10, OD 17.00, Height 13.45, Material Steel, Lock nut w/, Washer w/o

Pkg. 5



### 136278# Gasket

Servicing: JF, JD SERIES

Length 315.00, Thickness 0.45, Width 38.00

Pkg. 25



### 136307# Washer

Servicing: 0001416079

ID 4.15, OD 13.00, Thickness 1.45, Material Fiber, Bushing w/o

Pkg. 10



### 136308 Washer

Servicing: 0001107015, 0001107044, 0001108048, 0001108121, 0001108126, 0001108136, 0001108153, 0001108159

ID 10.00, OD 24.20, Thickness 2.00, Material Fiber, Bushing w/o

Pkg. 5



### 136437 5★ Pivot Pin

Manufacturer: Bosch

Replacing: 1003450003

Servicing: 0001157006, 0001157015, 0001157023, 0001157025, 0001157026, 0001157028, 0001157029, 0001204102

Total length 36.25, Length/rear collar 32.00, Shaft w/, Thread length 8.60, Thread size M6

Pkg. 1000



### 136653 Gasket

ID 10.20, OD 15.45, Thickness 1.00 For M10 bolt.

Pkg. 10



### 136697 Washer

Replacing: 2000112007

Servicing: 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008

ID 21.50, OD 50.20, Thickness 5.00, Material Plastic, Bushing w/o

Pkg. 10



### 136765 Terminal Lead

ID 8.45, Length 26.25, Lead length 49.00, Width 14.60



### 137029 Terminal Bolt

Replacing: 2004449088

Servicing: 0001107100, 0001107101, 0001107108, 0001417065, 0001417069, 0001417076, B001411400

Total length 91.75, Thread length 34.40, Thread size M12 Terminal 31.

Pkg. 5



### 137744 Retaining Ring

Replacing: 6033AC0231

Servicing: 0001223504, 0001230002, 0001230006, 0001230009, 0001230012, 0001230014, 0001231002, 0001231003

Thickness 2.30, Material Steel Stop collar: HC-CARGO 137746.

Pkg. 100



### 138328 5★ Screw

Manufacturer: Bosch

Replacing: 2003429021, 2003429051

Servicing: 0001211206, 0001223001, 0001223004, 0001223022, 0001223104, 0001230027, 0001231005, 0001359008

Thread M5, Total length 34.90, Thread length 10.55, Shaft w/, Washer w/o





Pkg. 10

### 138329 Screw

**Manufacturer:** Bosch

**Replacing:** 2003429022, 2003429053, 2003429073

**Servicing:** 0001107041, 0001223503, 0001223504, 0001223505, 0001230013, 0001230015, 0001230016

**Thread** M5, **Total length** 45.00,  
**Thread length** 9.60, **Shaft** w/, **Washer** w/o



### 138430 Terminal Lead

**Servicing:** 0001368082, 2004114065

**Lead length** 70.00

**Field coil:** HC-CARGO 131074, 131134.

Pkg. 10



### 138835 Screw

**Replacing:** 2005429055

**Servicing:** 0001208206, 0001218008, 0001218145, 0001359012, 0001359014, 0001359016, 0001359027, 0001359046

**Thread** M10, **Total length** 17.95,  
**Thread length** 13.00, **Shaft** w/, **Washer** w/o

Pkg. 25



### 139115 Screw

**Manufacturer:** Bosch

**Replacing:** 1003421008, 1003421010, 1003421011, 1003421013, 1003421014, 1003421015, 1003421016, 1003421020

**Servicing:** 00010DB98E, 0001105205, 0001106011, 0001106012, 0001106014

**Thread** M5, **Total length** 33.25,  
**Thread length** 10.70, **Shaft** w/, **Washer** w/o  
*Fixing screw for solenoid.*



Pkg. 10

### 139157 Fiber Washer

**Replacing:** 2000113000

**Servicing:** 0001354077, 0001354082, 0001354089, 0001354091, 0001354100, 0001358040, 0001358047, 0001358048

**ID** 20.15, **OD** 36.25, **Thickness** 2.00,  
**Material** Fiber, **Bushing** w/o

Pkg. 10



### 139339 Cup Washer

**Replacing:** 2000500084

**Servicing:** 0001203008, 0001203010, 0001204002, 0001204005, 0001208516, 0001208707, 0001308001, 0001308006

**ID** 6.50, **OD** 15.00, **OD/collar** 15.00,  
**Height/collar** 1.25, **Thickness** 0.90,  
**Coating** Zinc plated, **Material** Metal

Pkg. 10



### 139340 Gasket

**Manufacturer:** Bosch

**Replacing:** 2000109007, 2000109008

**Servicing:** 0001401044, 0001401046, 0001401049, 0001401050, 0001401067, 0001401069, 0001401071, 0001401073

**ID** 6.60, **OD** 12.20, **Thickness** 2.55,  
**Material** Plastic

Pkg. 10



### 139343 Terminal Lead

**ID** 8.00, **Length** 20.00,  
**Lead length** 28.00, **Width** 10.00



### 139360 Terminal Bolt

**Replacing:** 2001030032

**Servicing:** 0001410024, 0001410088, 0001411009, 0001416002, 0001416012, 0001416043, 0001416074, 0001416078

**Total length** 122.60, **Thread length** 34.60,  
**Thread size** M12  
**Terminal** 30.

Pkg. 10



### 139810 Brake Washer

**Manufacturer:** Bosch

**Replacing:** 2000112008

**Servicing:** 0001370001, 0001370002, 0001370003, 0001370004, 0001371001, 0001371004, 0001371005, 0001371006

**ID** 21.30, **OD** 49.30, **Thickness** 3.20,  
**Bushing** w/o

Pkg. 10



### 139813 Steel Ball

**Replacing:** 1903230007

**Servicing:** 0001212001, 0001212003, 0001212005, 0001212006, 0001212007, 0001212008, 0001212011, 0001212012

**OD** 4.00, **Material** Steel



### 139962 Terminal Bolt

**Replacing:** 2001030033, 2001030034

**Servicing:** 0001410037, 0001413017, 0001414003, 0001414010, 0001414011, 0001415002, 0001415007, 0001415016

**Total length** 125.90, **Thread length** 33.45,  
**Thread size** M10  
**Terminal** 30.



Pkg. 100



### 190510 Hex Screw

Replacing: 2003450040, 2911061301

Servicing: 0001410015, 0001410016, 0001410017, 0001410018, 0001410026, 0001410029, 0001410032, 0001410033

Thread M10x50, Spanner size 17.00, L length 50.00, Coating Electro galvanized, Material Steel, DIN norm 931, ISO norm 4014

Pkg. 200



### 192752 Bolt

Replacing: 2911051281

Servicing: 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009

Thread M10, Spanner size 17.00, L length 12.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017



### 230089 Solenoid Parts Kit

Manufacturer: Bosch

Replacing: 2337010006

Servicing: 0001362002, 0001362003, 0001362004, 0001362016, 0001362027, 0001362028, 0001362029, 0001362030

Pkg. 10



### 230373 Rubber Drain

Manufacturer: Bosch

Replacing: 1000306002

Servicing: 0001108188, 0001112018, 0001223013, 0001223501, 0001230003, 0001230004, 0001230005, 0001230006

OD 5.20, Length 30.00

Pkg. 5



### 230632 Brake Washer

Manufacturer: Bosch

Replacing: 2000112027

Servicing: 0001370001, 0001370002, 0001370003, 0001370004, 0001371001, 0001371004, 0001371005, 0001371006

ID 22.70, OD 37.80, Thickness 3.30, Material Fiber, Bushing w/o



### 230633 Terminal B+ Strap

Replacing: 1001090036

Servicing: 0001125501, 0001125502, 0001125511, 0001125512, B001126081

ID/mount. hole M8, Length 101.00 Terminal 30.



### 230845 Washer Kit

Replacing: 2007010132

Servicing: 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009

Pkg. 2



### 231021# Threaded Pin

Replacing: 2003527040

Servicing: 0001410015, 0001410016, 0001410017, 0001410019, 0001410021, 0001410022, 0001410024, 0001410029

Total length 69.50, Thread length 14.45, Thread size M8

Pkg. 10



### 231056 Terminal Lead

Replacing: 2004438002

Servicing: 0001410019, 0001410022, 0001410024, 0001410037, 0001410049, 0001410050, 0001410068, 0001410069

Total length 116.00

Pkg. 5



### 231135 Retainer

Servicing: 0001330008, 0001359019, 0001359038, 0001359083, 0001359107, 0001359108, 0001359111, 0001360010

ID/housing 10.70, OD/housing 27.00

Pkg. 10



### 231176 Screw

Replacing: 2914501038

Servicing: 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009

Thread M5, Total length 15.70, Thread length 11.50, Shaft w/, Washer w/

Pkg. 10



### 231596 Solenoid Screw

Manufacturer: Bosch

Replacing: 2003429072, 6033AC4017, 9001333448

Servicing: 0001107540, 0001109064, 0001109065, 0001109315, 0001121412, 0001121413, 0001123036, 0001123037

Thread M5, Total length 35.60, Thread length 9.80, Slot type Torx, Countersink Yes, Shaft w/, Washer w/o





Pkg. 10

### 231646 Bolt

Manufacturer: Bosch

Replacing: 2914551013

Servicing: 0001371004, 0001371006, 0001410015, 0001410016, 0001410017, 0001410019, 0001410022, 0001410024

Total length 16.00, Length/rear collar 13.85, Thread length 13.85, Thread size M5, Shaft w/



Pkg. 10

### 231647 Rubber Drain

Replacing: 6033AC0250, 6033AC1436, 6033AC1622

Servicing: 0001218110, 0001218135, 0001218136, 0001218137, 0001218602, 0001218620, 0001218703, 0001218710  
OD 5.65, Length 31.10



Pkg. 10

### 232978 Washer

Replacing: 9003330116

Servicing: 0001230006, 0001230012, 0001230014, 0001231002, 0001231008, 0001231011, 0001231013, 0001231017

ID 8.00, OD 17.00, Thickness 0.30, Material Metal, Bushing w/o



Pkg. 10

### 233631 Screw

Manufacturer: Bosch

Replacing: 9001333435, 9001333449

Servicing: 0001218137, 0001218139, 0001218143, 0001218144, 0001218168, 0001218170

Thread M5, Total length 40.00, Thread length 9.60, Slot type Phillips, Pozidriv, Countersink Yes, Shaft w/, Washer w/o



### 233928 Terminal Bolt

Replacing: 2004449000

Servicing: 0001410019, 0001410022, 0001410023, 0001410024, 0001410025, 0001410036, 0001410037, 0001410038

Total length 91.50, Thread length 34.75, Thread size M10  
Terminal 31.

Pkg. 10



### 234078 Washer

Manufacturer: Bosch

Replacing: 2000101034

Servicing: 0001359111, 0001362039, 0001364102, 0001364200, 0001364203, 0001364301, 0001367077, 0001368016  
ID 14.00, OD 40.00, Thickness 0.50, Material Steel, Bushing w/o



Pkg. 5

### 234787# Cover

Manufacturer: Bosch

Replacing: 2000516014

Servicing: 0001371010, 0001371013, 0001371015, 0001371016, 0001371018, 0001372002, 0001372003, 0001372007

ID 37.60, Height 62.05



### 235461 Spacer

Servicing: 0001107076, 0001108166, 0001108167

ID 9.96, OD 5.37, Height 7.49



Pkg. 10

### 235761 Gasket

Servicing: 0001106015, 0001107098, 0001107401, 0001107402, 0001107404, 0001107405, 0001107409, 0001107429

ID 46.12, OD 54.00, Thickness 6.15, Mount. holes 0, Type Starter, Material Rubber



Pkg. 10

### 236456 Grommet

Servicing: 0001112017

ID/mount. hole 3.50, Length 31.65, Thickness 6.55, Width 20.10, Mount. holes 1, Type Starter, Material Rubber



### 237750 Cover for solenoid

Manufacturer: Bosch

Replacing: 6033AC5015, 6033AC5322, 6033AD5334

Servicing: 0001241001, 0001241003, 0001241007, 0001241014, 0001241019, 0001241119, 0001261001, 0001261002

OD 111.25, Height 63.20



### 237770 Nut

Manufacturer: Bosch

Replacing: 6033AC5186

Servicing: 0001231040, 0001231502, 0001241001, 0001241003, 0001241006, 0001241007, 0001241014, 0001241015

Thread M10, OD 16.00, Height 25.00, Material Shockproof plastic, Lock nut w/o, Washer w/o  
Torx.





Pkg. 5

**238958**

Bolt

Servicing: 0001372001, 0001372006,  
001372006, B001960018

Length/rear collar 40.70,  
Thread length 29.50, Thread size M5,  
Thread size/rear M10, Shaft w/



Pkg. 5

**330515**

Gasket

Replacing: 1001006002, XXX1069245

Servicing: 0001105205, 0001109205,  
0001109304, 0001109305, 0001109324,  
0001109325

Length 70.00, Thickness 5.18,  
Width 74.00, Type Starter,  
Material Rubber



Pkg. 10

**330686**

Washer

ID 11.04, OD 48.59, OD/collar 28.18,  
Height/collar 9.16, Thickness 3.20,  
Material Metal/Rubber



Pkg. 100

**333480**

Protection Cap

Replacing: 2000558009

ID 25.00, ID 2 12.00, Length 52.50,  
Thickness 28.00, Width 27.00,  
Material Rubber



Pkg. 100

**333481**

Protection Cap

Replacing: 1339999020

Servicing: 0120600502, 0136500026,  
0136500028, 0136501066, 0136501067  
ID 17.00, ID 2 12.00, Length 57.30,  
Thickness 25.00, Width 25.00,  
Material Rubber



Pkg. 5

**333580**

5★ Protection Cap

Manufacturer: Bosch

Replacing: 3130558000

Servicing: 0101206151, 0101209031,  
0101209041, 0101302029, 0101356006,  
0120300535, 0120300552, 0120300562

ID 12.50, ID 2 5.70, OD 19.50,  
OD 2 11.12, Length 42.32,  
Thickness 23.00, Width 19.15,  
Mount. holes 2, Material Rubber



Pkg. 5

**333598**

5★ Protection Cap

Manufacturer: Bosch

Replacing: 2120558000

Servicing: 0120600502, 0120600591,  
0120689529, 0120689536, 0120689547,  
0120689554, 0120689556, 0120689560

ID 23.14, ID 2 11.78, OD 28.41,  
OD 2 18.40, Length 57.00, Thickness 25.90,  
Width 28.00, Mount. holes 2, Material Rubber



Pkg. 100

**333717**

5★ Protection Cap

Replacing: 2000558001

Servicing: 0136501019, 0136501025, 0136501038,  
0136501041, 0136503002, 0136503004, 0136602001  
ID 28.00, ID/cone 12.00, OD 17.00,  
Length 50.00, Height 25.00, Width 30.00,  
Colour Black, Material Rubber



Pkg. 10

**335202**

5★ Retaining Ring

Replacing: 1004601016

Servicing: 0001121440, 0001123044,  
0001125031, 0001125032, 0001125511,  
0001125613, 0001125614, 0001125619

ID/housing 7.90, Thickness 1.60,  
Position External



Pkg. 10

**335284**

5★ Gasket

Manufacturer: Bosch

Replacing: 1001006002

Length 66.50, Thickness 4.00,  
Width 77.00

Alternative no.: 330515



Pkg. 5

**335590**

Nut

Replacing: 1000520001

Servicing: 0001138057, 0001138058,  
0001138059, 0001138060, 0001138061,  
0001138062, 0001139065, 0001139066

OD 23.00, Height 17.80


**336343**

Gasket

Replacing: 1001006003

Servicing: 0001115088

Length 66.00, Thickness 3.60,  
Width 77.00



## Armatures

12 V



### 234204 Armature

Replacng: 497603, 692034

Servicing: 282700, 497594, 497595, 497596, 693054, 693551, 695479

12 Volt, Shaft dia. 12.55, Shaft length 167.00, Height/bar lane 13.70, Core thickness 55.00, No./bars 16

## Drives



### 137278 Drive Kit

Replacng: 391461

Servicing: 390838, 391178, 392749, 393499, 394807, 394943

OD 41.00, No./teeth 16

Gear: HC-CARGO 139395.



### 139417 Drive Kit

Replacng: 393254, 490467, 495877, 696539

Servicing: 498148, 399169, 494148, 494198, 495100, 394808, 396306, 490420, 494990

ID 16.20, OD 40.00, Total length 11.55, No./teeth 16

Gear: HC-CARGO 139395.



### 139418 Drive Kit

Replacng: 3886, 396865, 490421, 490771, 495878, 696540

Servicing: 399169, 494198, 394805, 394808, 396306, 399928, 490420, 494148, 494990, 495100, 498148

OD 41.00, No./teeth 16

Gear: HC-CARGO 139395.



### 230399 Drive Kit

Replacng: 491836

Servicing: 490753, 495104

OD 40.00, Total length 19.50,

No./teeth 16



### 230400 Drive Kit

Replacng: 497606

Servicing: 497401, 497594, 497595, 497596, 499521, 693054

OD 41.00, Total length 11.50,

No./teeth 16

w/ snap ring.

## Drive Parts

### Pinion



### 139395 Pinion

Replacng: 280104, 4114, 693059

Servicing: 390838, 399928, 491334, 495102, 497596, 498148, 394805

ID 20.50, OD 41.00, Height 11.50,

No./splines 2, No./teeth 16, Bushing w/o

Alternative no.: 335924



### 235627 Pinion

Replacng: 693713

Servicing: 693551, 693552, 695479

ID 16.35, OD 40.80, Height 13.60,

No./splines 2, Rotation CCW

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### 335924 Pinion

Replacng: 280104, 4114, 693059

ID 20.50, OD 41.00, Height 11.50,

No./splines 2, No./teeth 16, Bushing w/o

Alternative no.: 139395

## Clutches



### 234211 Clutch

Replacng: 391135, 398003, 692024

Servicing: 393499, 394943, 399169, 399928,

491308, 494148, 494198, 495100, 497401,

497453, 497594, 497595

OD 50.25, Shaft OD/front 19.20,

Total length 35.60

## Brush Gears



### 230397 Brush Gear

Replacng: 497605, 691293

Servicing: 390838, 394805, 497401, 497594,

497595, 497596, 499521, 693054, 693551,

693552, 694504, 695479

12 Volt, ID 29.00, OD 71.60, Height 15.55



### 234209 Brush Gear

Replacng: 395537

Servicing: 393499, 394805, 394807, 394808,

394943, 396306, 491308, 491766, 497453,

498149, 690658

12 Volt, OD 79.20, Height 25.15



## Brush Sets



### 141049 Brush Set

Replacing: 497608

Servicing: 497401, 497594, 497595, 497596, 499521, 693054, 693551, 693552, 694504, 695479

12 Volt, Length 15.60, Lead length 43.00, Lead length 2 74.00, Height 9.50, Thickness 7.10



### 141053 Brush Set

Replacing: 391791

Servicing: 390838, 391178, 392749, 393017, 394674

12 Volt, Length 14.90, Lead length 43.50, Height 9.40, Thickness 6.20

## Bushings



### 141077 Bushing

ID 12.55, OD 19.04, OD/collar 24.00, Length 13.45, Height/collar 3.00, Material Steel, Pin w/o

## Repair Kits



### 139394 Repair Kit

Replacing: 395538

Servicing: 393499, 394805, 394807, 394808, 394943, 396306, 491308, 497453, 498149, 690658

12 Volt, Length 15.00, Lead length 45.50, Height 9.40, Thickness 6.20

Bushing: O.D. 18.23 mm, I.D. 9.54 mm, L. 12.74 mm. Bushing: O.D. 14.35 mm, I.D. 9.54 mm, L. 9.51 mm.



## Armatures

24 V



### 134108 5★ Armature

Manufacturer: Prestolite

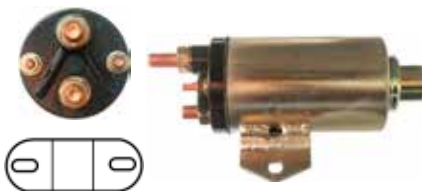
Replacing: 850261, 850262, 851330, 852506, 852529

Servicing: 850277, 850604, 850606, 850811, 850894, 851002, 851004A, 851339, 851515, 852563, 852651, 854139

24 Volt, 7.0 kW, Shaft dia. 21.90, Shaft length 450.00, Height/bar 8.15, Height/bar lane 49.30, Core thickness 83.00, No./bars 27, No./splines 19

## Solenoids

24 V



### 132140 Solenoid

Replacing: 850686, 855248, 855528, 856025, 856121

Servicing: 850277, 850461, 850534, 850598, 850604, 850606, 850615, 850628, 850811, 850894, 851002, 851004A

24 Volt, B+ M14-1.50, OD 76.00, OD/cover 76.35, Total length 216.50, Height/B+ 33.00, Terminal 15A/width 18.30, Terminal 50 M6, Coil bolt M14-1.50, Coil bolt 2 24.60, No./mount. holes 2, No./terminals 4, Bracket type Bracket Insulated return. Cap: HC-CARGO 132141. Moving contact: HC-CARGO 132142.

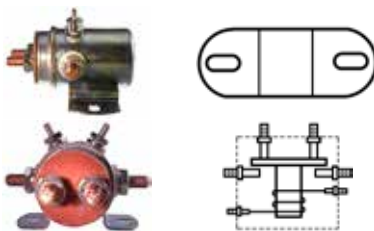


### 136400 Solenoid

Replacing: 856407

Servicing: GR2, GR45, GR45/10, GR45/17, GR45/18, GR45/19, GR45/2, GR45/3, GR45/9, 856766, 857673, 858617

24 Volt, B+ M12, OD 56.80, OD/cover 56.90, Total length 188.90, Height/B+ 26.00, Terminal 15A/width 14.60, Coil bolt M8, Terminal 50 9.40, Coil bolt 2 9.40, No./mount. holes 2, No./terminals 4 Insulated return.



### 137766 5★ Solenoid

Manufacturer: Prestolite

Replacing: 860867

24 Volt, 100 Amp, Intermittent load 600 Amp., B+ 5/16" UNF, OD 41.00, Total length 89.40, Height/B+ 18.35, Terminal 15A/width 12.00, Terminal 50 3/16" UNF, Coil bolt 5/16" UNF, Coil bolt 2 17.65, Seconds 5, No./mount. holes 2



### 138984 Solenoid

Replacing: 859420

Servicing: LNS4524, LNS4524/11, LNS4524/12, LNS4524/13, LNS4524/14, LNS4524/15, LNS4524/16, LNS4524/17

24 Volt, B+ M10, OD 56.75, OD/cover 56.90, Total length 180.55, Height/B+ 27.75, Terminal 15A/width 14.60, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 11.25, No./mount. holes 2, No./terminals 4 Insulated return.

## Solenoid Parts

### Moving Contacts



Pkg. 5

### 132142 Contact Plate

Replacing: 850689

Servicing: 850277, 850461, 850534, 850598, 850604, 850606, 850615, 850628, 850811, 850894, 851002, 851004A

ID 10.10, Thickness 3.00, Width 50.15, Material Copper, Shaft w/o 12/24 V.

## Various



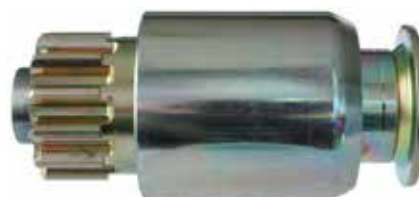
### 136412 5★ Rubber Boot

Manufacturer: Prestolite

Replacing: 850733

Servicing: MS1, MS1/100, MS1/101, MS1/102, MS1/103, MS1/104, MS1/105, MS1/106, MS1/107, MS1/108, MS1/109 OD 52.35, Length 43.35

## Drives



### 131056 Drive

Replacing: 852762

Servicing: 40MT, 42MT, 50MT, ID 15.90, OD 46.20, OD/housing 57.65, Total length 120.40, Shaft length 15.90, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o



### 131766 Drive

Replacing: 850363, 850758, 852758, 852957

Servicing: 40MT, 850277, 850461, 850534, 850598, 850604, 850606, 850615, 850811, 850894, 851002, 851004A, 851339

ID 19.00, OD 46.30, OD/housing 58.00, Total length 120.40, Shaft length 19.00, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o



### 131767 Drive

Replacing: 850674, 850764, 852759, 852958

Servicing: 40MT, 50MT, MS3/30, MS3/7, MS3A ID 15.90, OD 38.80, OD/housing 58.00, Total length 120.40, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o





### 131768 Drive

**Replacing:** 850629, 850760, 852760, 852959  
**Servicing:** 40MT, 850628, 851124, MS1-327A, MS1/100, MS1/101, MS1/102, MS1/103, MS1/107, MS1/108, MS1/111, MS1/113  
**ID** 19.00, **OD** 56.50, **OD/housing** 58.00, **Total length** 120.40, **Shaft length** 19.00, **No./teeth** 11, **Rotation** CW, **Key spline** w/o, **Lock** w/o

### Brush Sets



### 140549 Brush Set

**Replacing:** 856412, 856416  
**Servicing:** GR45/10, GR45/13, GR45/14, GR45/15, GR45/16, GR45/17, GR45/18, GR45/19, GR45/2, GR45/3, GR45/5  
**24 Volt**, **Length** 20.00, **Lead length** 40.00, **Lead length 2** 49.50, **Height** 25.00, **Thickness** 8.00



### BUTSX44 Brush Set

**Replacing:** 850749  
**Servicing:** MS3, 850277, 850461, 850534, 850598, 850604, 850606, 850615, 850628, 850811, 850894, 851002, 851004A  
**24 Volt**, **Length** 21.00, **Lead length** 62.00, **Height** 20.40, **Thickness** 9.50

### Bushings



### 140402 Bushing

**Replacing:** 850139, 855174  
**Servicing:** 850277, 850461, 850534, 850598, 850604, 850606, 850615, 850628, 850811, 850894, 851002, 851004A  
**ID** 22.22, **OD** 28.60, **Length** 31.75, **Type** Standard, **Material** Copper, **Pin** w/o

Pkg. 10



### 140403 Bushing

**Replacing:** 850141  
**Servicing:** 850277, 850461, 850534, 850598, 850604, 850606, 850615, 850628, 850811, 850894, 851002, 851004A  
**ID** 19.05, **OD** 25.40, **Length** 19.50, **Type** Standard, **Material** Copper, **Pin** w/o

Pkg. 5



### 140521 Bushing

**Replacing:** 856476  
**Servicing:** GR45/10, GR45/13, GR45/14, GR45/15, GR45/16, GR45/17, GR45/18, GR45/19, GR45/2, GR45/3, GR45/5  
**ID** 14.03, **OD** 17.50, **Length** 19.00, **Material** Copper, **Pin** w/o

### Sundry Parts

#### Screws



### 191586 Machine Screw

**Replacing:** 858649  
**Servicing:** GR45/10, GR45/13, GR45/14, GR45/15, GR45/16, GR45/17, GR45/18, GR45/19, GR45/2, GR45/3, GR45/5  
**Thread** M4, **Length** 6.00, **Head type** Pan head, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 7985, **ISO norm** 7045

Pkg. 200

#### Oil Seals



### 139895 Oil Seal

**Replacing:** 850137  
**Servicing:** MS1, MS1-327A, MS1/100, MS1/101, MS1/102, MS1/103, MS1/104, MS1/105, MS1/106, MS1/107, MS1/108  
**ID** 22.20, **OD** 28.60, **Height** 3.80, **Material** Metal/Rubber, **O-ring** w/o

Pkg. 5

#### Various

Pkg. 10



### 136415 Thrust Washer

**Manufacturer:** Prestolite  
**Replacing:** 850148  
**Servicing:** MS1, MS1-327A, MS1/100, MS1/101, MS1/102, MS1/103, MS1/104, MS1/105, MS1/106, MS1/107, MS1/108  
**ID** 22.00, **OD** 38.20, **Thickness** 1.60, **Material** Fiber, **Bushing** w/o

Pkg. 10



### 139896 Wick

**Replacing:** 850154  
**Servicing:** MS1, MS1-327A, MS1/100, MS1/101, MS1/102, MS1/103, MS1/104, MS1/105, MS1/106, MS1/107, MS1/108



## Armatures

### 12 V



#### 130136 Armature

Replacing: 6211-26, 6211-26B, 6211-270, A889

Servicing: 1320027, 1320035, 1320045, 1320092, 1320161, 1320183, 1320502, 1320513, 1320571, 1320601, 1320810

12 Volt, 3.6 kW, Shaft length 355.00, Height/bar 6.80, Height/bar lane 26.30, Core thickness 74.40, No./bars 17, No./splines 3, Rotation CW 4 holes.

### 24 V



#### 130137 Armature

Replacing: 6211-144, 6211-144B, 6211-225, 6211-225A, 6211-225B, A948

Servicing: 1321021, 1321032, 1321041, 1321182, 1321471, 1321491, 1321580, 1321600, 1321700, 1321780, 1321F022

24 Volt, 5.2 kW, Shaft length 355.00, Height/bar 6.00, Height/bar lane 28.00, Core thickness 74.40, No./bars 23, No./splines 3, Rotation CW 6 holes.

## Field Coils

### 12 V



#### 133018 Field Coil

Replacing: 6211-289A, F564C

Servicing: 1320027, 1320035, 1320045, 1320092, 1320161, 1320183, 1320502, 1320513, 1320571, 1320601, 1320702

12 Volt, 3.6 kW, Lead length 42.40, Height 134.40, Internal height 94.85, Inner width 29.60, Brush gear w/o

## Solenoids

### 24 V



#### 130332 Solenoid

Manufacturer: Lucas

Replacing: 1828020, 1828040, 1828A040, 267-2, 267-4

Servicing: 1333480, 1333520, 1333860, 1364101, BS524P-216

24 Volt, OD 60.50, Total length 83.00, No./mount. holes 2



#### 230436 Solenoid

Manufacturer: Prestolite

Replacing: 6510-60

Servicing: S115HD24-2, 1327470, 1327480, 1327591, 1327620, 1327621, 1327A470, 1403010, S11524-20X, S11524-23

24 Volt, OD 98.30, Total length 70.60

## Solenoid Parts

### Moving Contacts



#### 130851 Contact Kit

Replacing: 6010-148, 6010-240, 6211-32, 6211-33

Servicing: 1320027, 1320028, 1320045, 1320075, 1320092, 1320142, 1320161, 1320183, 1320502, 1320513, 1320531

12/24 V.

### Fixed Contacts



#### 231467 Contact Plate

Replacing: 6510-68

Servicing: S114HD24-2

ID 39.85, OD 98.50, Thickness 3.55, Material Steel

## Drives



#### 130417 Drive

Replacing: 5549-306BJ

Servicing: 1332521, 1333590, 1333860, BS524P-159, BS524P-186, BS524P-52

ID 14.70, OD 34.70, OD/housing 35.00, Total length 120.00, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



#### 130722 Drive

Replacing: 5549-306CH

Servicing: 1343391, 1343491, 1343502, 1343503, 1343508, 1343511, 1343514, 1343530, 1343550, 1343731, 1343754

ID 14.70, OD 39.00, Total length 120.00, Splines A 3, No./teeth 10, Drive type Steel, Key spline w/o, Lock w/o



#### 130940 Drive

Replacing: 6211-375

Servicing: 1320F027, 1320F035, 1320F183, 1320F513, 1320F515, 1320F810, 1320F921, CA45F12-109, CA45F12-18

ID 15.50, OD 39.50, Total length 138.80, Shaft length 120.20, No./teeth 10, Key spline w/o, Lock w/o 8 holes.



#### 131745 Drive

Replacing: 5549-306BS

Servicing: 1331451, 1332814, 1333272, 1333580, 1333830, 1343351, 1364080, BS512P-145, BS524P-127S, BS524P-158

ID 14.60, OD 40.00, Total length 120.00, Shaft length 98.00, Splines A 3, No./teeth 11, Key spline w/o, Lock w/o





**131747** Drive  
 Replacing: 5549-306W  
 Servicing: 1331441, 1331520, 1331670, 1333441, 1333520, 1333670, BS512P-144, BS512P-152, BS512P-167  
 ID 14.60, OD 46.00, Total length 120.00, Shaft length 98.20, Splines A 3, No./teeth 13, Key spline w/o, Lock w/o



**131749** Drive  
 Replacing: 6211-66  
 Servicing: 1320027, 1320035, 1320092, 1320183, 1320513, 1320810, CA45D12-15, CA45D12-18, CA45D12-2, CA45D12-3  
 OD 39.40, Total length 138.80, Shaft length 120.20, No./teeth 10, Key spline w/o



**131752** Drive  
 Replacing: 6211-375B  
 Servicing: 1321F022, 1321F032, 1321F183, 1321F652, 1321F910, 1321F913, CA45F24-106, CA45F24-108, CA45F24-18  
 ID 15.50, OD 39.60, Total length 139.00, Splines A 3, No./teeth 10, Key spline w/o, Lock w/o 10 holes.



**135883** Drive  
 Replacing: 6211-700B  
 Servicing: 1321G022, 1321G032, 1321G913, 1321G916, 1327010, 1327040, 1327050, 1327420, 1327450, 1327470  
 ID 15.50, OD 39.45, Total length 139.00, Splines A 3, No./teeth 10, Key spline w/o, Lock w/o 12 holes.



**136158** Drive  
 Replacing: 6211-375Z  
 ID 15.50, OD 39.35, Total length 139.00, Splines A 3, No./teeth 11, Key spline w/o, Lock w/o 10 holes.



**138358** Drive  
 Replacing: 6211-700V, 6211-700W  
 Servicing: 1321G702, 1327620, CA45G24-72, S11524-23, S115A12-10, S115A12-12, S115A24-12, 1327020, 1327030  
 ID 15.50, OD 39.70, Total length 139.00, Splines A 3, No./teeth 10, Key spline w/o, Lock w/o

## Drive Parts

### Springs



**139721** ★ Spring  
 Replacing: 6211-227A  
 Servicing: CA45D12-72, CA45D12-83, CA45D12-93, CA45D24-79, CA45D24-84, CA45F12-Y72, CA45F12-Y83, CA45F12-Y93  
 ID 21.35, OD 25.00, Length 69.00, Material Steel



**230326** ★ Spring  
 Replacing: 6211-70, 6211-70A  
 Servicing: CA45D12-14, CA45D12-15, CA45D12-29M, CA45D12-35M, CA45D12-53, CA45D12-66M, CA45D12-7, CA45D24-29M  
 ID 20.90, OD 24.70, Length 52.50, Material Steel

## Clutches



**130328** Clutch  
 Replacing: 5586-123

## Clutch Parts

### Various



**138391** Clutch Plate Set  
 Replacing: 5549-95  
 Servicing: 1330011, 1330032, 1330661, 1330861, 1331041, 1331172, 1331181, 1331371, 1331441, 1331451, 1331520  
 ID 32.00, OD 67.90/75.70, Thickness 22.30

## Brush Gears

### Brush Gear Parts

### Brush Springs



**139726** ★ Brush Spring  
 Replacing: 5933-336  
 Servicing: CA45012-Y95M, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16, CA45D12-18, CA45D12-1M, CA45D12-2  
 OD 10.90, Length 10.10, Material Steel

## Brush Sets



**141005** Brush Set  
 Replacing: 6068-43, 6211-548A  
 Servicing: 1320G927, 1327010, 1327020, 1327030, 1327040, 1327050, CA45G12-117, S11512-1, S11512-3M, S11512-4M  
 12 Volt, Length 20.00, Lead length 49.00, Height 20.00, Thickness 9.00





### 141060 Brush Set

Replacing: 6211-548B

Servicing: S115A24-1, S115A24-12, S115A24-14, S115A24-2, S115A24-6, S115A24-7, S115A24-9, 1327470, 1327480

24 Volt, Length 20.00, Lead length 51.50, Height 20.00, Thickness 9.00



### ASX144 Brush Set

Replacing: 6068-20, 6068-29, 6068-42, 6068-47, 6211-548

Servicing: 1321021, 1321032, 1321033, 1321041, 1321112, 1321182, 1321292, 1321352, 1321471, 1321491, 1321531

24 Volt, Length 20.00, Lead length 47.00, Height 20.00, Thickness 9.00



### ASX184 Brush Set

Replacing: 6068-10

Servicing: 1343021, 1343035, 1343041, 1343051, 1343061, 1343071, 1343113, 1343151, 1343171, 1343181, 1343232

24 Volt, Length 26.00, Lead length 50.00, Height 20.00, Thickness 12.00



### ASX194 Brush Set

Replacing: 6068-1, 6068-18, 6068-28, 6068-34, 6068-8

Servicing: 1330011, 1330032, 1330661, 1330861, 1331041, 1331172, 1331181, 1331371, 1331441, 1331451, 1331520

12 Volt, Length 26.00, Lead length 66.00, Height 20.00, Thickness 9.00



### ASX74 Brush Set

Replacing: 6068-2

Servicing: 1332011, 1332022, 1332023, 1332031, 1332071, 1332382, 1332521, 1332814, 1333011, 1333172, 1333181

24/32 Volt, Length 26.00, Lead length 54.00, Height 20.00, Thickness 9.00

## Bushings



### 140154 Bushing

Replacing: 5933-44, 6211-235

Servicing: 1320027, 1320028, 1320035, 1320036, 1320045, 1320075, 1320092, 1320142, 1320161, 1320183, 1320294, ID 28.30, OD 33.00, Length 26.35, Material Steel, Pin w/o

Pkg. 10



### 140170 Bushing

Replacing: 5549-307

Servicing: 1330011, 1330032, 1330661, 1330861, 1331041, 1331172, 1331181, 1331371, 1331441, 1331451, 1331520, ID 22.05, OD 26.05, Length 28.00, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140173 Bushing

Replacing: 5933-603, 6211-303

Servicing: CA45012-Y95M, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16, CA45D12-18, CA45D12-1M, CA45D12-2, ID 15.95, OD 19.13, OD/collar 23.70, Length 18.00, Height/collar 1.30, Type Standard, Material Copper, Pin w/o, Alternative no.: B140173



### 141003 Bushing

Replacing: 6400-247

Servicing: 1333860, 1343351, 1343B736, 1343B758, 1343B760, 1343B764, 1343B771, 1343C021, 1343C041, 1343C051

ID 35.80, OD 39.50, Length 47.80, Type Mount., Material Copper, Pin w/

Pkg. 10



### 141028 Bushing

Replacing: 6211-726

Servicing: S115A12-1, S115A12-10, S115A12-12, S115A12-15M, S115A12-9, S115A24-1, S115A24-11M, S115A24-12, ID 16.00, OD 22.30, OD/collar 25.40, Length 17.05, Height/collar 2.50, Material Copper, Pin w/o

Pkg. 100



### B140173 Bushing

Replacing: 5933-603, 6211-303

ID 15.95, OD 19.15, OD/collar 23.70, Length 17.90, Height/collar 1.30, Material Copper, Pin w/o, Alternative no.: 140173

## Repair Kits



### 139685# 5★ Repair Kit

Manufacturer: Prestolite

Replacing: 6010-235

Servicing: CA203RA, 1286010, 1286510, 1286560, 1286570, AC203RA





## 130850 Repair Kit

Manufacturer: Prestolite

Replacing: 521, 6010-127

Servicing: 1320015, 1320023, 1327480, 1327591, S115A12-1, 1320027, 1320029, 1320035, 1320036, 1320183, 1320510

## Sundry Parts

### Screws



Pkg. 100

## 192591 Socket Head Screw

Replacing: 5335-963E

Servicing: AC203, 1286010, 1286510, 1286560, 1286570, AC203RA

Thread M6, Length 16.00, Colour Black, Head type Unbrako, Quality 12.9, Material Steel, DIN norm 912, ISO norm 4762

### Oil Seals



Pkg. 5

## 132981 Oil Seal

Replacing: 5933-906

Servicing: CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16, CA45D12-18, CA45D12-1M, CA45D12-2, CA45D12-29M

ID 28.00, OD 35.00, Height 3.10, Material Metal/Rubber, O-ring w/o

### O-rings



Pkg. 5

## 139737 O-ring

Replacing: 6220-481

Servicing: AC5RS, 1268580, 1268590, 1268600M, 1268610, 1268650, 1268660, 1268690, AC5RS-24 ID 34.00, OD 37.40, Thickness 1.70, Colour Black

Pkg. 10



## 230378 O-ring

Replacing: 6211-675D

Servicing: S115A12-1, S115A12-10, S115A12-12, S115A12-15M, S115A12-9, S115A24-1, S115A24-12, S115A24-14

ID 3.70, OD 7.20, Thickness 1.80, Colour Black

### Various



Pkg. 10

## 132982 Plug

Replacing: 5933-83

Servicing: CA45012-Y95M, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16, CA45D12-18, CA45D12-1M, CA45D12-2

OD 26.00, Height 1.85 Bosch



## 138784 Resistor

Replacing: 6211-203, 6211-526

Servicing: 1321032, 1321033, 1321112, 1321292, 1321352, 1321491, 1321552, 1321580, 1321600, 1321780, 1321F032

ID/mount. hole 6.40, Length 291.90, Width 23.30

24 V. Insulated return.



## 139662 Resistor

Replacing: 6211-175A

Servicing: 1320035, 1320036, 1320294, 1320352, 1320552, 1320601, 1320F035, 1320F036, 1320F114, 1320F294

ID/mount. hole 6.40, Length 260.25, Width 24.15

12 V. Insulated return.

Pkg. 4



## 139708 Connection

Replacing: 6211-961

Servicing: S115A12-1, S115A12-10, S115A12-12, S115A12-9, S115A24-1, S115A24-12, S115A24-14, S115A24-2



## 139713 Terminal Bolt

Replacing: 6211-678, 6510-3, 6510-4

Servicing: S115A12-1, S115A12-10, S115A12-12, S115A12-15M, S115A12-9, S115A24-1, S115A24-11M, S115A24-12

Total length 50.70, Thread length 24.80, Thread size M8



## 139715 Collar

Manufacturer: Prestolite

Replacing: 6211-372

Servicing: CA45012-Y95M, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16, CA45D12-18, CA45D12-1M, CA45D12-2

ID 31.00, OD 34.10, Height 16.30, Material Steel, Collar w/o, Gasket w/o, O-ring w/o

Pkg. 5



## 139718 Washer

Manufacturer: Prestolite

Replacing: 6211-600

Servicing: S115A12-1, S115A12-10, S115A12-12, S115A12-15M, S115A12-9, S115A24-1, S115A24-11M, S115A24-12

ID 22.35, OD 44.60, Thickness 2.65, Material Fiber, Bushing w/o





Pkg. 10

### 139720 Cover

**Manufacturer:** Prestolite

**Replacing:** 6265-703

**Servicing:** S115A12-1, S115A12-10, S115A12-12, S115A12-15M, S115A24-1, S115A24-12, S115A24-14, S115A24-2  
**ID** 21.10, **OD** 28.55, **Height** 28.45



### 139722 Thrust Washer

**Manufacturer:** Prestolite

**Replacing:** 5936-264, 6265-705

**Servicing:** CA45012-Y95M, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16, CA45D12-18, CA45D12-1M, CA45D12-2  
**ID** 20.60, **OD** 24.85, **Thickness** 0.70, **Material** Steel, **Bushing** w/o



### 139723# Nut

**Manufacturer:** Prestolite

**Replacing:** 5330-525

**Servicing:** S115A12-1, S115A12-10, S115A12-12, S115A12-15M, S115A12-9, S115A24-1, S115A24-12, S115A24-14

**Thread** M12, **OD** 22.00, **Height** 21.15, **Material** Steel, **Lock nut** w/o, **Washer** w/o

Pkg. 10



### 139728 Spring

**Replacing:** 6211-385

**Servicing:** CA45012-Y95M, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16, CA45D12-18, CA45D12-1M, CA45D12-2  
**OD** 1.50, **Length** 73.00, **Material** Steel



Pkg. 10

### 230368 Steel Ball

**Replacing:** NC7-17

**Servicing:** CA45012-Y95M, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16, CA45D12-18, CA45D12-1M, CA45D12-2  
**OD** 4.80, **Material** Steel

Pkg. 10



### 230369 Steel Ball

**Replacing:** NC7-7

**Servicing:** CA45012-Y95M, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16, CA45D12-18, CA45D12-1M, CA45D12-2  
**OD** 7.90, **Material** Steel



### 230437 Resistor

**Replacing:** 6010-246, 6211-134, 6211-447, 6211-841, 6510-79

**Servicing:** 1321021, 1321471, CA45D24-18, CA45D24-2, CA45D24-4, CA45D24-47, CA45D24-51, CA45D24-51M, CA45D24-53

**ID/mount. hole** 6.40, **Width** 23.55  
24 V.

Pkg. 10



### 230441 Washer

**Manufacturer:** Prestolite

**Replacing:** 6510-84

**Servicing:** 1327470, 1327480, 1327591, S11524-7, 1327620, 1327621, 1327A470, 1403010, S11524-20X, S11524-23

**OD** 18.00, **Thickness** 1.60, **Type** H form, **Bushing** w/o



Pkg. 5

### 232851 Insulator

**Servicing:** 1327480, 1327591, 1327620, 1327621, 1327A470, 1403010, S11524-20X, S11524-23, S11524-23X, S11524-8

**ID** 10.30, **OD** 12.60, **Height** 3.50, **Material** Plastic, **Collar** w/o, **Gasket** w/o, **O-ring** w/o

Pkg. 10



### 234428 Insulator

**Replacing:** 5587-117, 5587-117A

**Servicing:** CA45012-Y95M, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16, CA45D12-18, CA45D12-1M, CA45D12-2  
**ID** 4.20, **OD** 9.70, **Height** 5.20



## Armatures

12 V



### 130552 Armature

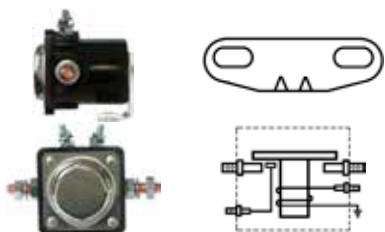
Replacing: 2525283

Servicing: 35MT, 2098879

12 Volt, Shaft length 394.00, Height/bar 8.50, Height/bar lane 27.30, Core thickness 85.00, No./bars 25, No./splines 3, Rotation CW Short shaft.

## Solenoids

12 V



### 130493 Solenoid

Replacing: 2098360, 3225629

12 Volt, Intermittent load 150 Amp., B+ 5/16" UNF, OD 42.30, Total length 62.30, Height/B+ 15.00, Terminal 15A/width 12.75, Terminal 50 10-32 UNF, Coil bolt 5/16" UNF, Coil bolt 2 15.00, No./mount. holes 2, No./terminals 4



### 130499 Solenoid

Replacing: 3202630, 3204049, 3205022

Servicing: 10MT, 20MT, 25MT, 27MT,

12 Volt, B+ 3/8" UNC, ID/cover 31.35, OD 59.80, OD/cover 65.10, Total length 122.15, Terminal 50 8-32 UNC, Coil bolt 3/8" UNC, No./mount. holes 2, No./terminals 4 Cap: HC-CARGO 130497.

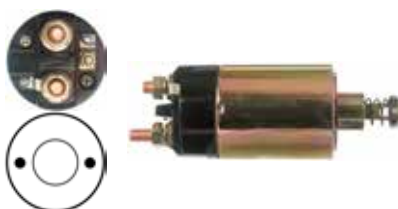


### 131590 Solenoid

Replacing: 8133925

Servicing: 5MT, 22MT,

12 Volt, B+ 3/8" UNC, ID/cover 28.50, OD 59.90, OD/cover 65.55, Height/B+ 14.50, Total length 105.25, Terminal 15A/width 10.00, Terminal 50 10-32 UNF, Coil bolt 3/8" UNC, No./mount. holes 2, No./terminals 4, Fork lever w/o Insulated return. Cap: HC-CARGO 137809.



### 133428 Solenoid

Replacing: 5006626, 5206626

12 Volt, B+ M8, OD 50.10, OD/cover 49.80, Total length 142.75, Height/B+ 16.95, Terminal 50 M4, Coil bolt M8, Coil bolt 2 12.55, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 133777.

## Drives



### 130536 Drive

Replacing: 2095122, 2095397, 2444651, 2444658, 3755085, 4094174, 480428, CH1920, CH1922, CH1925, CH1927

Servicing: 2095397, 2444658

ID 12.00, OD 33.10, OD/housing 46.10, Total length 75.20, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 130538 Drive

Replacing: 2525287

Servicing: 30MT

ID 14.30, OD 39.85, OD/housing 60.00, Total length 96.15, Splines A 3, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 131220# Drive

Replacing: 4091920

ID 12.00, OD 33.00, OD/housing 46.70, Total length 76.10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/



### 136888 Drive

Replacing: 5234382

ID 11.00, OD 25.35, OD/housing 46.25, Total length 58.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o

## Brush Gears



### 131413 Brush Gear

Replacing: 2095219

Servicing: 4091950

ID 25.80, OD 89.50

## Brush Gear Parts

### Brush Springs

Pkg. 10



### 132741 Brush Spring

Replacing: 2084666

Servicing: 2095150, 2098500

OD 15.65, Length 30.80, Height 5.00, Material Steel



## Brush Sets



### CHX101P Brush Set

Replacing: 2095137, 2095145, 2275249, 2275550, CHX101P

Servicing: 2089500, 2095150, 2875560, 3656575, 3755900, 4091975, 2098100

Length 13.00, Lead length 125.00, Lead length 2 34.00, Height 17.60, Thickness 8.80

## Bushings

Pkg. 5



### 140186 Bushing

Replacing: 2095410, 2098986

ID 11.99, OD 15.11, Length 18.67, Type Standard, Material Copper, Pin w/o

Pkg. 5



### 140187 Bushing

Replacing: 3556382, 3656382, 3874817, CH1414

ID 11.97, OD 15.24, Length 19.05, Type Standard, Material Copper, Pin w/o

## Bearings

### Needle Bearings

Pkg. 10



### 140120 FAG Needle Bearing

Replacing: 2095037, 2098512, 3755184

Servicing: 10SI, 12SI, 15SI, 17SI, 27SI, A127,

ID 17.00, OD 23.80, Height 17.40

Closed end.

Pkg. 10



### 140240 FAG Needle Bearing

Replacing: CN1467

Servicing: 10DN SERIES, A127 W/ VACUUM PUMP

ID 17.00, OD 23.80, Height 17.40

Open end.

## Sundry Parts

### Various

Pkg. 10



### 132581 Insulator

Replacing: 3438718

ID 5.00, OD 14.00, OD/collar 9.00,

Height/collar 2.65, Thickness 1.55,

Material Plastic, Bushing w/o



## Armatures

12 V



### 132796 Armature

Replacing: 021200-2120, 028200-1531, 028200-2120, 028200-4540

Servicing: 028000-4540, 028000-4550, 028000-5900, 028000-5910, 028000-5911, 028000-5912, 028000-6000

12 Volt, 0.9/1/1.2 kW, Bar dist. 1.80, Bar cross dist. 31.25, Shaft length 135.00, Bar length 4.40, Height/bar 5.65, Height/bar lane 21.35, Core thickness 47.00, No./bars 21, No./teeth 9, Rotation CW



### 132869 Armature

Replacing: 028200-1780, 028200-1900, 028200-6220, 028200-6230

Servicing: 028000-5000, 028000-5541, 028000-5542, 028000-5543, 028000-5560, 028000-5561

12 Volt, 2.5 kW, Bar dist. 2.60, Bar cross dist. 39.00, Shaft length 187.00, Bar length 5.00, Height/bar 5.80, Height/bar lane 32.40, Core thickness 60.05, No./bars 23, No./teeth 9, Rotation CW/CCW



### 134369 Armature

Replacing: 028200-2140, 028200-7430

Servicing: 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7370

12 Volt, 2.0 kW, Bar dist. 2.35, Bar cross dist. 36.00, Shaft length 166.00, Bar length 4.45, Height/bar 5.90, Height/bar lane 32.55, Core thickness 50.45, No./bars 23, No./splines 19, Rotation CW/CCW



### 135853 Armature

Replacing: 028200-1260, 028200-1261, 028200-2290, 028200-6240

Servicing: 028000-3290, 028000-3291, 028000-3292

12 Volt, 4.0 kW, Shaft length 396.00, Height/bar 6.35, Height/bar lane 46.45, Core thickness 84.00, No./bars 29, No./splines 4



### 136862 Armature

Replacing: 028200-5210, 028200-5340, 28160-11711

Servicing: 128000-2621, 128000-3250, 128000-3251, 128000-3651, 128000-4030, 128000-4031, 128000-4040

12 Volt, 0.6 kW, Bar dist. 2.00, Bar cross dist. 29.00, Shaft dia. 16.20, Shaft length 197.00, Bar length 4.70, Height/bar 3.85, Height/bar lane 14.80, Core thickness 50.40, No./bars 21, No./splines 10, Rotation CCW



### 136884# 5★ Armature

Manufacturer: Denso

Replacing: 028200-5871

Servicing: 128000-2680, 128000-2682, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682

12 Volt, 0.8 kW, Bar dist. 2.06, Bar cross dist. 31.20, Shaft length 100.90, Height/bar 3.32, Height/bar lane 18.22, Core thickness 44.92, No./bars 21, No./teeth 11



### 136896 Armature

Replacing: 028200-6250

Servicing: 128000-7002, 128000-7140, 128000-7390, 128000-8210, 128000-8320, 128000-8321, 128000-8322

12 Volt, 1.4 kW, Shaft length 128.65, Core thickness 49.25, No./bars 21, No./teeth 9



### 137953 Armature

Replacing: 028200-6260

Servicing: 128000-7122, 128000-7560, 128000-7713, 128000-7714, 128000-8220, 128000-8310, 128000-8311

12 Volt, 1.2 kW, Shaft dia. 17.50, Shaft length 118.10, Core thickness 49.50, No./bars 21, No./teeth 9, Rotation CW/CCW



### 137978 Armature

Replacing: 028200-1890, 028200-5040, 028200-6850, 028200-7440

Servicing: 128000-0830, 128000-0831, 128000-0832, 128000-0833, 128000-5350, 128000-5760, 128000-9560

12 Volt, 2.2 kW, Bar dist. 2.40, Bar cross dist. 35.00, Shaft dia. 14.00, Shaft length 167.45, Bar length 6.00, Height/bar 5.85, Height/bar lane 30.80, Core thickness 54.20, No./bars 23, No./teeth 19, Rotation CW



### 139148 Armature

Replacing: 028200-6860

Servicing: 228000-1180, 228000-2120, 228000-2680, 228000-2690, 228000-2700, 228000-2980, 228000-3840

12 Volt, 2.0 kW, Shaft length 159.60, Core thickness 50.60, No./bars 27, No./teeth 21





### 139701 Armature

Replacing: 028200-2800

Servicing: 128000-0490, 128000-0491, 128000-2470, 128000-3361, 128000-4220, 128000-4910, 128000-5370

12 Volt, 3.0 kW, Shaft length 210.50, Height/bar 6.75, Height/bar lane 43.85, Core thickness 64.80, No./bars 23, No./splines 18, Rotation CW



### 236958 Armature

Replacing: 028200-5991

Servicing: 128000-6210, 128000-6211, 128000-6212, 128000-7400, 128000-8870, 128000-8871, 128000-8880

12 Volt, 1.2 kW, Bar dist. 2.06, Bar cross dist. 31.20, Shaft length 110.95, Height/bar 3.32, Height/bar lane 18.22, Core thickness 44.75, No./bars 21, No./teeth 11, Rotation CCW



### 237378 Armature

Servicing: 428000-0670, 428000-0680, 428000-1750, 428000-7710

12 Volt, 1.4 kW, Shaft length 101.00, Height/bar lane 19.00, Core thickness 50.55, No./bars 29, No./teeth 9



### 237545 Armature

Replacing: 028200-8280

Servicing: 228000-9901, 228000-9902, 428000-0150, 428000-0151, 428000-0152, 428000-3090, 428000-3092

12 Volt, 1.3 kW, Shaft length 91.40, Core thickness 50.60, No./bars 25, No./teeth 8



### 237879 Armature

Servicing: 428000-0660, 428000-0720, 428000-1620, 03111-4300

12 Volt, 1.9 kW, Bar dist. 2.00, Bar cross dist. 36.65, Shaft length 136.80, Bar length 3.90, Height/bar 4.75, Height/bar lane 26.00, Core thickness 48.50, No./bars 27, No./splines 11, Rotation CW



### 238289 Armature

Servicing: 428000-0700, 428000-0701

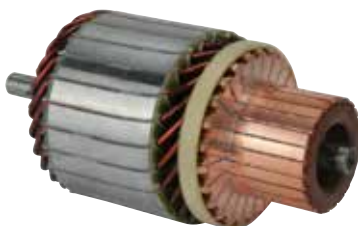
12 Volt, 1.6 kW, Bar dist. 1.70, Bar cross dist. 34.80, Shaft length 108.50, Bar length 6.00, Height/bar 4.35, Height/bar lane 17.90, Core thickness 50.50, No./bars 29, No./teeth 9, Rotation CCW



### 239078 Armature

Servicing: 428000-1640, 428000-1650, 428000-3361, 428000-3370, 428000-3371, 428000-3372

12 Volt, 1.1 kW, Bar dist. 1.70, Bar cross dist. 34.80, Shaft length 101.33, Bar length 6.00, Height/bar 4.35, Height/bar lane 17.90, Core thickness 50.60, No./bars 29, No./teeth 9, Rotation CW



### 332363 Armature

Servicing: 428000-4600, DSN967, 428000-5510, 428000-5511

12 Volt, 1.7 kW, Bar dist. 0.80, Shaft length 113.33, Core thickness 52.75, No./bars 25, No./teeth 11, Rotation CW



### 335859 Armature

Servicing: 438000-0270

12 Volt, Shaft length 113.50, Core thickness 52.70, No./bars 25, No./teeth 9, Rotation CW

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### 337565 Armature

Servicing: 428000-9140

12 Volt, 1.7 kW, Shaft length 113.40, Core thickness 52.65, No./bars 25, No./teeth 9, Rotation CW

## 24 V



### 132553 Armature

Replacing: 028200-1590, 028200-2230, 27160-77090

Servicing: 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530

24 Volt, 4.5 kW, Bar dist. 2.40, Bar cross dist. 35.00, Shaft length 187.00, Bar length 6.00, Height/bar 5.85, Height/bar lane 30.80, Core thickness 59.95, No./bars 23, No./splines 9, No./teeth 9, Rotation CW/CCW



### 138675 Armature

Replacing: 028200-5250

Servicing: 128000-2450, 128000-2560, 128000-2740, 128000-4250, 128000-4682, 128000-4683, 128000-4684

24 Volt, 5.5 kW, Bar dist. 2.50, Bar cross dist. 45.00, Shaft dia. 16.20, Shaft length 210.50, Bar length 6.80, Height/bar 7.50, Height/bar lane 42.60, Core thickness 65.00, No./bars 23, No./teeth 18, Rotation CW



## Field Cases



### 135790# 5★ Field Case

Manufacturer: Denso

Replacing: 028100-3770, 028100-4360, 028100-4430, 028100-5110, 028100-5540

Servicing: 028000-5730, 028000-7700, 028000-8390, 028000-8620, 028000-8980, 028000-9270, 028000-9320

12 Volt, 1.4 kW, ID 51.00, OD/middle 76.00, Length 77.15, Lead length 89.60, Brush gear w/o, Magnets w/o, O-ring w/o



### 136885 5★ Field Case

Manufacturer: Denso

Replacing: 028100-6010, 028100-7680

Servicing: 128000-2680, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6420

12 Volt, 0.8 kW, ID 45.00, OD/middle 68.00, Length 52.40, Lead length 41.90, Brush gear w/o, Magnets w/o, O-ring w/o



### 136897 Field Case

Replacing: 028100-6350, 028100-6710, 028100-7110

Servicing: 128000-7002, 128000-7140, 128000-7390, 128000-8320, 128000-8321, 128000-8322, 128000-8360

12 Volt, 1.4 kW, ID 49.90, OD/middle 75.80, Length 62.60, Lead length 55.35, Brush gear w/o, Magnets w/o, O-ring w/o



### 230057# 5★ Field Case

Manufacturer: Denso

Replacing: 028100-6150, 028100-6630, 028100-7750

Servicing: 128000-6212, 128000-7400, 128000-8870, 128000-8871, 128000-8880, 128000-8881, 128000-8970

12 Volt, 1.0 kW, ID 44.75, OD/middle 68.00, Length 62.60, Lead length 41.45, Brush gear w/o, Magnets w/o, O-ring w/o

## Field Coils

### 12 V



### 135751 Field Coil

Replacing: 028100-3001, 028100-3002, 028100-3810, 028110-1910

Servicing: 028000-5000, 028000-5490, 028000-5541, 028000-5542, 028000-5543, 028000-5560, 028000-5561

12 Volt, 2.5/2.7 kW, Lead length 130.00, Height 94.40, Internal height 58.00, Inner width 22.50, Brush gear w/o

### 24 V



### 135750 Field Coil

Replacing: 028100-2881, 028100-2882, 028100-3800, 028100-3801, 028100-5390, 028100-5391, 028100-6320

Servicing: 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511

24 Volt, 4.5 kW, Height 94.00, Internal height 61.25, Inner width 22.75, Brush gear w/o



### 232908 Field Coil

Replacing: 028100-5410, 028110-5081

Servicing: 128000-2450, 128000-2560, 128000-2740, 128000-4250, 128000-5730, 128000-5731, 128000-5732

24 Volt, 5.5 kW, Height 110.60, Width 225.75, Internal height 69.85, Inner width 22.90, Brush gear w/o

## C.E. Brackets



### 136183 C.E. Bracket

Replacing: 028501-0970, 028501-6890

Servicing: 028000-5300, 028000-5530, 028000-5581, 028000-5620, 028000-5860, 028000-5861, 028000-5862



### 231387 C.E. Bracket

Replacing: 028501-6510

Servicing: 128000-8350, 128000-8360, 228000-2810, 228000-2890, 228000-2961, 228000-3060, 128000-7010

ID 72.00, OD 76.00, Height 44.00



### 231483 C.E. Bracket

Replacing: 028501-6600

Servicing: 128000-7140, 128000-7141, 128000-8110, 128000-8111, 128000-8210, 228000-2841, 128000-9870

ID 72.00, OD 76.50, Height 44.00





**231529** C.E. Bracket

Replacing: 028401-6490, 028501-6490, 028501-7200

Servicing: 128000-8320, 128000-8321, 128000-8322, 128000-9870, 228000-0990, 228000-1000, 228000-1020

ID 72.00, OD 76.00, Height 43.50, Not insulated return



**231600** C.E. Bracket

Replacing: 028501-7650

Servicing: 228000-1180, 228000-2120, 228000-2680, 228000-2690, 228000-2700, 228000-3980, 228000-7710

ID 74.00, OD 77.00, Height 55.00



**235032** C.E. Bracket

Servicing: 228000-7220

ID 73.60, OD 78.00, Height 57.20

## D.E. Brackets



**134503** D.E. Bracket

Replacing: 128400-0280

Servicing: 128000-0280, 128000-0810, 128000-0910, 128000-2140, 128000-5080, 228000-0210, 228000-0211

Type Open



**134510** D.E. Bracket

Replacing: 128400-1700

Servicing: 128000-1900, 128000-2040, 128000-5630

Type Open



**136182** D.E. Bracket

Replacing: 128401-1790

Servicing: 128000-1790, 128000-3080, 128000-3081, 128000-3082

Type Open



**136935** D.E. Bracket

Replacing: 028401-6331

Servicing: 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7790, 028000-7791

Type Open



**234881** D.E. Bracket

Replacing: 127400-9730

Servicing: 128000-9730, 128000-9740, 228000-4390, 228000-4391, 228000-4392

Type Open

Bushing in D.E. bracket: HC-CARGO 140186, 140187

## Solenoids

### 12 V



**130814** Solenoid

Replacing: 053400-1040, 053400-1041, 053400-1102, 053400-1260, 053400-1530, 053400-2251, 053400-2340

Servicing: 028000-0430, 028000-1370, 028000-1850, 028000-1975, 028000-1976

12 Volt, B+ M8, OD 49.85, OD/cover 49.80, Total length 137.60, Height/B+ 18.35, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.60, No./mount. holes 2, No./terminals 3



**131084** Solenoid

Replacing: 053400-0150, 053400-1810, 053400-1811, 053400-1830, 053400-1831, 053400-2160, 053400-2551

Servicing: 028000-1850, 028000-1973, 028000-2000, 028000-2001, 028000-2240, 028000-2241, 028000-2660

12 Volt, B+ M8, OD 50.20, OD/cover 49.25, Total length 141.80, Height/B+ 23.75, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.50, No./mount. holes 2, No./terminals 4



**131807** Solenoid

Replacing: 053400-1300, 053400-2540, 053400-3590, 053400-3840, 053400-3890, 053400-3930, 053400-3931

Servicing: 028000-2450, 028000-5200, 028000-5201, 028000-5330, 028000-5331, 028000-5332, 028000-5333

12 Volt, B+ M8, OD 50.00, OD/cover 42.65, Total length 123.80, Height/B+ 12.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.65, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 133099. Contact Plate: HC-CARGO 135016.



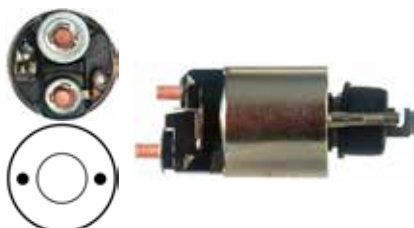


### 132641 Solenoid

Replacing: 053400-1720, 053400-2740, 053400-2870, 053400-3490, 053400-3491, 053400-3492, 053400-3570

Servicing: 028000-3290, 028000-3291, 028000-3292, 028000-3650, 028000-3930, 028000-3970

12 Volt, B+ M10, OD 62.85, OD/cover 61.60, Total length 201.55, Height/B+ 23.20, Coil bolt M10, Coil bolt 2 22.20, No./mount. holes 2, No./terminals 3



### 133675 Solenoid

Replacing: 053400-5280, 053400-5282, 053400-5290, 053400-5292

Servicing: 028000-8010, 028000-8160, 028000-8460, 028000-8690, 028000-8700, 028000-9100

12 Volt, B+ M8, OD 50.00, OD/cover 47.65, Total length 124.00, Height/B+ 12.10, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.75, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 133099.

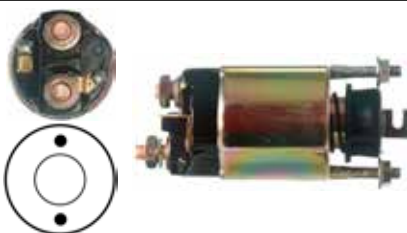


### 133711 Solenoid

Replacing: 182800-0930, 182800-1040, 182800-1050, 182800-1210, 182800-1570

Servicing: 028000-8411, 028000-8422, 028000-9133

12 Volt, B+ M6, OD 33.80, OD/cover 32.55, Total length 52.70, Height/B+ 8.60, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 8.40, No./mount. holes 2, No./terminals 3

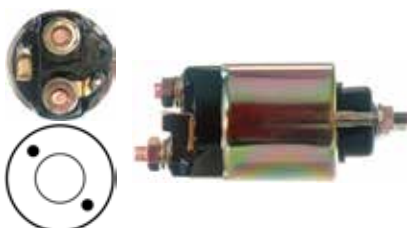


### 133723 Solenoid

Replacing: 053400-5120, 053400-5150, 053400-5820, 053400-8740

Servicing: 028000-7280, 028000-7440, 028000-7940

12 Volt, B+ M8, OD 51.00, OD/cover 50.15, Total length 118.25, Height/B+ 11.60, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.95, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 133099. Contact Plate: HC-CARGO 135016.

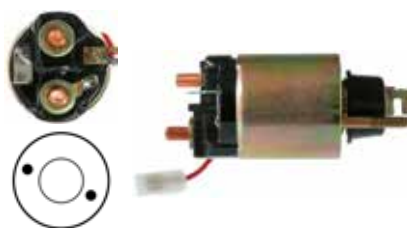


### 133809 Solenoid

Replacing: 053400-7130, 053400-8690, 053400-8730, 053400-8780, 153400-0850, 312205-2A20

Servicing: 128000-2610, 128000-2611, 128000-2680, 128000-3040, 128000-3090, 128000-3091, 128000-4020

12 Volt, B+ M8, OD 49.65, OD/cover 47.90, Total length 114.55, Height/B+ 13.80, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.75, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 133099. Contact Plate: HC-CARGO 135016.

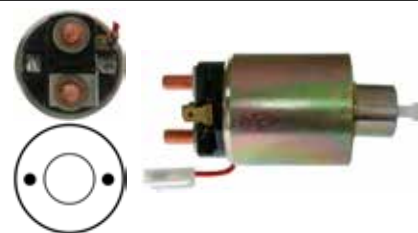


### 134933 Solenoid

Replacing: 053400-5000, 053400-5001, 053400-5250, 053400-5251

Servicing: 028000-3730, 028000-7520, 028000-7521

12 Volt, B+ M8, OD 50.75, OD/cover 50.10, Total length 117.80, Height/B+ 11.10, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.40, No./mount. holes 2, No./terminals 4  
Contact Plate: HC-CARGO 135016.



### 135590 Solenoid

Replacing: 021200-3251

Servicing: 100211-0141, 100211-0142, 100211-0321, 100211-0322

12 Volt, B+ M8, ID/cover 25.00, OD 52.15, OD/cover 45.30, Length 42.70, Total length 100.90, Height/B+ 13.60, Terminal 15A/width 13.75, Coil bolt M8, Coil bolt 2 14.15, No./mount. holes 4, No./terminals 4



### 135652 Solenoid

Replacing: 053400-7800, 053400-8510

Servicing: 128000-2621, 128000-2631, 128000-2980, 128000-4160, 128000-4170, 128000-4430, 128000-4450

12 Volt, B+ M8, OD 50.80, OD/cover 50.00, Total length 114.55, Height/B+ 11.45, Terminal 15A/width 10.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.45, No./mount. holes 2, No./terminals 4



### 136886 Solenoid

Replacing: 153400-1520, 153400-3750

Servicing: 228000-0940, 228000-0941, 228000-2900, 228000-6740, 228000-6750, 228000-6760, 228000-8360

12 Volt, 0.8 kW, B+ M8, OD 50.00, OD/cover 49.90, Total length 124.65, Height/B+ 11.30, Coil bolt M8, Coil bolt 2 11.10, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 235274.



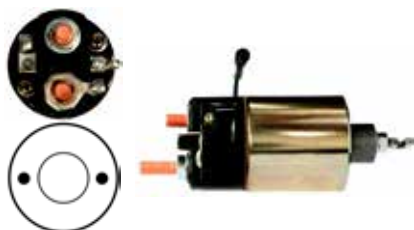


### 138014 Solenoid

Replacing: 053400-8750, 28150-87512

Servicing: 228000-5710, 228000-9232, 228000-9252, 428000-0860, 228000-4641, 128000-3662, 228000-4640

12 Volt, B+ M8, OD 50.00, OD/cover 42.65, Total length 118.35, Height/B+ 13.10, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.80, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 133099.



### 231997 Solenoid

Replacing: 053400-1150, 053400-1151, 053400-1740, 053400-1870, 053400-1880, 053400-2120, 053400-2250

Servicing: 028000-0197, 028000-0370, 028000-1010, 028000-1011, 028000-1970, 028000-1971, 028000-1972

12 Volt, B+ M8, OD 50.00, OD/cover 49.00, Total length 141.65, Height/B+ 24.35, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.15, No./mount. holes 2, No./terminals 3



### 233951 Solenoid

Replacing: 053400-4810, 053400-9630

Servicing: 028000-6560, 028000-7430, 028000-7431, 128000-4340, 128000-5330, 128000-5331, 128000-6060

12 Volt, B+ M14, OD 63.65, OD/cover 63.75, Total length 232.80, Height/B+ 40.00, Coil bolt M14, Coil bolt 2 28.55, No./mount. holes 2, No./terminals 4, Fork lever w/o

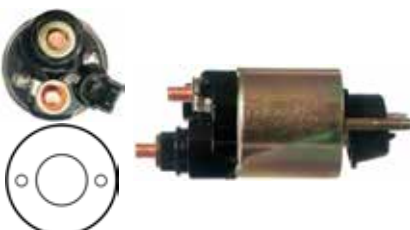


### 233952 Solenoid

Replacing: 053400-9890, 053400-9891

Servicing: 128000-7230, 128000-7250, 228000-2360, 228000-2370, 228000-4690, 128000-5970, 228000-2380

12 Volt, B+ 1/2", OD 62.77, OD/cover 63.87, Total length 216.70, Height/B+ 22.72, Coil bolt M12, Coil bolt 2 14.60, No./mount. holes 2, No./terminals 4, Fork lever w/o



### 234992 Solenoid

Replacing: 153400-1510

Servicing: 228000-0550, 228000-0551, 228000-2010, 228000-5960, 228000-5970, 228000-7581, 228000-7583

12 Volt, B+ M8, OD 50.80, OD/cover 50.70, Total length 123.00, Height/B+ 9.40, Coil bolt M8, Coil bolt 2 11.35, No./mount. holes 2, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 234128. Moving contact: HC-CARGO 135016.



### 235067 Solenoid

Replacing: 153400-4110

Servicing: 228000-4890, 228000-4891, 228000-8490

12 Volt, 0.8 kW, B+ M8, OD 50.00, Total length 125.50, Height/B+ 12.00, Terminal 50 6.30, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 235319 Solenoid

Servicing: 128000-2640, 128000-2670, 128000-2790, 128000-3730, 128000-3740, 128000-3741, 128000-8650

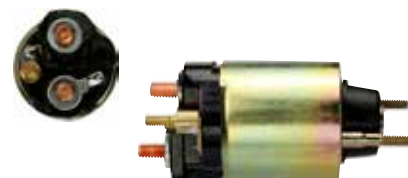
12 Volt, B+ M8, ID/cover 11.90, OD 51.00, OD/cover 7.85, Total length 117.30, Terminal 30H M8, Terminal 50 M8, No./mount. holes 2, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 235320 Solenoid

Servicing: 128000-8690

12 Volt, B+ M8, OD 50.79, Total length 115.68, Height/B+ 11.67, Terminal 50 M6, Coil bolt M8, Coil bolt 2 11.52, No./mount. holes 2, No./terminals 3, Fork lever w/o



### 235367 Solenoid

Servicing: 128000-4230

12 Volt, B+ M8, OD 50.70, OD/cover 50.30, Total length 113.34, Height/B+ 60.00, Terminal 15A/width 30.00, Terminal 50 M6, Coil bolt 7.68, Coil bolt 2 11.15, No./mount. holes 2, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 237392 Solenoid

Servicing: 428000-0670, 428000-1750

12 Volt, 1.4 kW, B+ M8, OD 54.05, Total length 123.40, Height/B+ 18.00, Terminal 15A/width 8.00, Terminal 50 M6, No./mount. holes 3, No./terminals 4





### 237531 Solenoid

Replacing: 028099-9701, 153400-8403

Servicing: 228000-9900, 428000-0150, 428000-0151, 428000-0152, 428000-0550, 428000-0551, 428000-0552

12 Volt, 1.3 kW, B+ M8, ID/eye 8.50, OD 48.00, OD/cover 46.00, Length 41.40, Total length 126.50, Height/B+ 12.80, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.50, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 237806 Solenoid

Replacing: 153400-7610

Servicing: 228000-6680, 228000-9580, 428000-0321, 428000-0010

12 Volt, B+ M8, OD 50.80, Total length 125.93, Switch dim. 12.70, Height/B+ 11.22, Coil bolt M8, Coil bolt 2 12.76, No./mount. holes 2, No./terminals 3, Bracket type Bracket



### 237891 Solenoid

Servicing: 428000-1620

12 Volt, B+ M8, OD 54.00, Length 47.50, Total length 119.00, Height/B+ 14.00, Terminal 50 M5, No./mount. holes 3, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 237892.



### 237977 Solenoid

Servicing: 428000-0701, 428000-0680, 428000-0700

12 Volt, 1.3 kW, B+ M8, OD 54.00, Length 52.50, Total length 104.00, Height/B+ 11.25, Terminal 50 5.00, Coil bolt M8, Coil bolt 2 9.30, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 237992 Solenoid

Servicing: 428000-0720

12 Volt, 1.8 kW, B+ M8, ID/eye 4.75, OD 54.00, Length 48.65, Total length 103.50, Height/B+ 12.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 238471 Solenoid

Servicing: 428000-0950

12 Volt, B+ M8, OD 50.98, Total length 125.40, Height/B+ 11.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 3, Fork lever w/o  
*Solenoid cap can not be replaced.*



### 330430 Solenoid

Servicing: 428000-1630

12 Volt, B+ M8, ID/eye 4.50, OD 53.90, Length 51.35, Total length 121.28, Height/B+ 17.74, Terminal 50 M5, Coil bolt M8, Coil bolt 2 10.32, No./mount. holes 3, Bracket type Crimp, Fork lever w/o



### 330642 Solenoid

Servicing: 428000-3180

12 Volt, 2.0 kW, B+ M8, ID/cover 46.19, ID/eye 4.42, OD 54.07, OD/cover 52.23, Length 47.64, Total length 120.00, Switch dim. 15.06, Height/B+ 11.65, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 10.27, No./mount. holes 3, Bracket type Bracket, Fork lever w/o



### 331918 Solenoid

Servicing: 228000-6450

12 Volt, B+ M8, OD 49.90, Total length 125.00, Height/B+ 12.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.50, No./mount. holes 2, No./terminals 3, Fork lever w/o



### 331929 Solenoid

Servicing: 228000-9871, 228000-9872

12 Volt, 1.0 kW, B+ M8, OD 49.72, Total length 147.47, Height/B+ 11.60, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.60, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 332125 Solenoid

Servicing: 28100-0J030, 28100-0Q041, 428000-3361, 428000-3370, 428000-3371, 428000-3372

12 Volt, 1.2 kW, B+ M8, ID/cover 10.97, OD 54.00, OD/cover 52.26, Length 51.66, Total length 137.86, Switch dim. 11.56, Height/B+ 11.10, Coil bolt M8, Coil bolt 2 10.58, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 332161 Solenoid

Servicing: 428000-3410, 428000-5000, 428000-5001, 428000-5280, 428000-4541, 428000-3420

12 Volt, B+ M8, OD 50.00, OD/cover 48.00, Total length 146.12, Height/B+ 11.35, Terminal 50 Plug, Coil bolt M8, Coil bolt 2 10.00, No./mount. holes 2, No./terminals 2, Bracket type Crimp



## NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)
**332174** Solenoid

Servicing: 428000-1940, 428000-1941  
 12 Volt, 2.0 kW, B+ M8, OD 54.30,  
 Length 47.35, Total length 121.12,  
 Height/B+ 16.00, Terminal 50 M6,  
 Coil bolt M8, Coil bolt 2 10.50,  
 No./mount. holes 3, No./terminals 3,  
 Bracket type Crimp, Fork lever w/o

**332356** Solenoid

Replacing: 2-708, ZM 2-708  
 Servicing: 428000-4600, A0061514601  
 12 Volt, 1.7 kW, B+ M8, ID/cover 42.71,  
 OD 49.89, OD/cover 48.03,  
 Total length 131.00, Height/B+ 18.90,  
 Terminal 50 M6, Coil bolt M8,  
 Coil bolt 2 10.90, No./mount. holes 2,  
 No./terminals 3, Bracket type Crimp,  
 Fork lever w/o

**332477** Solenoid

Replacing: 028099-9791  
 Servicing: 428000-0022, 428000-0023,  
 428000-0024, 428000-0340, 428000-0341  
 12 Volt, B+ M8, ID/eye 8.70, OD 48.15,  
 OD/cover 46.20, Length 40.70,  
 Switch dim. 5.10, Height/B+ 12.00,  
 Terminal 50 4.70, Coil bolt M8,  
 Coil bolt 2 10.50, No./mount. holes 2,  
 No./terminals 3

## NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)
**332987** Solenoid

Replacing: 153400-9320, 332987  
 Servicing: 428000-3460, 428000-5410, 428000-4140  
 12 Volt, B+ M8, ID/eye 2.60, OD 50.00,  
 Total length 124.20, Coil bolt M8,  
 No./terminals 3

**334034** Solenoid

Servicing: DSN967, 428000-5510, 428000-5511  
 12 Volt, 1.7 kW, B+ M8, ID/cover 46.20,  
 OD 50.00, OD/cover 48.30,  
 Total length 139.50, Height/B+ 18.70,  
 Terminal 50 M6, Coil bolt M8,  
 Coil bolt 2 10.50, No./mount. holes 2,  
 No./terminals 3, Bracket type Crimp,  
 Fork lever w/o

## NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)
**334407** Solenoid

Servicing: 428000-6760  
 12 Volt, B+ M8, OD 50.00,  
 Terminal 50 6.15, Coil bolt M8,  
 No./mount. holes 2, No./terminals 3

**335857** Solenoid

Servicing: 438000-0270  
 12 Volt, B+ M8, OD 50.00,  
 OD/cover 48.00, Total length 91.00,  
 Height/B+ 13.50, Terminal 50 M6,  
 Coil bolt M8, Coil bolt 2 10.00,  
 No./mount. holes 2, No./terminals 3

**337157** Solenoid

Servicing: 428000-4490  
 12 Volt, B+ M8, OD 50.00,  
 Total length 124.00, Height/B+ 20.50,  
 Terminal 50 4.80, Coil bolt M8,  
 Coil bolt 2 10.00, No./mount. holes 2,  
 No./terminals 3



## NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)
**337164** Solenoid

12 Volt, B+ M8, OD 50.00,  
 Total length 116.00, Height/B+ 11.00,  
 Terminal 50 4.80, Coil bolt M8, No./terminals 3,  
 Coil bolt 2 10.50, No./mount. holes 2

## NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)
**337220** Solenoid

Servicing: 428000-4880  
 12 Volt, B+ M8, OD 50.00,  
 Total length 125.00, Height/B+ 16.00,  
 Terminal 50 M6, Coil bolt M8,  
 Coil bolt 2 10.00, No./mount. holes 2

## NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)
**337566** Solenoid

Servicing: 428000-9140  
 12 Volt, B+ M8, OD 50.00, Height/B+ 20.50,  
 Total length 133.30, Terminal 50 M6,  
 Coil bolt M8, Coil bolt 2 10.00,  
 No./mount. holes 2, No./terminals 3

**337583** Solenoid

Servicing: 428000-8862  
 12 Volt, B+ M8, OD 50.00,  
 Total length 127.60, Height/B+ 21.00,  
 Terminal 50 4.80, Coil bolt M8,  
 Coil bolt 2 10.00, No./mount. holes 2,  
 No./terminals 3



## 24 V

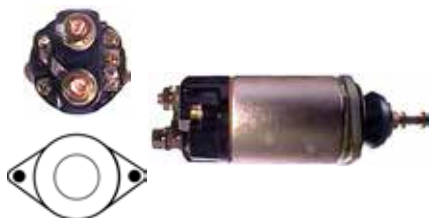


### 134413 Solenoid

Replacing: 053400-1630, 053400-1680, 053400-2090, 053400-3540, 053400-6050

Servicing: 028000-4130, 028000-4131, 028000-5250

24 Volt, B+ M10, OD 62.60, OD/cover 61.70, Total length 203.85, Height/B+ 23.80, Coil bolt M10, Coil bolt 2 23.00, No./mount. holes 2, No./terminals 3, Fork lever w/o

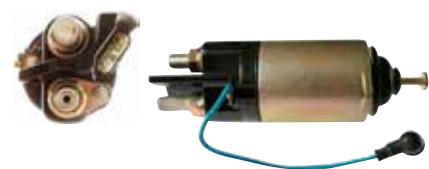


### 137033 Solenoid

Replacing: 053400-1900

Servicing: 028000-5160

24 Volt, B+ M8, OD 50.00, OD/cover 49.85, Total length 163.45, Height/B+ 18.45, Coil bolt M8, Coil bolt 2 12.15, No./mount. holes 2, No./terminals 3



### 234876 Solenoid

Replacing: 053400-9750, 053400-9751

Servicing: 128000-7170, 128000-7172, 128000-7174, 128000-7240, 128000-7520

24 Volt, 5.0 kW, B+ 1/2-13, OD 63.54, OD/cover 64.10, Total length 210.00, Height/B+ 26.79, Coil bolt 1/2-13, Coil bolt 2 16.36, No./mount. holes 2, No./terminals 4, Fork lever w/o

## Safety Switches

### 12 V

## NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)

### 335858 Safety Switch

Servicing: 438000-0270

12 Volt, B+ M8, Total length 66.70, No./mount. holes 2

### 24 V



### 230386 Safety Switch

Replacing: 128800-3140, 182800-3140

24 Volt, OD 33.65, OD/cover 31.45, Total length 51.80, No./mount. holes 2

Alternative no.: 333281



### 333281 Safety switch

Manufacturer: Bosch

Replacing: 128800-3140, 182800-3140

24 Volt, OD 33.65, OD/cover 31.45, Total length 51.80, No./mount. holes 2

Alternative no.: 230386

## Solenoid Parts

### Coils



### 132706 Solenoid Coil

Servicing: 228000-5650, 228000-5651, 228000-5652

12 Volt, ID 20.90, OD 46.75

Double wire on left side. Single wire on right side.



### 132707 Solenoid Coil

12 Volt, ID 21.15, OD 46.10

Single wire on left side. Double wire on right side.



### 132708 Solenoid Coil

Servicing: 028000-5910, 028000-5911, 028000-5912, 028000-6300, 028000-7830, 028000-8440, 028000-9270

12 Volt, ID 21.00, OD 46.60



### 132881 Solenoid Coil

Servicing: 028000-4000, 028000-4243, 028000-4250, 028000-4340, 028000-4341, 028000-4343, 028000-4540

12 Volt, ID 20.85, OD 46.50



### 132882 Solenoid Coil

24 Volt, ID 20.90, OD 46.55



### 132883 Solenoid Coil

Servicing: 028000-5800, 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7790

12 Volt, ID 21.00, OD 46.65




**132884** Solenoid Coil

Servicing: 028000-5900, 028000-7560, 028000-9260, 028000-9261, 028000-9380, 028000-9510, 028000-9720

12 Volt, ID 21.00, OD 45.85


**133094** Solenoid Coil

24 Volt, ID 21.10, OD 46.75


**136606** Solenoid Coil

Servicing: 228000-0664, 228000-0971, 228000-3282, 228000-3283, 228000-3660, 228000-6270, 228000-6271

12 Volt, ID 21.10, OD 43.75


**136607** Solenoid Coil

Servicing: 228000-1180, 228000-2961, 228000-3620, 228000-3621, 228000-3622, 228000-3980, 228000-7710

12 Volt, ID 20.85, OD 43.75


**138931** Solenoid Coil

Servicing: 228000-4980, 228000-4981, 228000-4982

12 Volt, ID 21.10, OD 46.00


**138936** Solenoid Coil

12 Volt, ID 21.00, OD 46.85


**138937** Solenoid Coil

12 Volt, ID 21.00, OD 46.70


**138939** Solenoid Coil

Servicing: 228000-5641

24 Volt, ID 21.00, OD 46.70


**138942** Solenoid Coil

24 Volt, ID 21.00, OD 46.75


**138943** Solenoid Coil

24 Volt, ID 21.00, OD 46.85

## Solenoid Caps


**133099** Solenoid Cap

Servicing: 028000-5330, 028000-5331, 028000-5332, 028000-5333, 028000-5334, 028000-5335, 028000-6490

ID 38.50, OD 48.30, Coil bolt M8, Coil bolt 2 11.90, No./terminals 3, Bracket type Crimp

HC-CARGO 131807, 133675, 133723, 133809.


**234128** Solenoid Cap

Servicing: 228000-5960, 228000-7591, 228000-7581

ID 39.00, OD 48.80, Switch dim. 11/14, Coil bolt M8, Coil bolt 2 12.50, No./terminals 3, Bracket type Crimp

HC-CARGO 234992.


**235274** Solenoid Cap

Servicing: 228000-8540, 428000-3472, 153400-1520, 228000-4020, 228000-6730, 228000-6750, 228000-6840

ID 38.80, OD 48.50, Switch dim. 12.94, Coil bolt M8, Coil bolt 2 11.16, No./terminals 3

HC-CARGO 136886.


**237892** Solenoid Cap

Servicing: 428000-1620

OD 52.25, Switch dim. 4.50, Coil bolt M8, Coil bolt 2 10.50, No./terminals 3





### 237978 Solenoid Cap

Servicing: 428000-0680, 428000-0700, 428000-0701, 428000-0720, 428000-3180, 428000-7710  
ID 40.00, OD 52.60, Switch dim. 4.35,  
Coil bolt M8, Coil bolt 2 9.30,  
No./terminals 3, Bracket type Crimp



### 239076 Solenoid Cap

Servicing: 428000-1640  
OD 51.40, Switch dim. 4.30, Coil bolt M8,  
Coil bolt 2 10.00, No./terminals 3



### 331957 Solenoid Cap

Servicing: 428000-1760  
ID 39.82, OD 52.13, Switch dim. 13.50,  
Coil bolt M8, Coil bolt 2 10.50,  
No./terminals 3, Bracket type Crimp



### 334028 Solenoid Cap

ID 45.60, OD 48.20, No./terminals 3

### Moving Contacts



### 131830 Contact Kit

Replacing: 28017-19500  
Servicing: 028000-4550, 028000-5120,  
028000-6030, 028000-6031, 028000-6040,  
028000-6041, 028000-6620  
ID 8.20, Material Copper, Shaft w/o



### 131831 Contact Kit

Replacing: 28017-19502  
Servicing: 028000-4340, 028000-4341,  
028000-4343, 028000-5730, 028000-5800,  
028000-5900, 028000-5910  
ID 8.00, Thickness 2.50,  
Material Copper, Shaft w/o



### 131832 Contact Kit

Replacing: 28017-19512  
Servicing: 028000-5530, 028000-5581,  
028000-5620, 028000-5860, 028000-5861,  
028000-5862, 028000-5863  
ID 10.00, Material Copper, Shaft w/o



### 131833 Contact Kit

Servicing: 128000-1790  
ID 10.15, Material Copper, Shaft w/o



### 132564 Contact Kit

Replacing: 028099-2790, 028099-2791,  
028099-3780, 028099-3781, 028099-7100,  
028099-7120, 028099-7140  
Servicing: 028000-5300, 028000-5301,  
028000-5510, 028000-5511  
ID 2.50



### 132565 Contact Kit

Replacing: 028099-3160  
Servicing: 028000-4800, 028000-5000,  
028000-5300, 028000-5301, 028000-5510,  
028000-5511, 028000-5530  
ID 8, Thickness 3.00



### 132567 Contact Kit

Replacing: 028099-2680, 028099-2820,  
028099-3030, 028099-3031, 028099-3860,  
028099-8672, 028099-8701  
Servicing: 028000-3641, 028000-3642,  
028000-4343, 028000-4450, 028000-4990,  
028000-5060, 028000-5190



### 132568 Contact Kit

Replacing: 028099-2920, 028099-2921,  
028099-3010, 028099-3020, 028099-3390,  
028099-3399, 028099-6820  
Servicing: 028000-3641, 028000-3642,  
028000-4323, 028000-4340, 028000-4341,  
028000-4343, 028000-4450  
Length 29.80, Shaft dim. 26.80,  
Thickness M8, Material Copper



### 133599 Contact Kit

Replacing: 028099-3170  
Servicing: 128000-3080, 128000-3081,  
128000-3082, 128000-3512, 128000-3513,  
128000-3514, 228000-1671









**230004** Contact Kit  
ID 8.10, Length 16.00, Thickness 2.50,  
Width 17.00, Material Copper



**230744** Contact Kit  
Replacing: 028099-2520, 028099-6390,  
028099-6400, 028099-6401, 028099-6410,  
028099-6411, 028099-6420  
Servicing: 128000-5731, 128000-5732,  
228000-7902, 428000-0190, 428000-2370  
Shaft dim. M12  
24 V. 5.5 kW.



**232982** Contact Kit

Pkg. 5



**233077#** Contact Plate  
Servicing: 053660-7120, 053660-7150  
ID 17.50, OD 34.80, Thickness 2.00,  
Material Copper



**233081** Contact Kit  
Servicing: 128000-7380



**233168** Contact  
ID 8.20, Length 24.95



**233689** Contact Kit  
Replacing: 028099-7520, 028099-8911,  
028099-8940  
Servicing: 428000-0500, 228000-3282,  
228000-3283, 428000-0570, 428000-2720,  
428000-2730, 428000-5470  
Length 37.65, Shaft dim. M8, Thickness 8.70  
12 V. 1.4 kW.



**234352** Contact Kit

Pkg. 5



**235638** Contact  
Servicing: 028000-7000, 028000-8370,  
228000-0450  
Length 21.90, Thickness 2.45,  
Width 15.50, Material Copper, Shaft w/o

Pkg. 5



**237893** Moving Contact  
Servicing: 428000-0720, 428000-1620  
OD 2 8.20, Length 24.50, Thickness 1.60,  
Width 26.50, Material Copper, Shaft w/

Pkg. 5



**237979** Moving Contact  
Servicing: 428000-0701, 428000-0680,  
428000-0700, 428000-0720, 428000-3180  
OD 2 8.15, Length 24.25, Thickness 1.60,  
Width 12.50, Material Copper

Pkg. 5



**331958** Moving Contact  
Servicing: 428000-3372, 428000-1760, 428000-3370  
OD 2 8.15, Length 23.00, Thickness 1.50,  
Shaft dim. 23.82, Width 11.49, Shaft w/

### Fixed Contacts

Pkg. 10



**139640** Fixed Contact  
Servicing: 228000-5641, 228000-5650,  
228000-5651, 228000-5652, 428000-2631  
Total length 45.70, Length/rear collar 42.00,  
Thread length 24.20, Thread size M10  
Cobber plated.

Pkg. 10



**139641#** Fixed Contact  
Servicing: 228000-1180, 228000-3980,  
228000-5641, 228000-5650, 228000-5651,  
228000-5652, 428000-2631  
Total length 32.60, Length/rear collar 29.00,  
Thread length 20.00, Thread size M10  
Flat head





### 139642 Fixed Contact

**Servicing:** 128000-9951, 228000-0971, 228000-2961, 228000-3282, 228000-3283, 228000-3620, 228000-3621

**Total length** 27.71, **Length/rear collar** 24.28, **Thread length** 14.27, **Thread size** M8, **Countersink** No, **Shaft** w/o, **Washer** w/o

Pkg. 10



### 233066 Fixed Contact

**Servicing:** 428000-0570, 428000-2720, 428000-2730, 428000-5470, 428000-0250, 428000-4841

**Total length** 37.00, **Length/rear collar** 33.30, **Thread length** 19.05, **Thread size** M8

Pkg. 10

### Various



### 131834 Terminal Switch

**Replacing:** 053480-0100, 053480-0380, 053480-7220, 053480-7320, 053480-7430

**Servicing:** 028000-4323, 028000-4540, 028000-5530, 028000-5620, 028000-5800, 028000-5900

Pkg. 5



### 131835 Terminal Switch

**Replacing:** 053480-0090

**Servicing:** 028000-5060, 028000-5821, 028000-5822, 028000-5991, 028000-5992, 028000-6440, 028000-6570

**Thread length** 7.50, **Thread size** M4

Pkg. 5



### 132563 Plunger

**Replacing:** 053660-0401, 053660-0402, 053660-0440, 053660-0441, 053660-0442, 053660-7100, 053660-7250

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4340, 028000-4341, 028000-4343

**OD** 36.80, **Length** 96.77



### 132570 Plunger

**Replacing:** 021660-0440, 021660-0441, 021660-0442, 053660-0443, 053660-0660, 053660-7111, 053660-7170

**Servicing:** 028000-4800, 028000-5000, 028000-5300, 028000-5301, 028000-5510

**OD** 39.80, **Length** 119.20

Pkg. 5



### 132705 Terminal Switch

**Replacing:** 053480-0110

**Servicing:** 028000-4800, 028000-5120, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530

**ID** 8.20, **OD** 4.20, **Length** 29.00, **Shaft dim.** M5, **Width** 2.50

Pkg. 10



### 132725 Insulator

**Servicing:** 028000-4340, 028000-4341, 028000-4343, 028000-4550, 028000-5730, 028000-5900, 028000-5910

**ID** 11.40, **OD** 21.90, **Height** 6.00, **Collar** w/o, **Gasket** w/o, **O-ring** w/o

Pkg. 5



### 132870 Terminal

**Servicing:** 128000-2570, 128000-2580, 128000-3500, 128000-4960, 128000-5270, 128000-5280, 128000-7500

**Total length** 27.50, **Thread length** 7.00, **Thread size** M4

Pkg. 5



### 132878 Gasket

**Replacing:** 053404-0210, 053404-0320

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4343, 028000-4450, 028000-4540

**ID** 52.40, **ID/mount. hole** 7.50, **OD** 61.40, **Thickness** 2.85, **Mount. holes** 3, **Material** Rubber

Pkg. 5



### 132879 Gasket

**Replacing:** 053404-0240

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531

**ID** 61.35, **ID/mount. hole** 7.90, **OD** 70.90, **Thickness** 1.95, **Mount. holes** 3, **Material** Rubber

Pkg. 5



### 132897 Terminal Switch

**Servicing:** 028000-4340, 028000-4341, 028000-4343, 028000-5910, 028000-5911, 028000-8440, 228000-5382



Pkg. 10



### 134496# Insulator

Servicing: 028000-5730, 028000-5900,  
028000-5910, 028000-5911, 028000-5912,  
028000-6250, 028000-7000

ID 8.00

Pkg. 5



### 135167 Insulator

Servicing: 028000-5300, 028000-5581,  
028000-5860, 028000-5861, 028000-5862,  
028000-5863, 028000-5864

Pkg. 5



### 135168 Insulator

Servicing: 028000-5300, 028000-5581,  
028000-5860, 028000-5861, 028000-5862,  
028000-5863, 028000-5864

Pkg. 10



### 135313 Terminal Switch

Replacing: 053480-7300

Servicing: 028000-6250, 028000-7830,  
028000-8570, 028000-8581, 028000-9800,  
128000-8310, 128000-8311

Pkg. 5



### 135342 Spring

Replacing: 053659-7060, 949170-3380,  
949170-9770

Servicing: 028000-3641, 028000-3642,  
028000-4323, 028000-4343, 028000-4450,  
028000-4512, 028000-4540

ID 5.25, OD 7.00, Length 62.00,  
Material Steel  
1.0/2.2 kW.

Pkg. 5



### 135343# Spring

Replacing: 053659-7070

Servicing: 128000-7390, 128000-8310,  
128000-8311, 128000-8312, 128000-8400,  
128000-9710, 128000-9720

ID 5.20, OD 7.35, Length 89.60,  
Material Steel  
2.5 kW.

Pkg. 10



### 135650 Terminal Switch

Replacing: 053480-0430, 053480-0431

Servicing: 028000-5730, 128000-0710,  
128000-0740, 128000-0790, 128000-1151,  
128000-3410, 128000-6360



### 135865 Plunger

Replacing: 053660-7050, 053660-7051

Servicing: 128000-3470, 128000-3471,  
128000-3472, 128000-3480, 128000-3481,  
128000-3482, 128000-5941

OD 36.80, Length 123.00



### 136374 Plunger

Replacing: 053660-7120, 053660-7121,  
053680-7120

Servicing: 128000-7002, 128000-7120,  
128000-7122, 128000-7140, 128000-7500,  
128000-7560, 128000-7713

OD 34.80, Length 96.50



### 136901 Plunger

Replacing: 053660-7150, 053660-7151

Servicing: 128000-7390, 128000-8310,  
128000-8311, 128000-8312, 128000-8400,  
128000-9710, 128000-9720

OD 35.00, Length 126.50



### 137204 Terminal Switch

Replacing: 053480-7510, 053480-7550,  
053480-7670

Servicing: 228000-0580, 228000-0780,  
228000-0910, 228000-1100, 228000-1110,  
228000-1690, 228000-2020

OD 9.16, Length 34.30, Width 10.00,  
Material ABS plastic

Pkg. 5



### 138608 Spring

Replacing: 949170-4070

Servicing: 028000-4800, 028000-5300,  
028000-5301, 028000-5510, 028000-5511,  
028000-5530, 028000-5531

ID 5.40, OD 7.20, Length 72.80,  
Material Steel

Pkg. 5



### 230221 Plunger

Replacing: 053660-7240, 053660-7241

Servicing: 028000-7002, 028000-7003,  
028000-7004, 228000-2120, 228000-2680,  
228000-2690, 228000-2700

OD 36.80, Length 96.70





Pkg. 5

### 230898 Terminal Switch

Replacng: 053480-7790

Servicing: 228000-3640, 228000-3680, 228000-4980, 228000-6020, 228000-6100, 228000-6270, 228000-6271

Length 34.90



Pkg. 5

### 231427 Terminal Switch

ID 8.20, OD 3.65, Length 29.00, Shaft dim. M4



Pkg. 5

### 231626 Terminal Switch

Replacng: 053480-7900, 053480-7901, 053480-7950

Servicing: 228000-4930, 228000-5340, 228000-5980, 228000-5990, 228000-7000, 228000-8180, 428000-0290

Length 35.45, Shaft dim. M8



### 231733 Plunger Boot

Replacng: 053665-7090

Servicing: 128000-2680, 128000-2682, 128000-3250, 128000-3251, 128000-3260, 128000-3261, 128000-4030

ID 11.45, OD 33.00, Length 15.30



Pkg. 10

### 233097 Terminal

Servicing: 128000-4910, 128000-7600, 128000-7601, 128000-7602, 128000-7603, 128000-7604

Total length 34.65, Thread length 14.35, Thread size M5



### 233374 Plunger

OD 39.60, Length 119.20



### 233375 Plunger

Replacng: 053660-7270, 053660-7271

Servicing: 228000-5860, 228000-5861, 228000-5862

OD 36.50, Length 125.60



### 336428 Plunger

OD 24.60, Length 93.60, Fork lever w/

## Solenoid Assy's

### 12 V



### 230574 Solenoid Assy

Replacng: 053400-3470, 053400-7300, 053400-7301, 153400-2320

Servicing: 028000-5870, 028000-5871, 028000-5871, 028000-6290

12 Volt, 2.5 kW, B+ M10, OD 71.40, Total length 142.80, Height/B+ 16.00, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 9.20



### 230576 Solenoid Assy

Replacng: 053400-1970, 053400-2790, 053400-3060, 053400-3061, 053400-3062, 053400-3080, 053400-3081

Servicing: 028000-5371, 028000-5560, 028000-5561

12 Volt, 2.5-2.7 kW, B+ M10, OD 71.45, Total length 140.40, Height/B+ 15.75, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 10.00



### 230578 Solenoid Assy

Replacng: 153400-2240

Servicing: 028000-6250, 128000-9730, 228000-1070, 128000-9740, 228000-4390, 228000-4391, 228000-4392

12 Volt, 1.4 kW, B+ M8, OD 60.65, Total length 94.30, Height/B+ 11.40, Coil bolt M8, Coil bolt 2 8.35



### 230582 Solenoid Assy

Replacng: 153400-0740, 153400-1340, 153400-1880, 153400-1890, 153400-2250, 153400-6520

Servicing: 128000-9300, 128000-9520, 228000-0340, 228000-2090, 228000-2572, 228000-0980, 228000-1530

12 Volt, 1.4 kW, B+ M8, OD 60.20, Total length 94.40, Height/B+ 11.40, Coil bolt M8, Coil bolt 2 8.00



### 230827 Solenoid Assy

Replacng: 053400-4753, 053400-4754, 153400-1371, 153400-1400

Servicing: 028000-7370, 028000-7372, 028000-7373, 028000-8140

12 Volt, 2.0 kW, B+ M8, OD 63.30, Total length 122.35, Height/B+ 13.35, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.45





### 233703 Solenoid Assy

Replacing: 153400-0331, 153400-0332, 153400-2230, 153400-4140

Servicing: 128000-8320, 128000-8321, 128000-8322, 228000-1000, 228000-1020, 228000-1080, 228000-6321

12 Volt, 1.4 kW, B+ M8, OD 60.00, Total length 101.40, Height/B+ 17.15, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.80



### 234143 5★ Solenoid Assy

Manufacturer: Denso

Replacing: 153400-4291, 153400-4292, 153400-4293

Servicing: 228000-5020, 228000-5021, 228000-5022, 228000-5023

12 Volt, 2.2 kW, B+ M8, OD 62.30, Total length 121.40, Height/B+ 11.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 7.85



### 234419 Solenoid Assy

Replacing: 153400-3831

Servicing: 228000-1180, 228000-3980, 228000-3981, 228000-4960, 228000-4961, 228000-7220

12 Volt, 1.8 kW, B+ M8, OD 62.00, Total length 94.60, Height/B+ 11.40, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.30, Seconds 1.8



### 234960 Solenoid Assy

Replacing: 153400-2540

Servicing: 228000-2120, 228000-2121, 228000-2690, 228000-8970, 228000-8971, 228000-8972, 228000-2122

12 Volt, B+ M8, ID/cover 72.00, Total length 94.00, Height/B+ 9.00, Terminal 50 M5-6.30, Coil bolt M8, Coil bolt 2 8.50, No./mount. holes 2, No./terminals 3



### 235098 5★ Solenoid Assy

Manufacturer: Denso

Replacing: 153400-4531, 153400-4532

Servicing: 228000-4930, 228000-5340, 228000-5341, 228000-5342, 428000-0290,

12 Volt, 2.7 kW



### 235859 Solenoid Assy

Replacing: 153400-2430

Servicing: 228000-1830, 228000-1832

24 Volt, B+ M8, Total length 159.00, Height/B+ 15.00, Terminal 50 M4S, Coil bolt M8, No./mount. holes 3, No./terminals 1, Bracket type Bracket

#### 24 V



### 137566 Solenoid Assy

Replacing: 053400-2600, 053400-2950, 053400-3940, 053400-4540, 053400-4700, 053400-4850, 053400-8110

Servicing: 028000-5300, 028000-5301

24 Volt, 4.5 kW, B+ M10, OD 71.35, Total length 141.80, Height/B+ 15.30, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 8.00



### 233453 Solenoid Assy

Servicing: 228000-7550, 228000-7551

24 Volt, 5.5 kW, B+ M10, OD 71.00, Terminal 50 M5

By assembling 233453, use 3 pcs. of 192594.



### 233454 Solenoid Assy

24 Volt, 4.5 kW, B+ M10, OD 72.00, Total length 142.50, Height/B+ 17.75, Terminal 50 M5, Coil bolt M10, Coil bolt 2 10.10



### 234681 Solenoid Assy

Replacing: 053400-9410, 053400-9411, 053400-9412

Servicing: 128000-5731, 128000-5732, 128000-5733, 128000-5730

24 Volt, 5.5 kW, B+ M10, Height/B+ 20.80, Terminal 50 9.40

#### Drives



### 130441 Drive

Replacing: 028000-0085, 028300-0085, 028300-0611, 028300-0630, 028300-0700, 028300-0800, 028300-0801

Servicing: 028000-0197, 028000-1010, 028000-1011, 028000-1013

ID 12.50, OD 29.15, OD/housing 46.25, Total length 86.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130442 Drive

Replacing: 028300-0660, 028300-0900, 028300-0901, 028300-0911, 028300-1930, 028300-1950, 028300-1951

Servicing: 028000-0370, 028000-0430, 028000-1370, 028000-1620, 028000-2260, 028000-2261

ID 12.55, OD 29.15, OD/housing 46.30, OD/teeth 29.15, Total length 82.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o





### 131110 Drive

**Replacing:** 028300-0851, 028300-1020, 028300-1540, 028300-1542, 028300-5900, 28011-22020

**Servicing:** 028000-1850, 028000-2150, 028000-2151, 028000-2240, 028000-2241, 028000-3500, 028000-3501

ID 12.55, OD 29.10, OD/housing 46.25, Total length 64.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132004 Drive

**Replacing:** 028099-2940, 028099-3800, 028300-1600, 028300-1601, 028300-1602, 028300-1603, 028300-1790

**Servicing:** 028000-3641, 028000-3642, 028000-4020, 028000-4243

OD 29.00, Total length 102.40, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132545 Drive

**Replacing:** 028300-0830, 028300-0831, 028300-1670, 028300-1740, 028300-5810

**Servicing:** 028000-2970, 028000-3730, 028000-4790, 028000-4840, 028000-5270, 028000-5350, 028000-5360

ID 12.50, OD 29.00, OD/housing 46.00, Total length 86.00, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 132547 Drive

**Replacing:** 028300-4320

**Servicing:** 028000-9470, 028000-9490, 028000-9500, 028000-9501, 128000-3610, 128000-3621, 128000-5650

ID 12.50, OD 24.50, OD/housing 46.00, Total length 82.00, Splines A 10, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o



### 132634 Drive

**Replacing:** 028300-1230, 028300-1280, 028300-1660

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3650

ID 17.00, OD 40.00, OD/housing 60.00, Total length 101.85, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o 12 V. 4.0 kW.



### 132863 Drive

**Replacing:** 028300-1840, 028300-1841, 028300-1842

**Servicing:** 028000-5060, 028000-6440, 028000-7000, 028000-7001, 028000-7002, 028000-7003

OD 32.00, Total length 102.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132942 Drive

**Replacing:** 028300-1730, 028300-2010, 028300-2011, 028300-2012, 028300-2070, 028300-3950, 028300-3952

**Servicing:** 028000-4800, 028000-5300, 028000-5301

OD 40.15, OD/housing 58.20, Total length 146.60, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 133441 Drive

**Replacing:** 028300-3880, 028300-4471

**Servicing:** 028000-8040, 028000-8041, 028000-9430, 128000-0350, 128000-1290

ID 12.50, OD 28.00, OD/housing 46.00, Total length 82.00, Splines A 10, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o



### 133631 Drive

**Replacing:** 028300-3570, 028300-3571, 028300-4410, 028300-5180, 028300-6670

**Servicing:** 028000-9361, 128000-0461, 128000-1070, 128000-1311, 128000-1620, 128000-2170, 128000-2421

ID 12.50, OD 28.00, OD/housing 46.00, Total length 82.00, Splines A 10, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 133712 Drive

**Replacing:** 028300-4390, 028300-5850

**Servicing:** 028000-9900, 028000-9901, 028000-9902, 128000-0600, 128000-2860, 128000-2861, 228000-3380

ID 12.55, OD 28.00, OD/housing 47.00, Total length 59.55, Splines A 10, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 133714 Drive

**Manufacturer:** Denso

**Replacing:** 028300-3970

**Servicing:** 028000-8411, 128000-2950, 128000-5290

ID 12.00, OD 29.90, OD/housing 47.00, Total length 33.60, No./teeth 14, Key spline w/o, Lock w/o



### 133805 Drive

**Replacing:** 028300-5040, 028300-5820

**Servicing:** 128000-3090, 128000-3091, 128000-4180, 128000-4270, 128000-6660, 128000-6670, 128000-7580

ID 11.00, OD 28.00, OD/housing 41.00, Total length 53.55, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o





### 135002 Drive

Replacing: 028300-3340, 028300-3810, 028300-6700

Servicing: 028000-6260, 028000-6261, 028000-6570, 028000-8430, 028000-8432, 028000-9030, 028000-9031

OD 34.00, Total length 102.55, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 135445 Drive

Replacing: 028300-3460

Servicing: 028000-7110, 128000-2640, 128000-8670, 128000-1360, 128000-2660, 128000-3730, 128000-8660

ID 12.60, OD 26.65, OD/housing 47.00, Total length 82.00, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 135651 Drive

Replacing: 028300-5800

Servicing: 128000-4030, 128000-4031, 128000-4040, 128000-4050, 128000-4060, 128000-4070, 128000-4130

ID 11.00, OD 28.00, OD/housing 41.00, Total length 75.30, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o



### 136086 Drive

Replacing: 028300-6070, 028300-6960

Servicing: 128000-2680, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6340

ID 11.00, OD 29.00, OD/housing 43.30, Total length 53.65, Splines A 5, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o Clutch O.D. 43.50 mm. Alternative no.: 335401



### 136315 Drive

Replacing: 028300-1810, 028300-1811, 028300-1812

Servicing: 028000-5000, 028000-7730, 028000-7731, 028000-7732

OD 35.00, Total length 145.75, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 136447 Drive

Replacing: 028090-6580, 028099-6580

Servicing: 228000-0821, 228000-0822, 228000-0823, 228000-0831, 228000-0832, 228000-6172, 228000-6173

OD 40.65, Total length 110.00, Splines A 10, No./teeth 13, Rotation CCW, Key spline w/o, Lock w/o



### 136795 Drive

Replacing: 028300-4000, 028300-4091, 028300-8020

Servicing: 028000-8370, 028000-8371, 028000-8440, 128000-5760, 228000-0380, 228000-0381

OD 35.35, Total length 102.60, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 136796 Drive

Replacing: 028300-1970, 028300-4011, 028300-4081, 028300-4082

Servicing: 028000-8451, 028000-8611, 028000-8612, 028000-8980, 128000-0550

OD 37.80, OD/housing 53.80, Total length 102.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 136899 Drive

Replacing: 028300-6710

Servicing: 128000-6420, 128000-6421, 128000-6422, 228000-5710

ID 11.00, OD 27.50, OD/housing 44.00, Total length 53.35, Splines A 5, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 137293 Drive

Replacing: 028099-2700

Servicing: 028000-7370, 028000-7372, 028000-7373, 028000-7660, 028000-7661, 028000-7662, 028000-8760

OD 40.00, Total length 102.00, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 137751 Drive

Replacing: 028300-6680

Servicing: 128000-6210, 128000-6211, 128000-6212, 128000-9220, 128000-9470, 228000-1550, 228000-6620

ID 11.00, OD 28.00, OD/housing 43.45, Total length 53.50, Splines A 5, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 137753 Drive

Replacing: 028300-6990, 028300-7170, 028300-7980, 028300-7990, 028300-8350

Servicing: 128000-7002, 128000-7122, 128000-7560, 128000-7714, 128000-8210, 128000-8360, 128000-8784

OD 29.00, Total length 83.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o Alternative no.: 137753z





### 137753Z Drive

Replacng: 028300-6990, 028300-7170, 028300-7980, 028300-7990, 028300-8350  
OD 29.10, OD/housing 53.50, OD/teeth 29.10, Total length 83.00, Shaft length 83.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 137753



### 137950 Drive

Replacng: 028300-6860  
Servicing: 128000-7140, 128000-7500, 128000-8030, 128000-9380, 228000-8430, 228000-8431, 228000-8432  
OD 29.35, Total length 83.15, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 137952 Drive

Replacng: 028300-7720  
Servicing: 228000-0470, 228000-7640, 228000-7641, 228000-9680, 428000-2220, 228000-0471, 228000-0472  
OD 28.00, Total length 83.20, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 138137 Drive

Replacng: 028300-1380, 028300-1381, 028300-1382, 028300-1383, 028300-1384, 028300-1385, 028300-1386  
Servicing: 028000-3611, 028000-7480, 028000-7481  
ID 12.40, OD 34.15, OD/housing 46.00, Total length 82.20, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 138566 Drive

Replacng: 028300-2040, 028300-5650, 028300-5651, 028300-5670, 028300-5671, 028300-7802  
Servicing: 028000-5880, 128000-2740, 128000-4220, 128000-4910, 128000-3120, 428000-0190  
OD 39.50, OD/housing 59.00, OD/teeth 39.50, Total length 146.00, Splines A 10, No./teeth 13, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 138567 Drive

Replacng: 053400-4731, 128099-5160  
Servicing: 028000-6460, 028000-6462, 028000-6463, 128000-8620, 128000-8621, 228000-1600, 228000-1601  
OD 45.00, Total length 146.00, Splines A 10, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o



### 138956 5+ Drive

Manufacturer: Denso  
Replacng: 028300-6880  
Servicing: 128000-7110  
ID 11.00, OD 35.50, OD/housing 41.45, Total length 75.50, Splines A 5, No./teeth 11, Rotation CCW, Key spline w/o, Lock w/o



### 139244 Drive

Replacng: 028300-7270, 028300-7760  
Servicing: 128000-7810, 228000-1560, 228000-3390, 228000-7420  
OD 33.00, OD/housing 53.50, Total length 83.40, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 139653 Drive

Replacng: 028300-7700, 028300-7790, 028300-8150  
Servicing: 128000-9860, 128000-9870, 128000-9871, 128000-9872, 128000-9880, 228000-1900, 228000-2121  
OD 37.50, Total length 83.20, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 139845 Drive

Replacng: 028300-7920  
Servicing: 228000-1020, 228000-1030, 228000-1080, 228000-1021, 228000-1022  
OD 33.95, Total length 83.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 230856 5+ Drive

Manufacturer: Denso  
Replacng: 028300-7940  
Servicing: 228000-0990, 228000-1060, 228000-1530, 228000-3660, 228000-7520, 228000-7800, 228000-7801  
OD 29.40, OD/housing 54.00, OD/teeth 29.20, Total length 83.20, No./teeth 9, Rotation CW



### 233398 Drive

Replacng: 028300-6840, 028300-7530  
Servicing: 128000-5330, 128000-5331, 128000-7020, 128000-7170, 128000-7172, 128000-7174, 228000-2370  
ID 17.00, OD 40.00, OD/housing 60.00, Total length 104.40, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o





### 233451 Drive

Replacng: 028300-3690, 028300-3691, 028300-5450, 028300-6690, 028300-6691, 028300-6692

Servicing: 028000-6780, 128000-2560, 228000-0630, 228000-7380, 128000-8290, 228000-1350, 228000-1420

OD 40.00, OD/housing 57.90, Total length 147.00, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW  
Alternative no.: 333753



### 233456 Drive

Replacng: 028300-7610, 028300-7680, 028300-7860, 028300-8100

Servicing: 128000-9700, 128000-9701, 228000-2050, 228000-2051, 228000-2260, 228000-3990, 228000-3991

OD 29.00, OD/housing 42.00, Total length 82.90, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 233641 Drive

Replacng: 028300-8011, 128300-0090

Servicing: 228000-1770, 228000-1771, 228000-1772, 228000-4930, 228000-5220, 228000-5340, 228000-5650

OD 39.85, Total length 146.50, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 233642# Drive

Servicing: 228000-1180, 228000-3980, 228000-3981, 228000-4960, 228000-4961

OD 34.40, Total length 83.25, Splines A 10, No./teeth 11, Rotation CCW, Key spline w/o, Lock w/o



### 234230 Drive

Replacng: 028300-5720

Servicing: 128000-3540, 128000-5500, 128000-7050, 128000-9360, 228000-2210, 228000-9180

ID 11.10, OD 29.00, OD/housing 41.00, Total length 53.65, Splines A 5, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 234402 Drive

Replacng: 028300-5400

Servicing: 128000-2610, 128000-2611, 128000-3530, 128000-3531, 128000-4561, 128000-9980, 228000-4620

ID 11.00, OD 29.15, OD/housing 41.00, Total length 53.50, Splines A 5, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 234720 Drive

Replacng: 028300-7660, 028300-7661

Servicing: 128000-9970, 128000-9971

OD 55.40, Total length 146.40, Shaft length/D.E. house 73.30, No./teeth 11, Rotation CW



### 234911 Drive

Replacng: 128099-5350

Servicing: 228000-5860, 228000-5861, 228000-5862

OD 40.75, OD/housing 53.60, Total length 109.00, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 234970 Drive

Replacng: 028300-6010

Servicing: 128000-1870, 128000-4870, 128000-7480, 228000-0120, 228000-2640, 228000-7990, 228000-9261

ID 13.00, OD 28.85, OD/housing 40.75, Total length 75.00, Splines A 5, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 234984 Drive

Replacng: 081020-0011

ID 14.00, OD 39.44, OD/housing 62.12, Total length 82.88, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 235101 Drive

Servicing: 228000-7220

OD 35.45, Total length 83.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 235497 Drive

Replacng: 028300-8160

Servicing: 228000-2550

ID/ clutch end 13.50, OD 53.60, Total length 83.00, No./splines 18, No./teeth 40





### 237379 Drive

Servicing: 428000-3361, 428000-3371, 428000-3372, 428000-4500, 428000-4550, 428000-0670, 428000-0680

ID 11.00, OD 28.80, OD/housing 46.00, Total length 43.25, Splines A 10, No./teeth 9, Rotation CW



### 237880 Drive

Servicing: 428000-1620

ID 12.10, OD 32.50, OD/housing 48.65, OD/teeth 32.48, Total length 50.50, Splines A 10, No./teeth 12, Rotation CW



### 237990 Drive

Servicing: 428000-0720

ID 12.00, OD 35.50, OD/housing 47.00, Total length 50.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 239557 Drive

Replacing: 028300-8870

Servicing: 228000-6450, 228000-6680, 428000-3410, 428000-5000, 428000-5001, 428000-5280, 428000-5410

ID 11.00, OD 29.28, OD/housing 44.28, Total length 64.62, Splines A 5, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 330651 Drive

Servicing: 428000-4920, 428000-3180

ID 12.00, OD 38.85, OD/housing 49.60, OD/teeth 38.85, Total length 50.60, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 330938 Drive

Servicing: 428000-1280

OD 34.10, OD/housing 53.84, Total length 82.92, Splines A 10, No./teeth 9, Rotation CW



### 332369 Drive

Servicing: 428000-4600, DSN967, 428000-5510, 428000-5511

ID 11.00, OD 31.96, OD/housing 44.84, OD/teeth 31.96, Total length 42.99, Splines A 10, No./teeth 12, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 333753 Drive

Replacing: 028300-3690, 028300-3691, 028300-5450, 028300-6690, 028300-6692

ID 9.00, OD 39.90, OD/housing 58.00, Total length 146.65, No./teeth 10, Drive type Steel, Rotation CW, Alternative no.: 233451



### 333836 Drive

Replacing: 028300-9541

Servicing: 428000-0340, 428000-0341, ID 11.00, OD 32.00, OD/housing 44.50, OD/teeth 32.00, Total length 43.20, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW



### 334408 Drive

Servicing: 428000-6760, 438000-0494

ID 11.00, OD 40.00, OD/housing 44.90, OD/teeth 40.00, Total length 58.70, Splines A 10, No./teeth 13, Rotation CW



### 335130 Drive

Replacing: 028300-9160

Servicing: 228000-8090

ID 11.00, OD 38.70, OD/housing 41.70, Total length 64.50, Splines A 5, No./teeth 13, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335201 Drive

Servicing: 428000-6190, 428000-6191

ID 11.00, OD 34.00, OD/housing 44.70, Total length 43.40, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW





**335401** Drive  
 Replacing: 028300-6960  
 ID 11.00, OD 29.25, OD/housing 43.70,  
 Total length 54.00, No./teeth 9,  
 Drive type Steel, Rotation CW  
 Alternative no.: 136086



**335578** Drive  
 Replacing: 69-74-65  
 Servicing: 438000-0200, 438000-0201,  
 438000-0202, 36100-03301  
 ID 12.00, OD 34.10, OD/housing 49.00,  
 Total length 43.00, Splines A 8,  
 No./teeth 13, Drive type Steel,  
 Rotation CW, Lock w/o

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**337567** Drive  
 Servicing: 428000-9140  
 ID 11.00, OD 38.20, OD/housing 44.90,  
 OD/teeth 38.20, Total length 73.30,  
 Splines A 10, No./teeth 15, Rotation CCW

### Drive Parts

### Caps



**134204** Drive Cap  
 Servicing: 428000-4051, 428000-5410,  
 428000-3420  
 ID 42.65, OD 44.60, Height 17.00



**134206** Drive Cap  
 Servicing: 428000-6760, 428000-4490,  
 428000-8862  
 ID 43.80, OD 45.55, Height 20.85



**233382** Drive Cap  
 ID 40.25, OD 41.20, Height 15.60

### Rollers



**132885** Roller  
 Replacing: 028306-0070  
 Servicing: 028000-4800, 028000-5300,  
 028000-5510, 028000-5530, 028000-5541,  
 028000-5570, 028000-5581  
 OD 7.65, Length 12.90  
 Plastic cage: HC-CARGO 135474.



**132896** Roller  
 Replacing: 028306-0061  
 Servicing: 028000-3641, 028000-3642,  
 028000-4323, 028000-4340, 028000-4341,  
 028000-4343, 028000-4450  
 OD 6.00, Length 9.50



**134213** Roller  
 Servicing: 228000-9252, 428000-4051, 428000-5410  
 OD 5.00, Length 8.00



**134248** Roller  
 OD 7.65, Length 12.95



**134922** Roller  
 OD 7.00, Length 11.65

### Springs



**134268** Dp Springs  
 ID 4.45, OD 7.15, Length 13.15,  
 Material Steel



**134269** Dp Springs  
 ID 4.40, OD 5.65, Length 21.25,  
 Material Steel





### 135344 Spring

Replacing: 949170-4260

Servicing: 028000-3641, 028000-3642, 028000-4323, 028000-4343, 028000-4450, 028000-4540, 028000-4940

ID 13.35, OD 16.10, Length 60.75, Material Steel

Pkg. 5



### 135362 Dp Springs

Length 14.15, Height 12.65, Width 6.00, Material Steel

Pkg. 100



### 137858 Spring

Replacing: 128953-0050, 949170-3371

Servicing: 028000-6280, 128000-3471, 128000-3472, 128000-3481, 128000-3482, 128000-5941, 128000-5942

ID 13.30, OD 16.15, Length 11.00, Material Steel

Pkg. 5



### 137859# Pinion Spring

Replacing: 949170-4030

Servicing: 128000-8620, 128000-8621, 228000-1600, 228000-1601, 228000-1610, 228000-1611, 428000-0290

ID 11.40, OD 16.60, Length 16.45, Material Steel

### Pinion



### 132043 Pinion

Replacing: 028099-3080, 028099-3090, 028099-5580

Servicing: 028000-3641, 028000-3642, 028000-4020, 028000-4243, 028000-4250, 028000-4323, 028000-4340

ID 11.15, OD 29.15, Height 25.20, No./splines 18, No./teeth 9, Bushing w/o



### 132044 Pinion

Replacing: 028099-3400

Servicing: 028000-5060, 028000-6440, 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7351

ID 11.75, OD 32.20, Height 23.35, Height/collar 6.25, No./splines 18, No./teeth 9, Bushing w/o



### 132405 Pinion

Replacing: 028099-3310, 028099-5460

Servicing: 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5520, 028000-5530

ID 16.90, OD 40.00, Height 36.00, No./splines 16, No./teeth 11, Bushing w/o



### 132566 Pinion

Replacing: 028099-3930, 028371-2240

Servicing: 028000-7370, 028000-7372, 028000-7373, 028000-7660, 028000-7661

ID 17.00, OD 40.00, Height 23.55, Height/collar 6.70, No./splines 18, No./teeth 11, Bushing w/o



### 132865 Pinion

Replacing: 028099-3230, 028099-3290

Servicing: 028000-5880, 028000-7800, 028000-7801, 028000-7802, 128000-0210, 128000-0540, 128000-2270

ID 16.90, OD 39.60, Height 36.00, No./splines 16, No./teeth 13, Bushing w/o



### 132866# Pinion

Replacing: 028099-6260, 028099-6300, 028371-5390

Servicing: 428000-0090, 128000-4950, 128000-5430, 128000-9380

ID 11.80, OD 28.90, Height 25.00, Height/collar 6.80, No./splines 18, No./teeth 11, Bushing w/o



### 132950 Pinion

Replacing: 028099-5560

Servicing: 028000-5730, 028000-5800, 128000-0710, 128000-0720, 128000-2070, 128000-7300, 228000-0111

ID 11.65, OD 44.00, Height 23.60, Height/collar 5.40, No./splines 18, No./teeth 15, Bushing w/o



### 133353 Pinion

Replacing: 028099-3270, 128099-5360

Servicing: 028000-6780, 128000-1060, 128000-1780, 128000-2250, 128000-2560, 128000-3030, 128000-4090

ID 15.55, OD 39.80, Height 36.15, No./splines 16, No./teeth 10, Bushing w/o





### 133354 Pinion

Replacing: 028099-6200

Servicing: 028000-8400

ID 18.25, OD 34.00, Height 40.00,  
No./splines 16, No./teeth 11, Bushing w/o



### 133355 Pinion

Replacing: 028099-3210

Servicing: 028000-5000, 028000-7730,  
028000-7731, 028000-7732, 128000-3361,  
128000-6860, 128000-6861

ID 14.40, OD 34.90, Height 36.00,  
No./splines 16, No./teeth 9, Bushing w/o



### 133356 Pinion

Replacing: 028099-5590, 028099-6550,  
028371-1980, 028371-6190

Servicing: 028000-6250, 028000-7420,  
028000-7830, 128000-0071, 128000-0140,  
128000-1161, 128000-1470

ID 17.00, OD 41.70, Height 23.50,  
Height/collar 6.80, No./splines 18,  
No./teeth 11, Bushing w/o



### 135003 Pinion

Replacing: 028099-3380, 028300-5740,  
028300-5741

Servicing: 028000-6260, 028000-6261,  
028000-6570, 028000-7740, 028000-8432,  
028000-9031, 028000-9032

ID 11.20, OD 34.00, Height 23.50,  
Height/collar 6.30, No./splines 18,  
No./teeth 9, Bushing w/o



### 135310 Pinion

Replacing: 028099-3110, 028099-3940

Servicing: ACR, 028000-8570, 028000-8580,  
028000-8581, 028000-9510, 028000-9800,  
128000-1220

ID 11.85, OD 29.20, Height 23.65,  
Height/collar 6.50, No./splines 18,  
No./teeth 9, Bushing w/o



### 135570 Pinion

Replacing: 028371-5653, 028371-6490,  
028371-6780, 028371-6960

Servicing: ACR, 128000-3470, 128000-3471,  
128000-3472, 128000-3480, 128000-3481,  
128000-3482, 128000-5940

ID 11.85, OD 41.00, Height 23.50,  
No./splines 18, No./teeth 13, Bushing w/o



### 135830 Pinion

Replacing: 028099-3900

Servicing: 028000-8370, 028000-8371,  
128000-5760, 228000-0381, 228000-0391,  
228000-0450, 228000-1920

ID 17.10, OD 35.35, Height 23.60,  
No./splines 18, No./teeth 9, Bushing w/o



### 138123 Pinion

Servicing: 228000-0360, 228000-0470,  
228000-0471, 228000-0472, 228000-0473,  
228000-4970, 228000-4971

ID 11.20, OD 27.45, Height 24.80,  
Height/collar 7.40, No./splines 18,  
No./teeth 10, Bushing w/o



### 139147 Pinion

Replacing: 028099-3910, 028371-5730,  
028371-7060

Servicing: 028000-8451, 028000-8980,  
128000-0930, 128000-5350, 128000-9550,  
128000-9560, 128000-9860

ID 11.60, OD 37.65, Height 23.55,  
No./splines 18, No./teeth 10, Bushing w/o



### 139654 Pinion

Replacing: 028099-6310, 028099-7590,  
028371-6980, 028371-7590

Servicing: 228000-3390, 228000-7420,  
128000-7810, 228000-1560, 228000-3260

ID 12.00, OD 33.00, Height 25.20,  
Height/collar 6.50, No./splines 18,  
No./teeth 10, Bushing w/o



### 233452 Pinion

Servicing: 228000-5720, 228000-5721,  
228000-5722, 228000-5723

ID 16.90, OD 40.30, Height 36.00,  
Height/collar 18.85, No./splines 16,  
No./teeth 10, Bushing w/o

## Drive Shafts



### 134807 Gear Shaft

Replacing: 028381-0040, 17381-63211

Servicing: 028000-3641, 028000-3642,  
028000-4323, 028000-4343, 028000-4450,  
028000-4540, 028000-4940

Total length 102.50, No./splines 18





### 137864 Gear Shaft

Replacing: 028381-5140, 028381-5150

Servicing: 128000-7002, 128000-7122, 128000-7140, 128000-7500, 128000-7713, 128000-7714, 128000-8030

Total length 83.20, No./splines 18

## Planet Gears

### Gear Parts

#### Outer Gear



### 136085 Outer Gear

Replacing: 028635-5010

Servicing: 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340

ID 40.20, OD 63.00, Height 23.40, No./teeth 43, Rotation CW/CCW, Bushing w/o



### 237533 Outer Gear

Replacing: 028635-5050

Servicing: 428000-0150, 428000-0340, 428000-0550, 428000-2800, 428000-3090

ID 18.00, OD 68.00, Height 28.00

### Gear Wheels



### 137979 Gear Wheel

Replacing: 028630-5010

Servicing: 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340

ID 6.00, OD 21.55, Height 7.40, No./teeth 15, Bushing w/



### 138569 Gear Wheel

Replacing: 028371-1500

Servicing: 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531

ID 30.00, OD 49.50, Height 17.40, No./teeth 31, Bushing w/o



### 233546 Gear Wheel

Replacing: 028371-5010

Servicing: 128000-0830, 128000-0831, 128000-0832, 128000-0833, 128000-5350, 128000-5760, 128000-9560

ID 21.90, OD 37.35, Height 13.85, No./teeth 27, Bushing w/o



### 235140 Gear Wheel

Replacing: 028371-3200

Servicing: 128000-2450, 128000-2470, 128000-2560, 128000-2740, 128000-3361, 128000-4250, 128000-4682

ID 13.19, OD 24.67, Height 17.91, No./splines 18, No./teeth 13, Bushing w/o



### 235211 Gear Wheel

Replacing: 028371-3210

Servicing: 128000-2450, 128000-2470, 128000-2560, 128000-2740, 128000-3361, 128000-4250, 128000-4682

ID 30.22, OD 50.60, Height 17.30, No./teeth 31, Bushing w/o



### 237012 Gear Wheel

Replacing: 028371-7070

Servicing: 028000-6550, 028000-7600, 028000-8570, 028000-8580, 028000-8581, 128000-1220, 128000-1230

OD 21.60, Height 14.00, No./splines 21, No./teeth 14

### Various



### 135474 Roller Housing

Replacing: 028063-0030

Servicing: 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531

OD 28.70, Thread length 16.50  
Roller: HC-CARGO 132885.

Pkg. 10



### 138148 Washer

Replacing: 028327-0170, 028327-0171

Servicing: 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531

ID 15.25, OD 39.80, Thickness 0.55, Material Steel, Bushing w/o

Pkg. 5



### 233690 Washer

Replacing: 949013-8110

Servicing: 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340

ID 15.20, OD 25.90, Thickness 1.80, Material Metal, Bushing w/o



## Levers



### 133812 Lever

Manufacturer: Denso

Replacing: 028740-5010

Servicing: 128000-2520, 128000-2631, 128000-2820, 128000-3090, 128000-3091, 128000-3250, 128000-3251

Dist. 20.45, Length 75.00, Plunger w/o



### 139051 Lever

Manufacturer: Denso

Replacing: 028740-5060

Servicing: 128000-2611, 128000-2621, 128000-2800, 128000-2980, 128000-4020, 128000-4040, 128000-4050

Dist. 20.30, Length 75.30, Plunger w/o



### 139492 Lever

Manufacturer: Denso

Replacing: 028740-5150

Servicing: 128000-2680, 128000-2682, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6420

Dist. 20.35, Length 72.90, Plunger w/o



### 139884 Lever

Manufacturer: Denso

Replacing: 028740-5140

Servicing: 128000-5210, 128000-5211, 128000-6340, 128000-6341, 128000-6720, 128000-6721, 128000-7620

Dist. 20.40, Length 72.50, Plunger w/o



### 235313 Lever

Replacing: 23322-6T000

Length 109.16, Plunger w/o

## Clutches



### 134806 Clutch

Replacing: 028099-3130, 028099-5730, 028300-2081, 028300-2220, 028300-2222, 028300-5300, 028300-6850

Servicing: 028000-3641, 028000-3642, 028000-4323, 028000-4343, 028000-4450, 028000-4540, 028000-4940

OD 53.80, Total length 65.00, No./splines 10, Rotation CW



### 134806Z Clutch

Replacing: 028099-3130, 028099-5730, 028300-2081, 028300-2220, 028300-2222, 028300-3930, 028300-5300

OD 53.50, Total length 64.00, No./teeth 39



### 138681 Clutch

Replacing: 028300-1971, 028300-5380, 028300-5381

Servicing: 028000-4800, 028000-5300, 028000-5301, 028000-5510

OD 55.30, Total length 92.30, No./teeth 35, Rotation CW



### 230857 Clutch

Replacing: 028301-0080, 028301-0190, 028301-0220, 028301-0500

Servicing: 228000-0990, 228000-1000, 228000-1020, 228000-1030, 228000-1040, 228000-1050, 228000-1060

OD 53.70, Total length 52.50, No./teeth 40



### 233180 Clutch

Replacing: 028300-4170, 028300-6750, 028300-6751

Servicing: 028000-5651, 028000-5652, 028000-5880, 028000-6010

OD 55.40, Total length 92.50, No./teeth 35, Rotation CW



### 335856 Clutch

Servicing: 438000-0200, 438000-0202

OD 12.80, Shaft OD/front 20.00, Total length 101.60, No./splines 18, Rotation CCW

## Brush Gears



### 132559 Brush Gear

Replacing: 028510-0560

Servicing: 028000-3730, 028000-5330, 028000-5331, 028000-5332, 028000-5333, 028000-5334, 028000-5335

12 Volt, ID 32.15, OD 59.75, Lead length 52.65, Height 15.10





### 132872 Brush Gear

**Replacing:** 028510-0750, 028510-5320, 028510-5510, 28140-15090

**Servicing:** 028000-5730, 028000-5800, 028000-7700, 028000-8980, 028000-9270, 028000-9320

12 Volt, ID 32.75, OD 58.90, Height 20.70



### 132873 Brush Gear

**Replacing:** 028510-0640, 028510-0840, 028510-5500

**Servicing:** 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004

12 Volt, ID 39.30, OD 74.70, Height 28.20  
Neg. brushes. Brush set: HC-CARGO 140364.

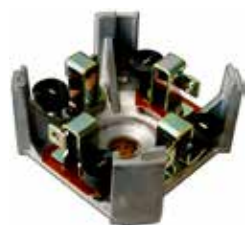


### 132874 Brush Gear

**Replacing:** 028510-0500, 028510-5390

**Servicing:** 028000-4800, 028000-5000, 028000-5300, 028000-5301, 028000-5490

12/24 Volt, ID 40.80, OD 77.60, Height 28.60  
Neg. brushes. Brush set: HC-CARGO 140361.



### 133337 Brush Gear

**Replacing:** 028500-0550, 028500-0551

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3650, 028000-3930, 028000-3970, 028000-4870

12 Volt, OD 121.00, Height 80.60  
Brush set: HC-CARGO 140393.



### 133661 5★ Brush Gear

**Manufacturer:** Denso

**Replacing:** 028510-0460, 028510-0480, 028510-0660, 028510-0661, 028510-5310

**Servicing:** 028000-4540, 028000-4550, 028000-5900, 028000-5910

12 Volt, ID 31.80, OD 63.25, Height 20.15  
Neg. brushes. Brush set: HC-CARGO 140362.



### 133715 Brush Gear

**Replacing:** 028510-0632, 028510-5270

**Servicing:** 028000-8411, 028000-9133, 028000-9872, 028000-9880

12 Volt, ID 30.75, OD 62.85, Height 13.45  
Neg. brushes. Brush set: HC-CARGO 140566.



### 133808 Brush Gear

**Replacing:** 028514-5020

**Servicing:** 128000-2520, 128000-2611, 128000-2621, 128000-2631, 128000-2800, 128000-2820, 128000-2980

12 Volt, ID 29.55, OD 68.80, Height 16.60  
Brush set: HC-CARGO 140602. Brush springs: HC-CARGO 133810.



### 136103 Brush Gear

**Replacing:** 028510-5190

**Servicing:** 128000-2680, 128000-2682, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682

12 Volt, ID 31.30, OD 58.00, Height 16.80  
Neg. brushes. Brush set: HC-CARGO 140740.  
Alternative no.: 335007



### 136314 Brush Gear

**Replacing:** 028510-0830

**Servicing:** ACR, 028000-9510, 028000-9800, 128000-1230, 128000-1260, 128000-2210, 128000-2830, 128000-3480

12 Volt, ID 32.15, OD 66.20, Height 20.25  
ACR. Neg. brushes. Brush set: HC-CARGO 140396.



### 137021 5★ Brush Gear

**Manufacturer:** Denso

**Replacing:** 028510-5010

**Servicing:** 128000-0830, 128000-0831, 128000-0832, 128000-0833, 128000-3250, 128000-3260, 128000-5350

12 Volt, ID 36.40, OD 81.50, Height 29.40  
Neg. brushes. Brush set: HC-CARGO 140364.



### 137955 5★ Brush Gear

**Manufacturer:** Denso

**Replacing:** 028510-5360, 028510-5450

**Servicing:** 128000-7122, 128000-7560, 128000-7713, 128000-7714, 128000-8220, 128000-8784, 128000-9190

12 Volt, ID 32.00, OD 64.00, Height 17.00  
Neg. brushes. Brush set: HC-CARGO 140740.



### 138419 Brush Gear

**Replacing:** 028510-5350, 028510-5660

**Servicing:** 028000-8620, 128000-7002, 128000-8210, 128000-9300, 128000-9310, 128000-9520, 228000-0220

12 Volt, ID 33.30, OD 59.00, Height 20.30  
Neg. brushes. Brush set: HC-CARGO 140362.





**138672** Brush Gear  
**Replacing:** 028510-0880  
**Servicing:** 128000-0490, 128000-2450, 128000-2470, 128000-2560, 128000-2740, 128000-3361, 128000-4250  
 24 Volt, ID 46.00, OD 95.75, Height 34.50  
 Brush set: HC-CARGO 140963.



**139150** Brush Gear  
**Replacing:** 028510-5800, 028510-6020  
**Servicing:** 228000-2120, 228000-2680, 228000-2690, 228000-2700, 228000-2980, 228000-2990, 228000-3260  
 12 Volt, ID 37.90, OD 61.00, Height 28.20  
 Neg. brushes. Brush set: HC-CARGO 140961.



**235049** Brush Gear  
**Manufacturer:** Denso  
**Replacing:** 028510-0651  
**Servicing:** 028000-7040, 028000-7042, 028000-7051, 028000-7052, 028000-8422, 028000-9620, 028000-9622  
 12 Volt, ID 31.00, OD 62.75, Height 12.85  
 Brush positiv: HC-CARGO 141240.



**237885** Brush Gear  
**Servicing:** 428000-0660, 428000-1940, 428000-1941, 428000-0720, 428000-1620, 428000-5950  
 12 Volt, ID 38.50, OD 64.00, Lead length 25.00



**330439** Brush Gear  
**Servicing:** 428000-4920, 428000-1630, 428000-3180, 428000-6200  
 12 Volt, ID 38.33, OD 63.07



**331960** Brush Gear  
**Servicing:** 428000-1760, 428000-4560, 428000-5830, 428000-6180  
 12 Volt, ID 32.94, OD 64.42, Lead length 23.00, Height 16.78



**332359** Brush Gear  
**Servicing:** 428000-4600, 428000-5510, 428000-5511, 428000-6360, 428000-6760, DSN967, 438000-0270, 428000-9140  
 12 Volt, ID 33.49, OD 65.08, Lead length 45.92, Height 23.25



**332665** Brush Gear  
**Replacing:** 028510-7620, 128099-6312  
**Servicing:** 228000-9901, 228000-9902, 428000-0150, 428000-0151, 428000-0152, 428000-3090, 428000-3092  
 12 Volt, ID 26.00, OD 57.50, Lead length 29.25



**333422** Brush gear  
 ID 34.00, OD 68.00, Lead length 24.50, Height 16.60



**335007** Brush Gear  
**Replacing:** 028510-5190  
**Servicing:** 128000-2680, 128000-2682, 128000-5680, 128000-5681, 128000-5682, 128000-6210, 128000-6211  
 ID 31.30, OD 58.00, Height 16.80  
 Alternative no.: 136103

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**337488** Brush Gear  
**Servicing:** 438000-0494  
 12 Volt, ID 33.00, OD 63.70, Lead length 33.00, Height 24.25

## Brush Gear Parts

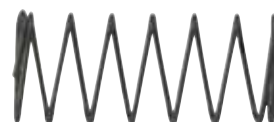
## Brush Springs

Pkg. 10



**132551#** Brush Spring  
**Replacing:** 949173-0571  
**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531  
 Length 26.50, Height 14.70, Width 11.00, Material Steel

Pkg. 10



**133710#** Brush Spring  
**Replacing:** 949170-9100  
**Servicing:** 128000-2240, 128000-2241, 128000-2750, 128000-3390, 128000-3400, 128000-3780, 128000-9400  
 Length 19.00, Height 8.60, Width 4.70, Material Steel





### 133810 Brush Spring

Replacing: 028520-5010

Servicing: 128000-2520, 128000-2610, 128000-2611, 128000-2621, 128000-2631, 128000-2800, 128000-2820

ID 5.00, OD 6.20, Length 22.00, Material Steel



### 233868 Brush Spring Set

Replacing: 128953-0080

Servicing: 228000-2120, 228000-2680, 228000-2690, 228000-2700, 228000-2980, 228000-2990, 228000-3260

OD 11.50, Length 22.70, Width 10.00, Material Steel

## Brush Sets



### 140347 Brush Set

Replacing: 0222-24-753

Servicing: 028000-4090, 028000-5400, 028000-5401

12 Volt, Length 17.00, Lead length 38.00, Height 12.00, Thickness 6.80



### 140356 Brush Set

Replacing: 028531-0110, 28142-25010

Servicing: 028000-0197, 028000-1010, 028000-1011, 028000-1970, 028000-1971, 028000-1972, 028000-1973

12 Volt, Length 16.00, Lead length 36.50, Height 12.00, Thickness 7.00

Pkg. 10



### 140357 Brush Set

Replacing: 0208-23-756, 28142-10011

Servicing: 028000-1850, 028000-2150, 028000-2151, 028000-3005, 028000-3830, 028000-4500, 028000-5200

12 Volt, Length 19.00, Lead length 40.50, Height 11.90, Thickness 7.00

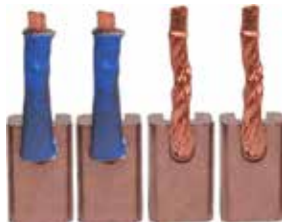


### 140358 Brush Set

Replacing: 028530-0341, 028530-0390, 28142-46020

Servicing: 028000-2880, 028000-3530, 028000-3570, 028000-4850, 028000-5160

12 Volt, Length 22.00, Lead length 50.00, Height 20.00, Thickness 8.00



### 140359 Brush Set

Replacing: 028531-0230, 028531-0300, 028531-0350

Servicing: 028000-0370, 028000-0430, 028000-1370, 028000-1850, 028000-2000, 028000-2001, 028000-2150

12 Volt, Length 19.00, Lead length 26.00, Height 12.00, Thickness 7.00



### 140360 Brush Set

Replacing: 028531-0380, 28142-25011

Servicing: 028000-2260, 028000-2261, 028000-2262, 028000-2263, 028000-2360, 028000-2361, 028000-2362

12 Volt, Length 16.00, Lead length 38.50, Height 12.00, Thickness 7.00



### 140361 Brush Set

Replacing: 028099-3560, 028099-3570, 028531-0632, 028531-5650, 028531-5651

Servicing: 028000-4800, 028000-5000, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5520

12 Volt, Length 21.00, Lead length 40.80, Height 25.00, Thickness 8.00

Brush set w/ plate: HC-CARGO 141223.



### 140362 Brush Set

Replacing: 028099-0770, 028099-2620, 028099-2628, 028099-2670, 028099-2770, 028531-0450, 028531-0946

Servicing: 028000-3641, 028000-3642, 028000-4000, 028000-4020, 028000-4200

12 Volt, Length 14.00, Lead length 34.00, Height 16.00, Thickness 7.00



### 140363 Brush Set

Replacing: 028099-3510, 028531-0680, 028531-3510

Servicing: 028000-3730, 028000-5330, 028000-5331, 028000-5332, 028000-5333, 028000-5334, 028000-5335

12 Volt, Length 16.00, Lead length 27.00, Height 10.00, Thickness 6.50



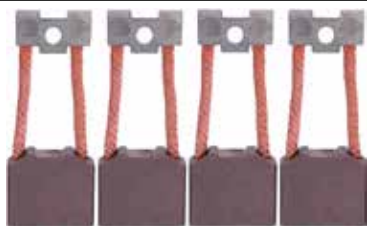
### 140364 Brush Set

Replacing: 028099-7170, 028099-7171, 028531-0840, 028531-5630, 28140-54070

Servicing: 028000-5620, 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7370

12 Volt, Length 15.00, Lead length 44.50, Height 25.00, Thickness 8.00





### 140393 Brush Set

Replacing: 028530-0480, 028530-0481, 028530-0487, 385300-480

Servicing: 028000-3290, 028000-3291, 028000-3292, 028000-3650, 028000-3930, 028000-3970, 028000-4870

12 Volt, Length 26.00, Lead length 47.00, Height 30.00, Thickness 9.00



### 140396 Brush Set

Replacing: 028099-3430, 028531-0720, 028531-0730

Servicing: 028000-4540, 028000-4550, 028000-5800, 028000-5900, 028000-5910, 028000-5911, 028000-5912

12 Volt, Length 13.50, Lead length 23.00, Height 16.00, Thickness 7.00



### 140602 Brush Set

Replacing: 028099-5450, 028531-5050, 028531-6660

Servicing: 128000-2520, 128000-2610, 128000-2611, 128000-2621, 128000-2631, 128000-2800, 128000-2820

12 Volt, Length 10.00, Lead length 30.50, Height 8.00, Thickness 6.50

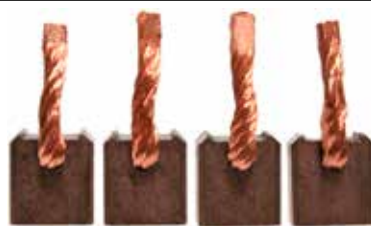


### 140647 Brush Set

Replacing: 028099-3980

Servicing: 028000-8460, 028000-9181, 028000-9182, 028000-9202, 028000-9203, 028000-9210, 028000-9220

12 Volt, Length 18.00, Lead length 31.50, Height 13.00, Thickness 7.50



### 140740 Brush Set

Replacing: 028099-6180

Servicing: 128000-2680, 128000-2682, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682

12 Volt, Length 14.00, Lead length 25.00, Height 13.00, Thickness 6.50



### 140885 Brush Set

Servicing: 228000-0971, 228000-6270, 228000-6271, 228000-6272, 228000-6273, 228000-7680, 228000-7681

12 Volt, Length 15.50, Lead length 29.00, Lead length 2 22.50, Height 13.00, Thickness 7.00



### 140932 Brush Set

Replacing: 028099-3950

Servicing: 028000-5730, 028000-8980, 028000-9380, 028000-9510, 028000-9800, 128000-2130, 128000-9730

12 Volt, Length 14.00, Lead length 36.50, Height 16.00, Thickness 7.00



### 140961 Brush Set

Replacing: 128099-6740

Servicing: 228000-1180, 228000-3980, 228000-5860, 228000-5861, 228000-5862, 228000-7710, 228000-7800

12 Volt, Length 15.50, Lead length 33.00, Height 25.00, Thickness 7.00



### 140963 Brush Set

Replacing: 028530-1090, 028530-1100

Servicing: 128000-0490, 128000-2450, 128000-2470, 128000-2560, 128000-2740, 128000-3361, 128000-4250

12/24 Volt, Length 21.00, Lead length 33.00, Height 30.00, Thickness 10.00



### 140976 Brush Set

Replacing: 028099-3550, 28142-54070

Servicing: 028000-7370, 028000-7660, 028000-9030, 128000-6400, 228000-3920, 228000-4570, 128000-0020

12 Volt, Length 15.00, Lead length 41.50, Lead length 2 30.00, Height 25.00, Thickness 8.00



### 141223 Brush Set

Servicing: 028000-5581, 028000-6870, 028000-6880, 028000-6890, 028000-6891, 028000-6892, 028000-6910

12 Volt, Length 21.00, Lead length 40.50, Height 25.00, Thickness 8.00

w/o plate: HC-CARGO 140361.



### 141258 Brush Set

Servicing: 428000-0701, 428000-0670, 428000-0680, 428000-0700, 428000-1640, 428000-1750

12 Volt, Length 15.30, Height 14.10, Thickness 4.50





### 141267 Brush Set

Servicing: 228000-9901, 228000-9902, 428000-3092, 228000-9900, 428000-0150, 428000-0151, 428000-0152

12 Volt, Length 9.50, Lead length 31.00, Lead length 2 21.00, Height 8.50, Thickness 4.50/7.00



### 142031 Brush Set

Servicing: 428000-1650, 428000-3361

12 Volt, Length 15.30, Lead length 26.00, Lead length 2 30.50, Height 14.00, Thickness 4.50



### 142040 Brush Set

Servicing: 428000-0660, 428000-1940, 428000-1941, 428000-0720, 428000-1620, 428000-5950

12 Volt, Length 15.50, Lead length 25.00, Lead length 2 33.00, Height 20.00, Thickness 7.00



### 142066 Brush Set

Servicing: 428000-4920, 428000-1630, 428000-3180, 428000-6200

12 Volt, Length 15.70, Lead length 35.00, Height 19.86, Thickness 6.93



### 142223 Brush set

Servicing: 438000-0494

12 Volt, Length 10.50, Lead length 20.00, Height 5.35, Thickness 18.35



### 332130 Brush Set

Servicing: 428000-3371, 428000-3372, 428000-3370

12 Volt, Length 13.65, Lead length 24.35, Height 13.90, Thickness 4.43



### 332362 Brush Set

Servicing: 428000-4600, DSN967, 428000-5510, 428000-5511, 428000-6360, 428000-6760, 428000-9140

12 Volt, Length 12.12, Lead length 27.45, Height 18.83, Thickness 5.33



### 332847 Brush Set

Servicing: 428000-4500, 428000-4550, 428000-4490, 428000-8862

12 Volt, Length 14.70, Lead length 25.00, Lead length 2 34.00, Height 13.85, Thickness 5.35



### JSX72-734 Brush Set

Replacing: 028531-7331, 028531-7340

12 Volt, Length 16.00, Lead length 32.50, Lead length 2 25.00, Height 20.00, Thickness 7.00



### JSX74-75-76-774 Brush Set

Replacing: 028531-6390, 028531-6400, 028531-6410, 028531-6420

12 Volt, Length 14.30/15.30, Lead length 32.88, Height 14.00, Thickness 4.50

## Brushes



### 140566 Brush

Replacing: 028530-0932, 028530-0933, 028530-0980, 028530-1020, 028530-1021, 028530-1030, 028530-1031

Servicing: 028000-8411, 028000-9133

12 Volt, Length 12.00, Lead length 29.80, Height 9.00, Thickness 6.00

Pkg. 5



### 140570 Brush

Replacing: 028530-5060, 028530-5061

Servicing: 128000-2240, 128000-2241, 128000-2750, 128000-3390, 128000-3400, 128000-3780, 128000-9400

12 Volt, Length 7.50, Lead length 23.00, Height 9.00, Thickness 5.00



### 141240 Brush

Replacing: 028530-0990, 028530-0991, 028530-5030, 028530-5031

Servicing: 028000-8422, 028000-9620, 028000-9622, 028000-9623

12 Volt, Length 12.00, Lead length 30.00, Height 8.90, Thickness 5.90  
Positive.

## Bushings

Pkg. 10



### 140325 Bushing

Replacing: 90099-10058, 949103-0540, 949103-1320, 949103-2020

Servicing: 028000-0970, 028000-1975, 028000-1976, 028000-2001, 028000-2151, 028000-2241, 028000-2260

ID 12.54, OD 16.55, Length 14.00, Material Copper, Pin w/o



Pkg. 10



### 140326 Bushing

**Replacing:** 028403-0081, 028403-0082, 28111-51011

**Servicing:** 028000-0197, 028000-0370, 028000-0430, 028000-1010, 028000-1011, 028000-1370, 028000-1850

**ID 12.54, OD 14.72, Length 14.00, Material Copper, Pin w/o**  
Alternative no.: B140326

Pkg. 10



### 140330 Bushing

**Replacing:** 028403-0130, 028403-0131, 028403-0139, 28111-46011

**Servicing:** 028000-2450, 028000-2580, 028000-2585, 028000-2880, 028000-3300

**ID 14.20, OD 16.30, Length 19.80, Type Standard, Material Copper, Pin w/o**

Pkg. 10



### 140333 Bushing

**Replacing:** 949103-3160

**Servicing:** 028000-3730, 028000-5330, 028000-5331, 028000-5332, 028000-5333, 028000-5334, 028000-5335

**ID 12.53, OD 15.50, Length 10.50, Type Standard, Material Copper, Pin w/o**  
Alternative no.: B140333

Pkg. 10



### 140424 Bushing

**Replacing:** 949103-3600

**Servicing:** 028000-8460, 028000-9181, 028000-9182, 028000-9202, 028000-9203, 028000-9210, 028000-9220

**ID 10.10, OD 15.50, Length 10.40, Type Standard, Material Steel, Pin w/o**

Pkg. 10



### 140425 Bushing

**Replacing:** 949103-3610

**Servicing:** 028000-8460, 028000-9181, 028000-9182, 028000-9202, 028000-9203, 028000-9210, 028000-9220

**ID 11.00, OD 14.70, Length 12.80, Material Copper, Pin w/o**

Pkg. 10



### 140426 Bushing

**Replacing:** 949103-3840

**Servicing:** 128000-2520, 128000-2610, 128000-2611, 128000-2621, 128000-2631, 128000-2800, 128000-2820

**ID 11.05, OD 14.72, Length 8.00, Type Standard, Material Copper, Pin w/o**

Pkg. 10



### 140427 Bushing

**Replacing:** 949103-3850

**Servicing:** 128000-2520, 128000-2610, 128000-2611, 128000-2621, 128000-2631, 128000-2680, 128000-2682

**ID 11.05, OD 14.72, Length 11.00, Type Standard, Material Copper, Pin w/o**

Pkg. 10



### 140583 Bushing

**ID 12.53, OD 14.02, Length 10.50, Material Copper, Pin w/o**  
Alternative no.: B140583

Pkg. 10



### 140697 Bushing

**ID 23.90, OD 29.30, Length 5.95, Type Standard, Material Copper, Pin w/o**

Pkg. 5



### 140777 Bushing

**Replacing:** 949102-0070

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3970, 028000-5250, 028000-5960, 028000-5961

**ID 17.00, OD 19.00, Length 19.70, Type Standard, Material Copper, Pin w/o**

Pkg. 5



### 140778 Bushing

**Replacing:** 949103-2420

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3970, 028000-5960, 028000-5961, 128000-3280

**ID 30.10, OD 35.00, Length 22.95, Material Copper, Pin w/o**

Pkg. 10



### 140787 Bushing

**Servicing:** 428000-0701, 228000-6120, 228000-6121, 228000-6122, 228000-8360, 428000-0700, 428000-4051

**ID 6.10, OD 10.00, Length 7.45, Material Copper, Pin w/o**





### 140788 Bushing

Replacing: 949104-0990

Servicing: 128000-2680, 128000-2682, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682

ID 7.09, OD 9.51, OD/collar 13.00, Length 11.20, Height/collar 2.00, Material Copper, Pin w/o

Pkg. 10



### 140792 Bushing

Replacing: 949103-4330

Servicing: 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340

ID 15.00, OD 18.50, Length 11.20, Material Copper, Pin w/o

Pkg. 10



### 140965 Bushing

Replacing: 949103-4320

Servicing: 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340

ID 7.12, OD 9.60, Length 8.10, Material Copper, Pin w/o

Pkg. 10



### 141011 Bushing

Replacing: 949103-4340

Servicing: 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6340, 128000-6341

ID 11.15, OD 14.70, Length 9.80, Type Mount., Material Copper, Pin w/o

Pkg. 10



### 141105 Bushing

ID 7.07, OD 9.60, Length 10.00,

Type Standard, Material Copper, Pin w/o

Pkg. 10



### 141136 Bushing

Servicing: 028000-2240, 028000-2930, 028000-3500, 028000-3800, 028000-4040, 028000-4600, 028000-4630

ID 12.60, OD 14.00, Length 19.00, Material Copper, Pin w/o

Pkg. 10



### 141153 Bushing

Replacing: 028403-0200

Servicing: 028000-2380, 028000-5090, 028000-7170, 428000-4051, 428000-5410, 428000-4490, 428000-3372

ID 11.03, OD 13.23, Length 12.70, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 141155 Bushing

Servicing: 428000-4841

ID 23.05, OD 28.50, Length 3.95, Material Copper, Pin w/o

Pkg. 10



### 141237 Bushing

Replacing: 949103-0390

Servicing: 028000-1370, 028000-1850, 028000-1975, 028000-1976, 028000-2000, 028000-2150, 028000-2240

ID 12.40, OD 16.55, Length 10.40, Material Steel, Pin w/o

Pkg. 10



### 141249 Bushing

Servicing: 428000-0701, 428000-1650, 428000-3361, 428000-3371, 428000-3372, 428000-4500, 428000-4550

ID 7.02, OD 9.50, OD/collar 13.00, Length 9.25, Height/collar 2.00, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 142011 Bushing

Servicing: 428000-0701, 428000-0150, 428000-0151, 428000-0152, 428000-0670, 428000-0680, 428000-0700

ID 18.00, OD 21.00, Length 8.90

Pkg. 10



### 142015 Bushing

Servicing: 428000-0150, 428000-0151, 428000-0152, 428000-3090

ID 5.02, OD 7.97, Length 7.15

Pkg. 10



Pkg. 10



### 142083 Bushing

Servicing: 428000-6200, 428000-6360, 428000-6760, 428000-4490, 428000-8862, 428000-5950, 438000-0494

ID 18.04, OD 20.95, Length 9.00,  
Material Bronze

Pkg. 10



### 331981 Bushing

Servicing: 428000-4490, 428000-3372

ID 7.10, OD 9.50, Length 8.20,  
Type Standard, Pin w/o

Pkg. 10



### 332325 Bushing

Servicing: 228000-9252, 428000-4051, 428000-5410, 428000-6360, 428000-6760, 428000-4490, 428000-8862

ID 11.00, OD 13.10, Length 10.20,  
Type Standard, Material Steel/copper, Pin w/

Pkg. 100



### B140033 Bushing

Replacing: 949103-3160

ID 14.30, OD 16.00, Length 11.50,  
Type Mount., Material Copper, Pin w/o  
Alternative no.: 140033

Pkg. 100



### B140326 Bushing

Replacing: 028403-0081, 028403-0082

ID 12.55, OD 14.72, Length 14.00,  
Material Copper, Pin w/o  
Alternative no.: 140326

Pkg. 100



### B140554 Bushing

ID 22.71, OD 28.50, Length 5.90,  
Material Copper, Pin w/o

Pkg. 100



### B140583 Bushing

ID 12.53, OD 14.02, Length 10.50,  
Material Copper, Pin w/o

Alternative no.: 140583

## Bearings

### Ball Bearings



### 140079 FAG 6200-2RS1

Replacing: 949100-1750, 949100-2160, 949100-3540

Servicing: 028000-3641, 028000-3642, 028000-4323, 028000-4340, 028000-4341, 028000-4343, 028000-4450

ID 10.00, OD 30.00, Height 9.00  
Alternative no.:

142280 High Performance,

333091 High Performance



### 140080 FAG 6200-2Z

Replacing: 1-0454-62007, 511-002, 6200ZZ, 71900103

Servicing: 028000-6561, 028000-6780, 128000-1251, 128000-7600, 128000-7601, 128000-7602, 128000-1250

ID 10.00, OD 30.00, Height 9.00

Alternative no.:

142296 High Performance

Pkg. 10



### 140222 FAG 608-2RS-C3

Replacing: 2114-15502, 6082RSC3, 949100-1360, 949100-2500, 949100-4120, 949100-5230, 949100-5820, 949100-6070

Servicing: 028000-3641, 028000-3641, 028000-3642, 028000-3642, 028000-4323, 028000-4340, 028000-4341

ID 8.00, OD 22.00, Height 7.00

Alternative no.:

333106 High Performance



### 140223 FAG 6004-C-2HRS-C3

Replacing: 1-0456-60047, 949100-1650, 949100-1760, 949100-2590, 949100-4110, 949100-4230, 949100-5280

Servicing: 028000-3641, 028000-3641, 028000-3641, 028000-3642, 028000-3642, 028000-4323

ID 20.00, OD 42.00, Height 12.00

Alternative no.:

142285 High Performance,

333105 High Performance

Pkg. 10



### 140271 FAG 6000-C-2HRS-C3

Replacing: 949100-2760

Servicing: 028000-5730, 028000-5800, 028000-6260, 028000-7700, 028000-8620, 028000-8980, 028000-9270

ID 10.00, OD 26.00, Height 8.00

Alternative no.:

142277 High Performance,

333099 High Performance





Pkg. 10

**140272 FAG** 6002-2RS1

Replacing: 949100-1860, 949100-2740, 949100-2940, 949100-3670, 949100-3920, 949100-4130, 949100-5220

Servicing: 028000-3641, 028000-3642, 028000-4540, 028000-4540, 028000-4540, 028000-4550, 028000-5190

ID 15.00, OD 32.00, Height 9.00

Alternative no.:

142282 High Performance,

333102 High Performance



Pkg. 10

**140273 FAG** 6003-2RS1

Replacing: 949100-1930, 949100-2210

Servicing: 028000-4800, 028000-5000, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530

ID 17.00, OD 35.00, Height 10.00

Alternative no.:

142268 High Performance,

333103 High Performance

**140285 FAG** 6003-2Z

Replacing: 1-0454-60037, 60032Z

Servicing: 028000-5880, 028000-6561, 128000-7600, 128000-7601, 128000-7602

ID 17.00, OD 35.00, Height 10.00

Alternative no.:

142286 High Performance

**140286 FAG** 6004-2Z

Replacing: 1-0454-60047

Servicing: 028000-7390, 128000-1040

ID 20.00, OD 42.00, Height 12.00

**140287 FAG** 6005-2Z

Replacing: 60052Z

Servicing: 028000-5880, 028000-6561

ID 25.00, OD 47.00, Height 12.00



Pkg. 10

**140297 FAG** 608-2Z

Replacing: 949100-2480, 949100-2580, 949100-5200, 949100-5260

Servicing: 028000-3641, 028000-3641, 028000-3642, 028000-3642, 028000-4323, 028000-4323, 028000-4343

ID 8.00, OD 22.00, Height 7.00

**140960 CAR GO** High Performance 638-2RS-P

Replacing: 949100-4840

Servicing: 100211-8000, 100211-8110, 100211-8240, 100211-8560, 228000-1180, 228000-2120, 228000-2680

ID 8.00, OD 28.00, Height 9.00



Pkg. 10

**333091 CAR GO** High Performance 6200-2RS1/C3

Replacing: 949100-1750, 949100-2160, 949100-3540

Servicing: 128000-4663, 228000-5641, 228000-5650, 228000-5651, 228000-5652, 228000-6611, 228000-7010

ID 10.00, OD 30.00, Height 9.00

Alternative no.:

142280 High Performance



Pkg. 10

**333102 CAR GO** High Performance 6002-2RS/C3

Replacing: 949100-1860, 949100-2940, 949100-3670, 949100-3920, 949100-4130, 949100-5240, 949100-5250

Servicing: 100211-1401, 100211-1402, 228000-3280, 228000-3981, 228000-7220, 228000-7520, 128000-9951

ID 15.00, OD 32.00, Height 9.00

Alternative no.: 140272 **FAG**,

142282 High Performance



Pkg. 10

**333103 CAR GO** High Performance 6003-2RS1/C3

Replacing: 949100-1930, 949100-2210

Servicing: 228000-5641, 428000-2631

ID 17.00, OD 35.00, Height 10.00

Alternative no.: 140273 **FAG**,

142268 High Performance



Pkg. 10



### 333105 High Performance 6004-2RS1/C3

**Replacing:** 949100-1650, 949100-1760, 949100-2590, 949100-4110, 949100-4230, 949100-5280

**Servicing:** 228000-7520, 228000-7520, 428000-1940, 428000-1941, 428000-2321, 428000-4841, 428000-5950

ID 20.00, OD 42.00, Height 12.00

Alternative no.: 140223 **FAG**

142285 High Performance

### Needle Bearings

Pkg. 10



### 140767 Needle Bearing

**Replacing:** 949105-0100, 949105-0160, 949105-0200

**Servicing:** 128000-0660, 128000-2800, 128000-4130, 128000-4170, 128000-4430, 128000-4450, 128000-4520

ID 11.00, OD 15.50, Height 14.30

Closed end.

Pkg. 5



### 140768 High Performance Needle Bearing

**Replacing:** 949105-0110

**Servicing:** 028000-6490, 028000-6491, 028000-6492, 028000-6493, 028000-6494, 028000-6495, 028000-7091

ID 12.48, OD 17.02, Height 17.00

### 141086 Needle Bearing

**Replacing:** 949105-0130

**Servicing:** 128000-5330, 128000-5331, 128000-5970, 128000-6060, 128000-7020, 128000-7170, 128000-7172

ID 17.00, OD 24.00, Height 20.00

Closed end.

Pkg. 10



### 142065 Needle Bearing

**Servicing:** 428000-4920, 428000-1630, 428000-3180, 428000-6200

ID 12.00, OD 16.00, Height 14.00

Closed end.

Pkg. 5

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### 142096 Needle Bearing

**Replacing:** HK0709

**Servicing:** 428000-6360, 428000-6760, 428000-9140, 428000-8862, 428000-8862, 438000-0494, 438000-0474

ID 7.00, OD 11.00, No./rolls 11

### Repair Kits



### 132635 Repair Kit

**Replacing:** 028099-6790

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3650, 028000-3930, 028000-3970, 028000-4930

12 V.

### Sundry Parts

#### Various

Pkg. 5



### 232788 Washer

**Replacing:** 021506-0070

**Servicing:** 02131-9131, 02131-9212, 100210-3070, 100210-3190, 100210-3210, 100210-3380, 100210-3381

ID 15.00, OD 22.00, OD/collar 15.90, Height/collar 1.65, Thickness 0.50, Material Steel, Bushing w/o

Pkg. 5



### 232789 Washer

**Servicing:** 02131-9131, 02131-9212, 021542-0160, 100210-3470, 100210-3480, 100211-1040, 100211-1041

ID 15.40, OD 26.00, Thickness 0.25, Material Steel, Bushing w/o

Pkg. 5



### 232790 Washed Washer

**Replacing:** 021542-0041, 021542-0120, 021542-0160, 021542-0220

**Servicing:** 02131-9131, 02131-9212, 100210-3070, 100210-3190, 100210-3210, 100210-3380

ID 24.50, OD 35.20, Thickness 0.75, Material Steel, Bushing w/o

### Through Bolts

Pkg. 4



### 136357 Through Bolt

**Replacing:** 949043-2000

**Servicing:** 02131-9212, 100210-3070, 100210-3190, 100210-3210, 100210-3380, 100210-3381, 100210-3410

Total length 67.00, Thread size M5, Thread size/rear M7, Shaft w/, Washer w/o





Pkg. 20

### 191528 Through Bolt

Replacng: 949042-2960

Servicing: 100210-3580, 100210-3770, 100210-3820, 100210-3821, 100210-3871, 100213-0260, 100213-0280

Thread M5, Length 95.00, Thread length 30.00, Head type Cheese head, Colour Black, Material Steel



Pkg. 20

### 191539 Through Bolt

Replacng: 949042-3950

Servicing: 102211-0750, 104210-2180, 104210-3290, 104210-3291, 104210-3292, 104210-3293, 104210-3410

Thread M5, Length 75.00, Thread length 25.00, Colour Black, Quality 12.9, Material Steel



Pkg. 20

### 191585 Through Bolt

Replacng: 949042-1840

Servicing: 028000-2150, 028000-2151, 028000-3360, 028000-3361, 028000-4651, 028000-4790, 028000-5070

Total length 138.70, Length/rear collar 134.80, Thread length 61.20, Thread size M5



Pkg. 10

### 191531 Through Bolt

Replacng: 949006-5080

Servicing: 02131-9261, 02131-9262, 028000-4800, 028000-5660, 028000-5661, 028000-5860, 028000-5861

Total length 89.40, Length/rear collar 85.10, Thread length 25.30, Thread size M6



Pkg. 10

### 230721 Through Bolt

Replacng: 949006-3840, 949006-4930

Servicing: 028000-5300, 028000-5301, 028000-5510, 028000-5511

Total length 74.10, Length/rear collar 68.75, Shaft w/, Thread length 24.75, Thread size M6



### 231627 Through Bolt

Replacng: 949042-2270, 949042-3741

Servicing: 028000-3850, 028000-4800, 028000-5300, 028000-5301, 028000-5510

Total length 186.10, Length/rear collar 180.20, Shaft w/, Thread length 23.35, Thread size M6

## Oil Seals



Pkg. 10

### 132549 Oil Seal

Replacng: 949150-0921

Servicing: 021000-2422, 021000-2522, 021000-2532, 021000-2542, 021000-3501, 021000-4580, 021000-4630

ID 15.50, OD 30.10, Height 7.00, Material Metal/Rubber, O-ring w/o



### 132662 Oil Seal Kit

Replacng: A351X90571

Servicing: 100210-1570, 100210-2870

ID 14.80, OD 30.00, Height 5.00, Type Alternator, Material Metal/Rubber, O-ring w/o



Pkg. 5

### 133513 Oil Seal

Servicing: 100210-2220, 100210-2221, 100210-2570, 100210-2860, 100210-2960, 100210-3760, 100210-3840

ID 14.00, OD 30.00, Height 7.00, Material Rubber, O-ring w/o



Pkg. 5

### 133523 Oil Seal

Replacng: 081103-0060

Servicing: 081000-1321, 081000-1480, 081000-1611, 081000-1660, 081000-1700, 081000-1701, 081000-1740

ID 19.00, OD 32.00, Height 6.00, Material Metal/Rubber, O-ring w/



Pkg. 10

### 133524 Oil Seal

Replacng: 081103-0070, 081103-0080

Servicing: 100210-3070, 100210-3190, 100210-3210, 100210-3380, 100210-3381, 100210-3410

ID 17.00, OD 30.00/37.00, Height 8.00, Material Rubber, O-ring w/o



### 137803 Oil Seal Kit

Replacng: 081099-0090

Servicing: 021000-9850, 021000-9851, 021000-9861, 021000-9871, 021000-9881, 021000-9930, 021000-9931

ID 14.00, OD 30.00, Height 7.00, Material Metal/Rubber, O-ring w/o



Pkg. 5



**135851** Oil Seal  
**Replacing:** 949150-1050  
**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3650, 028000-3810, 028000-3811, 028000-3930  
**ID** 30.00, **OD** 42.10, **Height** 8.00,  
**Material** Metal/Rubber, **O-ring** w/o

Pkg. 10



**237550** Oil seal  
**Servicing:** 228000-9901, 228000-9902, 428000-0701, 428000-3092, 428000-0150, 428000-0151, 428000-0152  
**ID** 19.95, **OD** 33.55, **Height** 3.50,  
**Type** Starter, **Material** Rubber, **O-ring** w/o

### O-rings

Pkg. 10



**133040** O-ring  
**Replacing:** 081100-0010, 081106-0010, 949140-3540  
**Servicing:** 021000-9850, 021000-9851, 021000-9861, 021000-9871, 021000-9881, 021000-9930, 021000-9931  
**ID** 56.00, **Thickness** 2.00, **Colour** Black

Pkg. 5



**133597** O-ring  
**Servicing:** 021000-7570, 021000-8830, 021000-8890, 021000-8892, 021000-9851, 021000-9930, 021000-9980  
**ID** 64.00, **Thickness** 2.50, **Colour** Black

Pkg. 10



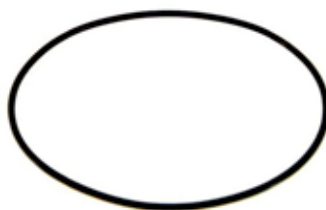
**134490** O-ring  
**Replacing:** 14688-W2500  
**Servicing:** 128000-3190, 128000-0300, 128000-2190, 128000-5110  
**ID** 62.00, **Thickness** 2.00, **Colour** Black

Pkg. 10



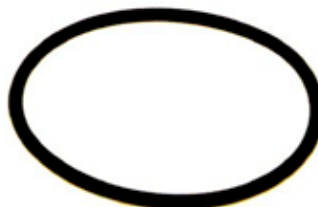
**132891** O-ring  
**Replacing:** 908012-0470  
**Servicing:** 028000-5651, 028000-5652, 028000-6010, 028000-6013, 028000-6021, 028000-6022, 028000-7451  
**ID** 48.00, **Thickness** 2.50, **Colour** Black

Pkg. 10



**132892** O-ring  
**Replacing:** 949140-3700  
**Servicing:** 028000-5730, 028000-5800, 028000-6260, 028000-7700, 028000-8370, 028000-8371, 028000-8620  
**ID** 69.00, **OD** 73.00, **Thickness** 2.00, **Colour** Black

Pkg. 10



**132893** O-ring  
**Replacing:** 908012-0420  
**Servicing:** 028000-5190, 028000-5780, 028000-5991, 028000-5992, 028000-7410, 128000-5040, 128000-5750  
**ID** 43.00, **Thickness** 2.50, **Colour** Black

Pkg. 10



**132900** O-ring  
**Replacing:** 949062-1010  
**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4340, 028000-4341, 028000-4343, 028000-4450  
**ID** 71.00, **Thickness** 2.00, **Colour** Black

Pkg. 5



**133717** O-ring  
**Replacing:** 949140-3440, 949140-5670  
**Servicing:** 028000-7040, 028000-7042, 028000-7051, 028000-7052, 028000-8411  
**ID** 63.50, **Thickness** 1.60, **Colour** Black

Pkg. 10



**134484** O-ring  
**Replacing:** 908041-0050  
**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531  
**ID** 5.00, **Thickness** 2.00, **Colour** Black

Pkg. 10



**134486** O-ring  
**Servicing:** 028000-5730, 028000-5910, 028000-5911, 028000-6000, 028000-6001, 028000-7370, 028000-7372  
**ID** 8.00, **Thickness** 2.00, **Colour** Black





### 134487 O-ring

Servicing: 028000-5581, 028000-5860, 028000-5861, 028000-5862, 028000-5863, 028000-5864, 028000-6290

ID 10.00, Thickness 2.00, Colour Black

Pkg. 10

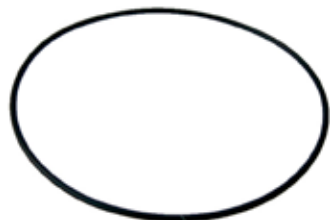


### 135498 O-ring

Servicing: 128000-5560, 128000-5561, 228000-3330, 228000-3331, 228000-3332, 228000-5920, 228000-5922

ID 8.00, Thickness 2.50, Colour Black

Pkg. 10



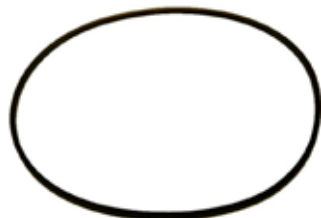
### 138433 O-ring

Replacing: 949140-3680

Servicing: 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7370, 028000-7372

ID 70.00, Thickness 1.50, Colour Black

Pkg. 5



### 230147 O-ring

Replacing: 949140-4620

Servicing: 128000-0830, 128000-0831, 128000-0832, 128000-0833, 128000-5350, 128000-5760, 128000-9560

ID 80.00, Thickness 1.50, Colour Black



### 233084 O-ring

Replacing: 028901-0361

Servicing: 128000-2450, 128000-2470, 128000-2740, 128000-3361, 128000-4250, 128000-4682, 128000-4683

ID 95.00, OD 100.00, Thickness 2.50, Colour Black

Pkg. 10

### Various



### 133680 Seal

Replacing: 021626-0210, 021626-0250

Servicing: 100210-3380, 100210-3381, 100210-3470, 100210-3480, 100210-3700, 100210-3780, 100211-5031

OD 27.55, Height 9.60, Material Rubber, O-ring w/o

Pkg. 5



### 233690 Washer

Replacing: 949013-8110

Servicing: 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340

ID 15.20, OD 25.90, Thickness 1.80, Material Metal, Bushing w/o

Pkg. 5



### 131837 Terminal Cap

Replacing: 028062-6180, 949340-0660

Servicing: 028000-4340, 028000-4341, 028000-4343, 028000-4550, 028000-5120, 028000-5730, 028000-5780

Height 15.25



### 131838 Terminal Cap

Replacing: 949340-0531, 949340-0820

Servicing: 028000-3641, 028000-3642, 028000-4512, 028000-5821, 028000-5822, 028000-5900, 028000-5910

Height 15.10

Pkg. 5



### 132888 Rubber Drain

Replacing: 028062-0200, 028062-0360, 028062-0480, 028062-5770

Servicing: 028000-2360, 028000-2361, 028000-2362, 028000-2363, 028000-2364, 028000-3300, 028000-3360

ID 7.35, OD 9.25, Length 27.60

Pkg. 10



### 132889 Rubber Boot

Replacing: 480841-0010

Servicing: 028000-5530, 028000-5581, 028000-5620, 028000-5860, 028000-5861, 028000-5862, 028000-5863

ID 30.00

Pkg. 10



### 132894 Steel Ball

Replacing: 128961-0010, 949120-0240

Servicing: 028000-3641, 028000-3642, 028000-4323, 028000-4343, 028000-4450, 028000-4512

OD 8.70, Material Steel

Pkg. 10



Pkg. 5



### 133878 Connection

**Servicing:** 128000-0461, 128000-2550, 128000-2551, 128000-2660, 128000-2670, 128000-3740, 128000-3741

**Mount hole** 10.50, **Total length** 70.25

Pkg. 5



### 133879 Connection

**Servicing:** 228000-9252, 228000-9580, 428000-0950, 428000-3460, 428000-3471, 428000-4140, 128000-4060

**Mount hole** 9.15, **Total length** 62.15



### 133880 Connection

**Servicing:** 028000-7460, 028000-7461, 028000-7462, 028000-7470, 028000-7471, 028000-9090, 028000-9091

**Mount hole** 8.75, **Total length** 66.40

Pkg. 10



### 135746 Rubber Drain

**Replacing:** 028062-0530

**Servicing:** 028000-6000, 028000-6001, 028000-6300, 028000-9270, 128000-0980, 128000-0981, 128000-3001

**ID** 6.80, **OD** 8.95, **Length** 28.95

Pkg. 10



### 136087 Snap Ring

**Replacing:** 949072-1320, 949072-1360, 949072-1580

**Servicing:** 028000-5334, 028000-5335, 028000-6381, 028000-6382, 028000-6383, 028000-6384, 028000-6391

**OD/housing** 9.50, **Thickness** 1.60  
*Used w/ retaining ring: HC-CARGO 136089.*

Pkg. 5



### 136299 Connection

**Servicing:** 028000-9860, 228000-3620, 228000-3621, 228000-3622, 228000-7640, 228000-7641, 228000-7680

**ID** 8.40, **Length** 25.40,  
**Lead length** 80.00, **Width** 16.50

Pkg. 10



### 136317 Terminal Boot

**Servicing:** 228000-6611

**ID** 20.00, **OD** 26.80

Pkg. 5



### 137590 Grommet

**Servicing:** 028000-5581, 028000-6290, 028000-6291, 028000-6292, 028000-6870, 028000-6880, 028000-6890

**Length:** 97.50 mm.

Pkg. 5



### 137592# Terminal Boot

**Replacing:** 028062-0640, 028062-5050

**Servicing:** 128000-0280, 128000-2140, 128000-2600, 128000-4750, 128000-5080, 128000-6930, 128000-6940

**ID** 9.10, **OD** 26.80, **Length** 46.30

Pkg. 5



### 137865 Retainer

**Replacing:** 028327-0140

**Servicing:** 028000-6280, 128000-1151, 128000-2070, 128000-3111, 128000-3410, 128000-3470, 128000-3471

**ID/housing** 12.30, **OD/housing** 16.40,  
**Thickness** 1.55, **Material** Steel

Pkg. 10



### 137976 Rubber Drain

**Replacing:** 028065-0010, 028065-0100, 281997-4070

**Servicing:** 028000-5581, 028000-5900, 028000-6870, 028000-6880, 028000-6890, 028000-6891, 028000-6892

**OD** 12.60, **Length** 28.15

Pkg. 5



### 138026 Retaining Ring

**Replacing:** 949072-0400

**Servicing:** 028000-0197, 028000-0370, 028000-1010, 028000-1011, 028000-1850, 028000-1970, 028000-1971

**OD/housing** 11.00, **Thickness** 1.60,  
**Material** Steel

*Used w/ retaining ring: HC-CARGO 138027.*





Pkg. 5

**139827** Rubber Drain  
OD 12.00, Length 28.00

Pkg. 10



**231731** Drain Tube  
Replacing: 028062-0272, 028062-6010,  
028062-7081

Servicing: 028000-6721, 028000-7210,  
028000-7290, 028000-7440, 028000-7460,  
028000-7461, 028000-7462  
OD 8.05, Length 8.45

Pkg. 5



**232594** Rubber Drain  
Replacing: 028062-0500, 028062-5790,  
028065-0250, 028065-0290, 028065-0300  
Servicing: 028000-5300, 028000-5301,  
028000-5510, 028000-5511  
OD 9.40, Length 28.95

Pkg. 5



**232596** Grommet  
Servicing: 228000-7151, 128000-7140,  
128000-9730, 128000-9740, 128000-9860,  
128000-9880, 228000-0420  
Length: 46.50 mm.

Pkg. 10



**233080** Retainer



Pkg. 5

**233083** Boot  
Replacing: 028062-0660, 028062-5640  
Servicing: 028000-4650, 028000-7740,  
128000-0300, 128000-2190, 128000-5110

Pkg. 10



**237555** Lock Ring  
Replacing: 028325-0110  
Servicing: 228000-9901, 228000-9902,  
428000-0150, 428000-0151, 428000-0152,  
428000-0700, 428000-0701  
OD/housing 12.72, Thickness 0.99

**NEW PRODUCT**  
[www.hc-cargo.com](http://www.hc-cargo.com)

**332844** Drain Tube  
Servicing: 428000-4500, 428000-4550  
OD 9.80, Length 22.20



**334402** Gasket  
Servicing: 428000-6760, 428000-9140,  
438000-0494  
OD 28.00, Thickness 7.80



**332841** Gasket  
Servicing: 428000-4550, 428000-6760,  
438000-0494, 428000-3372, 438000-0474  
ID 45.50, OD 57.95, Thickness 7.30



## Armatures

12 V



### 133228 Armature

Replacing: 583249

Servicing: 534029, 534029A, 534031, 534031A, 534032, 534032A, 534042A, 534042B, 534043A, 534047, 534057A  
12 Volt, 0.8/1/1.2 kW,  
Bar dist. 2.90, Bar cross dist. 47.20,  
Shaft length 189.00, Bar length 4.75,  
Height/bar 8.00, Core thickness 60.20,  
No./bars 19, No./splines 9, Rotation CW

## Solenoids

12 V

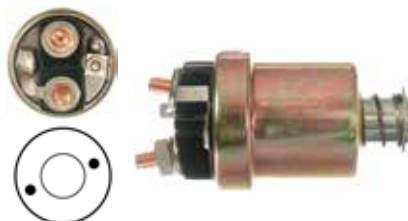


### 131007 Solenoid

Replacing: 581381, 607918, 608407, 682244

Servicing: 6217A, 6217B, 6217C, 6217D, 6217E, 6217F, 6217G, 6217H, 532012, 6208, 6217

12 Volt, B+ M8, OD 45.90,  
OD/cover 50.40, Total length 116.75,  
Height/B+ 13.15, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 9.30,  
No./mount. holes 2, No./terminals 3

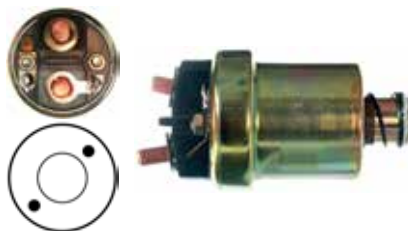


### 131009 Solenoid

Replacing: 1414, 606753, 606893, 618695, 680559, 680560, 680566, 701412, 701414, 8249

Servicing: 6035E, 6081EF, 6189A, 6189B, 6189C, 6189D, 6202B, 6202F, 6212A, 6212B, 6241A, 6241B, 532021, 532023

12 Volt, B+ M8, OD 46.00,  
OD/cover 47.80, Total length 107.80,  
Height/B+ 16.00, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 8.55,  
No./mount. holes 2, No./terminals 3



### 131010 Solenoid

Replacing: 1412, 1424, 1426, 17952, 22405, 583007, 606858, 606892, 606894, 606903, 606913, 618010, 618136

Servicing: 6045B, 6139BC, 6155HJKL, 6185A, 6185ABC, 6185B, 6185C, 6219A, 6219ABC, 6219B, 6219C, 6227A, 6227AB

12 Volt, B+ M8, OD 45.80,  
OD/cover 47.55, Total length 106.60,  
Height/B+ 12.35, Terminal 30H M5,  
Terminal 30H/width 13.00,  
Terminal 50 6.30, No./mount. holes 2,  
No./terminals 4



### 131013 Solenoid

Replacing: 583036

Servicing: 6162C, 6162E, 6190A, 6190AB, 6190B, 532003, 532004, 532008, 532009, 532018, 533002, 6190

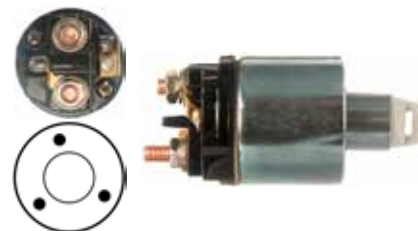
12 Volt, B+ M8, OD 46.00,  
OD/cover 48.35, Total length 119.25,  
Height/B+ 18.60, Terminal 50 M5,  
Coil bolt M8, Coil bolt 2 10.85,  
No./mount. holes 4, No./terminals 3



### 131208 Solenoid

Replacing: 583159, 60111, 606916, 606919, 618220, 680952, 680955, 760111, 777265  
Servicing: 6083B, 6083C, 6083D, 6099CD, 6127C, 6180B, 6232A, 6233A, 6127, 6180, 6232, 6233

12 Volt, B+ M8, OD 45.80,  
OD/cover 47.75, Total length 127.65,  
Height/B+ 16.70, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 9.80,  
No./mount. holes 2, No./terminals 3

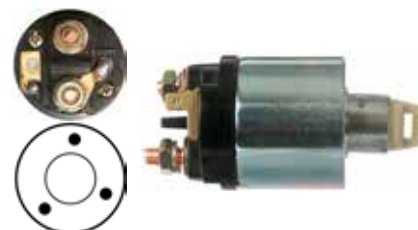


### 133120 Solenoid

Replacing: 583261, 583331, 583618, 683487

Servicing: 532027, 534032, 534032A, 534047, 534051A, 534036, 534056

12 Volt, B+ M8, ID/cover 23.15,  
OD 50.90, OD/cover 51.55,  
Length 42.00, Total length 96.85,  
Height/B+ 16.15, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 12.15,  
No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 132274.



### 133122 Solenoid

Replacing: 583333, 680958, 683262, 683456, 683457

Servicing: 534029, 534029A, 534031, 534031A, 534042, 534042A, 534042B, 534043, 534043A, 534057

12 Volt, B+ M8, ID/cover 23.25,  
OD 50.75, OD/cover 51.65,  
Length 42.00, Total length 97.00,  
Height/B+ 15.85, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 12.10,  
No./mount. holes 3, No./terminals 3



### 133177 Solenoid

Replacing: 680558, 680565

Servicing: 6139, 6155, 6185, 6219, 6185

12 Volt, B+ M8, OD 46.10,  
OD/cover 49.45, Total length 102.80,  
Height/B+ 14.25, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 8.35,  
No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 133774.





### 133178 Solenoid

Replacing: 583079

Servicing: 6183, 6203, 6216, 6220, 6231, 532002, 532010, 532020, 6187, 6231A, 6231B, 6231C, 6231D, 6247

12 Volt, B+ M8, OD 46.30, OD/cover 51.15, Total length 122.00, Height/B+ 19.60, Terminal 50 M5, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 4, No./terminals 3  
Cap: HC-CARGO 131323.

### Solenoid Parts

### Solenoid Caps



Pkg. 5

### 131323 Solenoid Cap

Servicing: 532002, 532003, 532004, 532008, 532010, 532012, 532014, 532016, 532020, 532021, 532023, 583079

ID 38.30, OD 52.35, Coil bolt M8, Coil bolt 2 12.20, No./terminals 3, Bracket type Crimp  
HC-CARGO 133178.

### Moving Contacts



Pkg. 100

### B132147 Moving Contact

OD 2 4.98, Length 33.30, Shaft dim. 43.00, Thickness 2.95, Width 14.00, Shaft w/

### Drives



### 130424 Drive

Replacing: 60846, 681378

Servicing: 6136, 6185, 6185A, 6185B, 6185C, 6219A, 6219B, 6219C, 532021, 532023, 6219

ID 12.00, OD 25.20, OD/housing 46.20, Total length 59.50, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 130425 Drive

Replacing: 60991

Servicing: 6202B, 6202C, 6202D, 6202F, 6202, 6202A

ID 12.00, OD 29.00, OD/housing 46.00, Total length 59.85, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 130432 Drive

Replacing: 605028, 605055, 612355, 680663, 682150

Servicing: 6189D, 6189E, 6189F, 6190A, 6190B, 6212B, 6216A, 6216B, 6216C, 6220A, 6220B, 6220C, 6222, 6226A

ID 12.00, OD 25.25, OD/housing 46.20, Total length 68.05, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130434 Drive

Replacing: 18678, 19567, 606416, 609477, 611736, 681380, 79692

Servicing: 532000A, 532000B, 532001A, 6183B, 6183C, 6183F, 6183G, 6187C, 6187E, 6187F, 6224B, 6224C, 6224D

ID 12.00, OD 25.30, OD/housing 46.45, Total length 61.70, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131188 Drive

Replacing: 17946, 606415, 611734

Servicing: 6155G, 6161H, 532011, 533001

ID 12.00, OD 25.30, OD/housing 47.05, Total length 67.80, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 132078 Drive

Replacing: 16866, 20795, 681398

Servicing: 6056HJ, 6109FGHKL, 6160DEFG, 6192B, 6192BCJ, 6192C, 6192J, 6192K, 6192L, 6193A, 6193AB, 6193B, 6109

ID 14.00, OD 29.30, OD/housing 60.50, Total length 73.38, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132170 Drive

Replacing: 683334

Servicing: 6127C, 6180A, 6232A, 6233A, 6127, 6180, 6232, 6233

ID 14.00, OD 39.75, OD/housing 60.00, Total length 84.75, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 132181 Drive

Replacing: 583277, 583289, 583336

Servicing: 534023, 534029, 534031, 534032, 537039, 534039, 534042

ID 12.00, OD 25.25, OD/housing 46.25, Total length 53.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o w/ lever.





**135389** Drive  
 Replacing: 584185  
 ID 12.00, OD 29.00, OD/housing 54.00,  
 Total length 54.50, No./teeth 11,  
 Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 335230



**235088** Drive  
 Replacing: 072083, 073811, 079238, 079240  
 Servicing: 6083, 6083B, 6083C, 6083D,  
 6099, 6083, 6083B, 6083C, 6083D, 6099CD  
 ID 14.00, OD 40.00, OD/housing 57.80,  
 Total length 75.15, No./teeth 10,  
 Rotation CW, Key spline w/o, Lock w/o



**335230** Drive  
 Replacing: 584185  
 ID 12.00, OD 29.40, OD/housing 52.65,  
 Total length 54.50, No./teeth 11,  
 Drive type Steel, Rotation CW  
 Alternative no.: 135389

## Brush Gears

### Brush Gear Parts

### Brush Springs

Pkg. 10



**133889** Brush Spring  
 Servicing: 534053C  
 ID 11.20, OD 12.60, Length 42.45,  
 Material Steel

## Bushings

Pkg. 10



**140038** Bushing  
 Replacing: 98888  
 Servicing: 6128, 6136, 6172, 6227  
 ID 10.07, OD 13.05, Length 12.00,  
 Type Standard, Material Copper, Pin w/o  
 Alternative no.: B140038

Pkg. 10



**140040** Bushing  
 Replacing: 601476, 68412, 97658  
 Servicing: M78, M79, 532012, 532014,  
 532016, 532021, 532023, 532027, 533000,  
 534002, 534004, 534005, 534007, 534009  
 ID 12.00, OD 15.00, Length 12.00, Ma  
 terial Copper, Pin w/o  
 Alternative no.: B140040

Pkg. 10



**140042** Bushing  
 Replacing: 600609, 600628  
 Servicing: 532003, 532004, 532008, 532014,  
 536001, 6220, 6247  
 ID 13.04, OD 15.05, Length 14.50,  
 Type Standard, Material Copper, Pin w/o  
 Alternative no.: B140042

Pkg. 10



**140043** Bushing  
 Replacing: 68430, 68902, 68903, 84909  
 Servicing: 532002, 532003, 532004, 532008,  
 532009, 532010, 532011, 532012, 532018,  
 532020, 533000, 533001  
 ID 12.10, OD 15.05, Length 15.00,  
 Material Copper, Pin w/o  
 Alternative no.: B140043

Pkg. 10



**140050** Bushing  
 Replacing: 672541  
 ID 10.08, OD 14.02, Length 13.50,  
 Type Standard, Material Copper, Pin w/o  
 Alternative no.: B140050

Pkg. 10



**140064** Bushing  
 Replacing: 82775  
 ID 12.06, OD 15.07, Length 19.90,  
 Type Standard, Material Copper, Pin w/o  
 Alternative no.: B140064

Pkg. 10



**140068** Bushing  
 Replacing: 87880  
 ID 17.05, OD 21.05, Length 20.00,  
 Type Standard, Material Copper, Pin w/o

Pkg. 10



**140257** Bushing  
 Replacing: 94909  
 Servicing: 6236, 6239  
 ID 15.95, OD 19.15, Length 14.00,  
 Type Standard, Material Copper, Pin w/o  
 Alternative no.: B140257

Pkg. 10



**140264** Bushing  
 Replacing: 28936  
 Servicing: 6109, 6127, 6180, 6192, 6232, 6233  
 ID 16.27, OD 19.15, Length 15.00,  
 Material Copper, Pin w/o  
 Alternative no.: B140264



Pkg. 100

Pkg. 100

### 140533

Bushing Kit

Replacng: 583348

Servicing: 532000A, 532000AB, 532000B, 532001A, 6045B, 6081EF, 6083B, 6083C, 6083D, 6155HJKL, 6176EG, 6183B

ID 12.07, OD 15.07, Length 12.01,

Type Standard, Material Copper, Pin w/o

Pkg. 10

### 140621

Bushing

ID 12.00, OD 13.20, Length 16.15, Material Steel, Pin w/

Pkg. 100

### B140038

Bushing

Replacng: 98888

ID 10.07, OD 13.05, Length 12.00,

Material Copper, Pin w/o

Alternative no.: 140038

Pkg. 100

### B140040

Bushing

Replacng: 601476, 68412, 97658

ID 11.95, OD 15.00, Length 12.00,

Material Copper, Pin w/o

Alternative no.: 140040

### B140042

Bushing

Replacng: 600609, 600628

ID 13.04, OD 15.05, Length 14.50,

Material Copper, Pin w/o

Alternative no.: 140042

Pkg. 100

### B140043

Bushing

Replacng: 68430, 68902, 68903, 84909

ID 12.10, OD 15.05, Length 15.00,

Material Copper, Pin w/o

Alternative no.: 140043

Pkg. 100

### B140050

Bushing

Replacng: 672541

ID 10.08, OD 14.04, Length 13.50,

Material Copper, Pin w/o

Alternative no.: 140050

Pkg. 100

### B140064

Bushing

Replacng: 82775

ID 12.06, OD 15.07, Length 19.90,

Material Copper, Pin w/o

Alternative no.: 140064

### B140257

Bushing

Replacng: 94909

ID 15.95, OD 19.15, Length 14.00,

Material Copper, Pin w/o

Alternative no.: 140257

Pkg. 100

### B140264

Bushing

Replacng: 28936

ID 16.26, OD 19.15, Length 14.90,

Material Copper, Pin w/o

Alternative no.: 140264

## Sundry Parts

### Various

Pkg. 10

### 134158

Lock Ring

Servicing: 532002, 532009, 532010, 532011, 532018, 532021, 532023, 534002, 538006, 6172, 6185, 6202F, 6219



## Armatures

12 V



### 130945 Armature

Replacing: 8083006

Servicing: B76-0.5/12

12 Volt, 0.5 kW, Bar dist. 2.50,  
Bar cross dist. 31.70, Shaft dia. 15.90,  
Shaft length 230.00, Bar length 4.30,  
Height/bar 4.40, Height/bar lane 19.65,  
Core thickness 51.75, No./bars 19,  
No./splines 2, Rotation CCW

## Solenoids

12 V



### 130848 Solenoid

Replacing: 8088006

Servicing: B76-0.5/12

12 Volt



### 131437 Solenoid

Replacing: 9240000, 9244000, 9540000

Servicing: 8020010000, 8020020000,  
8020040000, 8020060000, 8060000,  
8100001, 8120000, 8180000, 8190000

12 Volt, B+ M8, ID/cover 22.00,  
OD 50.40, OD/cover 50.40,  
Length 65.15, Total length 127.50,  
Height/B+ 21.45, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 23.00,  
No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 132229. Moving Contact:  
HC-CARGO 132246.

## Solenoid Parts

### Solenoid Caps

Pkg. 5



### 132229 Solenoid Cap

Servicing: E100N-1.5/12, R100.02, R76.02,  
R76A, R80.04, R80K

ID 36.55, OD 52.45, Coil bolt M8,  
Coil bolt 2 20.50, No./terminals 3  
HC-CARGO 131437, 132227, 132228, 133083,  
133566, 230325.

## Drives



### 130740 Drive

Replacing: 8087006

Servicing: B76-0.5/12

ID 11.50, OD 25.30, OD/housing 41.30,  
Total length 65.00, No./teeth 9,  
Rotation CCW, Key spline w/o, Lock w/o



### 132075 Drive

Replacing: 9087000

Servicing: E100N-1.5/12, R100.02

ID 14.00, OD 29.00, OD/housing 46.20,  
Total length 70.00, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 133841 Drive

Replacing: 8097002

Servicing: R76.02, R76A

ID 11.50, OD 25.00, OD/housing 44.00,  
Total length 65.30, Splines A 12,  
No./teeth 9, Rotation CCW,  
Key spline w/o, Lock w/o  
Alternative no.: 333855



### 333855 Drive

Replacing: 8097002

Servicing: R76.02, R76A

ID 11.50, OD 25.00, OD/housing 39.00,  
Total length 65.30, No./teeth 9,  
Drive type Steel, Rotation CCW,  
Key spline w/o, Lock w/o  
Alternative no.: 133841

## Brush Sets



### BSX964 Brush Set

Replacing: 8060014040

Servicing: R11K

12 Volt, Length 23.00,  
Lead length 43.00, Height 25.00,  
Thickness 10.00  
Alternative no.: Bs96



### JSX134 Brush Set

Replacing: 9084040

Servicing: E100, E100-1.5/12, E100N-1.5/12

12 Volt, Length 20.00,  
Lead length 33.50, Height 16.00,  
Thickness 7.00



### JSX52 Brush Set

Replacing: 8084046

12 Volt, Length 17.00,  
Lead length 24.50, Height 16.00,  
Thickness 6.00



## Bushings

Pkg. 10



### 140046 Bushing

Replacing: 9084020

Servicing: E100N-1.5/12, R100.02

ID 12.00, OD 16.00, Length 16.90,

Material Copper, Pin w/o

Alternative no.: B140046

Pkg. 10



### 140049 Bushing

Replacing: 9085020

Servicing: E100N-1.5/12, R100.02

ID 12.11, OD 16.01, Length 24.00,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140049

Pkg. 10



### 140050 Bushing

Replacing: 8084316

Servicing: E80-1/12, R76.02, R76A, R80C

ID 10.08, OD 14.02, Length 13.50,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140050

## Sundry Parts

### Insulators

Pkg. 10



### 132323 Insulator

Replacing: 15001880, 15301880

Servicing: A12M, AA124, A124N

## Various

Pkg. 5



### 234715 Rubber Gasket

Replacing: 8085316

Servicing: B76-0.5/12



## Solenoids

### 12 V



#### 130377 Solenoid

Replacing: 30430-1

Servicing: MTD12-14, MTS12-22, MTS12-39, MTA12-P30, MTA12P-7, MTS12-1, MTS12-21, MTS12-23, MTS12-23S, MTS12-29

12 Volt, B+ M8, OD 54.70, OD/cover 64.35, Total length 148.85, Height/B+ 22.40, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 22.40, No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 131325.



#### 131437 Solenoid

Replacing: 10332-9

Servicing: MTA12-13, MTA12-3, MTA12-19, MTA12-19M, MTA12-30, MTA12-37, MTA12-40, MTA12-41, MTA12-43, MTA12-P19

12 Volt, B+ M8, ID/cover 22.00, OD 50.40, OD/cover 50.40, Length 65.15, Total length 127.50, Height/B+ 21.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 23.00, No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.

## Solenoid Parts

### Solenoid Caps



#### 131325 Solenoid Cap

Servicing: 30430-1, MTA12-19, MTA12-19M, MTA12-2, MTA12-30, MTA12-37, MTA12-40, MTA12-43, MTA12-H04, MTA12-H08

ID 42.85, OD 57.00, Coil bolt M8, Coil bolt 2 21.15, No./terminals 3  
HC-CARGO 130377.  
Alternative no.: 130377

Pkg. 5



#### 132229 Solenoid Cap

Servicing: 10332-9, MTA12-19, MTA12-19M, MTA12-37, MTA12-43, MTA12-P19, MTS12-22, MTS12-29, MTS12-39, MTS12-42

ID 36.55, OD 52.45, Coil bolt M8, Coil bolt 2 20.50, No./terminals 3  
HC-CARGO 131437, 132227, 132228, 133083, 133566, 230325.

## Drives



#### 130449 Drive

Replacing: 14898-1

Servicing: MTJ12-1, MTU12-1

ID 16.00, OD 29.10, OD/housing 36.90, Total length 58.00, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



#### 130731 Drive

Replacing: 17061-12

Servicing: MTA12-30

ID 11.55, OD 29.20, OD/housing 45.00, Total length 61.90, Splines A 12, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



#### 130737 Drive

Replacing: 17061-14, 17061-3

Servicing: MTS12-1, MTS12-22, MTS12-23, MTS12-29, MTS12-34, MTS12-39, MTS12-42, MTS12-47, MTS12-48, MTS12-3

ID 11.70, OD 25.55, OD/housing 43.70, Total length 71.15, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



#### 130738 Drive

Replacing: 17061-10

Servicing: MTD12-14, MTD12-19, MTD12-9  
ID 14.00, OD 29.15, OD/housing 46.20, Total length 68.00, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



#### 130920 Drive

Replacing: 9328, 9586-1

Servicing: MTC252-2, MTC252-6, MTC252-7, MTC402-15, MTC402-2, MTA12-1

ID 12.00, OD 26.95, OD/housing 41.15, Total length 60.65, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o



#### 131713 Drive

Replacing: 15053-4

Servicing: MTL12-11

ID 14.30, OD 41.00, OD/housing 54.15, Total length 90.00, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



#### 131714 Drive

Replacing: 3350, 3550

Servicing: MTA24-2, MTA24-4, MTH24-1, MTH24-2, MTH24-3

ID 14.60, OD 41.00, Total length 120.00, Shaft length 98.00, Splines A 3, No./teeth 11, Key spline w/o, Lock w/o





### 131716 Drive

Replacing: 17061-26

ID 11.55, OD 29.30, OD/housing 46.40,  
Total length 71.00, No./teeth 11,  
Rotation CW, Key spline w/o, Lock w/o

### Brush Sets



### BSX124 Brush Set

Replacing: 13784-27

Servicing: MTL12-1, MTL12-10, MTL12-11,  
MTL12-14, MTL12-16, MTL12-20, MTL12-3,  
MTL12-8, MTL12-9, MTN12-1

6/12 Volt, Length 25.50,  
Lead length 32.00, Height 13.00,  
Thickness 9.00



### BSX444 Brush Set

Replacing: 13784-29, 13784-83

Servicing: MOE12-12, MOE12-13, MOE12-5,  
MOE12-7, MOL12-1, MOL12-8, MTP12-1,  
MTP12-16, MTP12-17, MTP12-3

12 Volt, Length 22.50,  
Lead length 43.00, Height 22.00,  
Thickness 8.00



### FESX25-262 Brush Set

Replacing: 13784-84

Servicing: MOB12-2

12 Volt, Length 18.00,  
Lead length 39.50, Height 16.00,  
Thickness 6.00



### JSX134 Brush Set

Replacing: 13784-59, 13784-7

Servicing: E100, MTD12-14, MTD12-18,  
MTD12-19, MTD12-1, MTR12-1, MTR12-6,  
MTR24-2, MTR24-7

12 Volt, Length 20.00, Lead length 33.50,  
Height 16.00, Thickness 7.00



### JSX162 Brush Set

Replacing: 13784-37

Servicing: E84, MTS12-1, MTS12-10, MTS12-22,  
MTS12-23, MTS12-29, MTS12-3, MTS12-34,  
MTS12-37, MTS12-39, MTS12-42

12 Volt, Length 19.00, Lead length 31.00,  
Height 17.00, Thickness 8.00



### JSX52 Brush Set

Replacing: 13784-5, 13784-68

Servicing: MOA12-10, MOA12-13, MOA12-2,  
MOB12-1, MOK12-1, MTA12-1, MTA12-13,  
MTA12-14, MTA12-19, MTA12-20

12 Volt, Length 17.00, Lead length 24.50,  
Height 16.00, Thickness 6.00

### Bushings



### 140004 Bushing

Replacing: 3305-69

Servicing: MTL12-1, MTL12-10, MTL12-11,  
MTL12-14, MTL12-16, MTL12-20, MTL12-3,  
MTL12-8, MTL12-9, MTN12-1

ID 14.08, OD 17.58, Length 15.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140004



### 140010 Bushing

Replacing: 3305-74

Servicing: MOE12-12, MOE12-13, MOE12-5,  
MOE12-7, MOL12-1, MOL12-8, MTL12-1,  
MTL12-10, MTL12-11, MTL12-14

ID 12.59, OD 16.55, Length 18.00,  
Material Copper, Pin w/o  
Alternative no.: B140010



### 140014 Bushing

Replacing: 3305-44, 3305-89

Servicing: MTA12-1, MTA12-3, MTA12-6,  
MTA12-13, MTA12-20, MTA12-30, MTA12-38,  
MTA12-39, MTA12-40, MTA12-42

ID 10.08, OD 14.09, Length 13.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140014



### 140020 Bushing

Replacing: 3305-71

ID 19.13, OD 25.09, Length 10.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140020



### 140043 Bushing

Replacing: 3305-2, 3305-56

Servicing: MTO51-2

ID 12.10, OD 15.05, Length 15.00,  
Material Copper, Pin w/o  
Alternative no.: B140043



Pkg. 10



### 140064 Bushing

Replacing: 3305-3

Servicing: MTO51-2

ID 12.06, OD 15.07, Length 19.90,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140064

Pkg. 10



### 140065 Bushing

Replacing: 3305-40

ID 14.07, OD 18.05, Length 20.15,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140065

Pkg. 10



### 140155 Bushing

Replacing: 12665-12

Servicing: MOA12-10, MOA12-13, MOA12-2,  
MOB12-1, MOB12-2, MOK12-1, MTA12-19,  
MTA12-37, MTA12-43, MTV12-3

ID 10.06, OD 14.05, OD/collar 16.50,  
Length 13.00, Height/collar 2.00,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140156 Bushing

Replacing: 3305-13

Servicing: MOA12-10, MOA12-13, MOA12-2,  
MOB12-1, MOB12-2, MOK12-1, MTA12-1,  
MTA12-13, MTA12-14, MTA12-19

ID 10.08, OD 14.03, Length 13.60,  
Material Copper, Pin w/o

Pkg. 10



### 140269 Bushing

Replacing: 3835-38

ID 12.03, OD 16.02, Length 17.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140269

Pkg. 10



### 140436 Bushing

Replacing: 3305-10

Servicing: MTB12-1, MTC82-3, MTC82-8,  
MTD12-1, MTD12-14, MTD12-18, MTD12-19,  
MTR12-1, MTR12-6, MTR24-2

ID 12.04, OD 16.00, Length 16.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140436

Pkg. 10



### 140690 Bushing

ID 11.53, OD 13.50, Length 23.00,  
Material Copper, Pin w/o  
Alternative no.: B140690

Pkg. 100



### B140010 Bushing

Replacing: 3305-74

ID 12.56, OD 16.55, Length 18.00,  
Material Copper, Pin w/o  
Alternative no.: 140010

Pkg. 100



### B140014 Bushing

Replacing: 3305-44, 3305-89

ID 10.08, OD 14.09, Length 13.00,  
Material Copper, Pin w/o  
Alternative no.: 140014

Pkg. 100



### B140020 Bushing

Replacing: 3305-71

ID 19.13, OD 25.09, Length 10.00,  
Material Copper, Pin w/o  
Alternative no.: 140020

Pkg. 100



### B140043 Bushing

Replacing: 3305-2, 3305-56

ID 12.10, OD 15.05, Length 15.00,  
Material Copper, Pin w/o  
Alternative no.: 140043

Pkg. 100



### B140064 Bushing

Replacing: 3305-3

ID 12.06, OD 15.07, Length 19.90,  
Material Copper, Pin w/o  
Alternative no.: 140064



Pkg. 100



**B140065** Bushing  
 Replacing: 3305-40  
 ID 14.07, OD 18.05, Length 20.15,  
 Material Copper, Pin w/o  
 Alternative no.: 140065

Pkg. 100



**B140269** Bushing  
 Replacing: 3835-38  
 ID 12.03, OD 16.02, Length 17.00,  
 Material Copper, Pin w/o  
 Alternative no.: 140269

Pkg. 100



**B140436** Bushing  
 Replacing: 3305-10  
 ID 12.04, OD 16.00, Length 16.00,  
 Material Copper, Pin w/o  
 Alternative no.: 140436

Pkg. 100



**B140690** Bushing  
 ID 11.53, OD 13.50, Length 23.00,  
 Material Copper, Pin w/o  
 Alternative no.: 140690

## Sundry Parts

### Various



**231001** Washer Kit  
 Replacing: 24460-M8011



## Armatures

12 V



### 130115 Armature

Replacing: 78GB11005BA, 83BB11005BA  
Servicing: 6160440, 835F11000AC  
12 Volt, 2.4 kW, Bar dist. 3.60,  
Bar cross dist. 42.30, Shaft dia. 18.85,  
Shaft length 290.00, Bar length 10.00,  
Height/bar 7.40, Height/bar lane 22.45,  
Core thickness 75.00, No./bars 21,  
No./splines 10, Rotation CW  
9 V: HC-CARGO 133087.  
Alternative no.: 133087



### 130210 Armature

Replacing: C5NF11005C  
Servicing: M50  
12 Volt, 2.8 kW, Shaft length 303.30,  
Height/bar 5.40, Height/bar lane 25.60,  
Core thickness 84.00, No./bars 21,  
No./splines 3, Rotation CW



### 139352 Armature

Replacing: F4TZ11005A, SM461  
Servicing: F4PU11000AA, F4TZ11002A  
12 Volt, 2.5 kW, Shaft dia. 17.55,  
Shaft length 169.40, Height/bar 5.60,  
Height/bar lane 30.40,  
Core thickness 53.45, No./bars 23



### 139646 Armature

Replacing: E5PZ11005A  
Servicing: E3TZ11002A, E5TZ11002B,  
E8TZ11002A, E8TF11000AA, F3TU11000AA  
12 Volt, 2.5 kW, Shaft dia. 21.80,  
Shaft length 177.50, Height/bar 4.90,  
Height/bar lane 30.80, Core thickness 60.00,  
No./bars 23, No./teeth 9, Rotation CW



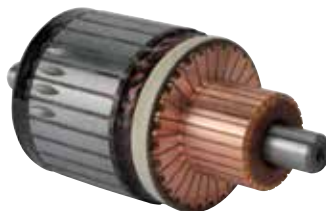
### 230739 Armature

Replacing: XC1U11005AA  
Servicing: 1024508, 1027928, 1058429,  
1059179, 1073093, 1073108, 1093471,  
1105310, 1118336, 1120215, 1126987  
12 Volt, 1.9/2.2 kW, Bar dist. 2.90,  
Bar cross dist. 30.50, Shaft length 156.00,  
Bar length 6.30, Height/bar 7.64,  
Height/bar lane 25.34, Core thickness 54.00,  
No./bars 17, No./teeth 11



### 231080 Armature

Servicing: 1063999, 1064000, 1067622,  
1229427, 1233234, 1254222, 1368970,  
1469712, 157U11000AB, 157U11000AC  
12 Volt, Bar dist. 2.10, Bar cross dist. 32.80,  
Shaft length 122.00, Bar length 3.67,  
Height/bar 4.94, Height/bar lane 19.75,  
Core thickness 44.00, No./teeth 9, Rotation CW



### 231138 Armature

Replacing: F2TZ11005A, SM482  
Servicing: 1057654, 1057661, 1061272,  
1076141, 1085273, 1087280, F7PU11000BA,  
F7PU11000EA, F7PZ11002A  
12 Volt, Bar dist. 2.50, Bar cross dist. 41.50,  
Shaft dia. 17.80, Shaft length 126.55,  
Bar length 4.20, Height/bar 4.10,  
Height/bar lane 22.80, Core thickness 55.45,  
No./bars 28, No./teeth 11, Rotation CW/CCW



### 231471 Armature

Replacing: F4XY11005A  
Servicing: F32Z11002B  
12 Volt, 1.7/2 kW, Shaft dia. 13.72,  
Shaft length 143.55, Height/bar 4.05,  
Height/bar lane 25.30, Core thickness 54.00,  
No./bars 25, No./teeth 11, Rotation CW/CCW



### 235725 Armature

Servicing: 1140757, 1144505, 1151216,  
1151642, 1197912, 1205240, 1209193,  
1345314, 1525794, 1525795, 1535628  
12 Volt, 1.1 kW, Bar dist. 2.10,  
Bar cross dist. 32.80, Shaft dia. 6.98,  
Shaft length 110.53, Bar length 3.67,  
Height/bar 4.94, Height/bar lane 19.75,  
Core thickness 44.36, No./bars 23,  
No./teeth 9



### 237507 Armature

Servicing: 1477974, 1231963, 1351989,  
1376305, 1385784, 1469721, 2T1411000CB,  
2T1411000CC, 3M5T11000DB  
12 Volt, 2.2 kW, Shaft length 146.70,  
Height/bar lane 26.00, Core thickness 53.80,  
No./bars 17, No./teeth 10



### 330215# Armature

Servicing: 1387092, 6G9N11000EB, 6G9N11000EC  
12 Volt, 2.0 kW, Bar dist. 2.90,  
Bar cross dist. 30.50, Shaft dia. 10.00,  
Shaft length 146.75, Bar length 6.30,  
Height/bar 7.64, Height/bar lane 25.34,  
Core thickness 53.80, No./bars 17,  
No./teeth 10



### 330929 Armature

Servicing: 1476606, 6G9N11000GB,  
1465115, 1529431, 4M5T11000FC,  
6G9N11000GC  
12 Volt, 2.2 kW, Bar dist. 2.90,  
Bar cross dist. 30.50, Shaft dia. 10.00,  
Shaft length 146.90, Bar length 6.30,  
Height/bar 7.64, Height/bar lane 25.34,  
Core thickness 53.77, No./bars 17,  
No./teeth 10, Rotation CW



## Yokes

12 V



### 230740 Yoke

Replacing: F7RU11075AA1

Servicing: 1024508, 1027928, 1058429, 1059179, 1073093, 1073108, 1093471, 1105310, 1118336, 1126987, 1133994

12 Volt, 2.2 kW, ID 54.50, OD/middle 79.00, Length 128.00, Brush gear w/o, Magnets w/, O-ring w/o

## Field Coils

12 V



### 135338 Field Coil

Replacing: E3PZ11062A

Servicing: 20MT, 27MT,

12 Volt, Lead length 48.75, Height 130.40, Width 243.90, Internal height 100.90, Inner width 31.85, Brush gear w/o

## C.E. Brackets



### 230897 C.E. Bracket

Servicing: 1024508, 1027928, 1058429, 1059179, 1073093, 1073108, 1093471, 1105310, 1118336, 1126987, 1477974

OD 79.00, Height 18.30



### 232490 C.E. Bracket

Replacing: E5PZ11049A

Servicing: E8TF11000AA, F3TU11000AA

ID 84.50, OD 91.00, Height 52.00



### 232491 C.E. Bracket

Replacing: F4TZ11049A

ID 77.04, OD 86.21, Height 48.15



### 235114 C.E. Bracket

Servicing: 1120215, 1140110, 1151641, 1214371, 1387062, 1450653, 157U11000BA, 157U11000BB, 157U11000BC

ID 72.70, OD 79.00, Height 24.00  
ID hole 22.00 for bearing

## D.E. Brackets



### 234989 D.E. Bracket

Servicing: 1120215, 1140110, 1151641, 1551240, 1214371, 1387062, 1449615, 1450653, 1541002, 157U11000BA

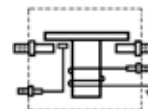
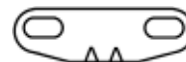


### 238850 D.E. Bracket

Servicing: 1133994, 1477974, 154U11000AB, 154U11000AA, 2T1411000CB, 2T1411000CC, 4424968, 98AB11000AD

## Solenoids

12 V



### 130493 Solenoid

Replacing: B6AZ11450A, BD7T11450A, BD7T11450T, C7AF11450A, D2DZ11450A, D9AZ11450A, SW03

12 Volt, Intermittent load 150 Amp., B+ 5/16" UNF, OD 42.30, Total length 62.30, Height/B+ 15.00, Terminal 15A/width 12.75, Terminal 50 10-32 UNF, Coil bolt 5/16" UNF, Coil bolt 2 15.00, No./mount. holes 2, No./terminals 4



### 130499 Solenoid

Replacing: D6TZ11390A

Servicing: 10MT, 20MT, 25MT, 27MT

12 Volt, B+ 3/8" UNC, ID/cover 31.35, OD 59.80, OD/cover 65.10, Total length 122.15, Terminal 50 8-32 UNC, Coil bolt 3/8" UNC, No./mount. holes 2, No./terminals 4  
Cap: HC-CARGO 130497.


### 130855 Solenoid

Replacing: 2701E11390A, D4NN11390B, D7NN11390B

Servicing: M45G

12 Volt, B+ M8, OD 53.80, OD/cover 59.25, Total length 172.75, Height/B+ 21.00, Terminal 15A/width 13.45, Terminal 30H 9.40, Terminal 30H/width 15.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 21.00, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 131274.





### 131189 Solenoid

Replacing: 78GB11390AA

12 Volt, B+ M8, ID/cover 29.85, OD 61.00, OD/cover 53.10, Length 82.25, Total length 171.75, Height/B+ 19.00, Terminal 50 M5, Coil bolt M10, Coil bolt 2 17.00, No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 133159.



### 131248 Solenoid

Replacing: 2701E11390A, D4NN11390B, D7NN11390B

Servicing: M50

12 Volt, B+ M8, ID/cover 26.00, OD 55.20, OD/cover 59.75, Length 93.10, Total length 204.65, Height/B+ 22.55, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 18.10, No./mount. holes 2, No./terminals 4  
Cap: HC-CARGO 131275.



### 131363 Solenoid

Replacing: C3TS11390A, C3TZ11390A, E1HZ11390A

Servicing: 40MT, 50MT

12 Volt, B+ 1/2" UNC, OD 74.60, Total length 201.00, Height/B+ 28.00, Terminal 15A/width 9.00, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, Coil bolt 2 18.00, No./mount. holes 4, No./terminals 4, Fork lever w/o  
Insulated return. Square type. Cap: HC-CARGO 131367.



### 131369 Solenoid

Replacing: E6HZ11390B, E6HZ11390C

Servicing: 42MT

12 Volt, B+ 1/2" UNC, OD 68.80, OD/cover 78.10, Total length 177.80, Height/B+ 26.00, Terminal 15A/width 12.50, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, Coil bolt 2 17.50, No./mount. holes 3, No./terminals 4, Fork lever w/o  
Insulated return. Cap: HC-CARGO 135324.  
Solenoid w/ plunger: HC-CARGO 234476.



### 131590 Solenoid

Replacing: E3PZ11390A, E4FZ11390A, SW1864

Servicing: 5MT, 22MT

12 Volt, B+ 3/8" UNC, ID/cover 28.50, OD 59.90, OD/cover 65.55, Total length 105.25, Height/B+ 14.50, Terminal 15A/width 10.00, Terminal 50 10-32 UNF, Coil bolt 3/8" UNC, No./mount. holes 2, No./terminals 4, Fork lever w/o  
Insulated return. Cap: HC-CARGO 137809.



### 131786 Solenoid

Replacing: D7NN11390A

Servicing: 2M113, M45G,

12 Volt, B+ M8, ID/cover 26.40, OD 53.65, OD/cover 60.25, Length 93.65, Total length 179.85, Height/B+ 19.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.25, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 131015.



### 131788 Solenoid

Replacing: 2701E11390A, D4NN11390B, D7NN11390B

Servicing: M50

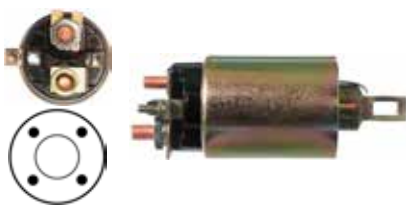
12 Volt, B+ M8, ID/cover 26.10, OD 53.65, OD/cover 60.00, Length 91.90, Total length 204.45, Height/B+ 26.45, Terminal 15A/width 14.00, Coil bolt M6, Coil bolt 2 13.65, No./mount. holes 2, No./terminals 4



### 132473 Solenoid

Replacing: E3TZ11390A

12 Volt, B+ M8, ID/eye 6.70, OD 54.75, OD/cover 49.20, Total length 148.30, Height/B+ 18.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 18.15, Fork lever w/, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 134625.



### 132917 Solenoid

Replacing: SB417

12 Volt, B+ M10, ID/eye 7.45, OD 55.20, OD/cover 48.50, Total length 146.00, Height/B+ 19.65, Terminal 50 9.40, Coil bolt M10, Coil bolt 2 13.00, No./mount. holes 4, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133287.



### 133043 Solenoid

Replacing: E2NN11390AA

12 Volt, B+ M8, ID/cover 22.00, ID/eye 7.30, OD 52.30, OD/cover 44.35, Length 64.20, Total length 129.85, Height/B+ 16.55, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 15.55, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133276.



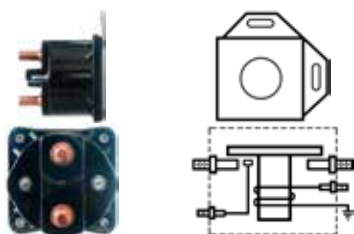


### 133531 Solenoid

Replacing: E4NN11390AC

Servicing: M127, 71YB11000AA

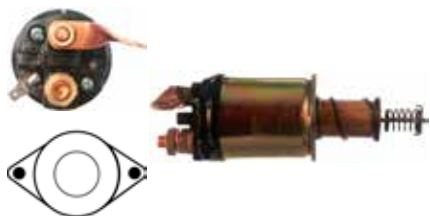
12 Volt, B+ M8, ID/cover 25.90, ID/eye 5.45, OD 53.85, OD/cover 60.00, Length 92.35, Total length 181.00, Height/B+ 13.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.00, No./mount. holes 2, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 131015.



### 133856 Solenoid

Replacing: SW1162

12 Volt, 100 Amp, Intermittent load 800 Amp., B+ M8, OD/cover 49.25, Total length 54.75, Height/B+ 14.20, Terminal 15A/width 9.85, Terminal 50 M5, Coil bolt M8, Coil bolt 2 14.20, No./terminals 4  
3.95-4.15 coil resistance.

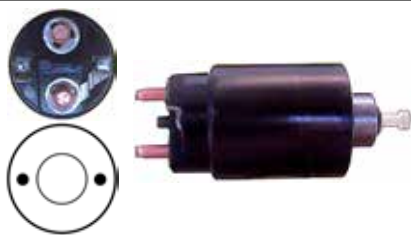


### 134888 Solenoid

Replacing: 84VB11390AA

Servicing: M127/2.8 KW

12 Volt, B+ M10, ID/cover 26.00, OD 53.60, OD/cover 59.70, Length 92.45, Total length 181.45, Height/B+ 24.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.65, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 132270.

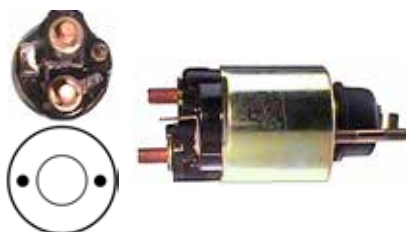


### 136632 Solenoid

Replacing: E02Z11390A, E90Z11390A, E90Z11390B, F02Z11390A, F3VY11390A, F3VY11390B, F4DZ11390A, SW2188, SW2207

Servicing: E90F11000AA, E90F11000BA, E9SF11000AA, E9SF11000BA, F02F11000AA, F07U11000AA, F07U11000BA

12 Volt, B+ M8, OD 51.40, Total length 126.90, Height/B+ 15.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.50, No./mount. holes 2, No./terminals 3, Fork lever w/o



### 137720 Solenoid

Replacing: 81AB11390BA

Servicing: 81AB11000FA

12 Volt, B+ M8, OD 50.80, OD/cover 50.00, Total length 118.20, Height/B+ 11.55, Terminal 15A/width 9.95, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.30, No./mount. holes 2, No./terminals 4



### 138496 Solenoid

Replacing: E3RZ11390A, F3RZ11390A, F3RZ11390B, F78Z11390AA, SW2506, SW2507, SW5204, XS6U11390AA, XS7U11390AA

Servicing: 1061272, 1231963, 1477974, 1480550, 157U11000BA, 157U11000BB, 157U11000BC, 354T11000AC, 4033064

12 Volt, B+ M8, OD 51.45, Total length 131.80, Height/B+ 16.50, Terminal 50 M6, Coil bolt M8, Coil bolt 2 17.00, No./mount. holes 2, No./terminals 4, Fork lever w/o  
Cap: HC-CARGO 138497. Moving contact: HC-CARGO 137529.

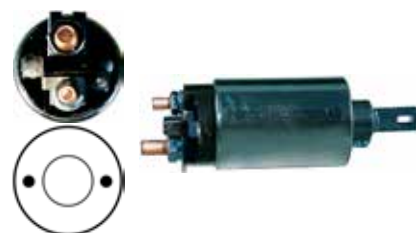


### 139209 Solenoid

Replacing: E7HZ11390B, SW2157

Servicing: 37MT, F3HT11001AB, F3HZ11002C

12 Volt, B+ 1/2" UNC, ID/cover 32.00, OD 68.75, OD/cover 77.40, Total length 179.00, Height/B+ 26.00, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, No./mount. holes 3, No./terminals 3, Fork lever w/o

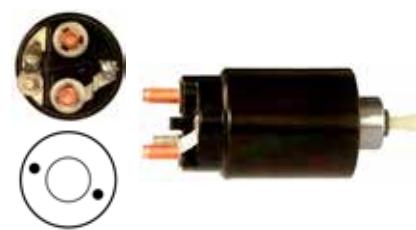


### 139614 Solenoid

Replacing: E4TZ11390A, E5PZ11390A

Servicing: E8TF11000AA, F3TU11000AA

12 Volt, B+ M10, ID/eye 6.80, OD 55.00, OD/cover 49.00, Total length 171.15, Height/B+ 23.65, Terminal 50 M5, Coil bolt M8, Coil bolt 2 10.00, No./mount. holes 2, No./terminals 3, Fork lever w/



### 231178 Solenoid

Replacing: F6VZ11390AA, SW5112, SW5203

Servicing: F6VU11000AA, F75U11000AA, F7LU11000BA, F7PU-11000-AA, F7PU-11000-DA, F7PU-11000-EA, F7PU11000BA

12 Volt, B+ M8, OD 51.35, OD/cover 44.50, Total length 126.50, Height/B+ 12.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 12.00, No./mount. holes 2, No./terminals 3





### 231179 Solenoid

**Replacing:** F75Z11390AA, F8ZZ11390AA, F8ZZ11390AB, F8ZZ11390BA, SW5189  
**Servicing:** F75U11000AB, F77U11000AA, F7UZ1002AA, F81U11000AA, F81U11000AC, F81Z11002AA  
 12 Volt, B+ M8, OD 51.40, OD/cover 44.75, Total length 126.60, Height/B+ 12.50, Terminal 50 M6, Coil bolt M8, Coil bolt 2 12.50, No./mount. holes 2, No./terminals 3  
*Cap: HC-CARGO 231180.*



### 231454 Solenoid

**Replacing:** F4XY11390A  
 12 Volt, B+ M8, ID/cover 24.70, OD 51.55, OD/cover 45.15, Length 43.20, Total length 105.00, Height/B+ 14.40, Coil bolt M8, Coil bolt 2 14.40, No./mount. holes 2, No./terminals 3  
*Cap: HC-CARGO 231107.*



### 231457 Solenoid

**Replacing:** F4TZ11390A  
 12 Volt, B+ M10, ID/eye 6.15, OD 55.15, OD/cover 48.55, Total length 143.00, Height/B+ 25.25, Terminal 50 M5, Coil bolt M8, Coil bolt 2 18.95, Fork lever w/, No./mount. holes 2, No./terminals 3



### 231914 Solenoid

**Replacing:** SW2114  
**Servicing:** 37MT  
 12 Volt, B+ 1/2" UNC, ID/cover 32.25, OD 68.85, OD/cover 76.40, Total length 177.65, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, No./mount. holes 3, No./terminals 3



### 231930 Solenoid

**Replacing:** B8TZ11450B, D8VY11450A, E5AZ11450A, E8TZ11450B, E8TZ11450A, E9TZ11450A, ETTZ11450A, SW1533, SW1533A  
 12 Volt, 100 Amp, Intermittent load 800 Amp, B+ 5/16" UNC, OD 48.70, OD/cover 49.30, Total length 58.30, Height/B+ 12.00, Terminal 15A/width 8.00, Terminal 50 10-32 UNF, Coil bolt 5/16" UNC, Coil bolt 2 12.00, No./mount. holes 2, No./terminals 4



### 232220 Solenoid

**Replacing:** E5TZ11450A, E7TZ11450A, SW1951A, SW1951B, SW1951C  
 12 Volt, 100 Amp, Intermittent load 800 Amp, B+ 5/16" UNC, OD 49.05, OD/cover 49.05, Total length 58.75, Height/B+ 12.00, Terminal 50 10-32 UNF, Coil bolt 5/16" UNC, Coil bolt 2 12.00, No./mount. holes 2, No./terminals 3



### 233890 Solenoid

**Servicing:** 1C2411000AA, 1C2Z11002AA, 1C3U11000AA, 1C3U11000AB, 1C3U11000AC, 1C3U11000AD, 1C3U11000AE  
 12 Volt, B+ M10, OD 51.35, Total length 127.20, Height/B+ 15.50, Terminal 50 M5, Coil bolt M10, Coil bolt 2 14.50, No./mount. holes 2, No./terminals 3, Fork lever w/o



### 235496 Solenoid

**Servicing:** 2S6U11000EB, YS1U11000BA, YS4U11000AA, YS4U11000AB, YS4U11000BA  
 12 Volt, 1.1 kW, B+ M8, ID/cover 13.50, OD 51.40, OD/cover 49.50, Length 48.60, Total length 82.50, Switch dim. 7.00, Height/B+ 15.00, Terminal 50 M6, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 236961 Solenoid

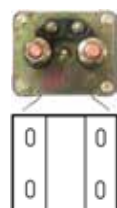
**Servicing:** F8RU11000AA, F8RU11000CA  
 12 Volt, B+ M8, OD 51.30, Total length 97.00, Height/B+ 16.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.50, No./mount. holes 2, No./terminals 3



### 239797 Solenoid

**Servicing:** 1151216, 1151642, 1197912, 1205240, 1209193, 1525794, 1525795, 3S7T11000AC, 3S7T11000AD  
 12 Volt, B+ M8, OD 51.69, Length 47.38, Total length 83.00, Height/B+ 14.08, Terminal 50 M6, No./mount. holes 2, No./terminals 3

## 24 V



### 131364 Solenoid

**Replacing:** C4TZ11390A  
**Servicing:** 40MT, 50MT  
 24 Volt, B+ 1/2" UNC, ID/cover 31.00, OD 74.40, Total length 201.75, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, No./terminals 4  
*Insulated return. Cap: HC-CARGO 131368.*

## Solenoid Parts

### Solenoid Caps



### 135324 Solenoid Cap

**Servicing:** 42MT  
 ID 59.00, OD 76.85, Coil bolt 1/2" UNC, No./terminals 4  
*HC-CARGO 131369.*





### 138497 Solenoid Cap

**Servicing:** 1024508, 1027928, 1057652, 1057654, 1057661, 1058429, 1059179, 1061458, 1063999, 1064000, 1067622  
ID 37.90, OD 49.30, Coil bolt M8, Coil bolt 2 16.45, No./terminals 3  
HC-CARGO 138496.  
Alternative no.: 138496



### 332555 Solenoid Cap

**Servicing:** 1345314, 1477974, 1551240, 154U11000AB, 3S4T11000AB, 3S4T11000AC, 4542546, 4X4U11000AC, 6G9N11000BB  
ID 38.10, OD 49.57, Switch dim. 14.84, Coil bolt M8, Coil bolt 2 18.92, No./terminals 3, Bracket type Crimp

#### Moving Contacts

Pkg. 5



### 137529 Contact Kit

**Servicing:** 1345314, 1477974, 154U11000AB, 3S4T11000AB, 3S4T11000AC, 4033064, 4542546, 4X4U11000AC, 6G9N11000BB  
ID 8.10, Length 27.65, Width 15.20, Material Copper, Shaft w/o  
Alternative no.: 138496

#### Various

Pkg. 10



### 231140 Screw

**Servicing:** 1061272, 1345314, 1476606, 1477974, 1525794, 1525795, 1535628, 1551240, 154U11000AB, 3S4T11000AB  
Thread M6, Total length 38.25, Thread length 11.40, Countersink Yes, Shaft w/, Washer w/o



### 232942 Gasket

**Servicing:** 3S4T11000AB, 3S4T11000AC, 4542546, 4X4U11000AC, 7041784  
ID 30.90, ID/mount. hole 7.00, OD 44.60, Thickness 0.95, Mount. holes 2, Material Rubber

Pkg. 10



### 330583 Rubber Boot

**Servicing:** 1120215, 1140110, 1151641, 1551240, 1214371, 1387062, 1449615, 1450653, 1541002, 157U11000BA  
ID 10.59, OD 36.00, Thickness 18.11

#### Drives



### 130535 Drive

**Replacing:** C1VF11350A, C1VY11350A, C20F11350C, C3VF11350A, C3VF11350C, C40F11350A, C40F11350B, C40Z11350A  
**Servicing:** C8VF11000A, C8VY11002C, C9AF11001A, D2AF11001ER, C7AF11001B, D5AF11001AB, D80F11001AA, E1AF11001BA  
ID 12.00, OD 25.10, OD/housing 46.25, Total length 72.00, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130538 Drive

**Replacing:** C6TZ11350A  
**Servicing:** 30MT  
ID 14.30, OD 39.85, OD/housing 60.00, Total length 96.15, Splines A 3, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



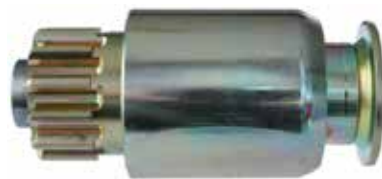
### 130539 Drive

**Replacing:** C2DZ11350A, C3DE11350A, C8DF11350A, C9HE11350A, D4HF11350BA  
**Servicing:** 40MT, 42MT, 50MT, C3TF11000A, C3TZ11001A, C5TZ11002C, C6TF11001A  
ID 15.90, OD 56.50, OD/housing 58.00, OD/teeth 56.50, Total length 120.40, Shaft length 15.90, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 130539z



### 130539Z Drive

**Replacing:** C2DZ11350A, C3DE11350A, C8DF11350A, C9HE11350A, D4HF11350BA  
ID 15.90, OD 56.50, OD/housing 58.25, OD/teeth 56.50, Total length 120.40, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 130539



### 131056 Drive

**Replacing:** C8TZ11350B, C8TZ11350D, C9WF11350C, D4HF11350AA  
**Servicing:** 40MT, 42MT, 50MT, C8ZF11000C, D30Z11002A, D3TF11000CA  
ID 15.90, OD 46.20, OD/housing 57.65, Total length 120.40, Shaft length 15.90, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o



### 131770 Drive

**Replacing:** C8TZ11350A, C8WF11350A, SD180  
**Servicing:** 40MT, C8TF11000B, E0HT11000AA, E0HT11000AB, E0HZ11002A, C8TZ11002A  
ID 15.90, OD 49.20/1.937", OD/housing 58.00, Total length 120.40, Shaft length 15.90, No./teeth 13, Rotation CW, Key spline w/o, Lock w/o





### 131986 Drive

Replacing: SD499

ID 12.40, OD 28.00, OD/housing 46.25, Total length 60.00, Splines A 10, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 132005 Drive

Replacing: E7GZ11350A, F4BZ11350A, SDE332, SDE349

ID 12.00, OD 28.20, OD/housing 45.50, Total length 56.00, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 132005z



### 132005Z Drive

Replacing: F4BZ11350A, SDE332, SDE349

ID 12.00, OD 28.00, OD/housing 46.20, OD/teeth 28.00, Total length 55.65, No./teeth 8, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 132005



### 132751 Drive

Replacing: E2BZ11350A, E2PZ11350A, SD320

ID 12.00, OD 25.30, OD/housing 48.00, Total length 70.15, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 133507 Drive

Replacing: E6HZ11350A

Servicing: 37MT

ID 14.35, OD 39.50/1.555", OD/housing 60.00, Total length 99.00, Splines A 3, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 133854 Drive

Replacing: C8J511350A, SD303

Servicing: 28MT

ID 14.00, OD 32.00, OD/housing 60.00, Total length 85.00, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o  
w/ rubber seal.



### 133864 Drive

Replacing: C6FF11350A, C6FF11350B, C9FF11350A, C9FF11350B, D6FF11350AA

ID 12.00, OD 25.80, OD/housing 46.20, Total length 77.00, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 134918 Drive

Replacing: E8BZ11350A, F4BZ11350B, SDE334, SDE350

ID 12.00, OD 28.00, OD/housing 46.00, Total length 56.20, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o



### 136633 Drive

Replacing: E5DZ11350A, E90Z11350A, E90Z11350A, F5DZ11350A, F90Z11350A, SD337, SD357

Servicing: 1057661, 1076141, 1085273, 1151642, 1205240, F7PU11000BA, F7PU-11000DA, F7PU11000EA, F7PZ11002A

ID 12.00, OD 27.65, OD/housing 46.35, Total length 46.55, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 138209 Drive

Replacing: 53R211350A, F3RZ11350A, F5RU11350RA, SD353, XS6411350AA

Servicing: 1057652, 1057654, 1058429, 1061458, 1073093, 1087280, 1104965, 1118336, 1126987, 1133994, 1151216

ID 12.00, OD 26.80, OD/housing 46.00, Total length 47.00, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 139341 Drive

Servicing: 1024508, 1027928, 1059179, 1073108, 1093471, 1105310, 5026497, 97VB11000AA, 97VB11000AB

ID 12.00, OD 46.60, OD/housing 45.50, Total length 47.25, Splines A 12, No./teeth 13, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 139341zz



### 139341ZZ Drive

Replacing: 106688, 10670F7RU, 139341ZZ, F7RUK614

ID 12.00, OD 45.70, OD/housing 45.35, OD/teeth 45.70, Total length 46.90, Splines A 12, No./teeth 13, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 139341





### 139710 Drive

Replacing: F5BU11350AA

Servicing: 1027772, 95FB11000BB, 95FB11000BC, 95FB11000BD, 95FB11000BG  
ID 12.00, OD 54.00, OD/housing 48.20,  
Total length 51.35, Splines A 10, No./teeth 23,  
Rotation CW, Key spline w/o, Lock w/o



### 231960 Drive

Replacing: F2VY11350A, SD341

Servicing: 1140757, 1144505, F2VY11002A, F3LU11000AA, SA-789, SA822  
ID 12.00, OD 31.70, OD/housing 46.35,  
Total length 47.00, Splines A 12, No./teeth 12,  
Rotation CW, Key spline w/o, Lock w/o



### 231961 Drive

Replacing: F0FZ11350A, SD340

Servicing: F0CF11000AA, F0CU11000AA, SA-779, 6G9N11000BB, 1387091, 1387092  
ID 12.00, OD 29.50, OD/housing 46.25,  
Total length 47.00, Splines A 12,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 233830 Drive

Servicing: 1120215, 1140110, 1151641, 1551240, 1214371, 1387062, 1449615, 1450653, 1541002, 157U11000BA  
ID 12.00, OD 38.00/1.56", OD/housing 49.00,  
Total length 48.00, Splines A 12,  
No./teeth 12, Rotation CCW,  
Key spline w/o, Lock w/o



### 234135 Drive

Servicing: 1120214, 1140111, 1525794, 3S4T11000AB, 3S4T11000AC, 4542546, 1218885, 1251700, 1300504, 1325943  
ID 12.00, OD 34.20, OD/housing 45.35,  
Total length 46.65, No./teeth 11,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 234135z



### 234135Z Drive

ID 12.00, OD 34.10, OD/housing 45.15,  
OD/teeth 34.10, Total length 47.10,  
No./teeth 11, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o



### 234773 Drive

Servicing: F8RU11000AA  
ID 12.00, OD 38.00, OD/housing 48.60,  
Total length 47.00, Splines A 12,  
No./teeth 12, Rotation CW



### 235199 Drive

Servicing: 1063999, 1064000, YS4U11000AD, 1237323, 98AB11000BB, 98AB11000BC, 98AB11000BD, 98AB11000CB  
ID 12.00, OD 26.70, OD/housing 45.00,  
Total length 57.50, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 235624 Drive

Replacing: C1AZ11350A

ID 16.00, OD 29.20, OD/housing 53.00,  
Total length 137.00, No./teeth 9,  
Rotation CCW, Key spline w/o, Lock w/o



### 236876 Drive

Servicing: 1229427, 1231963, 1233234, 1254222, 1351989, 1368970, 1376305, 1385784, 1465115, 1469712, 1469721  
ID 12.01, OD 35.60/1.36",  
OD/housing 48.65, Total length 47.00,  
Splines A 12, No./teeth 11,  
Rotation CW, Key spline w/o, Lock w/  
Alternative no.: 333867



### 333867 Drive

Servicing: 1229427, 1231963, 1233234, 1254222, 1351989, 1368970, 1376305, 1385784, 1465115, 1469712, 1469721  
ID 12.00, OD 35.60, OD/housing 45.00,  
Total length 47.00, Splines A 12,  
No./teeth 11, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/  
Alternative no.: 236876



### 335625 Drive

Replacing: 72738614

ID 14.28, OD 34.50, OD/housing 60.20,  
OD/teeth 34.50, Total length 81.50,  
Splines A 10, No./teeth 9,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o



## Drive Parts

### Caps



Pkg. 25

**139990**

Drive Cap

Servicing: 8S4T11000AA

ID 43.80, OD 45.60, Height 19.90

### Rollers



Pkg. 500

**134300**<sup>#</sup>

Roller

OD 6.35, Length 12.25

Pkg. 100


**137816**

Roller

OD 6.35, Length 10.95

### Pinion


**231456**

Pinion

Replacing: F4TZ11363A, SZE888

Servicing: F4PU11000AA, F4TZ11002B

ID 13.45, OD 37.15, Height 17.75,  
Height/collar 1.55, No./splines 20,  
No./teeth 12, Bushing w/o

**234504**

Pinion

Servicing: 1120215, 1140110, 1151641,  
1551240, 1214371, 1387062, 1449615,  
1450653, 1541002, 157U11000BA

ID 14.30, OD 54.30, Height 46.20,

No./splines 19, No./teeth 19, Bushing w/

## Planet Gears


**235726**

Planet Gear

Servicing: 1120215, 1140110, 1151641,  
1551240, 1214371, 1387062, 1449615,  
1450653, 1541002, 157U11000BA

Shaft dia./front 11.92, Total length 108.10,

No./splines 12, Rotation CCW


**237510**

Planet Gear

Servicing: 1231963, 1351989, 1376305,  
1385784, 1465115, 1469721, 1476606,  
1477974, 2T1411000CB, 2T1411000CC

Shaft dia./front 11.90,

Total length 109.30, No./splines 12


**238851**

Planet Gear

Servicing: 1133994, 1S4U11000AB,  
1S4U11000AA, 98AB11000AD

Shaft dia./front 11.92,

Total length 108.00, No./splines 12,

Rotation CW

Brush set: HC-CARGO 142006.

## Gear Parts

### Gear Shafts


**136637**

Gear Shaft

Replacing: F0TZ11355A, F0TZ11355H

Servicing: 1057652, E90F11000AA, E90F-  
11000BA, E9SF11000AA, E9SF11000BA,  
F02F11000AA, 3852582, 5029143, 6775703

OD/shaft 19.00, Total length 107.00,

No./splines 12


**230743**

Gear Shaft

Replacing: F1RU11A160AB, F7RU11A160AB

Servicing: 97VB11000AA, 97VB11000AB,  
98VB11000B1A, 98VB11000B3A, 98VB-  
11000BA, 98VB11000BBB

OD/shaft 17.45, Total length 104.30,

No./splines 12


**231139**<sup>#</sup>

Gear Shaft

Servicing: F7PU11000BA, F7PZ11002BA

Total length 103.50, No./splines 12

Armature: HC-CARGO 231138.


**231143**

Gear Shaft

Replacing: F5RZ11A201A

Servicing: 1057661, 1076141, 1085273,  
1120215, 1140110, 1151641, 1151642,  
1197912, 1205240, 1209193

Total length 84.70





**237509** Gear Shaft

**Servicing:** 1231963, 1351989, 1385784, 1465115, 1469721, 2T1411000CB, 2T1411000CC, 3M5T11000DB, 3M5T11000DC  
OD/shaft 11.90, Total length 103.60, No./splines 12, Rotation CW



**238919** Gear Shaft

**Servicing:** 1S7U11000BA, 1S7U11000BB, 1S7U11000BC, 1S7U11000DA, 1S7U11000DB, YC1U11000AB, YC1U11000AC  
OD/shaft 11.92, Total length 103.30, No./splines 12, Rotation CCW

#### Outer Gear



**136638** Outer Gear

**Replacing:** E90Z11A165A, E90Z11A165A, F7RU11165CA, SM476

**Servicing:** 1057652, 1057654, 1057661, 1058429, 1073093, 1076141, 1085273, 1087280, 1118336, 1126987

ID 46.87, OD 72.35, Height 30.40, Height/collar 2.87, No./teeth 37, Bushing w/



**234664** Outer Gear

ID 47.40, OD 72.30, Height 33.33, Height/collar 3.32, No./teeth 37, Bushing w/

#### Gear Covers

Pkg. 5



**234956** Gear Cover

**Servicing:** 1231963, 1351989, 1376305, 1385784, 1469721, 1S7U11000BA, 1S7U11000BB, 1S7U11000BC, 2S7T11000DA  
ID 19.00, OD 72.76, Height 24.12

#### Gear Wheels

Pkg. 10



**136641** Gear Wheel

**Replacing:** E90F11A67AA, E90Z11K190A, E90Z1K190A

ID 6.50, OD 19.40, Height 8.70, No./teeth 13, Bushing w/o



**235377** Gear Wheel

**Servicing:** 1063999, 1064000, 1067622, 1120214, 1140111, 1140757, 1144505, 1218885, 1350459, 1368974, 1465010

ID 6.00, OD 23.50, Height 8.65, No./teeth 18, Bushing w/o

Pkg. 10



**235592** Gear Wheel

**Servicing:** 1231963, 1351989, 1376305, 1385784, 1469721, 1S7U11000BA, 3M5T-11000DB, 3M5T11000DC, 4M5T11000FA  
OD 57.80, Height 10.70, No./teeth 37

#### Gear Plates

Pkg. 10



**136640** Gear Plate

**Replacing:** E90Z11A167A

**Servicing:** 1057652, 1057654, 1057661, 1058429, 1073093, 1076141, 1085273, 1087280, 1118336, 1126987

ID 18.30, OD 67.30, Thickness 1.15, Material Steel

#### Various

Pkg. 5



**230896** Gasket

**Servicing:** 1551240, 97VB11000AC, 97VB11000BC

ID 51.45, OD 62.70, Thickness 0.65

Pkg. 5



**231147** Retainer

**Servicing:** 1057652, 1063999, 1064000, 1231963, 1351989, 1376305, 1385784, 1469721, 3M5T11000DB, 3M5T11000DC  
Thickness 1.00, Material Steel



**231377** Gear

**Replacing:** F5RZ11A198A

**Servicing:** 1057661, 1076141, 1085273, 1151642, 1197912, 1205240, 1209193, 3S7T11000AC, 3S7T11000AD

ID 22.00, OD 51.64, Height 51.64, No./teeth 22



## Lever

Pkg. 5



### 132808 Lever

Replac: 84AB11067AB

Servicing: 0018882, 1007765, 1008795, 1008836, 1008838, 1011330, 1011331, 1018882, 1018883, 1030151, 1032666

Dist. 41.40, Length 86.50, Plunger w/o

Alternative no.: 333537



### 135468 Lever

Replac: F4XY11067A

Servicing: F32Z11002B

Dist. 36.30, Length 74.00, Plunger w/o



### 135777 Lever

Manufacturer: Bosch

Replac: 82GB11037AB

Servicing: 1061267, 86BB11000EA, 89AB11000CA, 1229425, 82GB11000CA, 82GB11000EA, 83BB11000DA, 85GB11000FA  
Dist. 40.35, Length 92.70, Plunger w/o

Pkg. 5



### 136636 Lever

Replac: E90Z11067A, F75U11070AA

Servicing: 1024508, 1027928, 1057652, 1057654, 1057661, 1058429, 1059179, 1061272, 1061458, 1063999, 1064000

Dist. 44.50, Length 84.35, Plunger w/o



### 234680 Lever

Servicing: 2S7T11000DA, YC1U11000AC, YC1U11000AD, YC1U11000AE

Dist. 35.35, Length 62.40, Plunger w/o



### 333537 Lever

Manufacturer: Bosch

Replac: 84AB11067AB

Servicing: 4M5T11000KC, 85GB11000BA, CC1T11000AB

Dist. 43.80, Length 89.80, Plunger w/o

Alternative no.: 132808

## Brush Gears



### 133338 Brush Gear

Replac: E5TZ11049A

ID 34.00, OD 72.50, Height 28.95

Neg. brushes. Brush set: HC-CARGO 140388.



### 133339 Brush Gear

Replac: E5PF11061A, E5PF11434AA, SBE324

Servicing: E8TF11000AA, F3TU11000AA

12 Volt, ID 41.40, OD 75.75, Height 29.70

Brush set: HC-CARGO 140388. Brush spring: HC-CARGO 135201.



### 135467 Brush Gear

Replac: E7GZ11061A, F4BZ11061A, SBE325, SBE334, SBE345

12 Volt, ID 34.25, OD 74.00, Height 12.85

Neg. brushes. Brush set: HC-CARGO 140349.



### 136635 Brush Gear

Replac: E90Z11061A, E90Z11061B, E90Z11061C, E90Z11061A, E90Z11061B, E90Z11061C, F3RZ11061A, SB331, SB335

Servicing: 1057652, 1057654, 1057661, 1061272, 1076141, 1085273, 1087280, F7PU11000DA, F7PU11000EA, F7PZ11002A

ID 32.20, OD 68.40, Lead length 44.45, Height 20.75



### 230741 Brush Gear

Replac: F7RU11434BA

Servicing: 1024508, 1027928, 1058429, 1059179, 1073093, 1073108, 1093471, 1105310, 1118336, 1120215, 1126987

12 Volt, ID 32.25, OD 72.25,

Lead length 58.25, Height 22.25

Brush set: HC-CARGO 140955.



### 231460 Brush Gear

Replac: F4TZ11061A, F4TZ11091A, SBE351

12 Volt, ID 33.50, OD 69.80, Height 29.10

Neg. brushes. Brush set: HC-CARGO 140388.





### 232670 Brush Gear

Replacing: F81U11434AA

Servicing: F81Z11002AA, XL1Z11002AA, XW4U11000CG, XW4Z11000CG, XW4Z11002CG  
ID 32.00, OD 72.60, Lead length 37.15, Height 20.80



### 234062 Brush Gear

Servicing: 1061458, 1063999, 1064000, 1067622, 1104965, 1120214, 1140111, 1140757, 1144505, 1151216, 1151642  
12 Volt, ID 29.85, OD 60.80, Lead length 34.45, Height 15.95  
Brush set: HC-CARGO 140975.

### Brush Gear Parts

### Brush Springs

Pkg. 10



### 132741 Brush Spring

Replacing: D1AZ11059A

Servicing: C7AF11001B, D5AF11001AB  
OD 15.65, Length 30.80, Height 5.00, Material Steel

### Brush Sets



### 140509 Brush Set

Servicing: M80R, 5026489, 89AB11000BA, 89BB11000CA, 91AB11000GA, 91BB11000MA, 91BX11000MA, F91BB11000MA  
12 Volt, Length 19.80, Lead length 33.50, Height 9.40, Thickness 6.80  
w/o brush bar: HC-CARGO 140765.



### 140548 Brush Set

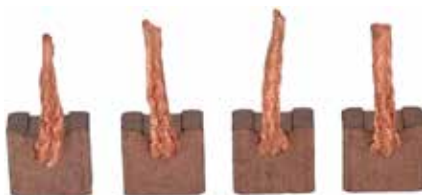
Replacing: D7AZ11057A, D8AF11055BA, D8AF11056AA, E4FF11055AA

Servicing: D80F11001AA, E1AF11001BA  
12 Volt, Length 13.00, Lead length 76.00, Lead length 2 38.50, Height 19.20, Thickness 8.80



### 140845 Brush Set

Servicing: 1057652, 1057654, 1057661, 1061272, 1076141, 1085273, 1087280, 4X4U11000AC, 7041784, 98AB11000EC  
12 Volt, Length 14.00, Lead length 82.00, Lead length 2 34.50, Height 16.00, Thickness 4.60



### 140955 Brush Set

Replacing: F7RU11056AB

Servicing: 1024508, 1027928, 1059179, 1073108, 1093471, 1105310, 1120215, 1140110, 1151641, 1480550  
12 Volt, Length 18.20, Lead length 34.00, Height 19.00, Thickness 8.40



### 140975 Brush Set

Servicing: 1061458, 1063999, 1064000, 1067622, 1104965, 1120214, 1140111, 1140757, 1144505, 1151216, 1151642  
12 Volt, Length 14.00, Lead length 26.00, Height 13.00, Thickness 6.00  
Alternative no.: B140975



### 141188# Brush Set

12 Volt, Length 14.00, Lead length 35.00, Lead length 2 85.00, Height 16.00, Thickness 4.60



### 141248 Brush Set

Servicing: 1063999, 1064000, 98AB11000BB, 98AB11000BC, 98AB11000BD, 98AB11000CC, 98AB11000CD, YS4U11000BB

12 Volt, Length 12.50, Lead length 100.00, Lead length 2 25.00, Height 13.00, Thickness 6.00



### 142348 Brush Set

Servicing: 1551240

Length 18.00, Lead length 33.00, Height 19.20, Thickness 8.40

### Brushes

Pkg. 100



### B140975 Brush

Replacing: B140975

Servicing: 1345314, 1525795, 1535628, 3S4T11000AC, 4542546

12 Volt, Length 14.00, Lead length 26.00, Height 13.00, Thickness 6.00  
Alternative no.: 140975



## Bushings

Pkg. 5



**140188** Bushing  
 Replacing: C4TZ11052A, D0AF11052A,  
 D3AZ11052A, MC220, MC244, MC3  
 Servicing: D5AF11001AB  
 ID 15.96, OD 19.11, Length 11.90,  
 Material Copper, Pin w/o

Pkg. 5



**140189** Bushing  
 Replacing: C0DZ11135A, MC12  
 Servicing: C7AF11001B  
 ID 12.05, OD 13.18, Length 18.40,  
 Type Standard, Material Copper, Pin w/o

Pkg. 5



**140193** Bushing  
 Replacing: C2DF11052A, C2DH11052A, MC93  
 ID 15.90, OD 17.50, Length 14.20,  
 Material Copper, Pin w/o

Pkg. 10



**140264** Bushing  
 Replacing: B11052  
 ID 16.27, OD 19.15, Length 15.00,  
 Material Copper, Pin w/o  
 Alternative no.: B140264

Pkg. 10



**140467** Bushing  
 Replacing: C2DF11135A  
 ID 12.01, OD 13.11, Length 15.60,  
 Type Standard, Material Copper, Pin w/o

Pkg. 5



**140553** Bushing  
 Servicing: C7AF11001B, D80F11001AA,  
 E1AF11001BA  
 ID 15.90, OD 19.10, Length 15.20,  
 Type Standard, Material Copper, Pin w/o

Pkg. 10



**140555** Bushing  
 Replacing: MCE439  
 Servicing: F32Z11002B  
 ID 10.03, OD 14.00, Length 12.50,  
 Type Standard, Material Copper, Pin w/o  
 Alternative no.: B140555

Pkg. 10



**140758** Bushing  
 Replacing: F0JY11135A, MCE444  
 ID 19.06, OD 22.55, Length 14.00,  
 Type Standard, Material Copper, Pin w/o  
 Alternative no.: B140758

Pkg. 10



**140842** Bushing  
 Replacing: E90Z11135A, MC442  
 Servicing: 1057652, 1058429, 1073093,  
 1118336, 1126987, B55111000CA, 1231963,  
 1351989, 1376305, 1385784  
 ID 10.07, OD 13.97, Length 10.00,  
 Material Copper, Pin w/o

Pkg. 10



**140843** Bushing  
 Servicing: 1057652, 1057654, 1057661,  
 1058429, 1061458, 1063999, 1064000,  
 1067622, 1073093, 1076141, 1085273  
 ID 19.00, OD 22.30, Length 6.30,  
 Material Copper, Pin w/o

Pkg. 10



**140844** Bushing  
 Replacing: D0AF11135B, MC209A  
 Servicing: 1057652, 1057654, 1057661,  
 1061272, 1076141, 1085273, 1087280,  
 F7PU11000DA, F7PZ11002BA  
 ID 12.04, OD 15.13, Length 10.20,  
 Material Copper, Pin w/o

Pkg. 10



**140987** Bushing  
 Servicing: 1058429, 1073093, 1118336,  
 1126987, 1133994, 1476606, 97BB11000B3D,  
 1231963, 1351989, 1376305  
 ID 8.12, OD 12.45, Length 10.00,  
 Type Standard, Material Copper, Pin w/o  
 Alternative no.: B140987



**140991** Bushing

**Servicing:** 1061458, 1063999, 1064000, 1067622, 1104965, 1120214, 1140111, 1151216, 1151642, 1205240, 1345314  
**ID** 7.06, **OD** 11.99, **Length** 10.00,  
**Type** Standard, **Material** Copper, **Pin** w/o  
**Alternative no.:** B140991

Pkg. 10

**141074** Bushing

**Servicing:** 1057654, 1057661, 1076141, 1085273, 1087280, 1367529, 1X4U11000AA, 4X4U11000AB, 93BB11000HC  
**ID** 10.00, **OD** 13.95, **Length** 8.55, **Material** Copper, **Pin** w/o

Pkg. 10

**141075** Bushing

**Replacing:** F2TZ11135A, MC445  
**Servicing:** 1067622, 96FB11000MA, 96FB11000MB, 96FB11000MC, 96FB11000MD, 96FB11000ME, E98F11000AA, E98F11000BA  
**ID** 12.00, **OD** 16.00, **Length** 10.05, **Material** Copper, **Pin** w/o

Pkg. 10

**141076** Bushing

**Servicing:** 1057661, 1076141, 1085273, 1197912, 1209193, 1233277, 1367529, 1386127, 1X4U11000AA, 3S7T11000AA  
**ID** 14.35, **OD** 17.26, **Length** 12.50,  
**Type** Standard, **Material** Copper, **Pin** w/o

Pkg. 10

**141222** Bushing

**Servicing:** 1120215, 1140110, 1151641, 1214371, 1387062, 1449615, 1450653, 1541002, 1S7U11000BA, 1S7U11000BB  
**ID** 14.43, **OD** 17.31, **Length** 13.20, **Material** Copper, **Pin** w/o

Pkg. 10

**142014** Bushing

**Servicing:** 1140757, 1144505, 1197912, 1209193, 1345314, 3S7T11000AC, 3S7T11000AD, 4033064, YS4U11000AD  
**ID** 7.00, **OD** 11.95, **Length** 8.50

Pkg. 10

**142084** Bushing

**Servicing:** 1120215, 1140110, 1151641, 1214371, 1387062, 1450653, 1S7U11000BA, 1S7U11000BB, 1S7U11000BC  
**ID** 14.31, **OD** 19.10, **Length** 12.50,  
**Type** Standard, **Material** Copper, **Pin** w/o

Pkg. 10

**332864** Bushing

**Servicing:** 1542468, 9S5111000AA  
**ID** 12.08, **OD** 15.55, **Length** 5.50,  
**Type** Standard, **Material** Copper, **Pin** w/o  
**Mandrel** YAAT00013 has to be used.

Pkg. 10

**B140987** Bushing

**Servicing:** 1477974, 1S4U11000AB, 6G9N11000GB  
**ID** 8.12, **OD** 12.45, **Length** 10.00,  
**Type** Standard, **Material** Copper, **Pin** w/o  
**Alternative no.:** 140987

Pkg. 100

**B140991** Bushing

**Servicing:** 3S4T11000AB, 3S4T11000AC, 4542546  
**ID** 7.06, **OD** 11.99, **Length** 10.00,  
**Type** Standard, **Material** Copper, **Pin** w/o  
**Alternative no.:** 140991

Pkg. 100

## Bearings

### Needle Bearings

**140120 FAG** Needle Bearing

**Replacing:** D20Z10A304A  
**Servicing:** 10SI, 12SI, 15SI, 17SI, 27SI, A127, 0724403000, 1012257, 1100711, 86AB10300EA, 86VB10300A2, 86VB10300A2A, 873F10300AAA, 92VB10300BA  
**ID** 17.00, **OD** 23.80, **Height** 17.40  
**Closed end.**

Pkg. 10

**140242 FAG** Needle Bearing

**Replacing:** C6VF11135A, C6VY11135A, D6A-F11448AA, D6AZ11135A, E4FZ11135A, MC189A  
**Servicing:** PMGR SERIES, M78, M79, 1027772, 1057652, 1057654, 1057661, 1058429, 1061267, 1061272, 1073093, 1076141, 1085273, 1087280  
**ID** 12.00, **OD** 16.00, **Height** 10.00

Pkg. 10



Pkg. 10



**140620 FAG** Needle Bearing  
 Replacing: E90F11448BA  
 Servicing: 1008838, 1011331, 1018883,  
 1030151, 1057652, 1057654, 1057661,  
 1063999, 1064000, 1067622, 1076141  
 ID 6.00, OD 10.00, Height 8.00,  
 Lock ring w/o, Oil seals w/o,  
 Teflon ring w/o

Pkg. 5



**140920 FAG** Needle Bearing  
 Servicing: F8RU11000AA  
 ID 17.46, OD 22.23, Height 9.40  
 Alternative no.: 335934 **FAG**

Pkg. 10



**141209 FAG** Needle Bearing  
 Servicing: 1120215, 1140110, 1151641,  
 1197912, 1209193, 3S7T11000AC,  
 3S7T11000AD, 1214371, 1233277, 1386127  
 ID 14.29, OD 19.05, Height 12.70

## Sundry Parts

### Various

Pkg. 10



**234512** Cap for Brush Holder  
 Servicing: 1120211, 1120213, 1124015,  
 1131820, 1140135, 1140694, 1140696,  
 1145715, 1151212, 1151213, 1343649  
 ID 19.00, OD 26.00x40.90, Height 10.30

Pkg. 10



**135574** Steel Ball  
 Replacing: E90Z11A172A, MCE443  
 Servicing: 1024508, 1027928, 1057652,  
 1057654, 1057661, 1058429, 1059179,  
 1061458, 1063999, 1064000, 1067622  
 OD 6.35, Material Steel

Pkg. 10



**136639** Rubber Seal  
 Servicing: 1551240, 1S4U11000AB,  
 4X4U11000AC, 7041784, 97BB11000B3D,  
 YS4U11000AD

Pkg. 10



**137527** Retainer  
 Servicing: 1024508, 1027928, 1057652,  
 1057654, 1057661, 1058429, 1059179,  
 1061458, 1063999, 1064000, 1067622  
 ID/housing 12.00, OD/housing 17.80,  
 Thickness 3.40, Material Steel

Pkg. 10



**236907** Gasket  
 Servicing: 1120214, 1120215, 1140110,  
 1140111, 1151641, 1551240, 1214371,  
 1218885, 1387062, 1449615, 1450653  
 Length 62.00, Thickness 4.90,  
 Width 91.00

Pkg. 10



**239804** Gasket  
 Replacing: 1SU11000AC, 1SU11000AD  
 Servicing: 1120214, 1140111, 1S7U11000AC,  
 1SU11000AC, 1525794, 1SU11000AD,  
 3S4T11000AB, 3S4T11000AC, 4542546  
 Thickness 5.00, Material Rubber





Bushings

Pkg. 10



**141141** Bushing  
ID 20.50, OD 26.55, Length 11.90,  
Material Copper, Pin w/o



## Armatures

12 V



### 132454 Armature

Replacing: 2114-31009, 2114-71005, 2114-71104, 2114-71108, 2114-91008

Servicing: S114-254D, S114-255A, S114-257, S114-257G, S114-257H, S114-268, S114-293, S114-338, S114-342A

12 Volt, 1.4 kW, Shaft length 167.20, Height/bar lane 20.75, Core thickness 52.90, No./bars 21, No./teeth 11, Rotation CW/CCW



### 132456 Armature

Replacing: 2130-1101, 2130-31002

Servicing: S13-101, S13-105, S13-105A, S13-129, S13-529, S13-66, S13-66A, S13-69, S13-81

12 Volt, 2.0 kW, Bar dist. 1.95, Bar cross dist. 37.55, Shaft length 174.15, Bar length 6.00, Height/bar 4.30, Height/bar lane 27.30, Core thickness 52.70, No./bars 27, No./teeth 11, Rotation CW/CCW



### 132798 Armature

Replacing: 2130-21003, 2130-31003, 2130-41004, 2130-4102, 2130-51002, 2130-51003, 2130-61003, 2130-91002

Servicing: S13-100, S13-102, S13-104, S13-109, S13-136, S13-62, S13-62B, S13-64, S13-70A, S13-77, S13-87

12 Volt, 2.5 kW, Bar dist. 1.95, Bar cross dist. 37.55, Shaft length 188.00, Bar length 6.00, Height/bar 4.30, Height/bar lane 27.30, Core thickness 52.70, No./bars 27, No./teeth 11, Rotation CW/CCW



### 133031 Armature

Replacing: 2114-91001

Servicing: S114-146, S114-180, S114-180E, S114-180F, S114-180G, S114-218, S114-218A, S114-219, S114-230

12 Volt, 1.2/1.3 kW, Bar dist. 2.25, Bar cross dist. 41.55, Shaft dia. 17.95, Shaft length 205.70, Bar length 8.00, Height/bar 5.40, Height/bar lane 18.25, Core thickness 64.90, No./bars 33, No./splines 10, Rotation CW



### 134121 Armature

Replacing: 2114-51007, 2114-51106, 2114-61005, 2114-61106, 2114-91104

Servicing: S114-290B, S114-349, S114-349A, S114-349B, S114-408, S114-459, S114-478, S114-451A, S114-252F

12 Volt, 1.2 kW, Shaft length 159.10, Height/bar 5.00, Height/bar lane 20.00, Core thickness 52.90, No./bars 21, No./teeth 11, Rotation CW/CCW



### 136248 Armature

Replacing: 2130-41003

Servicing: S13-107, S13-107A, S14-02, S14-100D, S14-100E

12 Volt, 2.5 kW, Bar dist. 1.95, Bar cross dist. 37.55, Shaft length 196.15, Bar length 6.00, Height/bar 4.30, Height/bar lane 27.30, Core thickness 52.65, No./bars 27, No./teeth 11



### 137092 Armature

Replacing: 2130-11001, 2130-31004

Servicing: S13-123, S13-33, S13-33A, S13-33B, S13-37, S13-38B, S13-41, S13-41A, S13-45A, S13-45B, S13-46A

12 Volt, 2.5 kW, Shaft length 165.00, Core thickness 60.00, No./bars 25, No./teeth 11, Rotation CW/CCW



### 137120 Armature

Replacing: 2114-4100, 2114-41100, 2114-61300

Servicing: S114-850, S114-851, S114-851A, S114-850A, S114-850B, S114-850C

12 Volt, 1.4 kW, Bar dist. 1.80, Bar cross dist. 36.35, Shaft dia. 19.85, Shaft length 144.80, Bar length 4.95, Height/bar 4.90, Height/bar lane 17.95, Core thickness 50.60, No./bars 29, No./teeth 9



### 137948 Armature

Replacing: 2114-11111, 2114-21111, 2114-51300

Servicing: S114-800, S114-800A, S114-801B, S114-804, S114-804A, S114-805, S114-806A, S114-808, S114-816

12 Volt, 1.4 kW, Bar dist. 1.80, Bar cross dist. 36.35, Shaft dia. 14.00, Shaft length 111.25, Bar length 4.95, Height/bar 4.90, Height/bar lane 17.95, Core thickness 50.85, No./bars 29, No./teeth 8, Rotation CW/CCW



### 138701 Armature

Replacing: 2114-21100, 2114-31109

Servicing: S114-750, S114-755, S114-762, S114-762A, S114-762B, S114-766A, S114-769, S114-780, S114-505A

12 Volt, 1.4 kW, Bar dist. 2.00, Bar cross dist. 37.35, Shaft dia. 16.50, Shaft length 109.85, Bar length 4.55, Height/bar 4.45, Height/bar lane 16.85, Core thickness 55.45, No./bars 29, No./teeth 10, Rotation CCW





### 138959 Armature

Replacing: 2114-51005, 2114-71001

Servicing: S114-160F, S114-161F, S114-162D, S114-164, S114-213, S114-213A, S114-225, S114-273, S114-303

12 Volt, 0.8/1 kW, Bar dist. 2.00, Bar cross dist. 35.45, Shaft length 214.50, Bar length 5.10, Height/bar 5.00, Height/bar lane 15.90, Core thickness 52.65, No./bars 29, No./splines 10



### 233886 Armature

Replacing: 2130-61004, 2130-81004

Servicing: S13-114A, S13-200, S13-203, S13-207, S13-207A, S13-207C, S13-210B, S13-210C, S13-213, S13-213A

12 Volt, 2.3 kW, Bar dist. 1.95, Bar cross dist. 37.55, Shaft dia. 17.30, Shaft length 181.00, Bar length 6.00, Height/bar 4.30, Height/bar lane 27.30, Core thickness 52.70, No./bars 27, No./teeth 11, Rotation CW



### 235337 Armature

Replacing: 2114-31200

Servicing: S114-870, S114-871, S114-872, S114-874, S114-876, S114-876A, S114-878A, S114-878B, S114-883

12 Volt, 1.7 kW, Bar dist. 1.80, Bar cross dist. 36.35, Shaft dia. 13.70, Shaft length 111.00, Bar length 4.95, Height/bar 4.90, Height/bar lane 17.95, Core thickness 55.10, No./bars 29, No./teeth 8, Rotation CW



### 235632 Armature

Replacing: GSB107-1100

Servicing: GSB107-01, GSB107-01A, GSB107-04A, GSB107-04C, GSB107-06, GSB107-06E, GSB107-06F

12 Volt, Shaft dia. 21.50, Shaft length 224.00, Core thickness 67.16, No./bars 41 22 A.



### 330156 Armature

Replacing: 2114-71300

Servicing: S114-901, S114-901A, S114-901B, S114-902, S114-902A, S114-902B, S114-902C, S114-902E, S114-922A

12 Volt, 1.0 kW, Bar dist. 1.80, Bar cross dist. 36.35, Shaft length 103.05, Bar length 4.95, Height/bar 4.90, Height/bar lane 17.95, Core thickness 50.62, No./teeth 8



### 332463 Armature

Servicing: S13-556, S13-556A

12 Volt, 2.5 kW, Bar cross dist. 7.00, Shaft dia. 14.33, Shaft length 173.75, Bar length 25.11, Core thickness 52.66, No./bars 27, No./teeth 9, Rotation CW

### 24 V



### 133056 Armature

Replacing: 2250-21001, 2250-71002, 2270-3100

Servicing: S25-142B, S25-166A, S25-110L, S25-115, S25-115A, S25-125B, S25-156, S25-158, S25-158A, S25-158B

24 Volt, 3.5 kW, Bar dist. 2.20, Bar cross dist. 40.65, Shaft length 165.00, Bar length 7.80, Height/bar 5.40, Height/bar lane 31.85, Core thickness 60.00, No./bars 25, No./splines 11, Rotation CW/CCW

## Yokes

### 12 V



### 138505# Yoke

Replacing: 2114-52100, 2114-72507

Servicing: S114-800, S114-800A, S114-800B, S114-808, S114-818A, S114-829A, S114-829B, S114-839, S114-840

12 Volt, 1.4 kW, ID 64.30, OD/middle 67.85, Length 60.55, Brush gear w/o, Magnets w/, O-ring w/o



### 139788 Yoke

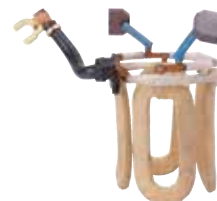
Replacing: 2114-82507

Servicing: S114-801, S114-801A, S114-801B, S114-801C, S114-801D, S114-844, S114-844A, S114-850, S114-850A

12 Volt, 1.4 kW, ID 51.15, OD/middle 67.90, Length 60.60, Rotation CCW, Brush gear w/o, Magnets w/, O-ring w/o

## Field Coils

### 12 V



### 139176 Field Coil

Replacing: 2130-62102

Servicing: S13-207, S13-207A, S13-207C, S13-289, S13-294, S14-203, S13-212, S13-289A

12 Volt, 170 Amp, 2.0 kW, Lead length 106.30, Height 90.92, Internal height 56.70, Inner width 17.30, Rotation CW, Brush gear w/o



## C.E. Brackets


**137836**

C.E. Bracket

Replating: 2130-43015, 2130-73014

Servicing: S13-106A, S13-106B, S13-106C, S13-106E, S13-127, S13-127C, S13-137A, S13-126, S13-126A, S13-102

ID 76.50, OD 80.00, Height 44.00


**230636**

C.E. Bracket

Replating: 2130-63015

Servicing: S13-106E, S13-114A, S13-127C, S13-200, S13-203, S13-204, S13-205, S13-205A, S13-205C, S13-205D

ID 76.00, OD 80.00


**234637**

C.E. Bracket

Servicing: S114-829C, S114-829D, S114-901, S114-901A, S114-901B, S114-907A, S114-922A, S114-925A, S114-925B

ID 65.50, OD 68.30, Height 34.00

## Solenoids

12 V


**130811**

Solenoid

Replating: 2114M-4700Y, 2114N-1750, 2114N-4700, 2114N-4700A, 2114N-4700Y, 211N-4700Y, 2120M-5700Y, 2120M-8700Y

Servicing: S114-131, S114-152, S114-155, S114-156A, S114-91, S12-19, S12-19K, S12-41A, S12-59

12 Volt, B+ M8, OD 50.90, OD/cover 49.65, Total length 143.50, Height/B+ 16.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 16.50, No./mount. holes 2 / M5, No./terminals 3 Mounting hole M5


**131144**

Solenoid

Replating: 2114-37001, 2114-47001, 2114-77004, 2114-87003, 2114-87008, 2130-37003, 2130-47001

Servicing: S114-147, S114-160, S114-160B, S114-160D, S114-160G, S114-161B, S114-161E, S114-163, S114-163B

12 Volt, B+ M8, ID/cover 21.85, ID/eye 4.80, OD 52.20, OD/cover 48.45, Length 52.25, Total length 112.35, Height/B+ 17.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 18.55, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 133269. Moving Contact: HC-CARGO 133270.


**131431**

Solenoid

Replating: 2120-27002, 2120-37002, 2120-37003, 2120-47002, 2120-57002, 2120-67002

Servicing: S12-68D, S12-63, S12-63C, S12-68, S12-68B, S12-79, S13-63, S12-77A, S12-78, S13-55, S12-19C

12 Volt, B+ M8, OD 52.15, OD/cover 44.35, Length 60.15, Total length 125.55, Height/B+ 18.70, Terminal 50 9.40, No./mount. holes 2, No./terminals 3 Cap: HC-CARGO 134620. Moving contact: HC-CARGO 139853.


**131800**

Solenoid

Replating: 2108-4823, 2114-57001, 2114-57004, 2114-57504, 2114-57604, 2114-87002, 2114-87004, 2114-97004

Servicing: S108-85, S108-86, S108-91, S114-160A, S114-160H, S114-170E, S114-171, S114-172A, S114-172E

12 Volt, B+ M8, ID/cover 22.00, ID/eye 4.85, OD 52.30, OD/cover 44.40, Length 52.35, Total length 112.20, Height/B+ 16.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.00, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 133269. Moving contact: HC-CARGO 133270.


**132058**

Solenoid

Replating: 2114-17006, 2114-27001, 2114-37003, 2114-40076, 2114-47006, 2114-67006, 2114-8700, 2114-T7012

Servicing: S114-149, S114-202, S114-247, S114-247A, S114-271, S13-289, S114-184, S114-202A

12 Volt, B+ M8, ID/cover 22.10, ID/eye 4.75, OD 52.25, OD/cover 46.75, Length 52.35, Total length 112.00, Height/B+ 16.00, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 15.15, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 133276. Moving contact: HC-CARGO 133270.

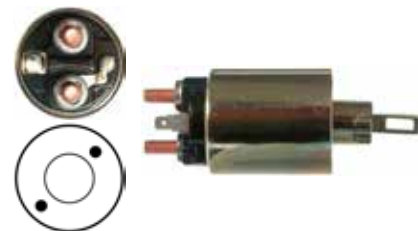

**132059**

Solenoid

Replating: 2120-97001, 2130-17002, 2130-27001, 2130-47012, 2130-6700

Servicing: S12-38A, S12-61, S13-23, S13-31, S13-33A, S13-36, S13-38A, S13-38B, S13-40, S13-40A, S13-43

12 Volt, B+ M8, ID/cover 20.00, ID/eye 7.35, OD 52.20, OD/cover 46.40, Length 64.40, Total length 129.40, Height/B+ 18.25, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 17.25, Fork lever w/ No./mount. holes 2, No./terminals 3 Cap: HC-CARGO 133803.


**132093**

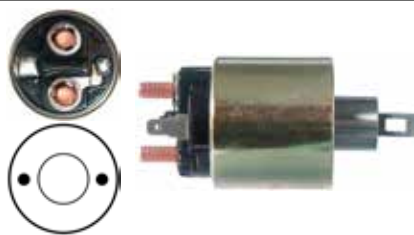
Solenoid

Replating: 2114-17005, 2114-17505, 2114-17602, 2114-37505, 2114-37602, 2114-47005, 2114-47007, 2114-47606

Servicing: S114-393, S114-254D, S114-322A, S114-344, S114-349, S114-438, S114-255A, S114-258C, S114-230A

12 Volt, B+ M8, ID/cover 21.70, ID/eye 4.65, OD 52.25, OD/cover 44.40, Length 51.35, Total length 110.90, Height/B+ 16.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.55, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 133803. Moving contact: HC-CARGO 139853.



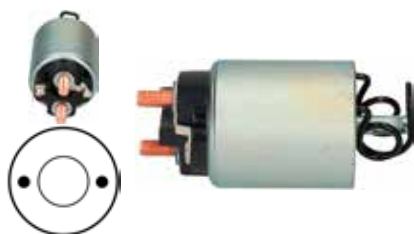


### 132094 Solenoid

Replacing: 2114-17606, 2114-17616, 2114-27501, 2114-37503, 2114-47503, 2114-57616, 2114-67505, 2114-77608

Servicing: S114-815, S114-816, S114-817, S114-817A, S114-883, S114-413A, S114-414, S114-414A, S114-424

12 Volt, B+ M8, ID/cover 22.00, ID/eye 4.80, OD 52.25, OD/cover 44.40, Length 41.00, Total length 106.80, Height/B+ 14.60, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.65, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133778. Moving contact: HC-CARGO 135105.



### 132421 Solenoid

Replacing: 2114-47504, 2114-67503, 2114-77008, 2114-T7103

Servicing: S114-385, S114-387, S114-357, S114-357A, S114-357B, S114-459, S13-66, S114-357C, S13-66A

12 Volt, B+ M8, OD 52.30, OD/cover 44.55, Total length 110.80, Height/B+ 14.15, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 14.65, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 133276.



### 132698 Solenoid

Replacing: 2114-37504, 2114-47009, 2114-47507, 2114-77007

Servicing: S114-374B, S114-403B, S114-303, S13-89, S13-89A, S114-290B, S13-121, S13-62, S13-62B

12 Volt, B+ M8, ID/cover 22.15, ID/eye 4.85, OD 52.10, OD/cover 44.35, Length 52.35, Total length 112.40, Height/B+ 18.45, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 17.15, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133803.



### 132915 Solenoid

Replacing: 2114-27006

Servicing: S114-237

12 Volt, B+ M8, ID/cover 21.70, ID/eye 4.80, OD 52.15, OD/cover 47.40, Length 52.30, Total length 111.30, Height/B+ 15.90, Terminal 15A/width 16.00, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 14.85, No./mount. holes 2, No./terminals 4, Fork lever w/  
Cap: HC-CARGO 133780.



### 133043 Solenoid

Replacing: 2130-17004, 2130-57004, 2130-57012, 2130-67004, 2130-8700

Servicing: S13-32A, S13-61, S13-61A, S13-74, S13-138A, S13-138, S13-86, S12-62, S13-32, S13-87

12 Volt, B+ M8, ID/cover 22.00, ID/eye 7.30, OD 52.30, OD/cover 44.35, Length 64.20, Total length 129.85, Height/B+ 16.55, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 15.55, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133276.

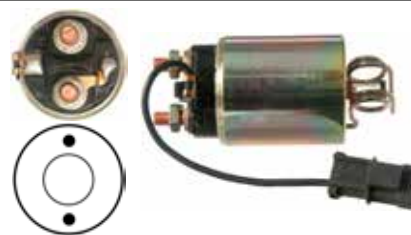


### 133044 Solenoid

Replacing: 2114-27005, 2114-27502, 2114-27504, 2114-77505, 2114-1700

Servicing: S114-362, S114-398, S114-418, S114-419, S114-456, S114-553, S114-556, S114-871

12 Volt, B+ M8, ID/cover 22.40, ID/eye 4.60, OD 52.15, OD/cover 44.50, Length 41.10, Total length 111.80, Height/B+ 15.15, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 14.95, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133276. Moving contact: HC-CARGO 135105. Spring: HC-CARGO 134740.



### 133045 Solenoid

Replacing: 2114-57506

Servicing: S114-430A, S114-430B, S114-430C, S114-439, S114-471, S114-471A, S114-472A, S114-482

12 Volt, B+ M8, ID/eye 4.85, OD 52.55, OD/cover 45.00, Total length 108.75, Height/B+ 16.10, Coil bolt M8, Coil bolt 2 17.35, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133780.

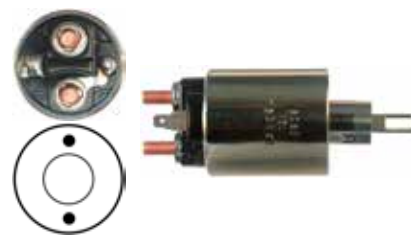


### 133047 Solenoid

Replacing: 2114-97509, 2130-27003, 2130-57001, 2130-77001, 2130-97006

Servicing: S13-207A, S13-207C, S13-82B, S114-338A, S114-339A, S114-339C, S114-339D, S114-429A, S13-71, S13-75

12 Volt, B+ M8, ID/cover 21.90, ID/eye 4.80, OD 52.30, OD/cover 44.40, Length 52.20, Total length 112.60, Height/B+ 16.70, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 15.50, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133276.



### 133054 Solenoid

Replacing: 2114-37005, 2114-37502, 2114-67504

Servicing: S114-370, S114-370A, S114-295, S114-481, S114-177, S114-352, S114-427, S114-481A

12 Volt, B+ M8, ID/cover 22.00, ID/eye 4.80, OD 52.10, OD/cover 44.35, Length 52.10, Total length 112.30, Height/B+ 16.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.00, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133778.





### 133749 Solenoid

Replacing: 2130-37004, 2130-37008, 2130-97004

Servicing: S13-136, S13-92A, S13-322, S13-326

12 Volt, B+ M8, ID/cover 22.30, ID/eye 4.85, OD 52.20, OD/cover 45.00, Length 47.35, Total length 126.55, Height/B+ 21.35, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 21.25, No./mount. holes 2, No./terminals 3, Fork lever w/



### 133750 Solenoid

Replacing: 2130-67005, 2130-77005, 2130-97008

Servicing: S13-106, S13-106A, S13-106B, S13-106C, S13-107, S13-127, S13-137A, S14-02, S13-213, S13-213A

12 Volt, B+ M8, ID/cover 25.25, ID/eye 4.80, OD 52.70, OD/cover 47.70, Length 46.90, Total length 122.20, Height/B+ 18.65, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 18.20, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 137798. Moving contact: HC-CARGO 139853.



### 135008 Solenoid

Replacing: 2130-27006, 2130-87005

Servicing: S13-112, S13-114, S13-114A, S14-03, S14-203, S13-111, S13-113, S13-112A

12 Volt, B+ M8, ID/cover 22.25, ID/eye 4.85, OD 52.20, OD/cover 45.00, Length 46.75, Total length 125.90, Height/B+ 21.25, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 21.20, No./mount. holes 2, No./terminals 3, Fork lever w/



### 135287 Solenoid

Replacing: 2114-67610

Servicing: S114-750, S114-766A, S114-801, S13-551

12 Volt, B+ M8, ID/eye 4.65, OD 52.00, OD/cover 44.25, Total length 97.35, Height/B+ 15.25, Coil bolt M8, Coil bolt 2 15.15, No./mount. holes 4, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 138819.



### 135370 Solenoid

Replacing: 2130-57005

Servicing: S114-357C, S13-105, S13-105A, S13-129, S13-131, S13-329

12 Volt, B+ M8, ID/eye 4.85, OD 52.25, OD/cover 45.00, Total length 125.35, Height/B+ 21.10, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 21.00, No./mount. holes 2, No./terminals 3, Fork lever w/  
Contact: HC-CARGO 139853.



### 135877 Solenoid

Replacing: 2114-27008

Servicing: S114-232, S114-232A

12 Volt, B+ M8, ID/cover 22.00, ID/eye 4.80, OD 52.20, OD/cover 44.35, Length 52.25, Total length 112.15, Height/B+ 16.20, Terminal 15A/width 15.15, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.40, No./mount. holes 2, No./terminals 4, Fork lever w/  
Cap: HC-CARGO 133780.

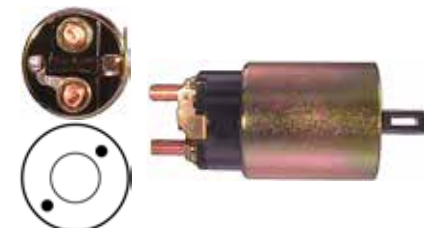


### 138170 Solenoid

Replacing: 2114-37613, 2114-37673, 2114-67673, 2114-97612

Servicing: S114-850A, S114-850B, S114-850C, S114-850

12 Volt, B+ M8, ID/cover 22.00, ID/eye 4.80, OD 52.00, OD/cover 44.25, Length 40.55, Total length 107.25, Height/B+ 15.10, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 14.00, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 139330.



### 138363 Solenoid

Replacing: 2130-57003

Servicing: S13-101, S13-102

12 Volt, B+ M8, ID/cover 22.40, ID/eye 4.60, OD 52.20, OD/cover 45.00, Length 46.55, Total length 125.90, Height/B+ 20.95, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 21.60, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 137798. Moving contact: HC-CARGO 139853.



### 138364 Solenoid

Replacing: 2114-47610, 2114-T7208

Servicing: S114-630, S114-769

12 Volt, B+ M8, ID/cover 21.90, ID/eye 4.65, OD 52.55, OD/cover 43.70, Length 41.00, Total length 108.45, Height/B+ 14.00, Coil bolt M8, Coil bolt 2 13.30, No./mount. holes 4, No./terminals 3, Fork lever w/





### 138366 Solenoid

Replacing: 2114-87601, 2114-87611

Servicing: S114-471A, S114-472, S114-472A, S114-471, S114-482, S114-490

12 Volt, B+ M8, ID/eye 4.65, OD 52.30, OD/cover 44.35, Total length 109.85, Height/B+ 14.45, Coil bolt M8, Coil bolt 2 14.50, No./mount. holes 2, No./terminals 3, Fork lever w/



### 138739 Solenoid

Replacing: 2130-17010, 2130-47005

Servicing: S13-294, S13-94A, S13-115, S13-115A, S13-120A, S13-94

12 Volt, B+ M8, ID/cover 21.75, ID/eye 4.90, OD 52.20, OD/cover 44.70, Length 46.00, Total length 124.85, Height/B+ 23.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 22.20, No./mount. holes 2, No./terminals 3, Fork lever w/



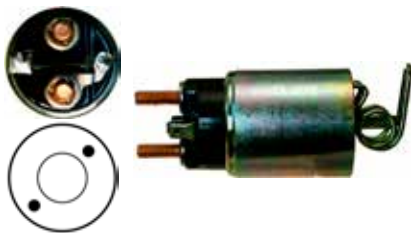
### 138809 Solenoid

Replacing: 2130-37005

Servicing: S13-104, S13-92A

12 Volt, B+ M8, ID/cover 22.25, ID/eye 4.65, OD 52.00, OD/cover 45.00, Length 47.30, Total length 126.45, Height/B+ 21.10, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 21.10, No./mount. holes 2, No./terminals 3, Fork lever w/

Cap: HC-CARGO 138810.



### 138811 Solenoid

Servicing: S13-91, S13-91A

12 Volt, B+ M8, ID/eye 4.70, OD 52.00, OD/cover 45.00, Total length 125.15, Height/B+ 21.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 21.35, No./mount. holes 2, No./terminals 3, Fork lever w/

Cap: HC-CARGO 138812.



### 138823 Solenoid

Replacing: 2114-97605

Servicing: S114-527, S114-527A, S114-527B, S114-569A, S114-519A, S114-569

12 Volt, B+ M8, ID/cover 22.75, ID/eye 4.60, OD 52.00, OD/cover 44.35, Length 40.75, Total length 97.30, Height/B+ 15.30, Coil bolt M8, Coil bolt 2 15.55, No./mount. holes 2, No./terminals 3, Fork lever w/

Cap: HC-CARGO 138819.



### 138957 Solenoid

Replacing: 2114-27613

Servicing: S114-385, S114-808, S114-808C, S114-808D, S114-869, S114-925A, S114-925B, S114-925C, S114-808A

12 Volt, B+ M8, ID/cover 22.45, ID/eye 4.65, OD 52.00, OD/cover 43.90, Length 40.65, Total length 106.80, Height/B+ 12.85, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 11.80, No./mount. holes 2, No./terminals 3, Fork lever w/

Cap: HC-CARGO 139604. Moving contact: HC-CARGO 139605.



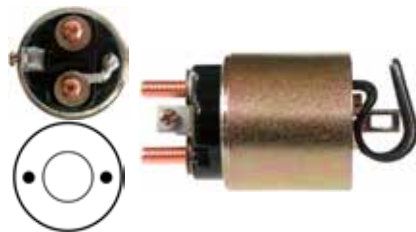
### 139164 Solenoid

Replacing: 2130-47008, 2130-77008, 2130-87008

Servicing: S13-302, S13-302A, S13-305, S13-305A, S13-329, S13-331, S13-529, S13-531

12 Volt, B+ M8, ID/cover 24.45, ID/eye 4.45, OD 52.80, OD/cover 44.10, Length 44.60, Total length 121.45, Height/B+ 23.15, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 22.00, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 137798.



### 139832 Solenoid

Replacing: 2114-37608, 2114-97601

Servicing: S114-473, S114-480, S114-480A, S114-480B

12 Volt, B+ M8, ID/cover 22.30, ID/eye 4.55, OD 52.05, OD/cover 44.20, Length 41.05, Total length 97.50, Height/B+ 16.60, Terminal 50 M4S, Coil bolt M8, Coil bolt 2 16.60, No./mount. holes 2, No./terminals 3, Fork lever w/o

Contact: HC-CARGO 139604.



### 139833 Solenoid

Replacing: 2114-27505

Servicing: S114-401B, S13-100, S13-109, S13-109B

12 Volt, B+ M8, ID/cover 22.00, ID/eye 4.80, OD 52.30, OD/cover 44.65, Length 52.00, Total length 109.85, Height/B+ 14.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.95, No./mount. holes 2, No./terminals 3, Fork lever w/





**139834** Solenoid  
12 Volt, B+ M8, ID/cover 22.10, ID/eye 4.80, OD 52.35, OD/cover 44.60, Length 52.10, Total length 110.45, Height/B+ 14.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.75, No./mount. holes 2, No./terminals 3, Fork lever w/



**230558** Solenoid  
Replacing: 2130-47009, 2130-57011  
Servicing: S13-160, S13-204, S13-205, S13-205A, S13-205C, S13-205D  
12 Volt, B+ M8, ID/cover 24.55, ID/eye 4.50, OD 52.70, OD/cover 44.30, Length 44.65, Total length 121.40, Height/B+ 23.25, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 21.65, No./mount. holes 3, No./terminals 3, Fork lever w/



**231910** Solenoid  
Replacing: 2114-37506, 2114-47612, 2114-87603  
Servicing: S114-801A, S114-801B, S114-801C, S114-801D, S114-461, S114-461A, S114-461B  
12 Volt, B+ M8, ID/cover 21.90, ID/eye 4.75, OD 52.00, OD/cover 44.35, Length 41.35, Total length 123.00, Height/B+ 13.65, Coil bolt M8, Coil bolt 2 13.65, No./mount. holes 2, No./terminals 3, Fork lever w/



**232200** Solenoid  
Replacing: 2114-67605  
Servicing: S114-520B, S114-530, S114-533, S114-534, S114-535, S114-570A, S114-570B, S114-570C, S114-758  
12 Volt, B+ M8, OD 52.00, Total length 76.00, Height/B+ 12.50, Terminal 50 6.30, No./mount. holes 2, No./terminals 3, Bracket type Crimp  
Cap: HC-CARGO 138819.



**232452** Solenoid  
Servicing: S114-829C, S114-829D, S114-829, S114-829A, S114-829B  
12 Volt, B+ M8, ID/cover 25.80, OD 54.00, OD/cover 52.30, Length 51.50, Total length 114.50, Switch dim. 4.30, Height/B+ 12.50, Terminal 50 M4, Coil bolt M8, Coil bolt 2 10.90, No./terminals 3, Bracket type Crimp  
Cap: HC-CARGO 231822.



**235076** Solenoid  
Replacing: 2130-17007, 2130-37010, 2130-67007  
Servicing: S13-122, S13-126, S13-126A, S13-326, S13-322  
12 Volt, 2.2 kW, B+ M8, ID/cover 14.00, OD 53.00, OD/cover 49.70, Total length 100.00, Switch dim. 8.80, Height/B+ 17.00, Terminal 50 6.30, No./terminals 3



**238529** Solenoid  
Servicing: S114-875, S13-250, S13-550  
12 Volt, No./terminals 3



**239907** Solenoid  
Servicing: S114-905, S114-906, S114-938, S114-943, S114-943A, S114-947, S114-947A, S114-948  
12 Volt, 1.0 kW, B+ M8, OD 52.23, Total length 94.50, Height/B+ 16.30, No./mount. holes 2, No./terminals 2



**330150** Solenoid  
Replacing: 2114-27622, 2114-27623, 2114-67619, 330150  
Servicing: S114-902A, S114-902, S114-922, S114-922A, S114-955, S114-902B, S114-902C, S114-959A  
12 Volt, 1.0 kW, B+ M8, ID/cover 24.67, ID/eye 4.20, OD 52.10, OD/cover 50.32, Length 40.60, Total length 111.50, Switch dim. 10.56, Height/B+ 21.43, Terminal 50 M5, Coil bolt M8, Coil bolt 2 20.00, No./mount. holes 2, No./terminals 3, Bracket type Bracket



**331018** Solenoid  
Servicing: S114-877A  
12 Volt, B+ M8, ID/eye 4.60, OD 52.00, Length 40.70, Height/B+ 17.20, Coil bolt M8, Terminal 50 M5, No./mount. holes 2, No./terminals 3, Bracket type Crimp





### 332464 Solenoid

Servicing: S13-556, S13-556A

12 Volt, 2.5 kW, B+ M8, ID/eye 4.51, OD 52.27, Length 40.58, Height/B+ 14.75, Total length 87.60, Terminal 50 M5, Coil bolt M8, Coil bolt 2 8.06, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333843 Solenoid

Replacing: 2130-17011

Servicing: S13-527, S13-527A, S13-527B, S13-527C, S13-527D, S14-405, S14-405A, S14-405B, S14-405C, S14-405D

12 Volt, B+ M8, ID/eye 4.70, OD 52.30, Length 41.20, Total length 98.40, Terminal 50 6.30, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335324 Solenoid

Replacing: 2130-77010

Servicing: S13-502A, S13-557B

12 Volt, 2.0 kW, B+ M8, ID/eye 4.50, OD 52.00, OD/cover 50.00, Length 40.40, Total length 77.00, Height/B+ 13.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o

## 24 V

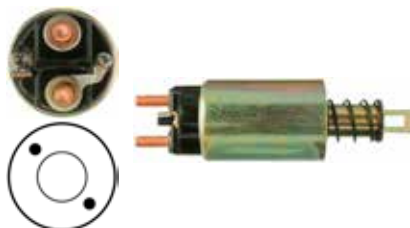


### 132423 Solenoid

Replacing: 2250-17002, 2250-27003, 2250-37001, 2250-37005, 2250-47002, 2250-67003, 2250-87004, 2250-97003

Servicing: S25-155D, S25-110, S25-110A, S25-110B, S25-110C, S25-110F, S25-120A, S25-121A, S25-142A, S25-74A

24 Volt, B+ M8, ID/cover 22.40, ID/eye 7.25, OD 52.30, OD/cover 44.90, Length 64.00, Total length 143.00, Height/B+ 21.00, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 21.65, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 134620.



### 134812 Solenoid

Replacing: 2270-37001

Servicing: S25-156, S25-64

24 Volt, B+ M8, ID/cover 22.50, ID/eye 7.25, OD 52.15, OD/cover 44.75, Length 80.50, Total length 179.70, Height/B+ 23.35, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 22.85, No./mount. holes 4, No./terminals 3, Fork lever w/ Cap: HC-CARGO 134620.



### 136141 Solenoid

Replacing: 2240-5700

Servicing: S24-03B, S24-03C, S24-07, S24-13, S24-13A, S24-14, S25-161, S24-03A

24 Volt, B+ M8, ID/cover 25.25, ID/eye 4.75, OD 52.75, OD/cover 44.70, Length 45.20, Total length 119.55, Height/B+ 18.55, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 17.00, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 134620.



### 139851 Solenoid

Replacing: 2250-17005, 2250-47007, 2250-77006

Servicing: S25-110G, S25-110L, S25-162, S25-164, S25-164A, S25-110K, S25-110M 24 Volt, B+ M8, ID/cover 21.30, ID/eye 7.00, OD 52.30, OD/cover 45.00, Length 80.80, Total length 160.20, Height/B+ 21.55, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 21.35, No./mount. holes 2, No./terminals 3, Fork lever w/



### 232263 Solenoid

Replacing: 2250-27006, 2250-57006, 2250-97006

Servicing: S25-158, S25-158A, S25-158B

24 Volt, B+ M8, ID/cover 22.00, ID/eye 7.25, OD 52.80, OD/cover 44.80, Length 80.30, Total length 159.80, Height/B+ 23.90, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 23.90, No./mount. holes 2, No./terminals 3, Fork lever w/



### 233122 Solenoid

Replacing: 2210-17002, 2210M-5700

Servicing: S210-108, S210-89, S210-90, S210-100, S210-104, S210-104A, S210-98D, S210-98E, S28-23B

24 Volt, B+ M10, ID/cover 20.20, ID/eye 7.30, OD 69.90, OD/cover 59.95, Length 94.90, Total length 179.35, Height/B+ 24.00, Terminal 15A/width 13.00, Terminal 50 9.40, Coil bolt M10, Coil bolt 2 24.40, No./mount. holes 4, No./terminals 3, Fork lever w/





### 234556 Solenoid

Replacing: 2250-17007, 2250-97001

Servicing: S25-142B, S25-110, S25-110A, S25-110B, S25-110C, S25-110F, S25-121A, S25-125A, S25-125B, S25-142

24 Volt, B+ M8, ID/cover 20.25, ID/eye 7.00, OD 63.00, OD/cover 54.60, Length 75.65, Total length 169.65, Height/B+ 19.20, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 20.25, No./mount. holes 2, No./terminals 3, Fork lever w/



### 234868 Solenoid

Replacing: 2240-4701

Servicing: S25-163A, S25-163B, S25-163C, S25-163E

24 Volt, 4.0 kW, B+ M8, ID/cover 21.30, ID/eye 4.70, OD 52.00, OD/cover 45.00, Length 60.90, Total length 139.50, Height/B+ 21.00, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 21.40, No./mount. holes 2, No./terminals 3, Fork lever w/



### 234869 Solenoid

Replacing: 2250-37008

Servicing: S25-163F, S25-163G, S25-168, S25-168A, S25-171, S25-501, S25-501A, S25-501B, S25-515A, S25-515B

24 Volt, 4.0 kW, B+ M8, ID/cover 22.00, ID/eye 4.60, OD 52.20, OD/cover 45.00, Length 44.25, Total length 124.20, Height/B+ 21.30, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 21.35, No./mount. holes 2, No./terminals 3, Fork lever w/



### 235814 Solenoid

Replacing: 2240-1700, 2240-2700

Servicing: S24-01B, S24-01C, S24-01D

24 Volt, B+ M8, OD 53.00, Length 61.00, Total length 114.00, Height/B+ 15.80, Terminal 50 6.30, No./mount. holes 2, No./terminals 3, Bracket type Bracket

## Solenoid Parts

### Solenoid Caps



Pkg. 5

### 133269 Solenoid Cap

Replacing: ZM-68096

Servicing: S114-871, S114-147, S114-160, S114-160A, S114-160B, S114-160D, S114-160F, S114-160G, S114-160H

ID 37.10, OD 49.90, Coil bolt M8, Coil bolt 2 14.70, No./terminals 3, Bracket type Crimp  
HC-CARGO 131144, 131800.



Pkg. 5

### 133276 Solenoid Cap

Servicing: S12-85, 2114-17006, 2114-27001, 2114-27003, 2114-67006, 2114-77001, 2114-77008, S114-103, S114-170B

ID 37.20, OD 50.00, Coil bolt M8, Coil bolt 2 15.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 132058, 132421, 133043, 133044, 133047.



Pkg. 5

### 133778 Solenoid Cap

Servicing: S114-402A, S114-653, 2114-17505, 2114-27501, 2114-37005, 2114-37503, 2114-37505, 2114-47005

ID 37.00, OD 49.85, Coil bolt M8, Coil bolt 2 15.20, No./terminals 3, Bracket type Crimp  
HC-CARGO 132094, 133054.



Pkg. 5

### 133780 Solenoid Cap

Servicing: 2114-27006, 2114-27008, S114-232, S114-232A, S114-237

ID 37.00, OD 49.80, Coil bolt M8, Coil bolt 2 14.80, No./terminals 4, Bracket type Crimp  
HC-CARGO 132915, 135877.



Pkg. 5

### 133803 Solenoid Cap

Replacing: ZM-68596

Servicing: S13-104, S13-106B, S13-106C, S13-106E, S13-114A, S13-127, S13-127C, S13-92A, S14-203, S25-106A

ID 37.00, OD 50.15, Coil bolt M8, Coil bolt 2 16.45, No./terminals 3, Bracket type Crimp  
HC-CARGO 132059, 132093, 132698.



### 134620 Solenoid Cap

Servicing: 2120-67002, 2130-7705, 2240-5700, 2250-22002, 2250-37001, 2250-37005, 2250-47003, 2250-57003

ID 39.15, OD 50.00, Coil bolt M8, Coil bolt 2 21.30, No./terminals 3, Bracket type Crimp  
HC-CARGO 131431, 132423, 133749, 134812, 135008, 136141.





### 137798 Solenoid Cap

Servicing: 2130-57005, 2130-77008, S13-101, S13-102, S13-105, S13-105A, S13-106A, S13-106B, S13-107, S13-107A

ID 38.00, OD 49.45, Coil bolt M8, Coil bolt 2 15.60, No./terminals 3, Bracket type Crimp  
HC-CARGO 133750, 139164.



### 138810 Solenoid Cap

Servicing: 2240-7700, 2240-8700, S13-104, S13-92A

ID 39.15, OD 50.20, Coil bolt M8, Coil bolt 2 21.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 138809.



### 138812 Solenoid Cap

Servicing: S13-91, S13-91A

ID 39.15, OD 50.15, Coil bolt M8, Coil bolt 2 21.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 138811.



### 138819 Solenoid Cap

Replacing: ZM-71996

Servicing: S114-569A, S114-801, S114-800, S114-800A, 2114-67605, 2114-87603, 2114-97605, S114-519A, S114-520A

ID 37.45, OD 49.85, Coil bolt M8, Coil bolt 2 13.30, No./terminals 3, Bracket type Crimp  
HC-CARGO 135287, 138823, 232200.



Pkg. 5

### 139330 Solenoid Cap

Servicing: 2114-37613, 2114-97612, S114-850, S114-850A, S114-850B, S114-850C

ID 37.00, OD 49.75, Coil bolt M8, Coil bolt 2 13.35, No./terminals 3, Bracket type Crimp  
HC-CARGO 138170.



Pkg. 5

### 139604 Solenoid Cap

Servicing: S114-808C, S114-808D, S114-925A, S114-925B, S114-925C, 2114-27613, 2114-97601, S114-473, S114-480

ID 37.00, OD 50.00, Coil bolt M8, Coil bolt 2 13.60, No./terminals 3, Bracket type Crimp  
HC-CARGO 138957, 139832.



Pkg. 5

### 231822 Solenoid Cap

Servicing: S114-829, S114-829A, S114-829B

ID 15.30, OD 52.30, Switch dim. 4.20, Coil bolt 9.20, No./terminals 3, Bracket type Crimp

### Moving Contacts



Pkg. 5

### 133270 Moving Contact

Servicing: S12-85, S114-103, S114-146, S114-152, S114-155, S114-160, S114-160A, S114-160B, S114-160D

OD 2 5.85, Length 29.60, Shaft dim. 29.60, Thickness 2.00, Shaft w/



Pkg. 5

### 135105 Moving Contact

Servicing: S114-922A, S114-955, 2114-87503, S114-317, S114-317B, S114-320, S114-320A, S114-391A, S114-418

OD 24.00, OD 2 5.60, Shaft dim. 42.00, Thickness 1.85, Material Copper, Shaft w/



Pkg. 50

### 139605 Moving Contact

Servicing: S114-402A, S114-569A, S114-653, S114-801, S114-808C, S114-808D, S114-871, S114-925A, S114-925B

OD 24.00, OD 2 5.70, Shaft dim. 42.00, Thickness 2.40, Material Copper, Shaft w/  
Alternative no.: 335935



Pkg. 5

### 335935 Moving Contact

OD 24.00, OD 2 5.75, Shaft dim. 42.00, Thickness 2.40, Material Copper, Shaft w/  
Alternative no.: 139605

### Fixed Contacts



Pkg. 10

### 234456 Fixed Contact

Total length 30.00, Length/rear collar 24.20, Thread length 20.70, Thread size M8, Shaft w/, Washer w/o



## Drives



### 130440

Drive

Replacing: 2114-1560, 2114-4550, 2114N-1150, 2114N-1550, 2114N-1560, 2114N-4550

Servicing: S114-103, S114-121, S114-122, S114-173, S114-87, S114-126M, S114-139, S114-151, S114-181, S114-301

ID 13.00, OD 29.70, OD/housing 46.25, Total length 62.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131085

Drive

Replacing: 2114-55004, 2114-65001

Servicing: S108-63, S108-89, S114-140, S114-141, S114-149, S114-156A, S114-160, S114-160A, S114-160B

ID 12.50, OD 29.70, OD/housing 47.00, Total length 62.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131086

Drive

Replacing: 2114-65004, 2114-95002

Servicing: S114-161, S114-161B, S114-161E, S114-161F, S114-152, S114-155

ID 12.50, OD 28.00, OD/housing 46.20, Total length 62.00, No./teeth 8, Rotation CW, Key spline w/o, Lock w/



### 131783

Drive

Replacing: 2114-45004, 2114-45007, 2114-75001, 2114N-3550

Servicing: S114-126M, S114-170B, S114-170E, S114-171, S114-172A, S114-172D, S114-173, S114-173B, S114-173E

ID 12.55, OD 28.70, OD/housing 46.30, Total length 62.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131852

Drive

Replacing: 2114-55007, 2114-95007

Servicing: S114-232, S114-232A, S114-237, S13-317, S114-297

ID 12.00, OD 25.80, OD/housing 46.20, Total length 76.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131984

Drive

Replacing: 2120-3500, 2120-35001, 2120-7500, 2120-7530, 2120-7550, 2130-35001, 2130-7550, 2250-35002

Servicing: S12-19, S12-41, S12-41A, S12-48, S12-58, S12-59, S12-61, S12-82, S12-88, S13-06, S13-25, S13-28

ID 13.80, OD 33.00, OD/housing 60.05, Total length 69.00, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131985

Drive

Replacing: 2120-25001, 2120-25002, 2120-45002, 2120-55002, 2120-75002, 2120-85001, 2120-85002, 2120-9500

Servicing: S12-19K, S12-38A, S12-63, S12-68, S12-68B, S13-19C, S13-36, S13-38A, S13-38B, S13-40, S13-40A

ID 14.00, OD 36.00, OD/housing 60.00, Total length 70.00, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131986

Drive

Replacing: 2114-15550, 2114-25100, 2114-45504, 2114-65016

Servicing: S114-320, S114-348, S114-348A, S114-376B, S114-413A, S114-570B, S114-607, S114-607C, S114-650

ID 12.40, OD 28.00, OD/housing 46.25, Total length 60.00, Splines A 10, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 131988

Drive

Replacing: 2114-15004, 2114-15100, 2114-15504

Servicing: S114-435G, S114-568A, S114-630, S114-315, S114-316, S114-362, S114-364, S114-402A, S114-418

ID 12.50, OD 27.85, OD/housing 46.00, Total length 82.00, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o



### 132001

Drive

Replacing: 2114-25550, 2114-35506, 2114-45550, 2114-55506, 2114-85008, 2114-95553, 2214-25550

Servicing: S114-264, S114-268, S114-268A, S114-446, S114-453, S114-454, S114-457, S114-459, S114-480A

ID 11.90, OD 29.19, Total length 87.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132447

Drive

Replacing: 2114-15002, 2114-15006, 2114-75005

Servicing: S114-245, S114-225, S114-228, S114-273, S114-303, S114-213A

ID 12.50, OD 29.00, OD/housing 48.00, Total length 62.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132448

Drive

Replacing: 2114-15508

Servicing: S114-385, S114-387, S114-396, S114-412, S114-614

ID 12.50, OD 29.20, OD/housing 46.25, Total length 76.50, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o





### 132449 Drive

Replacing: 2114-55003

Servicing: S114-203, S114-219, S114-230, S114-230A, S114-235, S114-235A, S114-235B  
ID 12.55, OD 34.45, OD/housing 46.00,  
Total length 62.25, No./teeth 11,  
Rotation CW, Key spline w/o, Lock w/o



### 132453 Drive

Replacing: 2130-5500, 2130-7500, 2250-45003, 2250-85004

Servicing: S13-15, S25-131, S13-14, S25-75, S25-75A, S25-131A, S25-155, S25-155C, S25-155D

ID 14.00, OD 40.00, OD/housing 60.00,  
Total length 69.50, Splines A 12, No./teeth 11,  
Rotation CW, Key spline w/o, Lock w/o



### 132918 Drive

Replacing: 2130-45002

Servicing: S12-84, S12-85, S13-73, S13-74, S12-87  
ID 14.00, OD 39.45, OD/housing 60.00,  
Total length 69.00, Splines A 12, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 133058 Drive

Replacing: 2250-25003, 2250-25004, 2250-45004, 2250-85005, 2250-95001, 2270-8500

Servicing: S25-110L, S25-125A, S25-125B, S25-156, S25-158B, S25-160, S25-162, S25-142, S25-142E, S25-143C

ID 16.00, OD 40.00, OD/housing 60.00,  
Total length 77.60, Splines A 12, No./teeth 11,  
Rotation CW, Key spline w/o, Lock w/o



### 133266 Drive

Replacing: 2120-45001, 2130-55005, 2130-65002, 2250-550, 2250-6500, 2250-65002, 2250-7500, 2280-3500

Servicing: S12-47, S12-77A, S12-79, S12-83, S13-24A, S13-37, S13-41A, S13-41B, S13-41D, S13-78

ID 14.05, OD 44.18, OD/housing 60.00,  
Total length 69.40, Splines A 12, No./teeth 15,  
Rotation CW, Key spline w/o, Lock w/o



### 133361 Drive

Replacing: 2120-15501, 2130-9500

Servicing: S12-62, S13-29, S13-32, S13-32A

ID 14.00, OD 34.00, OD/housing 60.00,  
Total length 69.35, Splines A 12, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 133437 Drive

Replacing: 2130-35004

Servicing: S13-91, S13-91A

OD 25.25, Total length 87.30, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o  
w/ bearing.



### 133465 Drive

Replacing: 2114-45002

Servicing: S114-146, S114-244, S114-244A, S114-417

ID 12.50, OD 44.00, OD/housing 54.20,  
Total length 62.17, Splines A 10, No./teeth 15,  
Rotation CW, Key spline w/o, Lock w/o



### 133605 Drive

Replacing: 2130-35009, 2130-75002, 2130-75003, 2130-75504, 2130-85003, 2130-85004

Servicing: S13-207, S13-207A, S13-207C, S13-210B, S13-210C, S14-210, S14-210A, S14-210B, S14-210C, S114-338A

ID 12.00, OD 32.35, Total length 87.00,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 134364 Drive

Replacing: 85540321

Servicing: LR150-704

ID 12.00, OD 29.00, OD/housing 46.25,  
Total length 52.35, Splines A 10, No./teeth 11,  
Rotation CW, Key spline w/o, Lock w/o



### 135091 Drive

Replacing: 2114-15507, 2114-45014, 2114-85501, 2130-1502, 2130-65008, 2130-75004, 2130-95007

Servicing: S114-357, S114-357A, S114-357B, S114-357C, S114-367, S114-395, S114-395A, S114-482, S13-101

OD 34.90, Total length 87.00, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 135091zz



### 135091ZZ Drive

Replacing: 2114-15507, 2114-45014, 2114-85501, 2130-1502, 2130-65008, 2130-75004, 2130-95007

Servicing: S13-47A, S13-49A, S13-56A, S13-407, S13-551

ID 13.00, OD 35.50, OD/housing 53.10,  
OD/teeth 35.50, Total length 87.05,  
No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 135091





### 135718 Drive

Replacing: 2130-15005, 2130-15505

Servicing: S13-106A, S13-106B, S13-106C, S13-106E, S13-117, S13-117A, S13-122, S13-126, S13-126A, S13-127

OD 35.00, OD/housing 53.10, Total length 93.50, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 136144 Drive

Replacing: 2114-45508

Servicing: S114-414, S114-414A, S114-651

ID 12.55, OD 28.25, OD/housing 47.00, Total length 60.35, Splines A 10, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o



### 136208 Drive

Replacing: 2108-75002, 2108-F3500, 2108F-3500

Servicing: S108-116, S108-28K, S108-61, S108-61A, S108-61B, S108-61C, S108-61D, S108-61E, S108-61G, S108-61F

ID 12.00, OD 29.50, OD/housing 46.20, Total length 39.60, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o 10 holes.



### 137277 Drive

Replacing: 2130-25005, 2140-1500, 2140-15003

Servicing: S13-114A, S14-03, S13-111, S13-112, S13-113, S13-114, S13-136, S14-203, S13-112A

OD 32.00, OD/housing 52.90, Total length 96.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 138958 Drive

Replacing: 2114-25554

Servicing: S114-808, S114-808C, S114-808D, S114-814, S114-814A, S114-815, S114-817, S114-817A, S114-839

ID 12.40, OD 34.50, OD/housing 48.00, Total length 38.50, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 139132 Drive

Replacing: 2114-15016

Servicing: S114-750, S114-758, S114-762A, S114-762B, S114-765, S114-766, S114-766A, S114-775A, S114-800

ID 12.55, OD 27.75, OD/housing 46.30, Total length 38.80, Splines A 10, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 139841 Drive

Replacing: 2240-2500, 2240-8500, 2240-9500

Servicing: S24-03B, S24-03C, S25-120, S25-120A, S25-161, S24-03A, S24-13

ID 12.15, OD 35.20, Total length 100.30, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 139843 Drive

Replacing: 2240-1501, 2240-5500

Servicing: S24-07, S24-12

ID 12.00, OD 32.00, Total length 100.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 231795 Drive

Servicing: S114-829C, S114-829D, S114-925A, S114-925B, S114-925C, S114-829, S114-829A, S114-829B, S114-869

ID 12.55, OD 33.25, OD/housing 48.50, Total length 38.60, Splines A 10, No./teeth 13, Rotation CW, Key spline w/o, Lock w/o Shaft assy: HC-CARGO 233436.



### 231804 Drive

Replacing: 2114-45100

Servicing: S114-801B, S114-801C, S114-875

ID 12.50, OD 32.00, OD/housing 46.25, Total length 75.00, Splines A 10, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o



### 233436 Gear w/ drive

Servicing: S114-829C, S114-829D, S114-925A, S114-925B, S114-925C, S114-829, S114-829A, S114-829B

Total length 98.50, No./teeth 13, Rotation CW

Drive only: HC-CARGO 231795.



### 234866 Drive

Replacing: 2240-2501, 2240-6501

Servicing: S25-163, S25-163A, S25-163B, S25-163C, S25-163E, S25-163F, S25-163G, S25-167

OD 40.35, OD/housing 64.45, Total length 115.40, No./teeth 11, Drive type Steel, Rotation CCW, Key spline w/o, Lock w/o





### 235004 Drive

Replacing: 2114-35016

Servicing: S114-769, S114-769A

ID 12.50, OD 28.00, OD/housing 28.00,  
Total length 61.00, Splines A 10,  
No./teeth 8, Rotation CCW



### 235501 Drive

Replacing: 2130-65006

Servicing: S114-451A, S114-477, S114-851,  
S114-851A, S13-125

OD 29.45, OD/housing 53.00,  
Total length 87.15, Shaft length 72.00,  
Splines A 10, No./teeth 9, Rotation CCW,  
Key spline w/o, Lock w/o



### 239909 Drive

Servicing: S114-907A, S114-903, S114-903A,  
S114-905, S114-906, S114-907, S114-938,  
S114-943, S114-943A

ID 12.55, OD 27.80, OD/housing 48.64,  
OD/teeth 27.80, Total length 38.78,  
Splines A 10, No./teeth 10,  
Drive type Steel, Rotation CW



### 330154 Drive

Servicing: S114-922A, S114-955, S114-901,  
S114-901A, S114-901B, S114-902, S114-902A,  
S114-902B, S114-902C

ID 12.60, OD 28.00, OD/housing 48.68,  
Total length 44.11, Splines A 5,  
No./teeth 10, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o



### 333931 Drive

Replacing: 2250-45006

Servicing: S25-308A, S25-505A, S25-505C,  
S25-505E, S25-505F, S25-505G, S25-505H,  
S25-512A, S25-512B, S25-512D

OD 40.50, Total length 132.50,  
No./teeth 11, Drive type Steel,  
Rotation CCW



### 333973 Drive

Replacing: 2240-8501

Servicing: S25-168, S25-168A, S25-171, S25-  
501, S25-501A, S25-501B, S25-515A

OD 40.30, Total length 104.00,  
No./teeth 11, Drive type Steel,  
Rotation CCW



### 333974 Drive

Replacing: 2130-45009

Servicing: S13-160, S14-102, S14-102A, S14-  
102B, S14-104, S14-104B

OD 35.00, Total length 96.00,  
No./teeth 9, Drive type Steel,  
Rotation CW



### 335573 Drive

Replacing: 69-70-87

ID 12.60, OD 29.50, OD/housing 47.00,  
Total length 60.00, Splines A 10,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o

## Drive Parts

### Caps

Pkg. 100



### 134253 Drive Cap

ID 47.24, OD 48.60, Height 17.00,  
Rubber w/o

Pkg. 10



### 134256 Drive Cap

ID 47.25, OD 48.30, Height 20.30

## Rollers

Pkg. 100



### 134930 Roller

OD 5.95, Length 11.00

Pkg. 1000



### 135517 Roller

OD 6.00, Length 10.95

## Springs

Pkg. 1000



### 134265 Dp Springs

Length 12.25, Height 10.60, Width 3.80,  
Material Steel



Pkg. 100



**134347** Dp Springs  
Length 15.60, Height 12.45, Width 5.45,  
Material Steel

Pkg. 300



**230489** Dp Springs  
Length 11.45, Height 8.35, Width 4.15,  
Material Steel

Pkg. 10



**331022** Spring  
Length 17.50, Height 15.60, Width 5.30

### Pinion



**132003** Pinion  
Replacing: 2114-15554, 2114-5508, 2114-55508, 2130-3503  
Servicing: S114-264, S114-446, S114-453, S114-454, S114-457, S114-459, S114-473, S114-480, S114-480A, S114-481  
OD 29.30, Height 87.30, No./splines 10, No./teeth 9, Bushing w/o



**133042** Pinion  
Replacing: 2114-95501, 2130-2501, 2130-6503  
Servicing: S114-293, S114-357, S114-357A, S114-357B, S114-357C, S114-367, S114-395A, S114-471, S114-471A  
ID 13.00, OD 35.30, Height 87.10, No./splines 10, No./teeth 9, Bushing w/o



**133436** Pinion  
Servicing: S13-91  
OD 25.35, Height 87.50, No./splines 10, No./teeth 9, Bushing w/o



**133606** Pinion  
Replacing: 2130-95003  
Servicing: S13-84, S13-87, S13-89, S13-89A, S13-84B  
ID 11.90, OD 32.20, Height 87.00, No./splines 10, No./teeth 9, Bushing w/o



**135010** Pinion  
Replacing: 2130-2503, 2130-25032  
Servicing: S13-111, S13-112, S13-113, S13-114, S13-114A, S13-136, S14-03  
OD 32.60, Height 93.50, No./splines 10, No./teeth 9, Bushing w/o



**135271** Pinion  
Replacing: 2130-1503  
Servicing: S13-106A, S13-106B, S13-106C, S13-106E, S13-117, S13-117A, S13-122, S13-126, S13-126A, S13-127  
OD 35.55, Height 93.35, No./splines 10, No./teeth 9, Bushing w/o



**230557** Pinion  
Replacing: 2130-8503  
Servicing: S13-204, S13-205  
OD 35.50, Height 97.35, No./splines 10, No./teeth 9, Bushing w/o

## Planet Gears

### Gear Parts

### Gear Shafts



**235485** Gear Shaft  
Replacing: 2114-75562  
Servicing: S114-800, S114-800A, S114-800B, S114-800C, S114-802A, S114-814, S114-814A, S114-815, S114-816  
OD/shaft 12.42, Total length 96.00, No./splines 10, Rotation CW

### Gear Plates



**137934#** Gear Plate  
Replacing: 2114-64102  
Servicing: S114-800, S114-800A, S114-800B, S114-801A, S114-801B, S114-801C, S114-801D, S114-804, S114-804A

### Various

Pkg. 5



**231390** Gasket  
ID 49.80, OD 55.25, Thickness 2.30, Material Rubber

## Levers



**135722** Lever  
Replacing: 2130-1914, 2240-1914  
Servicing: S13-106A, S13-106B, S13-106C, S13-106E, S13-107, S13-107A, S13-111, S13-112, S13-113, S13-114  
Length 109.50, Plunger w/o

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.

\*Available while stock last, \* Program development.





### 137533 Lever

Replacing: 2114-26015

Servicing: S114-480, S114-850, S114-851, S114-851A, S114-870, S114-473, S114-480A, S114-480B, S114-850A

Length 102.55, Plunger w/o



### 137938 Lever

Replacing: 2114-76015

Servicing: S114-800, S114-800A, S114-800B, S114-800C, S114-801, S114-801B, S114-801C, S114-801D, S114-801E

Dist. 40.30, Length 76.00, Plunger w/o  
Spring: HC-CARGO 134740.



### 233376 Lever

Servicing: S114-829C, S114-829D, S114-829, S114-829A, S114-829B

Dist. 39.50, Length 79.35, Plunger w/o



### 235313 Lever

Replacing: 2130-2914

Servicing: S13-107A, S13-117A, S13-126A, S13-127, S13-212, S13-213, S13-213A, S13-307A, S13-317, S13-322

Length 109.16, Plunger w/o

## Clutches



### 132459 Clutch

Replacing: 2114-25500, 2114-25505, 2114-2553, 2114-35500, 2114-35550, 2114-4502, 2114-5502, 2114-5550

Servicing: S114-257, S114-264, S114-293, S114-446, S114-453, S114-454, S114-457, S114-473, S114-480A, S114-481

OD 53.00, Total length 50.00,  
No./teeth 41, Rotation CW  
Front Bearing = 140223 / 333105, Rear  
Bearing = 140226



### 135059 Clutch

Replacing: 2114-25509, 2114-45015, 2114-45019, 2114-65012

Servicing: S114-430A, S114-430B, S114-431A, S114-431B, S114-431C, S114-432A, S114-439, S114-452, S114-452A

OD 52.00, Total length 50.00,  
No./splines 10, Rotation CCW



### 233887 Clutch

Replacing: 2130-8502

Servicing: S13-204, S13-205

OD 53.00, Total length 55.15, No./splines 10

## Brush Gears



### 132090 Brush Gear

Replacing: 2114-29007, 2114-39001, 2114-4311, 2114-49007, 2114-69008, 2114-79001, 2114-89007

Servicing: S114-256B, S114-257, S114-257G, S114-257H, S114-264, S114-268, S114-293, S114-342A, S114-349

12 Volt, ID 33.30, OD 74.55, Height 17.90  
Neg. brushes. Brush set: HC-CARGO 140338.



### 132424 Brush Gear

Replacing: 2114-23003, 2114-33001, 2114-33101, 2114-3311, 2114-53001, 2114-89001, 2114-9310

Servicing: S108-63, S108-78, S114-160F, S114-161F, S114-162D, S114-164, S114-242, S114-160, S114-160A

12 Volt, ID 35.98, OD 69.95, Height 14.61  
Neg. brushes. Brush set: HC-CARGO 140336.



### 133057 Brush Gear

Replacing: 2130-7305, 2250-13015, 2250-23015, 2250-43015, 2250-5310, 2250-7310

Servicing: S13-33, S13-33A, S13-33B, S13-34A, S13-37, S13-37B, S13-38B, S13-41, S13-41A, S13-41B, S13-45A

12 Volt, ID 44.20, OD 78.90, Height 29.80  
Neg. brushes. Brush set: HC-CARGO 140378.



### 133332 Brush Gear

Replacing: 2114-43101, 2114-93101

Servicing: S114-146, S114-170, S114-170B, S114-170E, S114-173E, S114-173F, S114-181, S114-182G, S114-184

12 Volt, ID 42.90, OD 79.90, Height 13.54  
Neg. brushes. Brush set: HC-CARGO 140334.



### 133333 Brush Gear

Replacing: 2114-5360, 2114-99001, 2114-99008

Servicing: S114-348, S114-348A, S114-607, S114-607C, S114-207, S114-244, S114-244A, S114-315, S114-316

12 Volt, ID 42.48, OD 79.88, Height 14.70  
Neg. brushes. Brush set: HC-CARGO 140334.





### 133653# Brush Gear

Replacing: 2114-19008

Servicing: S114-489, S114-440, S114-475, S114-475A, S114-486

12 Volt, ID 33.00, OD 64.00, Height 17.75  
Neg. brushes. Brush set: HC-CARGO 140338.



### 133730 Brush Gear

Replacing: 2130-13022, 2130-1306, 2130-2306, 2130-53021, 2130-53022, 2130-63022, 2130-73021, 2130-73022

Servicing: S13-114, S13-121, S13-207, S13-207A, S13-207C, S14-02, S14-03, S14-203, S13-100, S13-101, S13-102

12 Volt, ID 37.70, OD 64.85, Height 23.70  
Neg. brushes. Brush set: HC-CARGO 140567.



### 137121 Brush Gear

Replacing: 2114-23106, 2114-53104, 2114-53105, 2114-63104, 2114-73105

Servicing: S114-751, S114-753, S114-769, S114-750, S114-758, S114-762A, S114-765, S114-766A, S114-775A

12 Volt, ID 32.30, OD 61.20,  
Lead length 84.50, Height 17.95



### 137653 Brush Gear

Replacing: 2114-23103

Servicing: S114-456, S114-556, S114-558, S114-556A

12 Volt, ID 34.70, OD 66.00,  
Lead length 32.20, Height 14.70



### 137750 Brush Gear

Replacing: 2114-13103, 2114-23104, 2114-39008, 2114-83102, 2114-93102

Servicing: S114-517C, S114-520A, S114-520B, S114-526, S114-526A, S114-526B, S114-527, S114-527A, S114-527B

12 Volt, ID 35.15, OD 62.90,  
Lead length 58.70, Height 14.50  
Brush set: HC-CARGO 140786.



### 139166 Brush Gear

Replacing: 2114-83105, 2114-93104

Servicing: S114-566, S114-568, S114-570A, S114-570B, S114-570C, S114-650, S114-650A, S114-651, S114-651A

12 Volt, ID 34.80, OD 69.85,  
Lead length 54.75, Height 14.65



### 233637 Brush Gear

Replacing: 2240-4310

Servicing: S13-250, S25-163A, S25-163B, S25-163C, S25-163E, S25-163F, S25-163G, S25-167, S25-168, S25-168A

24 Volt, ID 40.00, OD 73.00, Height 23.60  
Neg. brushes. Brush set: HC-CARGO 140567.

## Brush Sets



### 140334 Brush Set

Replacing: 2114-33122, 2114-33122/43133, 2114-4313, 2114-4313/8312, 2114-43133, 2114-5312/5313, 2114-5312/8313

Servicing: S114-103, S114-108L, S114-122N, S114-126M, S114-139, S114-172A, S114-173, S114-180, S114-180E

12 Volt, Length 18.00, Lead length 33.00,  
Height 11.00, Thickness 7.00



### 140336 Brush Set

Replacing: 2114-19003, 2114-19003/29003, 2114-2315, 2114-2315/6313, 2114-29003, 2114-3315, 2114-3315/6313

Servicing: S114-160, S114-160A, S114-160B, S114-160D, S114-160G, S114-160H, S114-161B, S114-161E, S114-163

12 Volt, Length 16.00, Lead length 36.50,  
Height 11.00, Thickness 7.00, Terminals 1



### 140337 Brush Set

Replacing: 2250-1324, 2250-2323, 2250-2323/4322, 2250-4322

Servicing: S25-154, S25-157, S13-15, S13-61, S25-106A, S25-131, S25-64B, S25-64E, S24-64B, S24-64E, S25-100A

12 Volt, Length 19.50, Lead length 51.00,  
Height 20.00, Thickness 9.00



### 140338 Brush Set

Replacing: 2114-1316, 2114-23123, 2114-23123/33123, 2114-33123, 2114-59002, 2114-59002/6315, 2114-59002/69002

Servicing: S114-257, S114-264, S114-268, S114-293, S114-339A, S114-339C, S114-339D, S114-371, S114-371A

12 Volt, Length 16.00,  
Lead length 43.50, Lead length 2 33.50,  
Height 14.00, Thickness 7.00



### 140339 Brush Set

Replacing: 2120-7312, 2120-7312/9311, 2120-9311

Servicing: S12-19C, S12-63C, S12-68D, S12-77A, S12-78, S12-79, S12-83, S13-19C, S12-82, S12-41A, S12-59

12 Volt, Length 22.00, Lead length 43.50,  
Height 15.00, Thickness 8.00





### 140340 Brush Set

Replacing: 1811-1631, 2108-2305, 2108-2306, 2108-4305, 2108-4306, 2108-6305, 2108-6306

Servicing: S114-150, S114-151, S114-156A, S114-91, S108-56

12 Volt, Length 14.00, Lead length 33.60, Height 16.00, Thickness 6.00



### 140341 Brush Set

Replacing: 2114-2313, 2114-6312, 23379-19900

Servicing: S114-152

12 Volt, Length 16.00, Lead length 32.00, Height 16.00, Thickness 7.00



### 140376 Brush Set

Replacing: 2120-1311, 2120-1312, 2120-4311, 2120-5312, 2120-5312/7311, 2120-7311

Servicing: S12-19, S12-19K, S12-41A, S12-59, S12-23, S12-24A, S12-32, S12-34, S12-47

12 Volt, Length 22.30, Lead length 35.00, Height 14.25, Thickness 7.85

Pkg. 5



### 140377 Brush Set

Replacing: 2120-6312/2130-7311, 2120-6312/8311, 2130-23111, 2130-8312

Servicing: S13-25, S12-48, S12-52, S12-58, S12-61, S12-62, S13-31, S13-74, S12-84, S12-85, S12-87, S13-06A

12 Volt, Length 22.00, Lead length 51.00, Height 20.00, Thickness 9.00



### 140378 Brush Set

Replacing: 2130-2250, 2130-5312, 2130-5312/2250, 2130-5312/8311, 2130-5312/9312, 2130-8311, 2130-9312

Servicing: S13-38A, S13-60, S25-110K, S25-110M, S12-38A, S13-33, S13-37B, S13-38B, S13-41B, S13-45B, S13-67B

12-24 Volt, Length 18.00, Lead length 44.50, Height 25.00, Thickness 8.00



### 140379 Brush Set

Replacing: 2130-13111, 2130-13111/3315, 2130-13111/7312, 2130-3315, 2130-7312, 2240-1311, 2240-1311/1312

Servicing: S13-66, S13-84, S13-89, S13-89A, S14-203, S13-101, S13-102, S13-62, S13-62B, S13-64, S13-66A

12 Volt, Length 15.80, Lead length 36.00, Lead length 2 52.00, Height 19.00, Thickness 7.00



### 140567 Brush Set

Replacing: 2130-23112, 2130-23112/73111, 2130-43111, 2130-43112, 2130-53112, 2130-63112, 2130-73111

Servicing: S13-100, S13-104, S13-106A, S13-106B, S13-106C, S13-106E, S13-107, S13-107A, S13-109, S13-109B

12 Volt, Length 16.00, Lead length 37.00, Height 19.00, Thickness 7.00



### 140595 Brush Set

Replacing: 2120-3312/2130-3311, 2130-1312, 2130-1312/3311, 2130-2312, 2130-3311, 2130-4311, 2130-4312

Servicing: S13-14, S13-18, S13-28, S13-32, S13-32A, S13-29, S13-06, S13-06A, S13-10, S13-55

12 Volt, Length 22.00, Lead length 39.50, Lead length 2 39.50, Height 19.50, Thickness 9.00



### 140597 Brush Set

Replacing: 2130-6312, 2130-6312/9311, 2130-9311

Servicing: S13-49A

12 Volt, Length 18.00, Lead length 44.50, Height 19.00, Thickness 8.00



### 140781 Brush Set

Replacing: 2114-73123/83123

Servicing: S114-456, S114-556, S114-557A, S114-558, S114-556A, S114-557

12 Volt, Length 16.00, Lead length 89.50, Lead length 2 25.75, Height 11.00, Thickness 4.50



### 140786 Brush Set

Replacing: 2114-13123, 2114-13123/83121, 2114-63121, 2114-63121/83121, 2114-63123, 2114-63123/83121

Servicing: S114-554, S114-517C, S114-526, S114-526B, S114-527, S114-527A, S114-527B, S114-530, S114-533

12 Volt, Length 16.00, Lead length 28.00, Lead length 2 143.00, Height 11.00, Thickness 7.00

Pkg. 10



### 140818 Brush Set

Replacing: L170-1325

Servicing: LR1100-501B, LR1100-709, LR140-703, LR140-704, LR140-705, LR140-713, LR140-714, LR140-714B

14 Volt, Length 18.00, Lead length 71.00, Height 8.00, Thickness 5.00





### 140852 Brush Set

**Replacing:** 2114-4312, 2114-43125, 2114-43125/53125, 2114-43125/63125, 2114-43125/83125, 2114-53125, 2114-63125

**Servicing:** S114-753, S114-762B, S114-766, S114-769, S114-874, S114-876, S114-876A, S114-878A, S114-878B

12 Volt, Length 17.00,  
Lead length 107.00, Lead length 2 34.50,  
Height 14.00, Thickness 4.50



### 140922 Brush Set

**Replacing:** 2114-33127, 2114-33127/43127, 2114-43127, 2114-43127/33127

**Servicing:** S114-814A, S114-817, S114-817A, S114-829A, S114-829B, S114-844, S114-850, S114-940, S114-814

12 Volt, Length 15.50,  
Lead length 32.00, Lead length 2 121.50,  
Height 14.00, Thickness 4.50



### 140933# Brush Set

**Replacing:** 2114-23124, 2114-23124/6313, 2114-23124/83121, 2114-59003, 2114-83121, 2114-83124/83121, 2114-93121

**Servicing:** S114-419, S114-424, S114-398, S114-418, S114-435, S114-435A, S114-435B

12 Volt, Length 16.00,  
Lead length 123.50, Lead length 2 32.32,  
Height 11.00, Thickness 7.00



### 140953 Brush Set

**Replacing:** 2114-53126, 2114-53126/63126, 2114-63126, 23379-0M300

**Servicing:** S114-800B, S114-801C, S114-804, S114-804A, S114-805, S114-805A, S114-818A, S114-827, S114-800

12 Volt, Length 16.75, Lead length 98.00,  
Lead length 2 33.00/30.00,  
Height 13.80, Thickness 4.50



### 140986 Brush Set

**Replacing:** 2114-72125/83123, 2114-73123, 2114-73125, 2114-73125/83123, 2114-73126, 2114-83123, 2114-83126

**Servicing:** S114-655, S114-568, S114-568A, S114-570B, S114-650, S114-650A, S114-651, S114-651A, S114-653A

12 Volt, Length 16.00, Lead length 58.00,  
Lead length 2 32.00/25.00,  
Height 11.00, Thickness 4.50



### 141023 Brush Set

**Replacing:** 2280-1312, 2280-1312/1313, 2280-1313

**Servicing:** S28-23B, S28-25

24 Volt, Length 22.50, Lead length 69.00,  
Height 25.00, Thickness 10.00

## Bushings



### 140017 Bushing

**Replacing:** 1000301012

**Servicing:** S114-232, S114-232A

ID 12.09, OD 16.11, Length 14.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140017



### 140307 Bushing

**Replacing:** 2114-1605

**Servicing:** S12-43

ID 12.00, OD 16.30, Length 22.50,  
Material Copper, Pin w/o



### 140308 Bushing

**Replacing:** 2114-2302

ID 13.80, OD 19.20, Length 20.15,  
Material Copper, Pin w/o



### 140309 Bushing

**Replacing:** 2106-1601

**Servicing:** S114-131, S114-152, S114-155, S114-156A

ID 11.55, OD 15.10, Length 14.00,  
Type Standard, Material Copper, Pin w/o



### 140310 Bushing

**Replacing:** 2114-4661, 2114-5661

**Servicing:** S114-146, S114-163B, S114-170E, S114-182G, S114-203, S114-207, S114-230, S114-230A, S114-244

ID 12.52, OD 16.00, Length 15.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140310



### 140311 Bushing

**Replacing:** 2114-1601, 2114-5352, 2114-8661, 2114-9352, 2270-3502

**Servicing:** S114-203, S114-402A, S114-569A, S114-653, S114-653B, S114-808C, S114-829A, S114-829B, S114-925A

ID 12.53, OD 16.05, Length 12.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140311





### 140313 Bushing

Replacing: 2130-1310, 2130-2601

Servicing: S12-48, S12-52, S12-58, S12-61, S12-62, S12-88, S13-14, S13-18, S13-25, S13-28, S13-31, S13-32

ID 14.00, OD 18.00, Length 17.00,

Type Standard, Material Copper, Pin w/o  
Alternative no.: B140313

Pkg. 10



### 140314 Bushing

Replacing: 2114-3601, 2114-6601

Servicing: S114-103, S114-121N, S114-122N, S114-126M, S114-132, S114-139, S114-136

ID 11.07, OD 15.08, Length 15.00,

Type Standard, Material Copper, Pin w/o  
Alternative no.: B140314

Pkg. 10



### 140315 Bushing

Replacing: 2114-1352

Servicing: S114-103, S114-121N, S114-122N, S114-126M, S114-132, S114-136, S114-139, S114-151, S114-91

ID 11.52, OD 15.08, Length 13.00,

Material Copper, Pin w/o

Pkg. 10



### 140316 Bushing

Replacing: 2120-2601

Servicing: S12-19, S12-19C, S12-19K, S12-23, S12-24A, S12-32, S12-34, S12-41A, S12-47, S12-59, S12-63, S12-63C

ID 13.99, OD 18.03, Length 19.90,

Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140317 Bushing

Replacing: 2120-4401

Servicing: S114-232, S114-237, S12-19, S12-19C, S12-19K, S12-24A, S12-32, S12-34, S12-41A, S12-47, S12-48

ID 20.35, OD 26.50, Length 12.50,

Material Copper, Pin w/o

Alternative no.: B140317

Pkg. 10



### 140318 Bushing

Replacing: 2120-4302

Servicing: S12-19, S12-19C, S12-19K, S12-23, S12-24A, S12-32, S12-34, S12-41A, S12-47, S12-59, S12-63, S12-63C

ID 15.03, OD 20.00, Length 16.00,

Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140320 Bushing

Replacing: 23319-M0111

ID 11.06, OD 13.03, Length 13.00,

Material Copper, Pin w/o

Alternative no.: B140320

Pkg. 10



### 140326 Bushing

Replacing: 028403-0081

Servicing: S114-297, S114-103, S114-170B, S114-170E, S114-174

ID 12.54, OD 14.72, Length 14.00,

Material Copper, Pin w/o

Alternative no.: B140326

Pkg. 10



### 140406 Bushing

Replacing: 1933999

Servicing: 30MT, 35MT, S114-163

ID 19.30, OD 22.60, Length 19.25,

Material Copper, Pin w/o

Pkg. 10



### 140489 Bushing

Replacing: 2250-3601

Servicing: S13-68, S13-68A, S13-68C, S13-76, S13-76A, S13-86, S25-110F, S25-110G, S25-110L, S25-125A, S25-125B

ID 16.05, OD 21.10, Length 16.90,

Material Copper, Pin w/o

Pkg. 10



### 140505 Bushing

Replacing: M409D01301

Servicing: S114-180F, S114-180G, S114-182

ID 17.00, OD 20.00, Length 8.00,

Material Copper, Pin w/o

Pkg. 10



### 140584 Bushing

ID 12.62, OD 14.00, Length 19.30,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140584

Pkg. 10



Pkg. 10



### 140869 Bushing

**Servicing:** S114-505, S114-509, S114-517, S114-517C, S114-526, S114-526A, S114-526B, S114-528A, S114-535

**ID** 18.12, **OD** 22.10, **Length** 7.10,  
**Type** Standard, **Material** Copper, **Pin** w/o  
**Alternative no.:** B140869

Pkg. 10



### 140870 Bushing

**Replacing:** 2114-1353

**Servicing:** S114-141, S114-149, S114-150, S114-160A, S114-160H, S114-161B, S114-161E, S114-171, S114-172A

**ID** 12.04, **OD** 15.56, **Length** 5.50,  
**Material** Copper, **Pin** w/o  
**Alternative no.:** B140870

Pkg. 10



### 140927 Bushing

**Replacing:** 2114-44101

**Servicing:** S114-750, S114-751, S114-752, S114-755, S114-756, S114-758, S114-762A, S114-762B, S114-765

**ID** 18.12, **OD** 22.04, **Length** 6.79,  
**Type** Standard, **Material** Copper, **Pin** w/o  
**Alternative no.:** B140927

Pkg. 10



### 140992 Bushing

**Servicing:** S114-762, S114-762A, S114-762B

**ID** 6.04, **OD** 9.81, **Length** 7.04,  
**Material** Copper, **Pin** w/o

Pkg. 10



### 140993 Bushing

**Servicing:** S114-808, S114-808A, S114-808B

**ID** 6.16, **OD** 10.00, **Length** 8.91,  
**Type** Standard, **Material** Copper, **Pin** w/o  
**Alternative no.:** B140993

Pkg. 10



### 140994 Bushing

**Servicing:** S114-800, S114-800A, S114-800B, S114-802A, S114-806, S114-806A, S114-808, S114-808A, S114-808B

**ID** 6.84, **OD** 11.00, **Length** 8.00,  
**Type** Standard, **Material** Copper, **Pin** w/o  
**Alternative no.:** B140994

Pkg. 10



### 140995 Bushing

**Replacing:** 2114-9601

**Servicing:** S114-430A, S114-430B, S114-430C, S114-431A, S114-431B, S114-431C, S114-432A, S114-439, S114-452

**ID** 20.12, **OD** 25.12, **Length** 9.25,  
**Type** Standard, **Material** Copper, **Pin** w/o  
**Alternative no.:** B140995

Pkg. 10



### 141082 Bushing

**ID** 22.07, **OD** 26.00, **Length** 5.19,  
**Type** Mount., **Material** Copper, **Pin** w/o

Pkg. 10



### 141132 Bushing

**Servicing:** S114-526, S114-526B, S114-528A, S114-757, S114-869, S114-925

**ID** 6.10, **OD** 10.00, **Length** 6.85,  
**Material** Copper, **Pin** w/o

Pkg. 10



### 141133 Bushing

**Servicing:** S108-28H, S108-28K, S108-56, S108-76, S108-76A

**ID** 9.20, **OD** 13.08, **Length** 13.30,  
**Material** Copper, **Pin** w/o

Pkg. 10



### 141134 Bushing

**Servicing:** S114-753, S114-753C, S114-755, S114-756, S114-758, S114-762, S114-762A, S114-762B, S114-766A

**ID** 8.15, **OD** 11.00, **Length** 8.25,  
**Material** Copper, **Pin** w/o

Pkg. 10



### 141135 Bushing

**Servicing:** S114-901, S114-901A, S114-901B, S114-943A, S114-948, S114-203, S114-613, S114-613A, S114-905

**ID** 12.58, **OD** 16.03, **Length** 11.90,  
**Material** Copper, **Pin** w/o





Pkg. 10

### 141136 Bushing

Servicing: S114-161B, S114-161E, S114-161F, S114-182G, S114-315, S114-316, S114-317, S114-317A, S114-318

ID 12.60, OD 14.00, Length 19.00, Material Copper, Pin w/o



Pkg. 10

### 141138 Bushing

Servicing: S114-439A, S114-441A, S114-441B, S114-461, S114-484

ID 20.20, OD 25.10, Length 10.65, Material Copper, Pin w/o



Pkg. 10

### 141139# Bushing

Servicing: S114-503A, S114-516, S114-517C, S114-519A, S114-520B, S114-525, S114-527, S114-527A, S114-527B

ID 18.21, OD 22.05, Length 7.00, Material Copper, Pin w/o



Pkg. 10

### 141198 Bushing

Servicing: S114-829C, S114-829D, S114-829, S114-829A, S114-829B

ID 12.10, OD 16.03, Length 5.35, Type Standard, Material Copper, Pin w/o



Pkg. 100

### B140310 Bushing

Replacing: 2114-4661, 2114-5661

Servicing: S114-229F, S114-235, S114-801

ID 12.52, OD 16.00, Length 15.00, Material Copper, Pin w/o  
Alternative no.: 140310



Pkg. 100

### B140311 Bushing

Replacing: 2114-1601, 2114-5352, 2114-8661, 2114-9352

Servicing: S114-525A, S114-229F, S114-235, S114-317, S114-653B, S114-345, S114-653, S114-801

ID 12.53, OD 16.05, Length 12.00, Material Copper, Pin w/o  
Alternative no.: 140311



Pkg. 100

### B140313 Bushing

Replacing: 2130-1310, 2130-2601

Servicing: S25-106, S25-121, S12-84, S12-85, S13-41C

ID 14.00, OD 18.00, Length 17.00, Material Copper, Pin w/o  
Alternative no.: 140313



Pkg. 100

### B140314 Bushing

Replacing: 2114-3601, 2114-6601

ID 11.07, OD 15.08, Length 15.00, Material Copper, Pin w/o  
Alternative no.: 140314



Pkg. 100

### B140317 Bushing

Replacing: 2120-4401

Servicing: S12-19KB, S12-84, S12-85, S25-106, S25-121

ID 20.33, OD 26.53, Length 12.40, Material Copper, Pin w/o  
Alternative no.: 140317



Pkg. 100

### B140584 Bushing

ID 12.62, OD 14.00, Length 19.30, Material Copper, Pin w/o

Alternative no.: 140584



Pkg. 100

### B140869 Bushing

ID 18.12, OD 22.10, Length 7.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: 140869



Pkg. 100

### B140870 Bushing

Replacing: 2114-1353

Servicing: S114-801, S114-844A, S114-871, S114-947, S114-947A

ID 12.04, OD 15.56, Length 5.50, Material Copper, Pin w/o  
Alternative no.: 140870



Pkg. 100

### B140927 Bushing

Replacing: 2114-44101

ID 18.11, OD 22.06, Length 6.60, Type Standard, Material Copper, Pin w/o  
Alternative no.: 140927



Pkg. 100



**B140993** Bushing  
ID 6.16, OD 10.00, Length 8.91,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: 140993

Pkg. 100



**B140994** Bushing  
ID 6.84, OD 11.00, Length 8.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: 140994

Pkg. 100



**B140995** Bushing  
Replacing: 2114-9601  
ID 20.12, OD 25.12, Length 9.25,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: 140995

## Bearings

### Ball Bearings

Pkg. 10



**140077 FAG** 6001-2RS1  
Replacing: 1900905141, 2130-2302  
Servicing: S13-38B, S13-45B, S13-49A,  
GSB107-01, GSB107-01A, GSB107-04A,  
GSB107-04C, GSB107-06, GSB107-06E  
ID 12.00, OD 28.00, Height 8.00  
Alternative no.:  
142278 High Performance,  
333101 High Performance



**140078 FAG** 6001-2Z  
Replacing: 2130-5302  
Servicing: S13-60  
ID 12.00, OD 28.00, Height 8.00  
Alternative no.:  
142305 High Performance

Pkg. 10



**140222 FAG** 608-2RS-C3  
Replacing: 2114-15502, 2114-15511, 2114-45511, 2114-55002, 2130-3509, 6082RS1  
Servicing: S114-252F, S114-253B, S114-254C, S114-254D, S114-255A, S114-256B, S114-257, S114-257G, S114-257H  
ID 8.00, OD 22.00, Height 7.00  
Alternative no.:  
333106 High Performance



**140223 FAG** 6004-C-2HRS-C3  
Replacing: 1-0456-60047, 2114-45502, 2114-55502, 2114-55511, 2240-2101, 2240-4101  
Servicing: S114-264, S114-293, S114-480A, S114-481, S13-107, S13-84, S13-89A, S13-91, S114-252F, S114-253B  
ID 20.00, OD 42.00, Height 12.00  
Alternative no.:  
142285 High Performance,  
333105 High Performance



**140225 CAR GO** High Performance  
6903-2RS-P  
Replacing: 2114-25502, 2114-25511, 2114-35511  
Servicing: S114-252F, S114-253B, S114-254C, S114-254D, S114-255A, S114-256B, S114-257, S114-257G, S114-257H  
ID 17.00, OD 30.00, Height 7.00



**140226 CAR GO** High Performance  
6904-2RS-P  
Replacing: 2114-35502, 2114-75502, 2114-95502, 2130-5509  
Servicing: S114-252F, S114-253B, S114-255A, S114-256B, S114-257, S114-257G, S114-257H, S114-258C, S114-264  
ID 20.00, OD 37.00, Height 9.00



**140227 CAR GO** High Performance  
6905-2RS-P  
Replacing: 2130-3302  
Servicing: S13-107A, S13-118, S13-138, S13-138A, S13-33, S13-33A, S13-33B, S13-34A, S13-37, S13-37B, S13-38A  
ID 25.00, OD 42.00, Height 9.00

Pkg. 10



**140272 FAG** 6002-2RS1  
Replacing: 2114-65502, 2130-1509, 60022RS1  
Servicing: S114-430A, S114-430B, S114-430C, S114-431A, S114-431B, S114-431C, S114-432A, S114-439, S114-452  
ID 15.00, OD 32.00, Height 9.00  
Alternative no.:  
142282 High Performance,  
333102 High Performance



**140283 FAG** 6006-2RS1  
Replacing: 2114-85502  
Servicing: S114-507A, S114-516, S114-516A, S114-528, S114-528A  
ID 30.00, OD 55.00, Height 13.00  
Alternative no.:  
142281 High Performance





**140868 CAR GO** High Performance  
6906-2RS1

Replacng: 69062RS1

Servicing: S114-705, S114-700A, S114-701,  
S114-701A, S114-705A, S114-705B, S114-  
705C, S114-705D, S114-827

ID 30.00, OD 47.00, Height 9.00  
6906-2RS1.

Pkg. 10



**333101 CAR GO** High Performance  
6001-2RS/C3

Replacng: 2130-2302

Servicing: S13-41C, S25-135, S25-166

ID 12.00, OD 28.00, Height 8.00

Alternative no.: 140077 **FAG**,

142278 **CAR GO** High Performance

Pkg. 10



**333102 CAR GO** High Performance  
6002-2RS/C3

Replacng: 2114-65502, 2130-1509

ID 15.00, OD 32.00, Height 9.00

Alternative no.: 140272 **FAG**,

142282 **CAR GO** High Performance

Pkg. 10



**333105 CAR GO** High Performance  
6004-2RS1/C3

Replacng: 2114-45502, 2114-55511, 2240-  
2101, 2240-4101

Servicing: S114-254C, S114-338, S114-429,  
S13-130, S13-82, S24-03A, S13-250, S25-505  
ID 20.00, OD 42.00, Height 12.00

Alternative no.: 140223 **FAG**,

142285 **CAR GO** High Performance



Pkg. 10

**333106 CAR GO** High Performance  
608-2RS1

Replacng: 2114-15502, 2114-15511, 2114-  
45511, 2114-55002, 2130-3509

Servicing: S13-213A, S13-322A, S13-327A,  
S13-507C, S13-507D, S13-527C, S13-527D,  
S13-551B, S13-551C, S13-553B

ID 8.00, OD 22.00, Height 7.00

Alternative no.: 140222 **FAG**

### Special Bearings



**140411** B15-83D-2RS-P

Replacng: S930P18402

Servicing: S114-163

ID 15.00, OD 47.00, Height 18.00



**140589** B17-107D-2RS-P

Replacng: B17-107D

Servicing: S114-701A, S114-701B, S114-  
701BR

ID 17.00, OD 47.00, Height 18.00

### Needle Bearings



**140136 FAG** Needle Bearing

Replacng: 23120-Z9013

Servicing: 20SI, 27SI TYPE 200,

ID 17.00, OD 23.80, Height 32.00

Closed end.

Pkg. 5



Pkg. 5

**140457 FAG** Needle Bearing

Replacng: 2130-3451

Servicing: S13-49A

ID 20.00, OD 26.00, Height 12.00

Pkg. 5



**140495 FAG** Needle Bearing

Replacng: 2250-1451

Servicing: S13-33, S13-33A, S13-33B, S13-  
37, S13-37B, S13-38B, S13-41, S13-41A,  
S13-45A, S13-45B, S13-68

ID 15.00, OD 21.00, Height 12.00

Pkg. 5



**140619 5★** Needle Bearing

Replacng: HK0609

Servicing: S114-526A, S114-806A, S114-516,  
S114-516A, S114-520A, S114-520B, S114-535,  
S114-806, S114-844

ID 6.00, OD 10.00, Height 9.00

Pkg. 10



**140767** Needle Bearing

Replacng: 949105-0100

Servicing: S114-557A, S114-556, S114-556A,  
S114-557, S114-907, S114-907A

ID 11.00, OD 15.50, Height 14.30

Closed end.



Pkg. 5



### 140972 FAG Needle Bearing

Replating: 2114-1411

ID 22.00, OD 28.00, Height 16.00

## Sundry Parts

### Thru Bolts

Pkg. 20



### 191584 Through Bolt

Replating: 2114-58005

Servicing: S114-254C, S114-254D, S114-255A, S114-257G, S114-257H, S114-264, S114-320, S114-338, S114-338A

Thread M5, Length 125.00, Thread length 60.00, Head type Cheese head, Colour Black, Coating Electro galvanized, Material Steel

## O-rings

Pkg. 10



### 134485 O-ring

Servicing: S13-289, S13-289A, S13-302, S13-302A, S13-302B, S13-331, S13-531

ID 4.00, Thickness 2.00, Colour Black

## Various

Pkg. 10



### 134231 DP Washer

ID 22.00, OD 42.00, OD/collar 30.40, Height/collar 2.00, Thickness 3.00, Material Steel, Bushing w/

Pkg. 10



### 134232 DP Washer

ID 22.55, OD 41.85, Thickness 0.60, Bushing w/o

Pkg. 10



### 135188 Cap

Replating: 2130-2509

Servicing: S13-106A, S13-106B, S13-106C, S13-106E, S13-107, S13-107A, S13-111, S13-112, S13-113, S13-114

ID 22.10, OD 23.20, Height 9.50



### 135478 Washer Kit

Replating: 2114-8110

Servicing: D/D TYPES, S108-63, S108-89, S114-146, S114-160F, S114-161F, S114-162D, S114-164, S114-170E, S114-172E

ID 12.85, OD 27.50, Thickness 2.00/0.30, Material Steel

Pkg. 10



### 135492 Connection

Servicing: S114-569A, S114-801, S114-519A, S114-520A, S114-520B, S114-525A, S114-528, S114-528A, S114-530

Pkg. 10



### 135522 Washer

ID 19.50, OD 33.00, Thickness 0.50, Material Fiber, Bushing w/o

Pkg. 10



### 135876 Screw

Replating: 2003429058

Servicing: S12-63, S12-68, S12-68B

Thread M10, Total length 17.90, Thread length 14.00, Slot type Torx, Countersink No, Shaft w/, Washer w/o



### 137301 Bearing Plate

Replating: 2130-4615, 2130-5615

Servicing: S13-104, S13-106A, S13-106B, S13-106C, S13-106E, S13-111, S13-112, S13-114, S13-117, S13-117A

ID 38.00, OD 75.20, Thickness 16.50, No./mount. holes 3, Material Steel, Gasket w/o

Pkg. 5



### 137306 Rubber Boot

Replating: 2114-2742

Servicing: S108-91, S114-225, S114-228, S114-230, S114-230A, S114-235A, S114-257G, S114-312, S114-322A

ID 22.35, OD 25.15, Length 28.50





Pkg. 10

### 139207 Washer

ID 22.00, OD 40.00, OD/collar 30.45,  
Height/collar 2.65, Thickness 3.00,  
Material Steel, Bushing w/



Pkg. 10

### 139208 Clutch Washer

ID 22.85, OD 39.25, Thickness 0.50,  
Material Steel, Bushing w/o



### 139664 Washer Kit

Replacing: 2114-39505

Servicing: S114-800, S114-800A, S114-800B,  
S114-800C, S114-801, S114-801A, S114-801B,  
S114-801C, S114-801D



### 231286 Bearing Plate

Replacing: 2240-3615

Servicing: S24-03B, S24-03C, S24-13, S25-  
161, S24-03A

ID 46.60, OD 92.00/70.00/52.20,  
Thickness 17.20, No./mount. holes 3,  
Material Steel, Gasket w/o



### 238659 Wire clip

Servicing: S114-750, S114-766A, S114-767,  
S114-769A, S114-800, S114-800A, S114-800B,  
S114-802A

Length 43.20, Thickness 20.00,  
Width 53.30, Material Steel,  
Self adhesive No



### 330153 Gasket

Servicing: S114-922A, S114-955, S114-902,  
S114-902A, S114-922

Length 210.00, Thickness 7.88,  
Width 7.73, Type Starter



## Armatures

### 12 V



#### 130319 Armature

Replacing: 16.360.326

12 Volt, 3.0 kW, Bar dist. 2.30, Bar cross dist. 46.20, Shaft dia. 18.85, Shaft length 333.00, Bar length 10.50, Height/bar 7.65, Height/bar lane 30.30, Core thickness 75.00, No./bars 33, No./splines 10, Rotation CW  
9 V: HC-CARGO 133515.



#### 131075 Armature

Replacing: 16.360.325

12 Volt, 3.0 kW, Bar dist. 3.50, Bar cross dist. 45.90, Shaft dia. 18.85, Shaft length 337.00, Bar length 10.55, Height/bar 5.85, Height/bar lane 29.30, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW  
9 V: HC-CARGO 134285.



#### 138212 Armature

Replacing: 16.360.402, MSX751

Servicing: 11.130.179, 11.130.201, 11.130.254, 11.130.366, 11.130.402, 11.130.403, 11.130.408, 11.130.409  
12 Volt, 3.0 kW, Shaft dia. 18.90, Shaft length 335.15, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW



#### 138260 Armature

Replacing: 16.360.198, MX134

Servicing: 11.130.026, 11.130.074, 11.130.076, 11.130.127, 11.130.140, 11.130.190, 11.130.194, 11.130.198  
12 Volt, 3.0 kW, Shaft dia. 19.00, Shaft length 335.00, Core thickness 74.80, No./bars 21, No./splines 10, Rotation CW



#### 138670 Armature

Replacing: 16.360.277, MSX206

Servicing: 11.130.117, 11.130.119, 11.130.123, 11.130.203, 11.130.222, 11.130.247, 11.130.250, 11.130.309  
12 Volt, 2.4/2.7 kW, Bar dist. 3.45, Bar cross dist. 42.55, Shaft dia. 18.95, Shaft length 292.50, Bar length 10.50, Height/bar 6.60, Height/bar lane 23.00, Core thickness 75.00, No./bars 21, No./splines 10, Rotation CW



#### 333777 Armature

Replacing: 16.907.753, MSX1366, MSX1366KIT

Servicing: 11.131.063, 11.131.108, 11.131.116, 11.131.221, 11.131.279, 11.131.315, 11.131.426, 11.131.605  
12 Volt, 3.0 kW, Shaft length 148.50, Height/bar lane 27.00, Core thickness 60.00, No./bars 23, No./teeth 10



#### 335688 Armature

Replacing: 16.915.044

Servicing: AZF4576  
12 Volt, Shaft length 176.00, Height/bar lane 30.50, Core thickness 62.50, No./bars 23, No./teeth 15



#### 335696 Armature

Replacing: 16.915.127

Servicing: AZF4194  
12 Volt, 4.0 kW, Shaft length 176.00, Height/bar lane 30.50, Core thickness 62.50, No./bars 23, No./teeth 15

### 24 V



#### 130119 Armature

Replacing: 16.360.322

24 Volt, 4.0 kW, Bar dist. 2.30, Bar cross dist. 46.20, Shaft dia. 18.75, Shaft length 333.00, Bar length 10.50, Height/bar 7.65, Height/bar lane 30.30, Core thickness 75.00, No./bars 33, No./splines 10, Rotation CW



#### 130120 Armature

Replacing: 16.360.333

Servicing: 11.130.041, 11.139.013, 11.139.025, 11.139.029, 11.139.506, AZK5173, AZK5184, AZK5188, AZK5401  
24 Volt, 5.0 kW, Bar dist. 3.00, Bar cross dist. 53.20, Shaft length 235.00, Bar length 11.60, Height/bar 7.15, Height/bar lane 42.15, Core thickness 83.00, No./bars 29  
Clutch housing: HC-CARGO 231369.



#### 130320 Armature

Replacing: 16.360.068

24 Volt, 5.5 kW, Bar dist. 3.00, Bar cross dist. 53.20, Shaft length 270.00, Bar length 11.60, Height/bar 7.15, Height/bar lane 42.15, Core thickness 83.00, No./bars 25, Rotation CW  
Clutch housing: HC-CARGO 231369.



#### 131116 Armature

Replacing: 16.360.576

24 Volt, 4.8 kW, Bar dist. 2.60, Bar cross dist. 44.80, Shaft dia. 18.80, Shaft length 366.00, Bar length 9.25, Height/bar 6.90, Height/bar lane 30.95, Core thickness 75.00, No./bars 27, No./splines 10, Rotation CW





### 131309 Armature

Replacing: 16.360.324

24 Volt, 4.0 kW, Bar dist. 2.30,  
Bar cross dist. 46.20, Shaft dia. 18.88,  
Shaft length 337.00, Bar length 10.50,  
Height/bar 7.65, Height/bar lane 30.30,  
Core thickness 75.00, No./bars 33,  
No./splines 10, Rotation CW  
18 V: HC-CARGO 137287.



### 131311 5★ Armature

Manufacturer: Remy

Replacing: 16.360.539

Servicing: 11.139.030, 11.139.032,  
11.139.107, AZK5189, AZK5191, AZK5456

24 Volt, 6.6 kW, Bar dist. 3.00,  
Bar cross dist. 53.20,  
Shaft length 256.00, Bar length 11.60,  
Height/bar 7.15, Height/bar lane 42.15,  
Core thickness 83.00, No./bars 29,  
Rotation CW  
Clutch housing: HC-CARGO 231369.

## Field Coils

### 12 V



### 130128 5★ Field Coil

Manufacturer: Bosch

Replacing: 16.905.391

12 Volt, 3.0 kW, Lead length 25.33,  
Height 133.50, Width 275.60,  
Internal height 85.60, Inner width 32.50,  
Brush gear w/o



### 130325 Field Coil

Replacing: 18.500.803, 18.500.806

Servicing: 10.130.141, 10.130.142,  
10.130.207, 11.130.009

12 Volt, 3.0 kW, Height 116.00,  
Internal height 71.25, Inner width 28.65,  
Brush gear w/o



### 131134 5★ Field Coil

Manufacturer: Bosch

Replacing: 16.905.386

12 Volt, 3.0 kW, Lead length 125.60,  
Height 128.30, Internal height 87.00,  
Inner width 32.25, Brush gear w/o

### 24 V



### 130322 Field Coil

Replacing: 18.500.807

Servicing: 10.130.121, 10.130.123,  
10.130.125, 11.130.005, 11.130.115,  
11.130.606

24 Volt, 4.0 kW, Height 114.15,  
Internal height 72.25, Inner width 28.40,  
Brush gear w/o



### 131074 Field Coil

Replacing: 16.905.621

24 Volt, 4.0 kW, Lead length 75.00,  
Height 127.60, Internal height 86.75,  
Inner width 33.30, Brush gear w/o

## Solenoids

### 12 V



### 335689 Solenoid

Replacing: 16.915.354

Servicing: AZF4576

12 Volt, B+ M10, OD 61.00,  
Total length 164.00, Height/B+ 31.00,  
Terminal 30H M10, Terminal 50 6.30,  
No./mount. holes 3, No./terminals 3,  
Fork lever w/o



### 130281 Solenoid

Replacing: 16.670.127

12 Volt, B+ Cable, OD 85.90,  
Total length 93.80, No./mount. holes 2



### 130302 Solenoid

Replacing: 16.908.491, MSX37, MSX37KIT

Servicing: 11.130.793, 11.130.794,  
11.131.092, AZF4522

12 Volt, B+ M10, ID/cover 29.60,  
ID/eye 5.60, OD 61.00, OD/cover 53.45,  
Length 82.85, Total length 164.30,  
Height/B+ 23.00, Terminal 30H M10,  
Terminal 30H/width 16.00,  
Terminal 50 M4S, Coil bolt M10,  
Coil bolt 2 17.00, No./mount. holes 3,  
No./terminals 3, Bracket type Bracket,  
Fork lever w/  
Cap: HC-CARGO 131317.  
Alternative no.: 130302Z





### 130806 Solenoid

Replacing: 16.670.124

12 Volt, B+ M10, ID/cover 30.45, OD 61.20, OD/cover 53.50, Length 82.50, Total length 162.65, Height/B+ 21.85, Terminal 50 M4, Coil bolt M10, Coil bolt 2 15.15, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131318.



### 131370 Solenoid

Replacing: 11.250.121, 11.250.142, ARD1133

12 Volt, 80 Amp, Intermittent load 500 Amp., B+ M8, OD 52.10, OD/cover 45.20, Total length 101.75, Height/B+ 17.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 17.50, Seconds 5, No./terminals 4

Water proof. Silver contact. Insulated return.



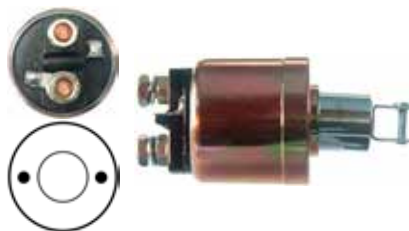
### 131786 Solenoid

Replacing: MSX176, MSX176KIT

Servicing: 2M113, M45G, 11.130.520, 11.130.579, 11.130.624, 11.130.711, AZJ3148, AZJ3182, AZJ3198, AZJ3248

12 Volt, B+ M8, ID/cover 26.40, OD 53.65, OD/cover 60.25, Length 93.65, Total length 179.85, Height/B+ 19.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.25, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 131015.



### 134042 Solenoid

Replacing: 16.905.402, 16.905.423, 16.905.524, 16.905.810, 16.907.055, MSX361, MSX361KIT

Servicing: 11.130.166, 11.130.233, 11.130.234, 11.130.244, 11.130.245, 11.130.292, 11.130.293, 11.130.321

12 Volt, B+ M8, ID/cover 25.25, OD 56.00, OD/cover 47.10, Length 49.95, Total length 121.80, Height/B+ 14.70, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.45, No./mount. holes 2, No./terminals 3



### 139522 ★ Solenoid

Manufacturer: Mahle Letrika

Replacing: 16.905.754, 16.906.542, 16.906.642, MSX174, MSX174KIT, MSX390, MSX390KIT

Servicing: 11.130.123, 11.130.179, 11.130.203, 11.130.322

12 Volt, B+ M10, OD 61.00, OD/cover 53.85, Total length 171.20, Height/B+ 24.00, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 18.20, No./mount. holes 3, No./terminals 3



### 139634 Solenoid

Replacing: 16.905.143, 16.905.244, 16.906.015, MSX774, MSX774KIT

Servicing: 11.130.019, 11.130.026, 11.130.083, 11.130.117, 11.130.201, 11.130.247, 11.130.248, 11.130.250

12 Volt, B+ M10, ID/cover 30.00, OD 60.90, OD/cover 53.75, Length 82.90, Total length 152.65, Height/B+ 23.00, Coil bolt M10, Coil bolt 2 17.90, No./mount. holes 3, No./terminals 3, Fork lever w/



### 230853 ★ Solenoid

Manufacturer: Mahle Letrika

Replacing: 16.905.240, 16.908.097, MSX1217, MSX1217KIT

Servicing: 11.130.127, 11.130.140, 11.130.198, 11.130.199, 11.130.251, 11.130.366, 11.130.409, 11.130.436

12 Volt, B+ M10, OD 61.00, OD/cover 53.80, Total length 168.45, Height/B+ 23.50, Coil bolt M10, Coil bolt 2 19.00, No./mount. holes 3, No./terminals 3



### 233765 ★ Solenoid

Manufacturer: Mahle Letrika

Replacing: 16.906.819

Servicing: 11.130.432, 11.130.619, 11.130.732, 11.130.838, 11.130.839, AZJ3123, AZJ3196, AZJ3255, AZJ3291

12 Volt, B+ M10, ID/cover 30.00, OD 61.00, OD/cover 53.80, Length 83.30, Total length 153.00, Height/B+ 23.25, Coil bolt M10, Coil bolt 2 18.90, No./mount. holes 3, No./terminals 3



### 234943 ★ Solenoid

Manufacturer: Mahle Letrika

Replacing: 16.906.653, MSX27, MSX27KIT

Servicing: 11.130.558, 11.130.647, 11.130.651, AZE2507, AZE2523, AZE2525

12 Volt, B+ M8, ID/cover 26.40, ID/eye 11.37, OD 54.30, OD/cover 47.80, Length 48.07, Total length 109.40, Height/B+ 22.15, Terminal 50 M6, Coil bolt M8, Coil bolt 2 11.31, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o





### 235093 Solenoid

Manufacturer: Mahle Letrika

Replacing: 16.908.624, MSX455, MSX455KIT

Servicing: 11.131.052, 11.131.136, 11.131.157, 11.131.164, 11.131.186, 11.131.233, 11.131.255, 11.131.530

12 Volt, B+ M8, OD 54.05, Length 48.25, Total length 102.93, Height/B+ 14.83, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.00, No./mount. holes 2, No./terminals 3, Fork lever w/o



### 333742 Solenoid

Replacing: 11.250.147

24 Volt, 150 Amp, B+ M8, OD 54.50, OD/cover 47.50, Total length 82.00, Height/B+ 17.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 17.50, No./mount. holes 2, No./terminals 4, Bracket type Crimp Insulated return



### 335047 Solenoid

Replacing: 16.915.546, MSX924, MSX924KIT

Servicing: 11.131.605, 11.131.606, 11.131.716, 11.131.761, 11.131.780, 11.131.781, 11.131.793, 11.131.932

12 Volt, B+ M10, ID/eye 6.00, OD 61.00, OD/cover 53.90, Length 80.30, Total length 162.50, Height/B+ 25.00, Terminal 50 M6, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335109 Solenoid

Replacing: 16.915.125, MSX1411, MSX1411KIT

Servicing: 11.130.841, 11.131.754, 11.131.769, AZF4194, AZF4197, AZF4514, 11.132.114

12 Volt, 4.0 kW, B+ M10, OD 61.00, Height/B+ 23.00, Terminal 30H M10, Terminal 50 6.30, No./terminals 3, Fork lever w/o



### 335392 Solenoid

Replacing: 16907772

12 Volt, B+ M10, OD 61.25, OD/cover 53.30, Total length 165.00, Height/B+ M10, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 31.00, No./mount. holes 3, No./terminals 3



### 335393 Solenoid

Replacing: 16909296

12 Volt, B+ M8, ID/eye 10.00, OD 51.50, Total length 131.00, Terminal 30H M8, Terminal 30H/width 17.00, Terminal 50 M6, No./terminals 3

### 24 V



### 130282 Solenoid

Replacing: 16.670.073

Servicing: 11.139.030, AZK5189

24 Volt, B+ Cable, OD 69.30, Total length 91.20, No./mount. holes 2, Fork lever w/o



### 130303 Solenoid

Replacing: 16.905.395

24 Volt, B+ M10, ID/cover 30.00, ID/eye 5.60, OD 60.90, OD/cover 53.35, Length 82.70, Total length 173.00, Height/B+ 23.95, Terminal 30H M10, Terminal 30H/width 16.75, Terminal 50 M6S, Coil bolt M10, Coil bolt 2 18.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/

Cap: HC-CARGO 133447.

Alternative no.: 130303Z, 333138, 333664



### 130303Z Solenoid

Replacing: 16.905.395

24 Volt, B+ M10, ID/cover 30.00, OD 60.90, OD/cover 53.35, Total length 173.00, Height/B+ 23.95, Terminal 30H M10, Terminal 30H/width 16.75, Terminal 50 M6S, Coil bolt M10, Coil bolt 2 18.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket Cap: HC-CARGO 133447.

Alternative no.: 130303




### 130304 Solenoid

Replacing: 16.150.010

Servicing: 11.130.041, 11.139.013, 11.139.025, 11.139.029, 11.139.030, 11.139.032, 11.139.506, AZK5173

24 Volt, B+ Cable, OD 95.25, Total length 93.30, No./mount. holes 2, Fork lever w/o

Alternative no.: 333155 





### 131053 Solenoid

Replacing: 16.670.119

24 Volt, B+ M10, ID/cover 30.00, OD 60.90, OD/cover 53.15, Length 93.45, Total length 182.30, Height/B+ 23.30, Coil bolt M10, Coil bolt 2 16.30, No./mount. holes 3, No./terminals 3, Fork lever w/o Cap: HC-CARGO 131318. Rubber boot: HC-CARGO 135576.



### 133554 Solenoid

Replacing: 16.670.012

Servicing: 11.130.041, 11.139.013, 11.139.025, 11.139.029, 11.139.032, 11.139.506, AZK5173, AZK5184, AZK5188 24 Volt, OD 69.30, Total length 91.90, No./mount. holes 2



### 139988 Solenoid

Manufacturer: Mahle Letrika

Replacing: 16.905.159, MSX357, MSX357KIT

Servicing: 11.130.141, 11.130.364, 11.130.491, 11.130.645, 11.130.676, AZJ3132, AZJ3211, AZJ3223, AZJ3593

24 Volt, B+ M10, ID/cover 30.00, OD 60.85, OD/cover 53.75, Length 83.40, Total length 147.20, Height/B+ 18.20, Coil bolt M10, Coil bolt 2 17.25, No./mount. holes 3, No./terminals 3



### 234985 Solenoid

Manufacturer: Mahle Letrika

Replacing: 16.905.764, MSX1370, MSX1370KIT

Servicing: 11.130.146, 11.130.216, 11.130.225, 11.130.492, 11.130.598, 11.130.687, 11.130.861, AZJ3133

24 Volt, B+ M10, ID/cover 46.65, OD 60.97, OD/cover 58.64, Length 83.34, Total length 155.00, Switch dim. 10.41, Height/B+ 14.82, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 10.51, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 333155 Solenoid

Manufacturer: Bosch

Replacing: 16.150.010

24 Volt, B+ Cable, OD 95.25, Total length 93.30, No./mount. holes 2 Alternative no.: 130304



### 333664 Solenoid

Replacing: 16.905.395

24 Volt, B+ M10, ID/eye 5.50, OD 60.00, OD/cover 53.30, Length 83.00, Total length 173.00, Height/B+ 18.40, Terminal 50 M6, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o

Alternative no.: 130303, 130303Z, 333138



### 333669 Solenoid

Manufacturer: Mahle Letrika

Replacing: 11.250.187, 72741372, MX39

24 Volt, 300 Amp, B+ M8, OD 61.20, OD/cover 54.25, Total length 113.75, Terminal 50 6.30, Coil bolt M8, No./mount. holes 2, No./terminals 4, Bracket type Crimp

## Solenoid Parts

### Solenoid Caps



### 133890 Solenoid Cap

Servicing: 11.130.007, 11.130.102, 11.130.166, 11.130.233, 11.130.244, 11.130.338, 11.130.392, 11.130.417 ID 41.60, OD 51.90, Coil bolt M8, Coil bolt 2 15.40, No./terminals 3, Bracket type Crimp HC-CARGO 134042.



### 133892 Solenoid Cap

Servicing: 11.130.208, 11.130.328, 11.130.346, 11.130.398, 11.130.582, 11.130.646, 11.130.790, 11.130.956 ID 41.60, OD 52.50, Coil bolt M8, Coil bolt 2 15.00, No./terminals 3, Bracket type Crimp

## Drives



### 130414 Drive

Replacing: 16.900.920

Servicing: 11.130.300, 11.130.399, 11.130.726, 11.130.885, 11.130.886, AZJ3107, AZJ3252, AZJ3311, AZJ3312 ID 12.00, OD 25.80, OD/housing 58.00, OD/teeth 25.80, Total length 71.50, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o Alternative no.: 130414zz, 333516





### 130414ZZ Drive

Replacing: 16.900.920

ID 12.00, OD 25.20, OD/housing 54.15, OD/teeth 25.20, Total length 70.95, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 130414



### 130417 Drive

Replacing: 16.909.070, 18.100.023, 18.100.098, MX337

Servicing: 10.130.121, 10.130.123, 10.130.142, 10.130.172, 10.130.181, 10.130.207, 11.130.005, 11.130.009

ID 14.70, OD 34.70, OD/housing 35.00, Total length 120.00, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130418 Drive

Replacing: 15.100.152, 16.909.002, MSX338

Servicing: 11.139.002, 11.139.003, 11.139.006, 11.139.010, 11.139.011, 11.139.012, 11.139.013, 11.139.014

ID 10.15, OD 41.00, OD/teeth 41.00, Total length 61.00, Shaft length 39.65, No./teeth 11, Key spline w/o, Lock w/o



### 130419 Drive

Replacing: 15.100.092

ID 10.15, OD 34.30, Total length 61.10, Shaft length 40.30, No./teeth 9, Rotation CW, Key spline w/, Lock w/o  
Alternative no.: 130419Z



### 130419Z Drive

Replacing: 15.100.092

ID 14.00, OD 34.80, Total length 61.10, Shaft length 40.10, No./teeth 9, Rotation CW, Key spline w/, Lock w/o  
Alternative no.: 130419



### 130722 Drive

Replacing: 18.100.104

Servicing: 10.130.141, 10.130.146, 11.130.320, AZK5111

ID 14.70, OD 39.00, Total length 120.00, Splines A 3, No./teeth 10, Drive type Steel, Key spline w/o, Lock w/o



### 130740 Drive

Replacing: 16.900.038

ID 11.50, OD 25.30, OD/housing 41.30, Total length 65.00, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 131167 Drive

Replacing: 15.100.154

ID 10.10, OD 42.50, Total length 61.00, Shaft length 40.00, No./teeth 11, Rotation CW, Key spline w/, Lock w/o



### 131267 Drive

Replacing: 16.903.130

ID 14.00, OD 34.80, OD/housing 60.14, Total length 91.00, Splines A 10, Lock w/, No./teeth 9, Rotation CW, Key spline w/o



### 131714 Drive

Replacing: 18.100.021

Servicing: 11.130.158

ID 14.60, OD 41.00, Total length 120.00, Shaft length 98.00, Splines A 3, No./teeth 11, Key spline w/o, Lock w/o



### 132075 Drive

Replacing: 18.900.179

ID 14.00, OD 29.00, OD/housing 46.20, Total length 70.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132273 Drive

Replacing: 16.900.935

ID 14.30, OD 34.20, OD/housing 60.00, Total length 91.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o

Alternative no.: 333227



### 132764 Drive

Replacing: 16.900.089

Servicing: 11.130.029, 11.130.102, 11.130.162, 11.130.166, 11.130.209, 11.130.217, 11.130.218, 11.130.219

ID 11.60, OD 25.15, OD/housing 45.65, Total length 65.00, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o





**132906** Drive  
 Replacing: 11.900.057, 16.900.057  
 Servicing: 11.130.007, AZE0305  
 ID 11.55, OD 29.25, OD/housing 45.00,  
 Total length 65.00, No./teeth 9,  
 Rotation CCW, Key spline w/o, Lock w/o



**133860** Drive  
 Replacing: 16.900.392, 16.900.408,  
 16.900.541, 16.900.922, 16.901.392,  
 16.901.408, 922H6  
 Servicing: 11.130.193, 11.130.210,  
 11.130.224, 11.130.233, 11.130.244,  
 11.130.291, 11.130.338, 11.130.346  
 ID 12.00, OD 25.25, OD/housing 47.00,  
 Total length 56.40, Splines A 12, Lock w/o,  
 No./teeth 9, Rotation CW, Key spline w/o



**136969** Drive  
 Replacing: 16.900.254, 16.900.879, 16.903.087  
 Servicing: 11.130.117, 11.130.123,  
 11.130.146, 11.130.203, 11.130.216,  
 11.130.247  
 ID 14.40, OD 34.60, OD/housing 60.00,  
 Total length 76.50, Splines A 10,  
 No./teeth 9, Rotation CW,  
 Key spline w/o, Lock w/o



**137281Z** Drive  
 Replacing: 16.900.117, 16.900.284  
 ID 14.35, OD 34.50,  
 OD/housing 60.30, OD/teeth 34.50,  
 Total length 82.60, Splines A 10,  
 No./teeth 9, Drive type Steel,  
 Rotation CW, Key spline w/o, Lock w/o



**138866** Drive  
 Replacing: 16.901.658  
 Servicing: 11.130.010, 11.130.229,  
 11.130.254, 11.130.364, 11.130.407,  
 11.130.409, 11.130.412, 11.130.484  
 ID 14.30, OD 34.30, OD/housing 60.00,  
 Total length 83.00, Splines A 10, Lock w/o,  
 No./teeth 9, Rotation CW, Key spline w/o



**139519#** Drive  
 Manufacturer: Mahle Letrika  
 Replacing: 16.901.512  
 Servicing: 11.130.328, 11.130.398,  
 11.130.529, 11.130.556, 11.130.965,  
 AZE1502, AZE1507, AZE1521, AZE1523  
 ID 12.00, OD 25.25, OD/housing 48.60,  
 Total length 56.40, Splines A 12, Lock w/o,  
 No./teeth 9, Rotation CW, Key spline w/o



**139520** Drive  
 Replacing: 16.901.694  
 Servicing: 11.130.386, 11.130.419,  
 11.130.509, 11.130.520, 11.130.526,  
 11.130.527, 11.130.579, 11.130.624  
 ID 14.28, OD 39.35, OD/housing 62.20,  
 Total length 76.75, No./teeth 10,  
 Rotation CW, Key spline w/o, Lock w/o



**139521** Drive  
 Replacing: 16.903.166  
 Servicing: 11.130.534, 11.130.553,  
 11.130.569, 11.130.662, 11.130.665,  
 11.130.694, 11.130.750, 11.130.762  
 ID 14.30, OD 31.80, OD/housing 60.30,  
 Total length 81.45, Splines A 10, Lock w/o,  
 No./teeth 10, Rotation CW, Key spline w/o



**230280** Drive  
 Replacing: 16.901.752  
 Servicing: 11.130.179, 11.130.201,  
 11.130.376, 11.130.414, 11.130.595,  
 11.130.626, 11.130.686, 11.130.692  
 ID 14.30, OD 40.50, OD/housing 62.00,  
 Total length 82.50, Splines A 10, Lock w/o,  
 No./teeth 11, Rotation CW, Key spline w/o



**231623** Drive  
 Replacing: 16.902.733, 16.904.847  
 Servicing: 11.130.692, 11.130.710,  
 11.130.810, 11.130.897, 11.131.249,  
 AZJ3247, AZJ3405, AZJ3319  
 ID 14.35, OD 39.50, OD/housing 60.00,  
 Total length 82.30, Splines A 10, Lock w/o,  
 No./teeth 10, Rotation CW, Key spline w/o



**232482** Drive  
 Replacing: 16.901.722  
 Servicing: 11.130.251, 11.130.402,  
 AZJ3109, AZJ3555, ISO402  
 ID 14.25, OD 34.00, OD/housing 60.00,  
 Total length 80.00, Splines A 10, Lock w/o,  
 No./teeth 9, Rotation CW, Key spline w/o



**233764** Drive  
 Manufacturer: Mahle Letrika  
 Replacing: 16.903.095  
 Servicing: 11.130.525, 11.130.535,  
 11.130.707, 11.130.732, 11.131.029,  
 AZJ3150, AZJ3159, AZJ3245, AZJ3255  
 ID 14.25, OD 34.00, OD/housing 62.00,  
 Total length 76.45, Splines A 10, Lock w/o,  
 No./teeth 9, Rotation CCW, Key spline w/o





### 234268 Drive

Replacing: 16.900.880

Servicing: 11.130.083, 11.130.250, 11.130.309, 11.130.521, 11.130.554, 11.130.630, 11.130.682, 11.130.838

ID 14.30, OD 40.75, OD/housing 60.25, Total length 75.40, Splines A 10, Lock w/o, No./teeth 11, Rotation CW, Key spline w/o



### 234270 Drive

Replacing: 16.903.392

Servicing: 11.130.537, 11.130.783, 11.130.784, 11.131.143, AZJ3160, AZJ3281, AZJ3282

ID 14.30, OD 37.85, OD/housing 60.50, Total length 81.40, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 234984 Drive

Replacing: 16.901.751, 16.902.004, 16.902.816, 16.902.816

Servicing: 11.130.408, 11.130.596, 11.130.598, 11.130.605, 11.130.663, 11.130.678, 11.130.703, 11.130.731

ID 14.00, OD 39.44, OD/housing 62.12, Total length 82.88, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 235092 Drive

Replacing: 16.902.152

Servicing: 11.131.186, 11.131.530, AZE1230, ID 12.00, OD 28.08, OD/housing 51.07, Total length 56.50, Splines A 12, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o



### 235621 Drive

Replacing: 16.900.151

Servicing: 11.130.076, 11.130.200, 11.130.373, 11.130.411, 11.130.629, AZJ0405, AZJ3144, AZJ3117, AZJ3203

ID 14.30, OD 39.45, OD/housing 59.70, Total length 85.00, Splines A 10, Lock w/o, No./teeth 10, Rotation CW, Key spline w/o



### 235828 5★ Drive

Manufacturer: Mahle Letrika

Replacing: 16.902.098

Servicing: 11.130.676, AZJ3223

ID 14.00, OD 36.80, OD/housing 62.00, OD/teeth 36.80, Total length 82.00, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW



### 235850 Drive

Replacing: 16.901.657

Servicing: 11.130.124, 11.130.366, 11.130.403, 11.130.490, 11.130.492, AZJ3110, AZJ3131, AZJ3133, AZJ3517

ID 14.30, OD 34.60, OD/housing 60.30, Total length 81.50, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW



### 333227 5★ Drive

Manufacturer: Bosch

Replacing: 16.900.935

ID 14.30, OD 34.20, OD/housing 60.00, OD/teeth 34.20, Total length 91.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o, Alternative no.: 132273



### 333516 5★ Drive

Manufacturer: Bosch

Replacing: 16.900.920

ID 12.00, OD 25.35, OD/housing 57.40, Total length 72.00, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o, Alternative no.: 130414zz, 130414



### 333674 Drive

Replacing: 16.902.379

Servicing: 11.130.679, 11.130.685, 11.130.904, 11.131.027, 11.131.059, 11.131.060, 11.131.092, 11.131.145

ID 14.20, OD 39.50, OD/housing 60.25, OD/teeth 39.50, Total length 82.00, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW



### 333679 Drive

Replacing: 16.911.403

Servicing: 11.132.051, 11.132.173, AZE4222

ID 14.26, OD 34.80, OD/housing 60.40, OD/teeth 34.80, Total length 75.90, No./teeth 9, Drive type Steel, Rotation CW



### 333680 Drive

Replacing: 16.907.455

Servicing: 11.131.116, 11.131.515, 11.131.773, AZE4122, AZE4171, AZE4540

ID 14.26, OD 40.00, OD/housing 60.00, OD/teeth 40.00, Total length 85.60, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o





**333681** Drive  
 Replacing: 16.904.776  
 Servicing: 11.130.836, 11.131.542, 11.131.602, 11.131.727, 11.132.183, 11.132.356, 11.132.359, AZF4154  
 ID 14.26, OD 41.00, OD/housing 60.20, OD/teeth 40.60, Total length 81.80, Splines A 10, No./teeth 11, Lock w/o, Drive type Steel, Rotation CW, Key spline w/o



**333682** Drive  
 Replacing: 16.902.507, 16.907.197  
 Servicing: 11.131.112, 11.131.279, 11.131.315, 11.131.605, 11.131.606, 11.131.696, 11.131.716, 11.131.761  
 ID 14.25, OD 39.10, OD/housing 60.40, Total length 75.85, No./teeth 10, Lock w/o, Drive type Steel, Rotation CW, Key spline w/o



**333683** Drive  
 Manufacturer: Mahle Letrika  
 Replacing: 16.902.653, MSX149  
 Servicing: 11.131.108, 11.131.751, 11.131.833, 11.132.084, 11.132.227, AZE4169, AZE4185, AZE4228, AZE4261  
 ID 14.00, OD 32.00, OD/housing 62.00, OD/teeth 32.00, Total length 75.90, No./teeth 10, Drive type Steel, Rotation CW



**333756** Drive  
 Replacing: 16.902.835, 333756  
 Servicing: 11.131.271, 11.132.094, 11.132.260, AZF4295, AZF4346, AZF4591, 11.130.944, 11.131.357, 11.131.399  
 ID 14.25, OD 39.30, OD/housing 62.30, Total length 82.00, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW



**333902** Drive  
 Replacing: 16.911.538  
 Servicing: 11.131.458, 11.131.948, 11.131.950, IS1231  
 ID 12.00, OD 34.20, OD/housing 57.80, OD/teeth 34.20, Total length 64.90, No./teeth 9, Drive type Steel, Rotation CW



**333908** Drive  
 Replacing: 11.902.808, 16.902.808  
 Servicing: 11.131.109, 11.131.951, AZE4202, AZE4535  
 ID 14.00, OD 35.80, OD/housing 60.50, OD/teeth 35.80, Total length 75.50, No./teeth 11, Drive type Steel, Rotation CW



**333909** Drive  
 Manufacturer: Mahle Letrika  
 Replacing: 16.908.135, 16.908.352, MSX512KIT  
 Servicing: 11.130.923, 11.131.199, 11.131.233, AZE2606, 11.131.528  
 ID 13.00, OD 29.40, OD/housing 53.60, OD/teeth 29.40, Total length 86.10, No./teeth 9, Drive type Steel, Rotation CW



**333910** Drive  
 Replacing: 16.902.036  
 Servicing: 11.131.117, 11.131.411, 11.131.491, 11.131.830, 11.131.839, AZF4611, AZF4643, AZF4687  
 ID 19.00, OD 39.30, OD/housing 62.30, Total length 136.50, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW



**333911** Drive  
 Replacing: 16.904.894  
 Servicing: 11.130.730, 11.131.085, 11.131.236, 11.132.106, 11.132.189, AZF4327  
 ID 14.25, OD 40.50, OD/housing 62.30, Total length 82.50, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW



**333989** Drive  
 Replacing: 11.911.910  
 Servicing: AZF4195  
 ID 14.10, OD 34.80, OD/housing 62.20, Total length 82.20, No./teeth 9, Drive type Steel, Rotation CW



**335111** Drive  
 Replacing: 16.911.910  
 ID 14.15, OD 34.40, OD/housing 60.10, Total length 82.30, No./teeth 9, Drive type Steel, Rotation CW



**335379** Drive  
 Replacing: 16.908.746  
 Servicing: 11.131.063, 11.131.221, 11.131.789, AZE4603, AZE4620, AZE4655  
 ID 12.00, OD 31.70, OD/housing 59.00, OD/teeth 31.70, Total length 115.75, No./teeth 10, Drive type Steel, Rotation CW





### 335394 Drive

Replacing: 16.902.382, 16902382

Servicing: 11.131.077, 11.131.300, 11.131.573, 11.131.574, 11.131.575, 11.130.785, 11.130.945, 11.130.999

ID 14.3, OD 39.50, OD/housing 60.50, Total length 82.50, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335572 Drive

Replacing: 16.902.815, MSX656

Servicing: 11.131.223

ID 14.30, OD 35.00, OD/housing 60.70, Total length 76.20, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335611 Drive

Replacing: 16.911.597

ID 12.00, OD 34.50, OD/housing 54.50, OD/teeth 34.50, Total length 64.90, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335612 Drive

Replacing: 16.912.371, MSX1106

ID 14.20, OD 41.00, OD/housing 60.20, Total length 85.00, No./teeth 11, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335622 Drive

Replacing: 16.912.179

ID 14.20, OD 34.60, OD/housing 60.20, Total length 85.00, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335623 Drive

Replacing: 16.903.550

Servicing: 11.130.436, 11.130.676, 11.130.685, AZJ3381

ID 14.20, OD 37.00, OD/housing 60.20, Total length 82.00, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335624 Drive

Replacing: 16.902.621

Servicing: 11.131.848, 11.131.697, IS1105  
ID 14.20, OD 42.00, OD/housing 60.20, Total length 82.00, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335625 Drive

Replacing: 16.904.625, MSX724

Servicing: 11.130.841, 11.130.862

ID 14.28, OD 34.50, OD/housing 60.20, OD/teeth 34.50, Total length 81.50, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 335697 Drive

Servicing: AZF4194, 11.131.754

ID 14.25, OD 34.50, OD/housing 62.00, Total length 82.00, Splines A 6, No./teeth 9, Drive type Steel, Rotation CW



### 335824 Drive

Replacing: 16.912.924

Servicing: 11.131.995

ID 14.20, OD 42.00, OD/housing 60.20, Total length 81.50, Splines A 10, No./teeth 11, Rotation CW



### 335827 Drive

Replacing: 16.908.807

Servicing: 11.131.374

ID 14.20, OD 31.80, OD/housing 60.30, OD/teeth 31.80, Total length 81.50, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o

## Drive Parts

## Springs

Pkg. 500



### 134219 Spring

ID 4.00, OD 5.00, Length 11.25, Material Steel



## Planet Gears



### 335691 Planet Gear

Replacing: 16.911.446

Servicing: AZF4576

Shaft dia./front 14.20, Total length 174.00,  
No./splines 10, Rotation CW



### 335700 Planet Gear

Replacing: 16.911.623

Servicing: AZE4220

Shaft dia./front 14.15, Total length 158.00,  
No./splines 14

## Levers



### 235094 Lever

Manufacturer: Mahle Letrika

Replacing: 16.908.037, 235094, MSX426KIT

Servicing: 11.130.763, 11.130.963,  
11.130.964, 11.130.965, 11.130.966,  
11.130.967, 11.130.968, 11.130.969

Dist. 26.90, ID 7.20, Length 82.55,  
Plunger w/o

## Clutches



### 130317 Clutch

Replacing: 16.909.013

Servicing: 11.130.041, 11.130.170,  
11.139.001, 11.139.002, 11.139.003,  
11.139.004, 11.139.005, 11.139.006

OD 9.70, Total length 166.00, Rotation CW  
Alternative no.: 333732



### 333732 Clutch

Replacing: 16.909.013

Servicing: 11.130.170, AZK5119

OD 65.90, Total length 165.60,  
Shaft length/C.E. house 66.20,  
Rotation CW

Alternative no.: 130317

## Brush Gears



### 335690 Brush Gear

Replacing: 16.908.336

Servicing: 11.130.679, 11.130.685,  
11.130.748, 11.130.762, 11.130.785,  
11.130.793, 11.130.794, 11.130.820

12 Volt, ID 38.00, OD 78.00,  
Height 31.50



### 335698 Brush Gear

Replacing: 16.915.869

Servicing: AZF4194

12 Volt, Dist. mount. holes 52.00,  
ID 37.80, OD 81.30, Height 31.20



### 335699 Brush Gear

Replacing: 16.908.752

Servicing: AZE4220, AZE4620

ID 35.50, OD 77.00, Height 27.60

## Brush Sets



### 140918 Brush Set

Replacing: 16.770.295

24 Volt, Length 25.50, Lead length 32.00,  
Height 25.85, Thickness 8.90  
1.5/2.5 kW.



### 140974 Brush/Spring Kit

Replacing: 16.905.832

Servicing: 11.130.321, 11.130.328,  
11.130.398, 11.130.404, 11.130.483,  
11.130.487, 11.130.495, 11.130.519

12 Volt, Length 11.50, Lead length 30.50,  
Height 12.00, Thickness 6.00  
2 component.



### 140978 Brush/Spring Kit

Replacing: 16.905.688, 16.906.266

Servicing: 11.130.026, 11.130.074,  
11.130.076, 11.130.127, 11.130.140,  
11.130.179, 11.130.194, 11.130.198

12 Volt, Length 23.00, Lead length 41.60,  
Height 25.00, Thickness 10.00  
Brush set w/o springs: HC-CARGO IKSX124.  
Alternative no.: IKSX124



### 140979 Brush/Spring Kit

Replacing: 16.905.695, MSX365KIT

Servicing: 11.130.010, 11.130.339,  
11.130.364, 11.130.367, 11.130.407,  
11.130.490, 11.130.491, 11.130.492

24 Volt, Length 23.00, Lead length 40.20,  
Height 25.00, Thickness 8.00



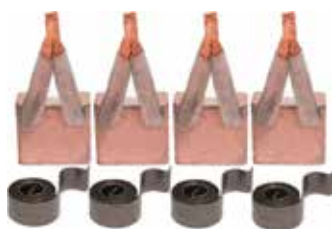


### 140981 Brush/Spring Kit

Replacing: 16.905.645, 16.905.973

Servicing: 11.130.019, 11.130.117, 11.130.123, 11.130.203, 11.130.250, 11.130.253, 11.130.300, 11.130.309

12 Volt, Length 23.50,  
Lead length 42.50, Height 16.00,  
Thickness 9.00

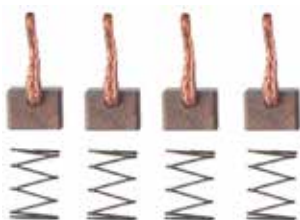


### 140982# Brush/Spring Kit

Replacing: 16.905.233

Servicing: 11.130.010, 11.130.030, 11.130.124, 11.130.141, 11.130.151, 11.130.154, 11.130.230, AZJ3518

24 Volt, Length 23.00,  
Lead length 41.50, Height 25.00,  
Thickness 10.00

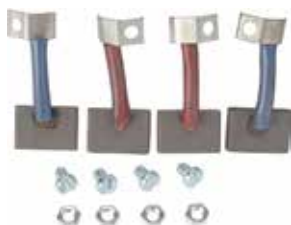


### 141030 Brush/Spring Kit

Replacing: 16.906.368, MSX1309KIT

Servicing: 11.130.417, 11.130.558, 11.130.593, 11.130.623, 11.130.642, 11.130.646, 11.130.647, 11.130.651

12 Volt, Length 13.00,  
Lead length 31.00, Height 18.00,  
Thickness 6.00



### 142326 5+ Brush Set

Manufacturer: Bosch

Replacing: 16.905.375

24 Volt, Length 16.60,  
Lead length 56.00, Lead length 2 46.80,  
Height 25.00, Thickness 8.00

Alternative no.: Bsx135-1454



### 335163 5+ Brush Set

Manufacturer: Mahle Letrika

Replacing: 16.908.337, MSX79KIT

Servicing: 11.130.748, 11.130.785, 11.130.793, 11.130.794, 11.130.820, 11.130.836, 11.130.841, 11.130.904

12 Volt, Length 18.80,  
Lead length 53.00, Height 24.80,  
Thickness 7.90



### BSX1004 Brush Set

Replacing: 16.905.380

24 Volt, Length 23.00,  
Lead length 42.00, Height 25.00,  
Thickness 8.00

Alternative no.: Bs100



### BSX1024 Brush Set

Replacing: 16.905.294, 16.905.767

Servicing: 11.130.146, 11.130.216, 11.130.295, 11.130.535, 11.130.554, 11.130.585, 11.130.645, 11.130.727

12 Volt, Length 25.50,  
Lead length 36.00, Height 15.85,  
Thickness 9.00

Alternative no.: Bs102



### BSX1304 Brush Set

Replacing: 16.909.041

Servicing: 11.139.007, 11.139.008, 11.139.017, 11.139.092, 11.139.093, 11.139.094, 11.139.095, 11.139.096

12 Volt, Length 27.00,  
Lead length 49.00, Height 36.00,  
Thickness 12.00



### BSX1314 Brush Set

Replacing: 16.905.063, 16.909.012

Servicing: 11.139.001, 11.139.002, 11.139.003, 11.139.004, 11.139.005, 11.139.006, 11.139.009, 11.139.010

24 Volt, Length 27.00,  
Lead length 46.00, Height 36.00,  
Thickness 12.00



### BSX134-1444 Brush Set

Replacing: 16.905.376

12 Volt, Length 17.00,  
Lead length 57.00, Lead length 2 44.00,  
Height 25.00, Thickness 10.00

Alternative no.: Bs134/0



### BSX135-1454 Brush Set

Replacing: 16.905.375

24 Volt, Length 16.60,  
Lead length 56.00, Lead length 2 46.80,  
Height 25.00, Thickness 8.00

Alternative no.: Bs135/0, 142326



### BSX151S4 Brush Set

Replacing: 16.905.247

Servicing: 11.130.083, 11.130.119, 11.130.222, 11.130.247, 11.130.248, AZJ3552

12 Volt, Length 17.00/19.00,  
Lead length 26.00, Height 18.00,  
Thickness 7.50

Alternative no.: Bs151





### BSX157-1584 Brush Set

Replacing: 16.905.235

Servicing: 11.130.606

12 Volt, Length 14.40/13.20,  
Lead length 25.00, Height 17.90,  
Thickness 5.95



### BSX344 Brush Set

Replacing: 16.905.387, 16.905.388

Servicing: 10.130.121, 10.130.123,  
10.130.125, 10.130.140, 10.130.141,  
10.130.142, 10.130.146, 10.130.207

24 Volt, Length 28.50,  
Lead length 45.00, Height 20.00,  
Thickness 9.00



### BSX354 Brush Set

Replacing: 16.905.389

Servicing: 10.130.160, 10.130.170,  
10.130.172, 10.130.181, 11.130.075,  
11.130.081, 11.130.158, 11.130.231

12 Volt, Length 28.50,  
Lead length 47.00, Height 20.00,  
Thickness 12.00



### BSX964 Brush Set

Replacing: 16.905.226, 16.905.392

12 Volt, Length 23.00,  
Lead length 43.00, Height 25.00,  
Thickness 10.00  
Alternative no.: Bs96



### IKSX124 Brush Set

Replacing: IKSX124

12 Volt, Length 23.00,  
Lead length 35.59, Height 25.00,  
Thickness 10.00

w/ springs: HC-CARGO 140978.

Alternative no.: 140978



### IKSX2-32 Brush Set

Replacing: 16.905.439, 16.905.950

Servicing: 11.130.193, 11.130.208,  
11.130.210, 11.130.233, 11.130.244,  
11.130.245, 11.130.246, 11.130.291

12 Volt, Length 15.00,  
Lead length 71.00, Lead length 2 42.00,  
Height 12.00, Thickness 6.90/13.90



### JSX134 Brush Set

Replacing: 16.905.218

Servicing: E100,

12 Volt, Length 20.00,  
Lead length 33.50, Height 16.00,  
Thickness 7.00



### JSX162 Brush Set

Replacing: 16.905.108, 16.905.421, IKSX12

Servicing: E84, 11.130.007, 11.130.029,  
11.130.034, 11.130.085, 11.130.102

12 Volt, Length 19.00,  
Lead length 31.00, Height 17.00,  
Thickness 8.00



### JSX52 Brush Set

Replacing: 16.905.225, IKSX42

Servicing: 11.130.134, 11.130.143,  
11.130.266, 11.130.314

12 Volt, Length 17.00,  
Lead length 24.50, Height 16.00,  
Thickness 6.00

## Bushings

Pkg. 10



### 140006 Bushing

Replacing: 15.120.012, MSX1213

Servicing: 11.130.010, 11.130.076,  
11.130.123, 11.130.141, 11.130.151,  
11.130.200, 11.130.230, 11.130.339

ID 14.04, OD 20.02, Length 10.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140006

Pkg. 10



### 140010 Bushing

Replacing: 15.120.094

ID 12.59, OD 16.55, Length 18.00,  
Material Copper, Pin w/o  
Alternative no.: B140010

Pkg. 10



### 140019 Bushing

Replacing: 15.120.095

Servicing: 11.139.163, AZJ3448

ID 14.06, OD 18.03, Length 14.00,  
Material Copper, Pin w/o  
Alternative no.: B140019





Pkg. 10

### 140026

Bushing

Replacing: 15.120.011

ID 19.10, OD 23.10, Length 13.00,

Material Copper, Pin w/o

Alternative no.: B140026



Pkg. 10

### 140040

Bushing

Replacing: 15.120.022, 15.120.087

Servicing: M78, M79, 11.130.174, 11.130.193,

11.130.208, 11.130.210, 11.130.233,

11.130.244, 11.130.245, 11.130.246

ID 12.00, OD 15.00, Length 12.00,

Material Copper, Pin w/o

Alternative no.: B140040



Pkg. 10

### 140050

Bushing

Replacing: 17.120.057

ID 10.08, OD 14.02, Length 13.50,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140050



Pkg. 10

### 140140

Bushing

Replacing: 15.120.014

ID 16.67, OD 19.60, Length 19.00,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140140



Pkg. 10

### 140310

Bushing

Replacing: 15.120.161, MSX643

Servicing: 11.130.019, 11.130.083,

11.130.203, 11.130.216, 11.130.248,

11.130.250, 11.130.309, 11.130.386

ID 12.52, OD 16.00, Length 15.00,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140310



Pkg. 10

### 140435

Bushing

Replacing: 17.120.305

Servicing: 11.130.007, 11.130.029,

11.130.034, 11.130.085, 11.130.102,

11.130.155, 11.130.162, 11.130.166

ID 11.60, OD 14.08, Length 13.00,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140435



Pkg. 10

### 140436

Bushing

Replacing: 17.120.203

Servicing: 11.130.007, 11.130.029,

11.130.034, 11.130.085, 11.130.102,

11.130.155, 11.130.162, 11.130.166

ID 12.04, OD 16.00, Length 16.00,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140436



Pkg. 10

### 140977

Bushing

Replacing: 15.120.010, 15.120.153,

15.120.155, 15.120.243, 16.120.010, MSX2,

MSX617, MSX684, MSX697

Servicing: 11.130.010, 11.130.010,

11.130.019, 11.130.026, 11.130.030

ID 14.33, OD 18.05, Length 18.00,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140977



Pkg. 10

### 140996

Bushing

Replacing: 15.120.089, MSX486

Servicing: 11.130.117, 11.130.119,

11.130.123, 11.130.222, 11.130.247,

11.130.253, 11.130.295, 11.130.319

ID 12.45, OD 15.85, Length 17.90,

Type Standard, Material Copper, Pin w/o



Pkg. 10

### 141031

Bushing

Replacing: 16.906.372, MSX1238

Servicing: 11.130.417, 11.130.558,

11.130.623, 11.130.642, 11.130.646,

11.130.647, 11.130.651, 11.130.716

ID 12.12, OD 15.04, Length 13.90,

Material Copper, Pin w/o



Pkg. 10

### 141032

Bushing

Replacing: 16.906.373, MSX709

Servicing: 11.130.417, 11.130.558,

11.130.593, 11.130.623, 11.130.642,

11.130.646, 11.130.647, 11.130.651

ID 10.10, OD 15.01, Length 10.00,

Material Copper, Pin w/o



Pkg. 10

### 142041

Bushing

Replacing: 16.906.374, MX1

Servicing: 11.130.328, 11.130.398,

11.130.404, 11.130.483, 11.130.487,

11.130.495, 11.130.519, 11.130.529

ID 12.00, OD 15.00, Length 11.90,

Material Copper, Pin w/o



Pkg. 100

### B140006

Bushing

Replacing: 15.120.012

Servicing: 11.130.534, AZJ0405, AZJ3144,

AZJ3514, 11.130.872

ID 14.04, OD 20.02, Length 10.00,

Type Standard, Material Copper, Pin w/o

Alternative no.: 140006



Pkg. 100



**B140010** Bushing  
 Replacing: 15.120.094  
 ID 12.56, OD 16.55, Length 18.00,  
 Material Copper, Pin w/o  
 Alternative no.: 140010

Pkg. 100



**B140019** Bushing  
 Replacing: 15.120.095  
 ID 14.06, OD 18.03, Length 14.00,  
 Material Copper, Pin w/o  
 Alternative no.: 140019

Pkg. 100



**B140026** Bushing  
 Replacing: 15.120.011  
 ID 19.10, OD 23.10, Length 13.00,  
 Material Copper, Pin w/o  
 Alternative no.: 140026

Pkg. 100



**B140040** Bushing  
 Replacing: 15.120.022, 15.120.087  
 ID 11.95, OD 15.00, Length 12.00,  
 Material Copper, Pin w/o  
 Alternative no.: 140040

Pkg. 100



**B140050** Bushing  
 Replacing: 17.120.057  
 ID 10.08, OD 14.04, Length 13.50,  
 Material Copper, Pin w/o  
 Alternative no.: 140050

Pkg. 100



**B140140** Bushing  
 Replacing: 15.120.014  
 ID 16.67, OD 19.60, Length 19.00,  
 Material Copper, Pin w/o  
 Alternative no.: 140140

Pkg. 100



**B140310** Bushing  
 Replacing: 15.120.161  
 Servicing: 11.130.019, 11.130.551, 11.130.972,  
 11.131.635, AZJ0102, AZJ3347, AZJ3447  
 ID 12.52, OD 16.00, Length 15.00,  
 Material Copper, Pin w/o  
 Alternative no.: 140310

Pkg. 100



**B140435** Bushing  
 Replacing: 17.120.305  
 ID 11.60, OD 14.08, Length 13.00,  
 Material Copper, Pin w/o  
 Alternative no.: 140435

Pkg. 100



**B140436** Bushing  
 Replacing: 17.120.203  
 ID 12.04, OD 16.00, Length 16.00,  
 Material Copper, Pin w/o  
 Alternative no.: 140436

Pkg. 100



**B140977** Bushing  
 Replacing: 15.120.010, 15.120.153,  
 15.120.155, 15.120.243, 16.120.010  
 Servicing: 11.130.019, 11.130.551,  
 11.130.785, 11.130.836, 11.130.841,  
 11.130.972, 11.131.060, 11.131.108  
 ID 14.33, OD 18.05, Length 18.00,  
 Type Standard, Material Copper, Pin w/o  
 Alternative no.: 140977

## Sundry Parts

### O-rings

Pkg. 10



**233712** O-ring  
 Servicing: 11.201.440, 11.201.498,  
 11.201.666, 11.201.675, 11.201.990,  
 11.203.016, 11.203.094, AAK5102  
 ID 34.65, OD 38.15, Thickness 1.75,  
 Colour Black, Material Rubber

Pkg. 10



**134716** O-ring  
 Servicing: 11.130.141, 11.130.151,  
 11.130.200, 11.130.373, 11.130.411,  
 11.130.484, 11.130.491, 11.130.509  
 ID 47.30, Thickness 2.60, Colour Black

### Rods



**131443** Rod  
 Replacing: 16.110.010  
 OD 9.66, Length 325.00



## Solenoids

12 V



### 130367 Solenoid

Replacing: 2101-3708805

Servicing: KAT3K35.3708

12 Volt, B+ M8, ID/cover 24.80, OD 57.90, OD/cover 49.70, Length 63.70, Total length 143.70, Height/B+ 18.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 18.50, No./mount. holes 3, No./terminals 3

## Drives



### 130738 Drive

Replacing: 2101-3708620

Servicing: 2100-3708000, 2101-3708000, KAT3K35.3708, 221-3708000, 3101-3708000, 3708000, CT221128, CT22112B

ID 14.00, OD 29.15, OD/housing 46.20, Total length 68.00, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 131212 Drive

Replacing: 2108-3708620

Servicing: 2108-3708010, 2103-12VIP54, 293708, KAT3K29.3708

ID 14.00, OD 29.20, OD/housing 46.40, Total length 66.50, No./teeth 11, Rotation CCW, Key spline w/o, Lock w/o

## Brush Gears

### Brush Gear Parts

#### Brush Springs

Pkg. 10



### 135119 Brush Spring

Servicing: M78R, M79, M80R,

ID 7.70, OD 9.25, Length 30.00, Material Steel

## Bushings

Pkg. 10



### 140374 Bushing

Replacing: 2108-3708405

Servicing: 2103-12VIP54, 2108-3708010, 293708, KAT3K29.3708, KAT3K35.3708

ID 12.00, OD 16.00, OD/collar 22.95, Length 19.40, Height/collar 2.60, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140374

Pkg. 100



### B140374 Bushing

Replacing: 2108-3708405

ID 12.05, OD 16.00, OD/collar 23.00, Length 19.40, Height/collar 2.52, Material Copper, Pin w/o  
Alternative no.: 140374

## Sundry Parts

### Insulators

Pkg. 10



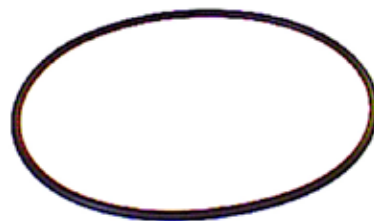
### 235155 Insulator

Servicing: 2110-3701010, 2112-3701010, 21214-3701010, 9412.3701

ID 6.27, OD 16.85, Height 7.98, Type Various, Material Plastic, O-ring w/o

## O-rings

Pkg. 5



### 136630 O-ring

Servicing: 2103-12VIP54, 2108-3708010, 293708, KAT3K29.3708

ID 92.00, Thickness 3.00



## Bearings

### Needle Bearings

Pkg. 10



#### 140120 FAG Needle Bearing

Replacing: 58734

Servicing: 10SI, 12SI, 15SI, 17SI, 27SI, A127  
ID 17.00, OD 23.80, Height 17.40  
Closed end.

Pkg. 5



#### 140241 Needle Bearing

Replacing: 78625

Servicing: 15SI

ID 17.00, OD 23.80, Height 20.60  
Closed end.

Pkg. 5



#### 140772 Needle Bearing

Replacing: 101414

Servicing: 15SI/116, 21SI

ID 17.00, OD 23.80, Height 22.00  
w/ double seal. w/ closed end.

## Solenoids

### 24 V



#### 132140 Solenoid

Replacing: 77452

24 Volt, B+ M14-1.50, OD 76.00,  
OD/cover 76.35, Total length 216.50,  
Height/B+ 33.00, Terminal 15A/width 18.30,  
Terminal 50 M6, Coil bolt M14-1.50,  
Coil bolt 2 24.60, No./mount. holes 2,  
No./terminals 4, Bracket type Bracket  
Insulated return. Cap: HC-CARGO 132141.  
Moving contact: HC-CARGO 132142.

## Solenoid Parts

### Solenoid Caps



#### 132141 Solenoid Cap

Replacing: 225014, 98004

OD 69.20, Coil bolt 1/2" UNC,  
Coil bolt 2 27.65, No./terminals 2  
HC-CARGO 132140.

### Moving Contacts

Pkg. 5



#### 132142 Contact Plate

Replacing: 77461

ID 10.10, Thickness 3.00,  
Width 50.15, Material Copper, Shaft w/o  
12/24 V.

## Various



#### 136412 5★ Rubber Boot

Manufacturer: Prestolite

Replacing: 225313, 71163, 77491, 95146

OD 52.35, Length 43.35

## Drives



#### 130535 Drive

Replacing: 04231

ID 12.00, OD 25.10, OD/housing 46.25,  
Total length 72.00, Splines A 12, Lock w/o,  
No./teeth 9, Rotation CW, Key spline w/o


#### 130539 Drive

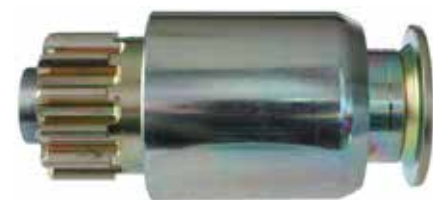
Replacing: 77600

Servicing: 40MT, 42MT, 50MT

ID 15.90, OD 56.50, OD/housing 58.00,  
OD/teeth 56.50, Total length 120.40,  
Shaft length 15.90, No./teeth 11,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 130539z


#### 130539Z Drive

Replacing: 77600

ID 15.90, OD 56.50, OD/housing 58.25,  
OD/teeth 56.50, Total length 120.40,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 130539


#### 131056 Drive

Replacing: 04489, 77601

Servicing: 40MT, 42MT, 50MT

ID 15.90, OD 46.20, OD/housing 57.65,  
Total length 120.40, Shaft length 15.90,  
No./teeth 12, Rotation CW,  
Key spline w/o, Lock w/o

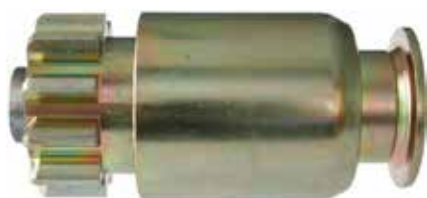

#### 131766 Drive

Replacing: M0290-4472, M0290-71031,  
M0290-75249

Servicing: 40MT

ID 19.00, OD 46.30, OD/housing 58.00,  
Total length 120.40, Shaft length 19.00,  
No./teeth 12, Rotation CW,  
Key spline w/o, Lock w/o





### 131768 Drive

Replacing: 71157, 73493, 74977, 97222,  
M0290-73493, M029097222

Servicing: 40MT,

ID 19.00, OD 56.50, OD/housing 58.00,  
Total length 120.40, Shaft length 19.00,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 132731 Drive

Replacing: 64235

Servicing: 40MT, 42MT, 50MT,

ID 15.75, OD 56.30, OD/housing 58.00,  
Total length 120.70, Shaft length 15.90,  
No./teeth 11, Rotation CCW,  
Key spline w/o, Lock w/o



### 232632 Drive

Replacing: 75249, M029075429

Servicing: 7146MA, 7146MB, 7150MA,  
7168MA, 7176MA, 7178MA, 7202MA, 7204MA,  
7222M, 7226M, 7230MA, 7258M

ID 19.00, OD 46.30, OD/housing 58.00,  
Total length 118.45, No./teeth 12,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 333858



### 333858 Drive

Replacing: 75249, M029075429

ID 19.00, OD 46.30, OD/housing 58.00,  
Total length 118.45, No./teeth 12,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 232632

## Bushings

Pkg. 10



### 141143 Bushing

Replacing: 850141

Servicing: 38401, 98401, M027098401

ID 19.10, OD 25.45, Length 19.00,  
Material Copper, Pin w/o

Pkg. 10



### 141144 Bushing

Servicing: 73644, 98644, M027098644

ID 22.25, OD 28.65, Length 29.90,  
Material Copper, Pin w/o

## Sundry Parts

### O-rings

Pkg. 10



### 134488 O-ring

Replacing: 57597

OD 40.00, Thickness 2.00, Colour Black



## Armatures

12 V



### 130195 Armature

Replacing: 271737, 272334, TIB115

Servicing: M45G, 26132, 26132A, 26132F, 26133, 26133A, 26133J, 26143A, 26143H, 26145A, 26145F, 26146A, 26146F

12 Volt, 2.1 kW, Bar dist. 3.00, Bar cross dist. 49.60, Shaft length 338.00, Bar length 8.60, Height/bar 6.40, Height/bar lane 26.30, Core thickness 74.50, No./bars 23, Rotation CW



### 130200 Armature

Replacing: 26252339, 54243590, SAR0002, TJB103

Servicing: M50G, 26273E, 26273F, 26304D, 26316D, 26341A, 26025007A, 26211U, 26227N, 26227R, 26227V, 26246M, 26265J

12 Volt, 2.8 kW, Bar dist. 3.65, Bar cross dist. 54.15, Shaft length 303.40, Bar length 12.00, Height/bar 6.90, Height/bar lane 25.00, Core thickness 84.00, No./bars 21, No./splines 12, Rotation CW  
Drive HC-CARGO 130453


### 130202 Armature

Replacing: 54247379, 54292953, SAR0017, TIB108

Servicing: M45G, 26310E, 26310F, 26321, 26213A, 26215H, 26236L, 26238M, 26238Q, 26248M, 26256H, 26259L, 26259N

12 Volt, 2.1 kW, Bar dist. 3.00, Bar cross dist. 49.60, Shaft length 303.60, Bar length 8.60, Height/bar 6.40, Height/bar lane 26.30, Core thickness 74.50, No./bars 23, No./splines 12, Rotation CW



### 130203 Armature

Replacing: 54241719, 54246418, 54246544, 54247025, 54247556, 54247935, TGB100

Servicing: M35J, 25137, 25137A, 25137E, 25137F, 25137N, 25145A, 25145H, 25145J, 25146A, 25146J, 25146K, 25156A

12 Volt, 0.8 kW, Bar dist. 1.50, Bar cross dist. 41.50, Shaft length 249.60, Bar length 6.00, Height/bar 7.30, Core thickness 54.00, No./bars 29, No./splines 12, Rotation CW



### 130205 Armature

Replacing: 54251818, SAR0008, TIB113

Servicing: M45G, 26072, 26132H, 26132J, 26132R, 26133K, 26133R, 26143J, 26143Q, 26145H, 26145N, 26146H, 26146N

12 Volt, 2.1 kW, Bar dist. 3.00, Bar cross dist. 49.60, Shaft length 340.00, Bar length 8.60, Height/bar 6.40, Height/bar lane 26.30, Core thickness 74.45, No./bars 23, Rotation CW



### 130210 Armature

Replacing: 54257635, SAR0010, TJB106

Servicing: M50, 26211A, 26211L, 26211, 26227, 26291

12 Volt, 2.8 kW, Shaft length 303.30, Height/bar 5.40, Height/bar lane 25.60, Core thickness 84.00, No./bars 21, No./splines 3, Rotation CW



### 130878 Armature

Replacing: 54243592, SAR0003, TJB104

Servicing: M50, 26234A, 26234J, 26234K, 26284A, 26284D, 26284E, 26336A, 26336F, 26336H, 26336Q, 26336R, 26337A

12 Volt, 2.8 kW, Bar dist. 3.65, Bar cross dist. 54.15, Shaft length 331.00, Bar length 12.00, Height/bar 6.90, Height/bar lane 25.00, Core thickness 84.00, No./bars 21, No./splines 12, Rotation CW



### 131652 Armature

Replacing: 54245090, 54246259, 54246290, THB101

Servicing: 2M100, 25629A, 25629E, 25634A, 25634E, 25638A, 25638E, 25639A, 25639E, 25642, 25642A, 25642F, 25643

12 Volt, 1.1 kW, Bar dist. 1.80, Bar cross dist. 44.00, Shaft length 272.50, Bar length 7.00, Height/bar 5.00, Core thickness 61.00, No./bars 29, No./splines 12, Rotation CW



### 131654 Armature

Replacing: 54251052, SAR0007, TIB112

Servicing: M45G, 26163A, 26163F, 26125, 26126, 26156, 26163, 26165, 26373

12 Volt, 2.1 kW, Bar dist. 3.00, Bar cross dist. 49.60, Shaft dia. 22.20, Shaft length 319.35, Bar length 8.60, Height/bar 6.40, Height/bar lane 26.30, Core thickness 74.50, No./bars 23, No./splines 4, Rotation CW



### 131655 Armature

Replacing: 54255952, SAR0009, TIB114

Servicing: M45G, 26125F, 26208A, 26208E, 26215A, 26215F, 26236A, 26236K, 26238A, 26238L, 26248A, 26248L, 26256A

12 Volt, 2.1 kW, Bar dist. 3.00, Bar cross dist. 49.60, Shaft length 302.00, Bar length 8.60, Height/bar 6.40, Height/bar lane 26.30, Core thickness 75.00, No./bars 23, No./splines 3



### 131656 Armature

Replacing: 54247383, SAR0004, TIB109

Servicing: M45G, 26233K, 26233M, 26286F, 26286J, 26302E, 26302H, 26320D, 26320J, 26333B, 26335A, 26348A, 26348D

12 Volt, 2.1 kW, Bar dist. 3.00, Bar cross dist. 49.60, Shaft length 331.00, Bar length 8.60, Height/bar 6.40, Height/bar lane 26.30, Core thickness 74.45, No./bars 23, No./splines 12, Rotation CW





### 131670 Armature

Replacing: 072382301010

Servicing: 063217104010, 063217105010, 063217173010

12 Volt, 2.5 kW, Bar dist. 3.00, Bar cross dist. 45.20, Shaft dia. 20.00, Shaft length 296.00, Bar length 11.55, Height/bar 5.90, Height/bar lane 20.70, Core thickness 75.00, No./bars 23, No./splines 12, Rotation CW



### 132401 Armature

Replacing: 54268555, SAR0014, TJB112

Servicing: M127, 27508A, 27508B, 27509A, 27512A, 27533A, 27543A, 27545A, 27546A, 27551A, 27552A, 27556A, 27557A

12 Volt, 2.8/2.9 kW, Bar dist. 3.65, Bar cross dist. 54.15, Shaft dia. 28.38, Shaft length 333.00, Bar length 12.00, Height/bar 6.90, Height/bar lane 25.00, Core thickness 83.96, No./bars 21, No./splines 12, Rotation CW



### 132486 Armature

Replacing: LTH207, SAAR6001

12 Volt, 2.0 kW, Bar dist. 2.25, Bar cross dist. 38.35, Shaft length 152.00, Bar length 4.35, Height/bar 4.25, Height/bar lane 22.60, Core thickness 53.20, No./bars 25, No./teeth 9, Rotation CW/CCW



### 132817 Armature

Replacing: 074899021010

Servicing: 063114014010, 063222035010

12 Volt, 2.2 kW, Bar dist. 2.91, Bar cross dist. 38.61, Shaft length 134.20, Bar length 4.88, Height/bar 5.55, Height/bar lane 25.43, Core thickness 58.95, No./bars 25, No./teeth 11, Rotation CW/CCW



### 133368 Armature

Replacing: 054292376010, 26253757, 54268382, 54292376, SAR0016, TJB111, TJB113, TJB114

Servicing: M127, 063227501010, 063227502010, 063227510010, 063227518010, 063227541010, 063227547010, 063227553010

12 Volt, 2.8 kW, Bar dist. 3.65, Bar cross dist. 54.15, Shaft dia. 28.40, Shaft length 302.40, Bar length 12.00, Height/bar 6.90, Height/bar lane 25.00, Core thickness 84.00, No./bars 21, No./splines 12, Rotation CW



### 134736 Armature

Replacing: LTH107, SAAR6000

Servicing: 61924101, 61924102

12 Volt, 0.8 kW, Bar dist. 2.30, Bar cross dist. 32.15, Shaft length 183.10, Bar length 5.00, Height/bar 5.00, Height/bar lane 18.45, Core thickness 60.00, No./bars 21, No./splines 8, Rotation CW



### 135620 Armature

Replacing: 083225127010, 083227678010

Servicing: 063101000010, 063101002010, 063101008010, 063102003010, 063102004010, 063102007010, 063102008010

12 Volt, 1.0 kW, Bar dist. 2.00, Bar cross dist. 34.00, Shaft length 202.40, Bar length 4.65, Height/bar 4.00, Height/bar lane 18.75, Core thickness 51.45, No./bars 21, No./splines 12, Rotation CW



### 135869 Armature

Replacing: 26255073, 54248609, SAR0005, TIB107

Servicing: 2M113, 27425, 27430, 27440, 27460, 26372A, 26372B, 26385A, 26385B, 26390A, 26390B, 26390E, 26394A, 26394D

12 Volt, 2.1 kW, Bar dist. 3.00, Bar cross dist. 49.60, Shaft length 302.20, Bar length 8.60, Height/bar 6.40, Height/bar lane 26.30, Core thickness 74.50, No./bars 23, No./splines 12, Rotation CW



### 233740 Armature

Replacing: 54248981, SAR0006, TIB110

Servicing: M45, 26268J, 26268L, 26269H, 26269L, 26346E, 26346K, 26381E, 26381F, 26383A, 26383D, 26396A, 26396B

12 Volt, 2.1 kW, Shaft dia. 28.60, Shaft length 306.00, Height/bar 5.75, Height/bar lane 26.10, Core thickness 74.40, No./bars 23, No./splines 12, Rotation CW

## Field Cases



### 135784 Field Case

Replacing: 61240701, LTH212, SSP0036

12 Volt, 2.0 kW, ID 53.85, OD/middle 81.50, Length 75.60, Lead length 99.00, O-ring w/



### 136135 Field Case

Replacing: 61240731, LTH108, SSP0035

12 Volt, 0.8 kW, ID 60.70, OD/middle 89.50, Length 62.00, Lead length 48.00, O-ring w/o



## Field Coils

12 V



### 130194 Field Coil

Replacing: 271826, 272219, 54266045, SFC0001, TEB134

Servicing: M45G, 26132A, 26132F, 26132H, 26132J, 26132R, 26133K, 26133R, 26143A, 26143H, 26143J, 26143Q, 26163A

12 Volt, 2.1 kW, Lead length 79.40, Height 119.25, Width 246.65, Internal height 75.40, Inner width 27.90, Brush gear w/o



### 130196 Field Coil

Replacing: 054266044010, 272394, 272605, 54263217, 54263486, 54266044, 54290953, 60600054, SFC0002, SFC0003

Servicing: M45G, 063227408010, 063227409010, 063227412010, 063227415010, 063227416010, 063227417010, 063227419010

12 Volt, 2.1 kW, Lead length 39.00, Height 118.00, Width 231.55, Internal height 75.65, Inner width 28.00, Brush gear w/o



### 130201 Field Coil

Replacing: 54244973, 54245574, SFC0006, TEB129

Servicing: M50, 26316D, 26341A, 26273A, 26273D, 26273E, 26273F, 26273H, 26273M, 26274A, 26274D

12 Volt, 2.8 kW, Height 126.00, Width 289.45, Internal height 74.80, Inner width 31.00, Brush gear w/o



### 130213 Field Coil

Replacing: 245079, 54245079, 54245576, 54258818, SFC0007, TEB128

Servicing: M50, 26227A, 26227N, 26227Q, 26227R, 26227V, 26234A, 26234J, 26234K, 26246A, 26246L, 26246M, 26265J

12 Volt, 2.8 kW, Height 125.50, Width 285.00, Internal height 74.75, Inner width 31.00, Brush gear w/o



### 130882 Field Coil

Replacing: 54244748, 60600018, SFC0005, TEB105

Servicing: M50, 26331E, 26338A, 26338D, 26338E, 26338F, 26331E, 26338B, 26339A

12 Volt, 2.8 kW, Height 126.00, Width 285.60, Internal height 74.70, Inner width 30.55, Brush gear w/o



### 132400 Field Coil

Replacing: 054294392010, 54268462, 54294392, SFC0010, TEB144

Servicing: M127, 063227501010, 063227502010, 063227510010, 063227512010, 063227518010, 063227533010, 063227541010

12 Volt, 2.8 kW, Height 127.90, Width 279.45, Internal height 74.40, Inner width 30.70, Brush gear w/o  
Brush set: HC-CARGO LASX364.



### 135200 Field Coil

Replacing: 054294400010, 54268395, 54294400, SFC0009, TEB142

Servicing: M127, 063227569010, 26925155B, 27500A, 27500J, 27561B, 27569A, 26213, 26330, 27500, 27569

12 Volt, 2.8 kW, Height 127.20, Width 287.00, Internal height 74.75, Inner width 30.75, Brush gear w/o

24 V



### 131473 Field Coil

Replacing: 072165901010

Servicing: 063216731010, 063216741010

24 Volt, 4.0 kW, Height 122.55, Internal height 88.40, Inner width 28.65, Brush gear w/o

## C.E. Brackets



### 136118 C.E. Bracket

Replacing: 54250082

Servicing: M45G, 26132, 26132J, 26132R, 26133, 26133A, 26133J, 26133K, 26133R, 26146, 26146A, 26146F, 26146H, 26146N

Brush set: HC-CARGO LASX15-164. Brush spring: HC-CARGO 132209.



### 136163 ★ C.E. Bracket

Manufacturer: Marelli

Replacing: 072163903010, 072163904010

Servicing: 063216741010, 063216896010, 063217148010, 063217158010, 063217410010

ID 105.00, OD 114.00, Height 56.00



### 136975 ★ C.E. Bracket

Manufacturer: Marelli

Replacing: 072163902010

ID 106.00, OD 114.25, Height 55.50





### 137049 C.E. Bracket

Replacing: 54257605

Servicing: M50, 26211A, 26211L, 26211M, 26211T

w/o brushes and springs. Brush set: HC-CARGO LASX364. Brush spring: HC-CARGO 132209.



### 137050 C.E. Bracket

Replacing: 54255957

Servicing: M45G, 26208A, 26208E, 26215A, 26215F, 26215H, 26233A, 26233J, 26233K, 26233M, 26256A, 26256E, 26256H

w/o brushes and springs. Brush set: HC-CARGO LASX15-164. Brush spring: HC-CARGO 132209.



### 137219 C.E. Bracket

Replacing: SBR6901

Servicing: 61924100

ID 76.50, OD 80.00, Height 44.00



### 137719 C.E. Bracket

Replacing: 054242829010, 54242829, 54244980, 54246655

Servicing: M50, M127, 063227502010, 063227512010, 063227559010, 063227578010, 063227583010, 063227594010, 063227599010



### 138346 C.E. Bracket

Replacing: 054263852010, 52265874,

54263852, 54265871, 54265874, 54290516

Servicing: 2M113, 063227409010, 063227412010, 063227415010, 063227416010, 063227417010, 063227475010, 063227478010

ID 108.00, OD 114.00, Height 56.00

## D.E. Brackets



### 136876 D.E. Bracket

Replacing: 054269202010, 54269202

Servicing: M50, M127, 063227512010, 26342, 27512, 27587

Type Closed



### 136878 D.E. Bracket

Replacing: 054265121010, 54265121

Servicing: M50, M127, 063227578010, 063227583010, 063227594010, 063227599010, 26274A, 26274D, 26345A, 26345B, 26345D

Type Closed



### 136879# D.E. Bracket

Replacing: 54265377

Servicing: M50, M127, 27508, 27575, 27586, 27604

Type Closed



### 138351 D.E. Bracket

Replacing: 085541472010, 54265243, 54293977, 61240176

Servicing: M50, M127, 063227565010, 063227590010, 063227598010, 27541, 27565, 27590, 27608, 27568, 27598, 27599, 27602

Type Closed



### 138434 D.E. Bracket

Replacing: 54244390, 54293976

Servicing: M127-2.8 KW, 27518A, 26294, 26357, 26369, 27502, 27506, 27518, 27570, 27585, 27588, 27592, 27596

Type Closed



### 139032 D.E. Bracket

Replacing: 085541468010, 54292157

Servicing: M127, 063227564010, 26284, 26284E, 27564, 27595

Type Closed



### 139629 D.E. Bracket

Replacing: 083226888010

Servicing: 063114014010

Type Closed



## I.M. Brackets



### 138350 I.M. Bracket

Replacing: 54249079, 54249083, 54261382, 60600019, SRB807

Servicing: M127, 26273H, 26273M, 26274H, 26274N, 26294F, 26294N, 26295F, 26295M, 26297F, 26297J, 26298F, 26298J

ID 28.50, OD 123.40, Height 22.60, Bushing w/



### 231196 I.M. Bracket

Replacing: LTH205, SBR6800

Servicing: 61924100

## Solenoids

### 12 V

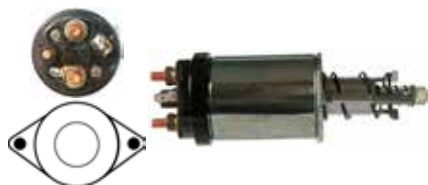


### 130373 Solenoid

Replacing: 063602290010

Servicing: 063224600010, 063224602010, 063224691010

12 Volt, B+ M8, ID/eye 6.50, OD 68.45, OD/cover 67.00, Total length 179.55, Height/B+ 20.90, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 20.90, Fork lever w/, No./mount. holes 3, No./terminals 3



### 130484 Solenoid

Replacing: 76790, 76805, 76830, 76842, 76848, 76849, 76863, 76866, 76868, 76870, 76873, 76883, 76887, 76893

Servicing: M35J, 25156, 25157, 25165, 25168, 25180, 25182, 25183, 25184, 25185, 25186, 25190, 25294

12 Volt, B+ M6, ID/cover 20.75, OD 47.00, OD/cover 51.50, Length 72.70, Total length 150.50, Height/B+ 14.40, Terminal 15A/width 8.20, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 14.40, No./mount. holes 4, Fork lever w/



### 130811 Solenoid

Replacing: TOJ101

12 Volt, B+ M8, OD 50.90, OD/cover 49.65, Total length 143.50, Height/B+ 16.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 16.50, No./mount. holes 2 / M5, No./terminals 3 Mounting hole M5



### 130814 Solenoid

Replacing: TOJ400

12 Volt, B+ M8, OD 49.85, OD/cover 49.80, Total length 137.60, Height/B+ 18.35, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.60, No./mount. holes 2, No./terminals 3



### 130853 Solenoid

Replacing: 263402, 263403, 76497, 76711, 76770, 76771, 76777, 76789, 76795, 76798, 76799, 76858, 76914, 76986

12 Volt, B+ M8-5/16", OD 54.50, Total length 78.65, Height/B+ 19.65, Terminal 50 6.30, Coil bolt M8-5/16", Coil bolt 2 19.65, No./terminals 4 Delivered with nuts



### 130855 Solenoid

Replacing: 000076892010, 000077034010, 76755, 76763, 76786, 76796, 76800, 76803, 76815, 76820, 76823, 76824

Servicing: M45G, 063227413010, 063227415010, 063227416010, 063227419010, 063227421010, 063227425010, 063227460010  
12 Volt, B+ M8, OD 53.80, OD/cover 59.25, Total length 172.75, Height/B+ 21.00, Terminal 15A/width 13.45, Terminal 30H 9.40, Terminal 30H/width 15.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 21.00, No./mount. holes 2, No./terminals 3 Cap: HC-CARGO 131274.



### 130856 Solenoid

Replacing: 76958, SRB333

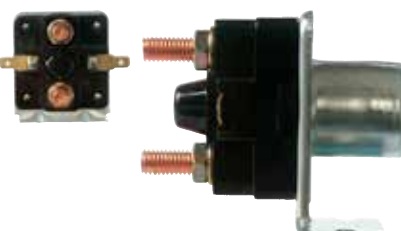
12 Volt, B+ M8, OD 54.45, Total length 78.35, Height/B+ 19.65, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.65, No./terminals 4



### 130872 Solenoid

Replacing: 76415, 76417, 76425, 76426, 76443, 76445, 76449, 76450, 76453, 76460, 76464, 76465, 76468, 76469

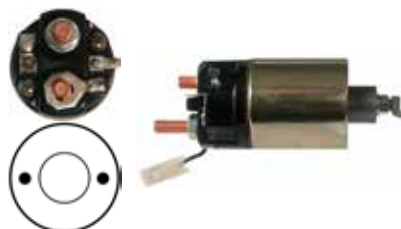
12 Volt, B+ M8-5/16", OD 54.40, Total length 78.00, Height/B+ 19.55, Terminal 50 6.30, Coil bolt M8-5/16", Coil bolt 2 19.55, No./terminals 3 Delivered with nuts



### 130951 Solenoid

12 Volt, B+ M8, OD 54.45, Total length 78.45, Height/B+ 19.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.50, No./terminals 4 Insulated return.

Alternative no.: 233955



### 131084 Solenoid

Replacing: TOJ401

12 Volt, B+ M8, OD 50.20, OD/cover 49.25, Total length 141.80, Height/B+ 23.75, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.50, No./mount. holes 2, No./terminals 4





### 131112 Solenoid

Replacing: 063633806010, 085540011010, 085540221010

Servicing: 063216815010, 063216827010, 063216831010, 063216833010, 063216851010, 063216861010, 063216874010

12 Volt, B+ M10, OD 61.00, Length 69.35, Total length 159.00, Height/B+ 20.70, Terminal 50 6.30, Coil bolt M10, No./mount. holes 3, No./terminals 3, Bracket type Crimp Cap: HC-CARGO 131329.



### 131121 Solenoid

Replacing: 66964044, 76901, 76930, 76979, 76985, 76997, 76997F, 77054, 77115, 77119, 77163, TOB122, TOB123

Servicing: M50, 26356A, 26356B, 26356D, 26356E, 26356F, 26356L, 26312D, 26312H, 26312Q, 26318A, 26318F, 26336A

12 Volt, B+ M10, ID/cover 26.20, OD 53.70, OD/cover 60.40, Length 91.95, Total length 207.20, Height/B+ 30.95, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 16.80, No./mount. holes 2, No./terminals 4 Cap: HC-CARGO 131276.



### 131144 Solenoid

Replacing: TOJ104

12 Volt, B+ M8, ID/cover 21.85, ID/eye 4.80, OD 52.20, OD/cover 48.45, Length 52.25, Total length 112.35, Height/B+ 17.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 18.55, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 133269. Moving Contact: HC-CARGO 133270.



### 131208 Solenoid

Replacing: 77265

12 Volt, B+ M8, OD 45.80, OD/cover 47.75, Total length 127.65, Height/B+ 16.70, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.80, No./mount. holes 2, No./terminals 3



### 131247 Solenoid

Replacing: 263005, 60933083, 76926, 77040, TOB183

Servicing: M50, 26349A, 26349B, 26349D, 26349H, 26416A, 26416D, 26416E, 26434A, 26434B, 26349, 26416, 27543

12 Volt, B+ M8, ID/cover 25.60, OD 54.70, OD/cover 60.30, Length 93.10, Total length 201.80, Height/B+ 26.75, Terminal 30H M6, Terminal 30H/width 21.25, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 10.80, No./mount. holes 2 Cap: HC-CARGO 131275.

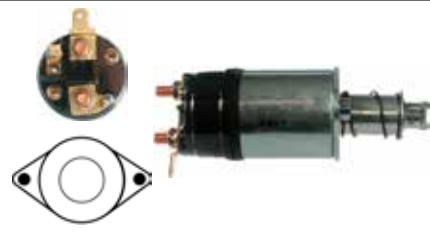


### 131248 Solenoid

Replacing: 27228A, 76740, 76753, 76756, 76781, 76825, 76833, 76834, 76835, 76836, 76854, 76862, 76864, 76865

Servicing: M50, 26211, 26227, 26265, 26273, 26274, 26284, 26291, 26294, 26295, 26311, 26312, 26316, 26323, 26329

12 Volt, B+ M8, ID/cover 26.00, OD 55.20, OD/cover 59.75, Length 93.10, Total length 204.65, Height/B+ 22.55, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 18.10, No./mount. holes 2, No./terminals 4 Cap: HC-CARGO 131275.

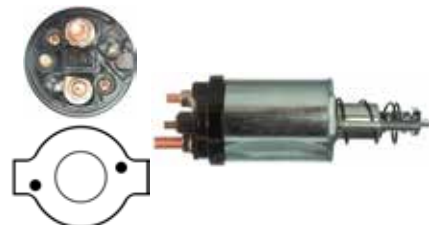


### 131252 Solenoid

Replacing: 76458, 76474, 76478, 76490, 76498, 76538, 76540, 76712, 76727, 76748, 76758, 76759, 76794, 76808

Servicing: M45G, 26133, 26148, 26192, 26133A, 26133J, 26133K, 26133R, 26145A, 26145F, 26145H, 26145N, 26146A

12 Volt, B+ M8, ID/cover 25.30, OD 55.10, OD/cover 57.65, Length 80.00, Total length 172.50, Height/B+ 15.75, Terminal 30H 9.40, Terminal 30H/width 15.10, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.30, No./mount. holes 2x M6, No./terminals 3 Cap: HC-CARGO 131264.



### 131255 Solenoid

Replacing: 76882, 76886, 77033, TOB160, TOB181, TPB101

Servicing: M35J, 25204, 25250, 25271, 25282, 25287, 25288, 25289

12 Volt, B+ M8, ID/cover 21.20, OD 46.95, OD/cover 51.35, Length 73.00, Total length 159.70, Height/B+ 21.20, Terminal 30H M5, Terminal 30H/width 8.00, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 14.35, No./mount. holes 2, No./terminals 4 Cap: HC-CARGO 131078



### 131437 Solenoid

Replacing: 085540281010

Servicing: 063220537010, 063220732010, 063220735010, 063220740010, 063220741010, 063220743010, 063220744010

12 Volt, B+ M8, ID/cover 22.00, OD 50.40, OD/cover 50.40, Length 65.15, Total length 127.50, Height/B+ 21.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 23.00, No./mount. holes 3, No./terminals 3 Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.





### 131785 Solenoid

**Replacing:** 76994, 77036, 77140, 77147, 77149, 77173, SSL0004, TOB182, TPB117, TPB120, TPB121, TPB133

**Servicing:** 2M113, M45G, 24534, 26390, 26394, 27430, 27440, 27501, 27505, 27508, 27542, 27546, 27556, 27560

12 Volt, B+ M10, ID/cover 25.75, OD 54.75, OD/cover 60.00, Length 92.70, Total length 186.20, Height/B+ 23.80, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 20.15, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 132270.



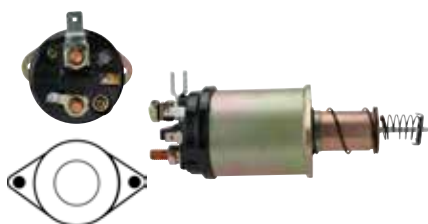
### 131786 Solenoid

**Replacing:** 60933104, 76888, 76906, 76925, 76940, 76983, 77011, 77021, 77092, 77128, 77169, SSL0003, TOB119

**Servicing:** 2M113, M45G, 26362A, 26362E, 27437A, 27452A, 26327, 26327A, 26327H, 26335, 26335A, 26348, 26348A, 26348D, 26362

12 Volt, B+ M8, ID/cover 26.40, OD 53.65, OD/cover 60.25, Length 93.65, Total length 179.85, Height/B+ 19.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.25, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 131015.



### 131787 Solenoid

**Replacing:** 76875, 76876, 76877, 76878, 76879, 76879E, 76880, 76884, 76919, 76922, 76923, 76924, 76929, 76931

**Servicing:** M100, 25372, 25374, 25380, 25382, 25410, 25629, 25634, 25638, 25639, 25642, 25643, 25644, 25647, 25648

12 Volt, B+ M8, ID/cover 26.35, OD 53.75, OD/cover 60.10, Length 95.10, Total length 171.25, Height/B+ 20.85, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 20.85, No./mount. holes 2, No./terminals 4



### 131788 Solenoid

**Replacing:** 76904, 76905, 77109, TOB114, TOB199

**Servicing:** M50, 26316A, 26316D, 26316E, 26316L, 26316M, 26328, 26329A, 26329B, 26329D, 26329K, 26329L, 26341A

12 Volt, B+ M8, ID/cover 26.10, OD 53.65, OD/cover 60.00, Length 91.90, Total length 204.45, Height/B+ 26.45, Terminal 15A/width 14.00, Coil bolt M6, Coil bolt 2 13.65, No./mount. holes 2, No./terminals 4



### 131800 Solenoid

**Replacing:** TOJ103

12 Volt, B+ M8, ID/cover 22.00, ID/eye 4.85, OD 52.30, OD/cover 44.40, Length 52.35, Total length 112.20, Height/B+ 16.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.00, No./mount. holes 2, No./terminals 3, Fork lever w/

Cap: HC-CARGO 133269. Moving contact: HC-CARGO 133270.



### 132227 Solenoid

**Replacing:** 085540591010

**Servicing:** 063220931010, 063221338010, 063221431010, 063221434010, 063221637010

12 Volt, B+ M8, ID/cover 23.20, OD 52.20, OD/cover 50.00, Length 65.00, Total length 148.30, Height/B+ 19.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.85, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.



### 132228 Solenoid

**Replacing:** 085540001010, 085540561010

**Servicing:** 063221435010, 063221436010, 063221530010, 063221533010, 063221536010, 063221635010, 063223235010

12 Volt, B+ M8, ID/cover 22.00, OD 50.35, Length 64.90, Total length 127.55, Height/B+ 20.85, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 21.70, No./mount. holes 3, No./terminals 3

Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.



### 132249 Solenoid

**Replacing:** 085540371010

**Servicing:** 063221834010, 063221890010

12 Volt, B+ M8, ID/cover 23.00, OD 52.30, OD/cover 49.55, Length 73.20, Total length 133.50, Height/B+ 14.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.75, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 132269 Solenoid

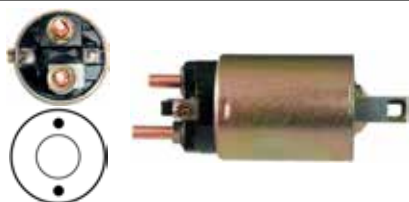
**Replacing:** 000076899010, 000077035010, 76804, 76816, 76821, 76852, 76895, 76896, 76899, 76908, 76961, 77035

**Servicing:** M127, M45G, M418, 2M113, 063227470010, 063227475010, 063227477010, 063227480010, 063227482010, 063227485010, 063227488010

12 Volt, B+ M8, ID/cover 26.20, OD 53.70, OD/cover 60.25, Length 93.45, Total length 178.00, Height/B+ 19.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.55, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 131015.





**133050** Solenoid  
Replacing: LTH206, SSL6001  
Servicing: 61924100

12 Volt, B+ M8, ID/eye 6.15, OD 55.15, OD/cover 48.60, Total length 144.00, Height/B+ 27.65, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 19.40, Fork lever w/, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 133286.



**133052** Solenoid  
Replacing: TOJ214

12 Volt, B+ M8, ID/eye 5.30, OD 51.45, OD/cover 45.40, Total length 132.45, Height/B+ 18.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.00, Fork lever w/, No./mount. holes 4, No./terminals 3  
Cap: HC-CARGO 133287.

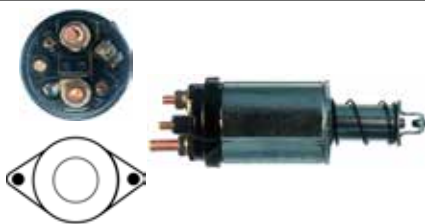


**133083** Solenoid  
Replacing: 085540581010

Servicing: 063221831010, 063222030010, 063222031010, 063222034010, 063222036010, 063222038010, 063222039010  
12 Volt, B+ M8, ID/cover 22.25, OD 50.25, OD/cover 50.30, Length 64.75, Total length 127.00, Height/B+ 21.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 22.70, No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 132229.

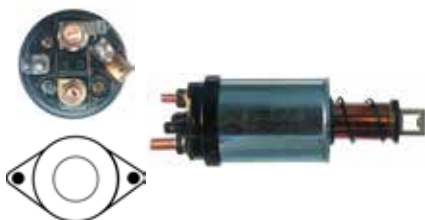


**133178** Solenoid  
Replacing: 35640175  
12 Volt, B+ M8, OD 46.30, OD/cover 51.15, Total length 122.00, Height/B+ 19.60, Terminal 50 M5, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 4, No./terminals 3  
Cap: HC-CARGO 131323.



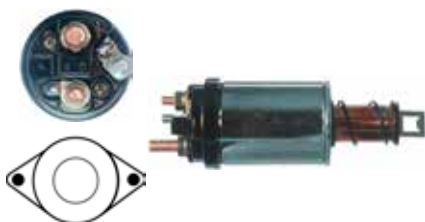
**133187** Solenoid  
Replacing: 66964039, 77031, 77091, 77093, 77094, 77180, 77186, TOB193, TOB194, TPB144, TPB147

Servicing: 8M90, 9M90, 25326, 25331, 25332, 25333, 25335, 25336, 25337, 25338, 25397, 25398, 25404, 25405, 25390A, 25339A  
12 Volt, B+ M8, ID/cover 21.35, OD 46.90, OD/cover 51.35, Length 69.40, Total length 156.00, Height/B+ 21.00, Terminal 15A/width 8.25, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 14.80, No./mount. holes 2, No./terminals 4  
Cap: HC-CARGO 131078.



**133300** Solenoid  
Replacing: 000072219010, 000077175010, 000077219010, 77175, 77199, 77219, TPB139

Servicing: M79, 063226604010, 063226606010, 063226607010, 063226609010, 063226614010, 063226619010, 063226622010  
12 Volt, B+ M8, ID/cover 21.30, ID/eye 9.00, OD 46.85, OD/cover 51.40, Length 69.00, Total length 156.40, Height/B+ 18.45, Terminal 15A/width 15.50, Terminal 50 9.40, Coil bolt M6, Coil bolt 2 14.35, No./mount. holes 2, No./terminals 4, Fork lever w/



**133301** Solenoid  
Replacing: 000077185010, 000077221010, 000077229010, 000077252010, 77185, 77190, 77221, 77229, 77252, TPB142

Servicing: M79, 063226601010, 063226626010, 063226627010, 063226648010, 063226667010, 063226678010, 063226679010  
12 Volt, B+ M8, ID/cover 21.25, ID/eye 9.00, OD 46.85, OD/cover 51.35, Length 68.85, Total length 157.45, Height/B+ 21.00, Terminal 50 M6, Coil bolt M6, Coil bolt 2 14.50, No./mount. holes 2, No./terminals 3, Fork lever w/



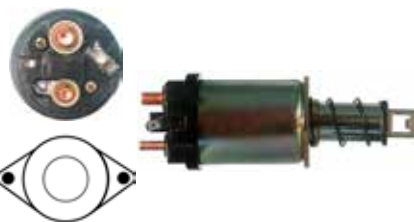
**133531** Solenoid  
Replacing: 000077121010, 000077132010, 000077133010, 085541320010, 085541322010, 085541325010, 60933111, 76397

Servicing: M127, 063227502010, 063227510010, 063227518010, 063227528010, 063227539010, 063227541010, 063227564010  
12 Volt, B+ M8, ID/cover 25.90, ID/eye 5.45, OD 53.85, OD/cover 60.00, Length 92.35, Total length 181.00, Height/B+ 13.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.00, No./mount. holes 2, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 131015.



**133566** Solenoid  
Replacing: 085540471010  
Servicing: 063222831010, 063222832010, 063222833010, 063222836010, 063222837010, 063223031010, 063223032010

12 Volt, B+ M8, ID/cover 23.20, ID/eye 6.75, OD 52.40, OD/cover 50.10, Length 63.00, Total length 141.00, Height/B+ 19.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.00, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 132229.



**134455#** Solenoid  
Replacing: 000077165010, 77165, 77198, TPB136  
Servicing: M79, 063226655010, 063227012010, 26623, 26624, 26646, 26648, 26649, 26654, 26655, 26656

12 Volt, B+ M8, ID/cover 21.20, ID/eye 9.00, OD 44.75, OD/cover 51.70, Length 65.80, Total length 148.70, Height/B+ 12.35, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 14.15, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 139112.



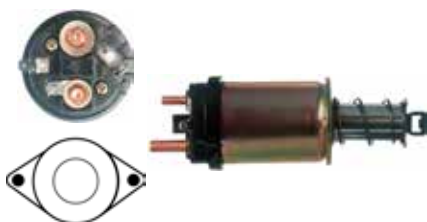


### 134456 Solenoid

Replacing: 000077196010, 77170, 77196, TPB138, TPB145

Servicing: M78, M80, 063226701010, 063226707010, 063226717010, 063226719010, 063226722010, 063226804010, 063226812010

12 Volt, B+ M8, ID/cover 21.25, ID/eye 9.00, OD 46.85, OD/cover 51.60, Length 65.00, Total length 152.60, Height/B+ 21.40, Terminal 15A/width 15.25, Terminal 50 9.40, Coil bolt M6, Coil bolt 2 14.75, No./mount. holes 2, No./terminals 4, Fork lever w/ Cap: HC-CARGO 131079.



### 134457 Solenoid

Replacing: 000077174010, 000077177010, 000077204010, 77174, 77177, 77194, 77204, 77208, TPB140, TPB146

Servicing: M78, M80, 063226800010, 063226801010, 063226803010, 063226927010, 26715, 26800, 26801, 26802, 26803, 26808

12 Volt, B+ M8, ID/cover 21.35, ID/eye 9.00, OD 45.50, OD/cover 51.65, Length 58.15, Total length 151.00, Height/B+ 20.70, Terminal 15A/width 8.10, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 14.25, No./mount. holes 2, No./terminals 4, Fork lever w/ Cap: HC-CARGO 134430.



### 134695 Solenoid

Replacing: 76917, 76962, 76982, 77110, 77156, 77161, TOB115, TOB172, TOB196, TPB106

Servicing: M45G, M418G, 2M113, 25616, 25660, 26269, 26346, 26381, 26383, 26396, 27405, 27406, 27428

12 Volt, B+ M8, ID/cover 26.00, OD 53.45, OD/cover 60.00, Length 91.90, Total length 179.65, Height/B+ 20.15, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 18.60, No./mount. holes 2, No./terminals 3 Cap: HC-CARGO 131015.

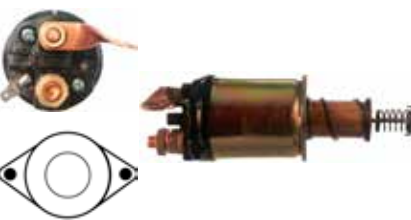


### 134886 Solenoid

Replacing: 000077136010, 77136, 77138, SSL0009, TPB114, TPB115

Servicing: M127/2.8 KW, 063227553010, 063227554010, 27506A, 27506D, 27507A, 27507B, 27511A, 27553A, 27553D, 27554A, 27554B

12 Volt, B+ M8, ID/cover 26.25, OD 53.55, OD/cover 60.00, Length 92.30, Total length 182.50, Height/B+ 26.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.65, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131015.

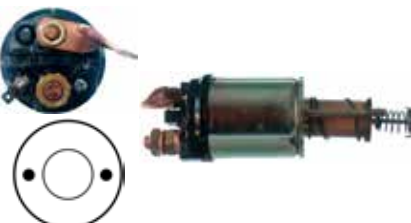


### 134888 Solenoid

Replacing: 000077122010, 085541323010, 60933109, 77122, SSL0006, TPB124

Servicing: M127/2.8 KW, 063227501010, 063227508010, 063227567010, 063227586010, 27531A, 27531B, 27531D, 27567A, 61924035

12 Volt, B+ M10, ID/cover 26.00, OD 53.60, OD/cover 59.70, Length 92.45, Total length 181.45, Height/B+ 24.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.65, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 132270.



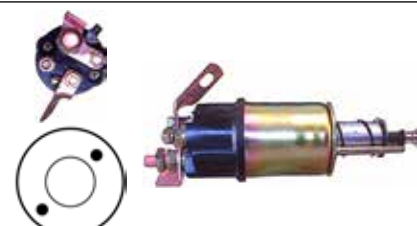
### 134890 Solenoid

Manufacturer: Lucas

Replacing: 000077269010, 77130, 77269, SSL0007, TPB110

Servicing: M127/2.8 KW, 063227587010, 27512, 27512A, 27512D, 61924045, 61924049, 27587

12 Volt, B+ M10, ID/cover 26.00, OD 53.60, OD/cover 59.70, Length 92.30, Total length 180.50, Height/B+ 24.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 20.50, No./mount. holes 2, No./terminals 3, Fork lever w/o Cap: HC-CARGO 132270. Alternative no.: 335154



### 134891 Solenoid

Replacing: 77027, TOB180

Servicing: M50, 26342D, 26342K, 26342L, 26342

12 Volt, B+ M10, ID/cover 26.35, OD 53.60, OD/cover 60.30, Length 91.90, Total length 210.70, Height/B+ 30.65, Terminal 15A/width 16.75, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 16.75, No./mount. holes 2, No./terminals 4 Cap: HC-CARGO 131276.



### 136164 Solenoid

Replacing: 085540711010

Servicing: 063222035010

12 Volt, B+ M8, ID/cover 23.20, OD 51.50, OD/cover 54.25, Length 69.20, Total length 131.90, Height/B+ 14.55, Terminal 30H M5, Terminal 30H/width 8.20, Terminal 50 M6, Coil bolt M8, Coil bolt 2 13.70, No./mount. holes 3, No./terminals 4 Cap: HC-CARGO 231582. w/ 30H terminal.



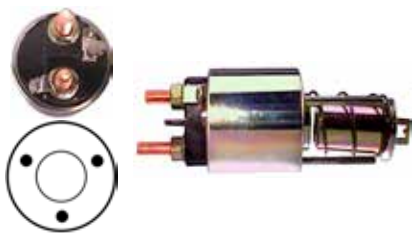
### 137190 Solenoid

Replacing: 085540981010

Servicing: 063222889010, 063222936010

12 Volt, B+ M8, ID/cover 25.25, ID/eye 6.75, OD 53.90, OD/cover 46.80, Length 50.30, Total length 126.55, Height/B+ 23.70, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.40, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 137347.





### 137191 Solenoid

Replacing: 085541820010

Servicing: 063222900010, 063223085010, 063223303010

12 Volt, B+ M8, ID/cover 25.20, ID/eye 6.55, OD 53.80, OD/cover 49.00, Length 50.00, Total length 126.70, Height/B+ 26.40, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.00, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 139602.



### 137759 Solenoid

Replacing: 77207, 77259, 77271, 77287, SSL0010, SSL0012, TPB157

Servicing: M127, 27602, 27603, 27510, 27569A, 27570A, 27570B, 27571A, 27571B, 27572A, 27572B, 27573, 27574, 27576

12 Volt, B+ M8, ID/cover 26.00, OD 53.75, OD/cover 59.85, Length 92.00, Total length 184.70, Height/B+ 18.90, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 24.10, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 139159.



### 138444 Solenoid

Replacing: 063602106010, 085541420010, 085541670010

Servicing: 063111007010, 063113002010, 063113003010, 063113004010, 063223730010, 063293538010

12 Volt, B+ M8, ID/cover 25.00, ID/eye 6.80, OD 53.90, OD/cover 46.90, Length 50.00, Total length 118.85, Height/B+ 16.40, Terminal 50 M6, Coil bolt M8, Coil bolt 2 10.40, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 139602. Moving contact: HC-CARGO 233969.



### 138477 Solenoid

Replacing: 063602502010

Servicing: 063114008010, 063114010010

12 Volt, B+ M8, OD 54.50, OD/cover 47.50, Height/B+ M8, Terminal 50 M6, No./terminals 3, Bracket type Crimp Cap: HC-CARGO 139602. Moving contact: HC-CARGO 137348.



### 138531 Solenoid

Replacing: 085541070010

Servicing: 063223039010, 063293039010

12 Volt, B+ M8, ID/cover 25.35, ID/eye 6.55, OD 54.00, OD/cover 47.40, Length 50.15, Total length 124.55, Height/B+ 20.90, Terminal 50 M6, Coil bolt M8, Coil bolt 2 10.40, No./mount. holes 3, No./terminals 3, Fork lever w/ Terminal: HC-CARGO 231863.



### 138753 Solenoid

Replacing: 085540031010

Servicing: 063216876010, 063216884010, 063217173010, 063217401010, 063217402010, 063217407010

12 Volt, 3.5 kW, B+ M10, OD 60.90, Total length 160.00, Height/B+ 15.30, Terminal 50 6.30, No./mount. holes 3, No./terminals 3, Bracket type Crimp



### 139104 Solenoid

Replacing: 085540922010

Servicing: 063222135010, 063222136010, 063222138010, 063222204010, 063222206010

12 Volt, B+ M8, ID/cover 23.30, OD 51.60, OD/cover 50.65, Length 68.85, Coil bolt M8, Coil bolt 2 20.35, Total length 144.00, Height/B+ 25.25, Terminal 50 M6, No./mount. holes 3, No./terminals 3 Cap: HC-CARGO 232417.



### 230264 5★ Solenoid

Manufacturer: Lucas

Replacing: 26964041

Servicing: 26925155B

12 Volt, B+ M8, ID/cover 28.20, OD 58.00, OD/cover 59.10, Length 94.20, Total length 173.00, Height/B+ 18.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 23.70, No./mount. holes 2, No./terminals 3



### 230268 5★ Solenoid

Manufacturer: Lucas

Replacing: 26257166, 26964060A

Servicing: 26025007A, 26925196A, 26925196B

12 Volt, B+ M8, ID/cover 28.60, OD 57.10, OD/cover 58.65, Length 94.20, Total length 170.75, Height/B+ 20.75, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 20.15, No./mount. holes 2, No./terminals 3



### 230325 Solenoid

Replacing: 085540041010

Servicing: 063220932010, 063221433010, 063221531010, 063221532010, 063221534010, 063221538010, 063221539010

12 Volt, B+ M8, ID/cover 22.25, OD 50.00, OD/cover 50.00, Length 64.95, Total length 126.70, Height/B+ 21.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 20.55, No./mount. holes 3, No./terminals 3 Cap: HC-CARGO 132229.





### 230342 Solenoid

Manufacturer: Lucas

Replacing: 26964038D

Servicing: 26925198D

12 Volt, B+ M8, ID/cover 26.00, OD 57.25, OD/cover 58.55, Length 94.40, Total length 177.25, Height/B+ 19.90, Terminal 50 M5, Coil bolt M8, Coil bolt 2 18.40, No./mount. holes 2, No./terminals 3



### 230805 Solenoid

Replacing: 083227502010, 085541210010

Servicing: 063102000010, 063191001010, 063192000010

12 Volt, B+ M8, ID/cover 25.70, ID/eye 6.60, OD 54.00, OD/cover 47.40, Length 47.75, Total length 112.75, Height/B+ 12.50, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.55, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 139602.



### 230809 Solenoid

Replacing: 085541560010

Servicing: 063111005010

12 Volt, B+ M8, ID/cover 25.75, ID/eye 6.70, OD 54.00, OD/cover 47.40, Length 47.45, Total length 123.00, Height/B+ 23.45, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.55, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 139601.

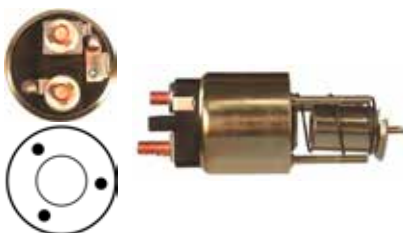


### 231479 Solenoid

Replacing: 085541350010

Servicing: 063191007010

12 Volt, B+ M8, ID/cover 25.65, OD 54.00, OD/cover 47.20, Length 51.50, Total length 115.00, Height/B+ 14.85, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.65, No./mount. holes 3, No./terminals 3 Cap: HC-CARGO 233074.



### 231806 Solenoid

Replacing: 085541110010, 085541111010

Servicing: 063223103010, 063223104010, 063230001010, 063230003010, 063293103010, 063293104010

12 Volt, B+ M8, ID/cover 25.30, ID/eye 6.50, OD 54.00, OD/cover 47.00, Length 49.80, Total length 121.00, Height/B+ 16.65, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 10.65, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 137346.



### 233954 Solenoid

Replacing: 76702, SRB716

12 Volt, B+ M8, OD 43.35, OD/cover 44.45, Total length 94.95, Height/B+ 19.35, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 18.35, No./mount. holes 2, No./terminals 3, Fork lever w/o



### 233955 Solenoid

Replacing: 76731, SRB319

12 Volt, B+ M8, OD 43.40, OD/cover 44.35, Total length 94.50, Height/B+ 19.25, Terminal 15A/width 11.65, Terminal 50 M5, Coil bolt M8, Coil bolt 2 18.30, No./mount. holes 2, No./terminals 4 Alternative no.: 130951



### 234733 Solenoid

Replacing: 085541360010

Servicing: 063101015010, 063101018010, 063101023010, 063102018010, 063102021010, 063103028010, 063103031010

12 Volt, B+ M8, ID/cover 25.00, OD 54.00, OD/cover 49.45, Length 54.50, Total length 125.30, Height/B+ 22.90, Terminal 50 M6, Coil bolt M8, Coil bolt 2 10.10, No./mount. holes 3, No./terminals 3, Fork lever w/o Cap: HC-CARGO 139601.



### 235267 Solenoid

Replacing: 000077262010, 77262

Servicing: M80R, 063226945010, 26945, 26943, 26946

12 Volt, 1.7 kW, B+ M8, OD 45.50, Height/B+ 21.50, No./mount. holes 2, No./terminals 3



### 238667 Solenoid

Replacing: 77218, SSL0011

Servicing: 27408, 27474

12 Volt, B+ M8, OD 54.80, Total length 160.00, Height/B+ 12.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 17.50, No./mount. holes 2





**238841** Solenoid  
 Replacing: 085541990010  
 Servicing: 063101021010, 063102022010  
 12 Volt, B+ M8, OD 54.05,  
 Total length 129.00, Height/B+ 16.25,  
 Coil bolt M8, Coil bolt 2 9.25,  
 No./mount. holes 3, No./terminals 2



**239075** Solenoid  
 Replacing: 085553402010  
 Servicing: 063280091010  
 12 Volt, B+ M8, OD 54.25,  
 Length 51.30, Total length 106.20,  
 Height/B+ 18.30, Terminal 50 M5,  
 Coil bolt M8, Coil bolt 2 10.95,  
 No./mount. holes 3, No./terminals 3,  
 Bracket type Crimp, Fork lever w/o



**335154** Solenoid  
 Replacing: 000077269010, 77130, 77269,  
 SSL0007, TPB110  
 Servicing: 27512, 27587  
 12 Volt, B+ M10, OD 53.60,  
 OD/cover 61.00, Total length 113.50,  
 Height/B+ 29.00, Terminal 50 6.30,  
 Coil bolt M8, Coil bolt 2 20.50,  
 No./mount. holes 2, No./terminals 3,  
 Bracket type Bracket, Fork lever w/o  
 Alternative no.: 134890

## 24 V



**130952** Solenoid  
 24 Volt, B+ M8, OD 52.60,  
 Total length 76.85, Height/B+ 19.10,  
 Terminal 50 6.30, No./terminals 4  
*Insulated return.*  
 Alternative no.: 233956



**131115** Solenoid  
 Replacing: 063633933010, 085540211010,  
 TOB811  
 Servicing: 063216727010, 063216731010,  
 063216733010, 063216740010,  
 063216741010, 063216748010,  
 063217225010  
 24 Volt, B+ M10, ID/cover 30.00,  
 OD 60.80, OD/cover 54.70, Length 69.30,  
 Total length 157.80, Height/B+ 20.35,  
 Terminal 50 6.30, Coil bolt M10,  
 Coil bolt 2 20.35, No./mount. holes 3,  
 No./terminals 3  
 Cap: HC-CARGO 131329. Moving Contact:  
 HC-CARGO 132248.



**134899** Solenoid  
 Replacing: 61611, 76989, 77108, SSL0023,  
 TPB127  
 Servicing: M45G, 3M113, 26387, 27429,  
 27429A, 27429B, 27461, 27461A, 27461B,  
 27462, 27462A, 27462B  
 24 Volt, B+ M8, ID/cover 26.30,  
 OD 55.00, OD/cover 60.25, Length 92.00,  
 Total length 176.00, Height/B+ 16.90,  
 Terminal 15A/width 12.45,  
 Terminal 50 9.40, Coil bolt M8,  
 Coil bolt 2 18.50, No./mount. holes 2,  
 No./terminals 3  
 Cap: HC-CARGO 131015.



**233956** Solenoid  
 Replacing: 76732, SRB321  
 24 Volt, B+ M8, OD 43.55,  
 Total length 93.65, Height/B+ 19.30,  
 Terminal 15A/width 10.95,  
 Terminal 50 M5, Coil bolt M8,  
 Coil bolt 2 19.00, No./mount. holes 2,  
 No./terminals 4  
 Alternative no.: 130952

## Solenoid Parts

### Solenoid Caps



**131015** Solenoid Cap  
 Replacing: 54942884, 60600117, 60600118,  
 60600119, 60600121, 60600122, 60600128,  
 60600129, 60600379, 60600381  
 Servicing: 25602A, 25602B, 25603A, 25603F,  
 25604A, 25604D, 25615A, 25615E, 25620A,  
 25620D, 25626A, 25626D  
 ID 43.60, OD 60.20, Coil bolt M8,  
 Coil bolt 2 20.00, No./terminals 3  
 HC-CARGO 131786, 132269, 133531, 134695,  
 134899.



**131078** Solenoid Cap  
 Replacing: 54646009, TWB117, TWB122  
 Servicing: 770311, 77093, 77094, TOB194,  
 25206, 25250, 25255, 25276, 25277  
 OD 51.50, Coil bolt M6, Coil bolt 2 8.00,  
 No./terminals 4  
 HC-CARGO 131255, 133187.





### 131079 Solenoid Cap

Replacing: TWB124

Servicing: 77118, 77170, 77191, 77196, BLMC, TPB138, TPB145, 25349, 25375, 25387, 25411, 26602, 26607, 26614  
ID 37.00, OD 51.75, Coil bolt M6, Coil bolt 2 14.20, No./terminals 4  
HC-CARGO 134456.

Alternative no.: 139085, 134456



### 131264 Solenoid Cap

Replacing: 54642436, TWB100

Servicing: 26133, 76458, 76474, 76490, 76498, 76538, 76712, 76727, 76744, 76748, 76758, 76759, 76808, 76840

ID 49.80, OD 58.15, Coil bolt M8, Coil bolt 2 19.30, No./terminals 4  
HC-CARGO 131252.



### 131274 Solenoid Cap

Replacing: 54644302, 54644303, 54644304, 60600120, 60600125, 60600650, 60600759, 61194021, SSL0903, TWB114

Servicing: 25621A, 25621E, 25627A, 25627E, 25632A, 25632F, 25664A, 25664B, 25673A, 76897, 76935, 77016, 77017

ID 43.50, OD 60.45, Coil bolt M8, Coil bolt 2 19.60, No./terminals 3  
HC-CARGO 130855.



### 131275 Solenoid Cap

Replacing: 54642116, 54642420, 54642732, 54642903, 54643131, 54643312, 54644187, 54645021, 54646676, 54646683

Servicing: 61924008, 26211, 26227, 26265, 26273, 26274, 26284, 26284E, 26291, 26294, 26295, 26311, 26312

ID 46.80, OD 60.15, Coil bolt M6, Coil bolt 2 10.30, No./terminals 4  
HC-CARGO 131247, 131248.



### 131276 Solenoid Cap

Replacing: 54644128, 54645590, 54646071, 54646689, TWB108

Servicing: 26336, 26342, 26355, 26356, 26386, 26388, 26407, 26428, 26428A

ID 47.25, OD 60.30, Coil bolt M6, Coil bolt 2 12.80, No./terminals 4  
HC-CARGO 131121, 134891.



### 132270 Solenoid Cap

Replacing: 60600568, 61194001, SSL0900, TWB111

Servicing: 61924011, 61924015, 61924017, 61924027, 61924033, 61924034, 61924035, 61924045, 61924049, 61924060

ID 45.20, OD 59.75, Coil bolt M10, Coil bolt 2 11.90, No./terminals 3  
HC-CARGO 131785, 134888, 134890.



### 134430 Solenoid Cap

Replacing: TWB123

Servicing: 26812, 26835, 26847, 77118, 77170, 77174, 77177, 77191, 77194, 77196, 77204, BLMC, TPB138, TPB140

ID 36.40, OD 51.75, Coil bolt M6, Coil bolt 2 13.80, No./terminals 4  
HC-CARGO 134457.



### 135354 Solenoid Cap

Servicing: 77129, 77135, TPB112, TPB122

ID 43.55, OD 60.70, Coil bolt M8, Coil bolt 2 18.10, No./terminals 4



### 139085# Solenoid Cap

Replacing: TWB125

Servicing: 77175, 77197, 77201, TPB139, TPB150

ID 36.60, OD 51.80, Coil bolt M6, Coil bolt 2 13.75, No./terminals 4, Bracket type Crimp  
HC-CARGO 133300.

Alternative no.: 131079, 133300



### 139112 Solenoid Cap

Servicing: 77165, 77198, TPB136

ID 36.55, OD 51.70, Coil bolt M6, Coil bolt 2 14.20, No./terminals 3, Bracket type Crimp  
HC-CARGO 134455.



### 139159 Solenoid Cap

Replacing: 54648338, 61194003, SSL0902, TWT200

Servicing: 77207, TPB157, 61924038

ID 43.30, OD 60.00, Coil bolt M8, Coil bolt 2 17.80, No./terminals 4  
HC-CARGO 137759.



### 139177 Connection

Replacing: 54642959, 54645844

Servicing: 26227R, 26227V, 26265J, 26265M, 26284A, 26284E, 26290B, 26291A, 26291D, 26291E, 26295A, 26295B

ID 9.00, Length 54.40, Width 16.15, Material Copper

Pkg. 5



## Moving Contacts

Pkg. 5



### 137059 Moving Contact

Replating: 54647861

Servicing: 26812, 26835, 26847, 77171, 77177, 77192, 77194, 77204, TPB132, TPB140, TPB146

OD 2 5.00, Length 32.70, Shaft dim. 31.55, Thickness 3.00, Width 12.00/18.60, Material Copper, Shaft w/

Pkg. 5



### 235014 Moving Contact

OD 2 3.50/3.95, Length 38.00, Shaft dim. 30.00, Thickness 2.55, Width 16.10, Material Steel, Shaft w/ Silver plated.

## Drives



### 130406 Drive

Replating: TMB420

ID 12.00, OD 26.00, OD/housing 46.15, Total length 68.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130414ZZ Drive

Replating: TMB471

ID 12.00, OD 25.20, OD/housing 54.15, OD/teeth 25.20, Total length 70.95, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 130414


### 130440 Drive

Replating: TMJ100, TMJ106

ID 13.00, OD 29.70, OD/housing 46.25, Total length 62.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130441 Drive

Replating: TMJ401

ID 12.50, OD 29.15, OD/housing 46.25, Total length 86.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130443 Drive

Replating: 292124, 60600342, TLB118

Servicing: 26147A, 26147H, 26147J, 26147M, 26148, 26148A, 26148F, 26148H, 26148N, 26149H, 26149M, 26151A

ID 14.30, OD 40.00, OD/housing 68.00, Total length 106.85, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 130444 Drive

Replating: 292130, 60600341, TLB117

Servicing: 26133, 26206, 26173

ID 14.25, OD 39.75, OD/housing 68.25, Total length 106.50, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 130445 Drive

Replating: 54243783, 54246738, 54246896, 54247187, TMB115

Servicing: 26211U, 26227R, 26227V, 26265J, 26265M, 26291E, 26305D, 26305H, 26305J, 26305N, 26312B, 26316A

ID 17.00, OD 39.85, OD/housing 60.00, Total length 70.15, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 130446 Drive

Replating: 54246725, 54259688, TMB105

Servicing: 26256, 26264, 26271, 26281A, 26281E, 26283A, 26283F, 26285A, 26285E, 26288A, 26288E, 26236A, 26236K

ID 17.00, OD 39.85, OD/housing 60.00, Total length 72.85, Splines A 3, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 130447 Drive

Replating: 54246340, 54246739, 54247184, TMB116

Servicing: 26317B, 26317D, 26317E, 26317H, 26355, 26355A, 26355B, 26355D, 26355J, 26356, 26356A

ID 17.00, OD 45.70, OD/housing 60.00, Total length 70.10, No./teeth 13, Rotation CW, Key spline w/o, Lock w/o



### 130449 Drive

Replating: 54252212, TLB112

Servicing: 25079, 25079A, 25079J, 25083, 25083A, 25083H, 25085A, 25085B, 25088A, 25088J, 25105A, 25105B

ID 16.00, OD 29.10, OD/housing 36.90, Total length 58.00, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o





### 130450 Drive

Replacing: 54246724, 54256984, 54259800, TMB104

Servicing: 26208A, 26208E, 26211A, 26211L, 26208, 26211, 26227, 26291

ID 17.00, OD 39.90, OD/housing 60.00, Total length 70.00, Splines A 3, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 130451 Drive

Replacing: 54240795, 54243848, 54246661, 54247188, 54258190, 60600210, TMB101, TMB143

Servicing: 26305, 26321, 26211, 26211M, 26211T, 26227, 26227A, 26227Q, 26291, 26291A

ID 17.00, OD 39.90, OD/housing 60.00, Total length 70.00, Splines A 3, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 130452 Drive

Replacing: 054247034010, 054268141010, 054294922010, 085541454010, 085541479010, 085541490010, 26253078

Servicing: 063227408010, 063227409010, 063227415010, 063227417010, 063227425010, 063227468010, 063227470010

ID 17.00, OD 39.90, OD/housing 60.00, Total length 73.00, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 130452z



### 130452Z Drive

Replacing: 054247034010, 054268141010, 054294922010, 085541454010, 085541479010, 085541490010, 26253078

ID 17.00, OD 39.50, OD/housing 60.00, Total length 73.50, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 130452



### 130453 Drive

Replacing: 26252342, 54244938, 54246285, 54246654, 60600066, TMB100, TMB142

Servicing: 26246M, 26273E, 26273F, 26273H, 26273M, 26274E, 26274F, 26274H, 26274N, 26290B, 26294D, 26294E

ID 17.00, OD 39.90, OD/housing 60.00, Total length 73.00, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 130737 Drive

Replacing: 085540661010

Servicing: 063220732010, 063220735010, 063220740010, 063220741010, 063220743010, 063220744010, 063220746010

ID 11.70, OD 25.55, OD/housing 43.70, Total length 71.15, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130741 Drive

Replacing: TMJ204

ID 12.85, OD 29.15, OD/housing 45.40, Total length 60.15, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130745 Drive

Replacing: 291559, TLB110

Servicing: 26132, 26135, 26136, 26143, 26172, 26072, 26132A, 26132F, 26132H, 26132J, 26132R, 26143A, 26143H

ID 14.30, OD 39.70, OD/housing 58.10, Total length 111.85, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 130749 Drive

Replacing: 072138801010

Servicing: 063216733010, 063216816010, 063216833010, 063216846010, 063217117010, 063217173010, 063217182010

ID 14.35, OD 34.40, OD/housing 60.30, Total length 77.20, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130759 Drive

Replacing: 223224

ID 12.00, OD 25.25, OD/housing 46.30, Total length 59.45, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130897 Drive

Replacing: 54243781, 54246662, 60600050, TMB102

Servicing: M50, 26234K, 26336A, 26336F, 26336H, 26336Q, 26336R, 26337A, 26337B, 26337D, 26337H, 26349A, 26349B

ID 17.00, OD 39.85, OD/housing 60.00, Total length 100.00, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o





### 131035 Drive

Replacing: 54244686, 54245201, 54245341, 54246005, 54247077, 54247181, TNB137  
Servicing: M35J, 25186, 25187, 25190, 25191, 25209, 25137A, 25137E, 25137F, 25137N, 25165A, 25165D, 25165E, 25165Q  
ID 12.00, OD 28.90, OD/housing 48.30, Total length 68.50, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131085 Drive

Replacing: TMJ103, TMJ107  
ID 12.50, OD 29.70, OD/housing 47.00, Total length 62.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131086 Drive

Replacing: TMJ102  
ID 12.50, OD 28.00, OD/housing 46.20, Total length 62.00, No./teeth 8, Rotation CW, Key spline w/o, Lock w/



### 131087 Drive

Replacing: TMJ210  
ID 12.75, OD 28.10, OD/housing 45.00, Total length 61.55, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 131104ZZ Drive

Replacing: TMB455, TMB570  
ID 12.00, OD 25.30, OD/housing 46.20, OD/teeth 25.30, Total length 58.40, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 131104 333176



### 131109 Drive

Replacing: 072139001010  
Servicing: 063216727010, 063216740010, 063216827010, 063216898010, 063217118010, 063217119010, 063217120010  
ID 14.30, OD 34.55, OD/housing 59.70, Total length 77.20, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/  
Drive w/ lever: HC-CARGO 234921, 234922.



### 131110 Drive

Replacing: TMJ400  
ID 12.55, OD 29.10, OD/housing 46.25, Total length 64.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131206 Drive

Replacing: 54246253, 54247106, 54249034, 54249042, TNB144  
Servicing: 2M100, 3M100, 25638A, 25638E, 25639A, 25639E, 25648A, 25648K, 25683A, 25683D, 25685A, 25685E, 25687A, 25687L  
ID 12.00, OD 25.35, OD/housing 47.10, Total length 75.65, Splines A 12, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 131588 Drive

Replacing: 085540081010  
Servicing: 063221830010, 063221832010  
ID 11.68, OD 25.60, OD/housing 43.70, Total length 63.95, No./teeth 9, Rotation CW, Key spline w/o, Lock w/  
Drive: HC-CARGO 132119.



### 131705 Drive

Replacing: 54247179, 54249035, TNB145  
Servicing: 2M100, 25653, 25653A, 25653E, 25654, 25654A, 25654H, 25667, 25667A, 25667D, 25705, 25705A, 25705D, 25721  
ID 12.00, OD 32.10, OD/housing 47.10, Total length 75.50, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 131707 Drive

Replacing: 54246252, 54249032, 54249041, 54249043, 54262658, 54279043, TNB142, TNB147, TNB149  
Servicing: 2M100, 3M100, 25642, 25647, 25651, 25662, 25674, 25686, 25689, 25720, 25722, 25728, 25729, 25734, 25629A, 25629E  
ID 12.08, OD 29.00, OD/housing 46.30, Total length 75.00, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131708 Drive

Replacing: 054247396010, 54247396, 60600077, TMB124  
Servicing: M45G, 2M113, 063227413010, 063227421010, 27421, 26278, 26278H, 26301, 26301H, 27413, 27413A  
ID 17.00, OD 39.23, OD/housing 60.20, Total length 73.20, Splines A 12, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o





### 131715 Drive

Replacing: 085540601010

Servicing: 063220536010, 063220537010, 063220538010

ID 11.64, OD 25.60, OD/housing 43.80, Total length 68.56, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131716 Drive

Replacing: 085540491010, 085540611010

Servicing: 063220931010, 063221338010, 063221430010, 063221431010, 063221538010, 063221637010

ID 11.55, OD 29.30, OD/housing 46.40, Total length 71.00, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 131723 Drive

Replacing: 54240984, TNB133

Servicing: M418G, 25604, 25604A, 25604D, 25616, 25616A, 25616J, 25660, 25660A, 25660B

ID 12.00, OD 32.00, OD/housing 47.60, Total length 75.35, Splines A 3, No./teeth 10, Rotation CW, Key spline w/o, Lock w/



### 131728 Drive

Replacing: 085541496010, 085541541010, 54247389, 54268142, 60600038, TMB121, TNB169

Servicing: M45G, 063227419010, 063227533010, 063227601010, 26286, 26336, 26349, 26398, 26416, 26428, 26428A, 27419

ID 17.05, OD 39.85, OD/housing 59.95, Total length 100.20, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 335647



### 131729 Drive

Replacing: 085541538010, 54247397, 60600078, TMB125

Servicing: M45G, 063227416010, 063227491010, 26275F, 26275J, 26275K, 26280F, 26280H, 26280J, 26306E, 26306F, 26306H

ID 17.05, OD 45.95, OD/housing 59.95, Total length 73.35, Splines A 12, No./teeth 13, Rotation CW, Key spline w/o, Lock w/o



### 131732 Drive

Replacing: 54242044, 54246729, TMB108

Servicing: M45G, 26278A, 26278F, 26301A, 26301E, 26278

ID 17.00, OD 39.25, OD/housing 60.15, Total length 73.00, Splines A 3, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 131733 Drive

Replacing: 54248156, TMB129

Servicing: M45G, 26371, 26371A, 26371D, 26371E, 26371F, 26400, 26400A, 26400B, 26400D, 27431A, 27431B

ID 17.00, OD 36.80, OD/housing 60.20, Total length 73.36, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 131734 Drive

Replacing: 54248959, TMB132

Servicing: M45G, 26346E, 26346K, 26381, 26381E, 26381F, 27428A, 27428D, 27428F

ID 12.10, OD 25.50, OD/housing 60.90, Total length 82.50, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131737 Drive

Replacing: 54245266, TNB102

Servicing: 3M127, 27301A, 27301H, 27304A, 27304J, 27309A, 27309E, 27310A, 27310F, 27311A, 27311E, 27313A, 27313B

ID 17.10, OD 39.90, OD/housing 60.25, Total length 100.90, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 131783 Drive

Replacing: TMJ101

ID 12.55, OD 28.70, OD/housing 46.30, Total length 62.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131985 Drive

Replacing: TMJ115, TMJ117, TMJ123

ID 14.00, OD 36.00, OD/housing 60.00, Total length 70.00, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131986 Drive

Replacing: TMJ121

ID 12.40, OD 28.00, OD/housing 46.25, Total length 60.00, Splines A 10, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o





### 131988 Drive

Replacing: TMJ140

ID 12.50, OD 27.85, OD/housing 46.00,  
Total length 82.00, No./teeth 8,  
Rotation CCW, Key spline w/o,  
Lock w/o



### 132001 Drive

Replacing: TMJ171

ID 11.90, OD 29.19, Total length 87.00,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 132188 Drive

Replacing: 085540521010

Servicing: 063221433010, 063221434010,  
063221530010, 063221533010,  
063221539010, 063221632010,  
063221636010

ID 11.60, OD 29.15, OD/housing 46.00,  
Total length 65.50, Splines A 10,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 132285 Drive

Replacing: 054290585010, 085541462010,  
085541466010, 54247393, 54268139,  
54290585, TMB148, TMB170

Servicing: 063227528010, 063227553010,  
063227554010, 063227569010, 26925155B,  
27500A, 27500J, 27504A, 27504B

ID 17.15, OD 39.00, OD/housing 60.00,  
Total length 70.40, Splines A 12,  
No./teeth 10, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o



### 132286 Drive

Replacing: 054267317010, 26255652,  
54267317, TMB150

Servicing: 2M113, 063227460010, 27425,  
27425B, 27460, 27460A, 27460B

ID 14.30, OD 36.00, OD/housing 60.00,  
Total length 73.00, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 132453 Drive

Replacing: TMJ120

ID 14.00, OD 40.00, OD/housing 60.00,  
Total length 69.50, Splines A 12,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 132586 Drive

Replacing: 054291911010, 085541488010,  
085541544010, 54291911, 85541488, TMB167

Servicing: M78, 063226601010,  
063226609010, 063226626010, 063226627010,  
063226678010, 063226679010, 063226680010

ID 12.00, OD 26.70, OD/housing 46.25,  
Total length 48.20, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 132587 Drive

Replacing: 054291912010, 54291912,  
TMB168

Servicing: M78, 063226614010,  
063226619010, 063226622010,  
063227026010, 063227028010, 26602,  
26614, 26618

ID 12.00, OD 25.50, OD/housing 43.50,  
Total length 48.00, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 132818 Drive

Replacing: 085540431010, 085540451010

Servicing: 063222030010, 063222034010,  
063222038010, 063222130010,  
063222134010, 063222135010, 063222138010

ID 11.60, OD 25.80, OD/housing 53.00,  
OD/teeth 25.80, Total length 62.00,  
Splines A 10, No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 132818z



### 132818Z Drive

Replacing: 085540431010, 085540451010

ID 12.00, OD 25.40, OD/housing 54.30,  
OD/teeth 25.40, Total length 62.00,  
Splines A 10, No./teeth 9,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 132818



### 132820 Drive

Replacing: 085540441010

Servicing: 063221831010, 063222036010,  
063222131010, 063222133010, 063222206010

ID 12.00, OD 27.50, OD/housing 53.25,  
Total length 61.90, Splines A 10, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 132821 Drive

Replacing: 085540151010, 085540191010

Servicing: 063216731010, 063216741010,  
063216818010, 063216831010,  
063216852010, 063216896010, 063217126010

ID 14.30, OD 34.30, OD/housing 60.00,  
Total length 77.50, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o





### 132852 Drive

Replacing: 054268140010, 085541459010, 54268140, TNB167

Servicing: 3M127, 063227501010, 063227567010, 27501A, 27501B, 27501E, 27531A, 27531B, 27531D, 27577, 27501, 27567

ID 17.00, OD 45.75, OD/housing 60.00, Total length 71.00, Splines A 12, No./teeth 13, Rotation CW, Key spline w/o, Lock w/o



### 133295 Drive

Replacing: 054295252010, 54292179, 54295252, TNB176

Servicing: M79, 063226607010, 063226692010, 063226696010, 063227037010, 063227044010, 063227045010, 26607E, 26607J

ID 12.00, OD 26.70, OD/housing 46.00, Total length 61.75, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o



### 133296 Drive

Replacing: 54291543, 54292929, 54295255, TMB174, TMB177

Servicing: M79, 26717A, 26812A, 26812D, 26702E, 26702K, 26717, 26811A, 26812, 26835

ID 12.00, OD 26.65, OD/housing 46.00, Total length 56.55, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o



### 133297 Drive

Replacing: 054290840010, 54290840, TMB171

Servicing: M78, 063226707010, 063226721010, 063226804010, 063226823010, 063226824010, 063226836010, 063226837010

ID 12.00, OD 26.65, OD/housing 46.00, Total length 44.00, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 133682 Drive

Replacing: 054268565010, 054295140010, 54268565, 54268566, 54295140, TNB172

Servicing: M127, 063227512010, 063227587010, 27512A, 27512D, 26342, 27512, 27587

ID 17.00, OD 40.50, OD/housing 60.00, Total length 100.25, Splines A 12, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 133683 Drive

Replacing: 085541470010, 54290474, TNB173

Servicing: M127, 063227564010, 27564A, 27564F, 27576, 27564, 27595

ID 14.20, OD 31.90, OD/housing 60.00, Total length 100.35, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 133985 Drive

Replacing: 072139003010

Servicing: 063217121010

ID 14.30, OD 34.00, OD/housing 60.25, Total length 77.25, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o w/ lever.



### 134065 Drive

Replacing: 54245568, 54246123, 54247295, 54265549, 54265568, TNB153

Servicing: M35J, 25204, 25205, 25206, 25210, 25249, 25250, 25270, 25271, 25272

ID 12.00, OD 26.80, OD/housing 47.00, Total length 68.35, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 134364 Drive

Replacing: 085540321010, 085541040010

Servicing: 063223430010, 063223431010, 063223432010, 063223436010, 063223530010, 063223531010, 063223532010

ID 12.00, OD 29.00, OD/housing 46.25, Total length 52.35, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 134427 Drive

Replacing: 0485, 1.01.0485.0, 10077, SDV31004

Servicing: M50, 26284A, 26284E, 26342A, 26342B, 26342D, 26342K, 26342L, 26284, 26342

ID 17.00, OD 40.50, OD/housing 60.00, Total length 100.50, Splines A 12, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 135117 Drive

Replacing: 085540681010

Servicing: 063222035010, 06322204010

ID 12.00, OD 29.00, OD/housing 54.25, Total length 62.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 135355 Drive

Replacing: 1.01.0280.0, 54240294, 54240295, 54242330

Servicing: M35G, 25079J, 25083H, 25138A, 25147A, 25148A, 25149B, 25345A, 25079A, 25085A, 25085B, 25088A, 25088J

ID 16.00, OD 29.50, Total length 58.10, No./teeth 10, Key spline w/o, Lock w/o





### 135711 Drive

Replacing: 085541503010, 54292464, TMB196

Servicing: M79, 063226667010, 063227043010, 26667, 27022, 27043, 27047  
ID 12.00, OD 28.00, OD/housing 46.25, Total length 48.15, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 135717 Drive

Replacing: 085540971010, 085541780010

Servicing: 063101000010, 063101002010, 063101008010, 063102003010, 063102004010, 063102007010, 063102008010

ID 11.60, OD 25.80, OD/housing 46.00, Total length 64.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 136261 Drive

Replacing: 054293451010, 54293451, TMB197

Servicing: M78R, 063226834010, 063226845010, 26813, 26834, 26841, 26845  
ID 12.00, OD 27.85, OD/housing 46.25, Total length 65.45, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 136338 Drive

Replacing: 54248606, TMB130

Servicing: M45G, 26372A, 26372B, 26385A, 26385B, 26390A, 26390B, 26390E, 27430A, 27430B

ID 14.30, OD 35.00, OD/housing 60.00, Total length 73.20, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 138167 Drive

Replacing: 085541030010

Servicing: 063111000010, 063223435010, 063223639010

ID 12.00, OD 28.70, OD/housing 47.00, Total length 52.55, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
Drive only: HC-CARGO 136257.



### 138299 Drive

Replacing: 054290638010, 54290638, TMB183

Servicing: M80, 063226904010, 063226927010, 063226932010, 26808A, 26914A, 26914F, 26920A, 26920E, 26922B, 26927A

ID 12.10, OD 39.50, OD/housing 47.75, Total length 50.50, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 138533 Drive

Replacing: 085541080010

Servicing: 063223039010, 063293039010

ID 11.60, OD 24.90, OD/housing 44.00, Total length 60.85, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 139655 Drive

Replacing: 085541870010

Servicing: 063103007010, 063103008010, 063103015010, 063103022010, 063103023010, 063103024010, 063103031010

ID 11.45, OD 23.50, OD/housing 44.00, Total length 64.00, Splines A 12, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 335653



### 139710 Drive

Replacing: 054294817010, 54294813

Servicing: 063293538010

ID 12.00, OD 54.00, OD/housing 48.20, Total length 51.35, Splines A 10, No./teeth 23, Rotation CW, Key spline w/o, Lock w/o



### 139901 Drive

Replacing: 085541250010, 085541680010

Servicing: 063111008010, 063111009010, 063111027010, 063111037010, 063112003010, 063113003010, 063113004010

ID 12.00, OD 29.75, OD/housing 47.55, Total length 50.20, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 139902 Drive

Replacing: 085541700010

Servicing: 063114014010

ID 12.00, OD 34.25, OD/housing 60.00, Total length 64.65, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 230025 Drive

Replacing: 085540401010

Servicing: 063223239010

ID 12.00, OD 29.50, OD/housing 47.60, Total length 64.90, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o





**230265** 5★ Drive  
 Manufacturer: Lucas  
 Replacing: 26255474  
 Servicing: 26925188D, 26925189D, 26925194D, 26925198D, 26925200A  
 ID 14.35, OD 39.40, OD/housing 61.00, Total length 73.45, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



**230757** Drive  
 Replacing: 085540381010  
 Servicing: 063101003010, 063221834010, 063221890010, 063221892010  
 ID 11.60, OD 25.30, OD/housing 43.45, Total length 64.10, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
 Drive: HC-CARGO 132119.



**230835** Drive  
 Replacing: 220409  
 ID 12.00, OD 27.75, OD/housing 46.30, Total length 50.00, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333189 5★



**231414** Drive  
 Replacing: 085541220010  
 Servicing: 063102000010, 063192000010  
 ID 11.65, OD 27.80, OD/housing 45.00, Total length 63.30, Splines A 12, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



**231478** Drive  
 Replacing: 085541390010  
 Servicing: 063191007010  
 ID 11.00, OD 25.40, OD/housing 45.25, Total length 57.50, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**232480** Drive  
 Replacing: 54242438, 54246727, TMB106  
 Servicing: M45G, 26207, 26270, 26300, 27410A, 27418A, 26270A, 26270J, 26300A, 26300E, 26300F  
 ID 17.00, OD 39.20, OD/housing 60.45, Total length 73.70, Splines A 3, No./teeth 11, Rotation CCW, Key spline w/o, Lock w/o



**233533** Drive  
 Replacing: 54247508, 54260599, 60600380, TMB133  
 Servicing: M45G, 26268J, 26268L, 26269H, 26269L, 26383A, 26383D, 26396A, 26396B, 27405A, 27405B, 27406A, 27447A  
 ID 12.00, OD 24.75, OD/housing 60.00, Total length 79.00, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**234219** Drive  
 Replacing: 54291195, TMB175  
 Servicing: M80R, 26908A, 26908B  
 ID 12.00, OD 25.25, OD/housing 49.00, Total length 50.00, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**234921** Drive  
 Replacing: 072397101010  
 Servicing: 063216703010, 063216726010, 063216808010, 063216826010, 063216873010, 063217104010, 063217105010  
 ID 14.20, OD 34.50, OD/housing 60.20, Total length 77.15, No./teeth 9, Key spline w/o, Lock w/o  
 w/ lever. Drive only: HC-CARGO 131109.



**239080** Drive  
 Replacing: 085553621010  
 Servicing: 063280091010, 063280110010  
 ID 11.00, OD 30.00, OD/housing 44.82, Total length 43.23, Splines A 10, No./teeth 11, Rotation CW



**333881#** Drive  
 Replacing: 085541810010  
 ID 12.00, OD 25.40, OD/housing 47.00, Total length 48.45, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



**333937** Drive  
 Replacing: TMB022  
 ID 12.00, OD 25.20, OD/housing 46.35, OD/teeth 25.20, Total length 58.60, Splines A 10, No./teeth 9, Drive type Steel, Rotation CW





### 335647 Drive

Replacing: 54247389, 54268142, 60600038  
ID 17.00, OD 39.50, OD/housing 60.00,  
Total length 101.00, Splines A 12,  
No./teeth 10, Drive type Steel,  
Rotation CW  
Alternative no.: 131728



### 335653 Drive

Replacing: 085541870010  
ID 12.45, OD 23.50, OD/housing 44.00,  
Total length 64.00, Splines A 12,  
No./teeth 8, Rotation CW, Lock w/o  
Alternative no.: 139655

#### Drive Parts

#### Caps



Pkg. 25

### 134208 Drive Cap

ID 59.50, OD 60.95, Height 23.00

#### Pinion



### 131724 Pinion

Replacing: 54251756, TLB106  
Servicing: M45G, 26163A, 26163F, 26373,  
26373A, 26125, 26126, 26156, 26163, 26165  
ID 21.70, OD 46.00, Height 25.00,  
Height/collar 5.85, No./splines 4,  
No./teeth 13, Bushing w/o



### 131726 Pinion

Replacing: 291859, 292134, 54255513,  
54256689, TLB101, TLB193

Servicing: M45G, 26133, 26167, 26169,  
26176, 26177, 26185, 26206  
ID 20.00, OD 39.40, Height 25.65,  
Height/collar 6.00, No./splines 4,  
No./teeth 11, Bushing w/o



### 139953 Pinion

Replacing: LTH208, SDR6014  
ID 13.25, OD 32.55, Height 18.25,  
No./splines 19, No./teeth 10, Bushing w/o

#### Planet Gears

#### Gear Parts

#### Outer Gear



### 133618 Outer Gear

Replacing: 54293830  
Servicing: M78R, 26803, 26911, 26912,  
26913, 26914, 26917, 26918, 26935, 26943,  
26945, 26921, 26929, 26936, 26938  
ID 51.85, OD 61.70, Height 27.70,  
Height/collar -5.43, No./teeth 40, Bushing w/o



### 135121 Outer Gear

Replacing: 54293375, 54293575  
Servicing: M78R, 26715, 26813, 26834,  
26804, 26814, 26841, 26845  
ID 48.00, OD 61.00, Height 27.60,  
Height/collar -5.11, No./teeth 39, Bushing w/o

Pkg. 5



### 232604 Outer Gear

Replacing: 54294580  
ID 47.25, OD 61.20, Height 25.25,  
No./teeth 37, Bushing w/o

#### Gear Wheels



### 138565 Gear

Replacing: LTH210, SDR6013  
ID 14.30, OD 45.20, Height 16.60,  
No./splines 22, No./teeth 32,  
Bushing w/o

#### Levers



### 133463 Lever

Replacing: LTH102, SSP0030  
Dist. 22.60, Length 81.05, Plunger w/o



### 133894 Lever

Servicing: 26211, 26227, 26265, 26291,  
26311, 26316, 26329, 26338, 26339, 26341,  
26360, 26379, 26395, 26431  
Dist. 31.40, ID 8.00, Length 111.00,  
Plunger w/o





### 134444

Lever

Replacing: 54267369, 60600315

Servicing: M127, 27541, 27565, 27608, 27626, 26213, 26330, 27500, 27501, 27502, 27506, 27508, 27510, 27512, 27515

Dist. 31.25, ID 7.70, Length 110.45, Plunger w/o



### 134445

Lever

Replacing: 54267384

Servicing: M50, 26025007A, 26925196A, 26925196B, 26256, 26259, 26271, 26273, 26274, 26294, 26312, 26321, 26323

Dist. 31.35, ID 7.80, Length 110.00, Plunger w/o



### 135573

Lever

Replacing: LTH203, SSP0031

Dist. 54.55, ID 5.00, Length 114.00, Plunger w/o



### 138353

Lever

Replacing: 54267376

Servicing: M45G, 2M113, 26925188D, 26925189D, 26925194D, 26925198D, 26925200A, 26148, 26186, 26196, 26233, 26264, 26278

Dist. 31.25, ID 7.85, Length 106.00, Plunger w/o

## Lever Parts

### Various



### 134446

Pivot Pin

Replacing: 54290573, 60600315, 61194012, SSP0013

Servicing: M127, 27301A, 27301H, 27304A, 27304J, 27305A, 27305H, 27307A, 27307E, 27309A, 27309E, 27310A, 27310F

Total length 39.65, Thread size M14/7.90

## Clutches



### 231269

Clutch

Replacing: LTH209, SDR6012

OD 67.20, Shaft OD/front 18.65, Shaft OD/rear 14.00, Total length 131.00, No./splines 19

## Brush Gears



### 131169

Brush Gear

Replacing: 054245374010, 54245374, SSP0004, TAB104

Servicing: M50, 063227501010, 063227502010, 063227510010, 063227512010, 063227518010, 063227533010, 063227541010  
12 Volt, ID 47.35, OD 88.70, Height 25.75


### 132475

Brush Gear

Replacing: LTH213, SSP6001

12 Volt, ID 32.00, OD 70.35, Height 22.00  
Brush set: HC-CARGO 140387.


### 134041

Brush Gear

Replacing: 072164701010

Servicing: 063216817010, 063216818010, 063216831010, 063216852010, 063216861010, 063216884010, 063216896010

ID 18.00, OD 93.85, Height 35.15  
Brush set: HC-CARGO MASX15-164.


### 134291

Brush Gear

Replacing: 074891101010

Servicing: 063221433010, 063221434010, 063221435010, 063221436010, 063221438010, 063221530010, 063221533010

ID 40.00, OD 89.75, Height 18.00



### 134452

Brush Gear

Replacing: 54244775, SSP0003

Servicing: M50, 26338A, 26338B, 26338D, 26338F, 26339A, 26339B, 26339D, 26339H, 26395A, 26395B, 26395D, 26395E

ID 45.10, OD 81.55, Height 25.90  
Brush set: HC-CARGO LASX314. Brush spring: HC-CARGO 132209.


### 134476

Brush Gear

Servicing: M35J, 5M90, 8M90, 9M90, 25016, 25024, 25041, 25061, 25062, 25063, 25065, 25075, 25087, 25088, 25089, 25097, 25138, 25147

ID 20.80, OD 52.00, Height 22.10  
Brush set: HC-CARGO LASX37-38-39. Brush spring: HC-CARGO 134040.





### 134852 Brush Gear

Replacing: 054293699010, 054293877010, 054293878010, 054293879010, 54291804, 54293699, 54293877, 54293878

Servicing: M79, 063226601010, 063226604010, 063226606010, 063226607010, 063226609010, 063226614010, 063226619010  
ID 32.25, OD 67.80, Height 20.00  
Brush set: HC-CARGO 140896, 140897, 140898. Brush spring: HC-CARGO 135119.



### 134853 Brush Gear

Replacing: 054291125010, 054292603010, 54290789, 54290790, 54291125, 54292603

Servicing: M78R, 063226800010, 063226801010, 063226803010, 063226804010, 063226814010, 063226820010, 063226823010  
ID 33.00, OD 68.25, Height 20.55  
Brush set: HC-CARGO 140511. Brush spring: HC-CARGO 135119.



### 134854 Brush Gear

Replacing: 054290689010, 54290689

Servicing: M80R, 063226908010, 063226912010, 063226921010, 063226923010, 063226935010, 063226936010, 063226937010  
ID 33.00, OD 68.30, Height 26.80  
Brush set: HC-CARGO 140509. Brush spring: HC-CARGO 135119.



### 135242 Brush Gear

Replacing: 072164102010

Servicing: 063217226010

24 Volt, ID 18.15, OD 92.30, Height 24.75  
Neg. brushes. Brush set: HC-CARGO MASX27-284.



### 135467 Brush Gear

Replacing: SSP6000

12 Volt, ID 34.25, OD 74.00, Height 12.85

Neg. brushes. Brush set: HC-CARGO 140349.



### 135565 Brush Gear

Replacing: 083220461010, 083227131010, 083227260010, 54294440, 54294444

Servicing: 063111000010, 063111005010, 063111007010, 063111008010, 063111009010, 063111016010, 063111017010

ID 30.80, OD 61.25, Height 18.35

Brush set: HC-CARGO JSX33-344. Spring: HC-CARGO 138639.



### 135604 Brush Gear

Replacing: 072164101010

Servicing: 063217126010, 063217148010, 063217154010, 063217156010, 063217158010, 063217163010, 063217180010

12 Volt, ID 18.20, OD 90.00, Height 26.00

Neg. brushes. Brush set: HC-CARGO MASX25-264.



### 135822 Brush Gear

Replacing: 054266043010, 54266043, SSP005, TAB102

Servicing: 2M113, 3M113, 063227408010, 063227409010, 063227412010, 063227415010, 063227416010, 063227417010, 063227419010

ID 47.55, OD 88.70, Height 24.45

Neg. brushes. Brush set: HC-CARGO LASX15-164.



### 136204 Brush Gear

Replacing: 083224461010

Servicing: 063102003010, 063102004010, 063102007010, 063102008010, 063222900010, 063222901010, 063223085010  
ID 37.00, OD 67.00, Height 18.15

Neg. brushes. Brush set: HC-CARGO JSX35-374.



### 136734 Brush Gear

Replacing: 072362601010

Servicing: 063216702010, 063216703010, 063216704010, 063216706010, 063216707010, 063216710010, 063216726010

24 Volt



### 138534 Brush Gear

Replacing: 083225326010

Servicing: 063101000010, 063101002010, 063101008010, 063222889010, 063222897010, 063222905010, 063222908010

12 Volt, ID 37.00, OD 67.20, Height 16.60

Neg. brushes. Brush set: HC-CARGO JSX38-412.



### 138537 Brush Gear

Replacing: 085540341010

Servicing: 063221831010, 063222031010, 063222034010, 063222036010, 063222038010, 063222039010, 063222130010

12 Volt, ID 11.00, OD 74.00

2.2 kW. Neg. brushes. Brush set: HC-CARGO JSX31-32.





### 138538 Brush Gear

Replacing: 085540351010

Servicing: 063101003010, 063221830010, 063221832010, 063221834010, 063221890010, 063221892010, 063222030010  
12 Volt, ID 18.45, OD 73.65, Height 6.00  
Neg. brushes. Brush set: HC-CARGO JSX21-22.

#### Brush Gear Parts

#### Brush Holders



### 134798 Brush Holder

Replacing: 074894441010

Servicing: 063114008010

#### Brush Springs



### 132209 Brush Spring

Replacing: 54258814, 54259524, 61194022, TAB100

Servicing: M45G, M50, M127, 26133, 26132A, 26132F, 26132H, 26132J, 26132R, 26133A, 26133J, 26133K, 26133R, 26143A, 26143H

Length 28.70, Height 15.95, Width 7.95, Material Steel



### 137402# Dp Springs

Length 22.60, Height 11.25, Width 5.95, Material Steel

Pkg. 100



### 137404 Dp Springs

Length 27.20, Height 14.35, Width 5.95, Material Steel



Pkg. 10

### 233867 Brush Spring Set

Replacing: LTH112, SSP0037

ID 9.70, OD 12.00, Length 21.00, Width 4.75, Material Steel



### 233868 Brush Spring Set

Replacing: LTH217, SSP0038

OD 11.50, Length 22.70, Width 10.00, Material Steel

#### Various



### 135497 Insulation Kit

Servicing: M50, 26298D

#### Brush Sets



### 140334 Brush Set

Replacing: TAJ100

12 Volt, Length 18.00, Lead length 33.00, Height 11.00, Thickness 7.00



### 140336 Brush Set

Replacing: TAJ101

12 Volt, Length 16.00, Lead length 36.50, Height 11.00, Thickness 7.00, Terminals 1



### 140337 Brush Set

Replacing: TAJ114

12 Volt, Length 19.50, Lead length 51.00, Height 20.00, Thickness 9.00



### 140338 Brush Set

Replacing: TAJ106

12 Volt, Length 16.00, Lead length 43.50, Lead length 2 33.50, Height 14.00, Thickness 7.00



### 140339 Brush Set

Replacing: TAJ103, TAJ111

12 Volt, Length 22.00, Lead length 43.50, Height 15.00, Thickness 8.00



### 140340 Brush Set

Replacing: TAJ102

12 Volt, Length 14.00, Lead length 33.60, Height 16.00, Thickness 6.00





### 140341 Brush Set

Replacing: TAJ105

12 Volt, Length 16.00, Lead length 32.00,  
Height 16.00, Thickness 7.00



### 140347 Brush Set

Replacing: TAJ203

12 Volt, Length 17.00, Lead length 38.00,  
Height 12.00, Thickness 6.80



### 140349 Brush Set

Replacing: TAJ209

12 Volt, Length 17.00, Lead length 37.00,  
Height 10.00, Thickness 7.00



### 140357 Brush Set

Replacing: TAJ400

12 Volt, Length 19.00, Lead length 40.50,  
Height 11.90, Thickness 7.00

Pkg. 5



### 140358 Brush Set

Replacing: TAJ406

12 Volt, Length 22.00, Lead length 50.00,  
Height 20.00, Thickness 8.00



### 140360 Brush Set

Replacing: TAJ401

12 Volt, Length 16.00, Lead length 38.50,  
Height 12.00, Thickness 7.00

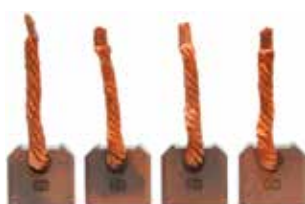


### 140361 Brush Set

Replacing: TAJ407

12 Volt, Length 21.00, Lead length 40.80,  
Height 25.00, Thickness 8.00

Brush set w/ plate: HC-CARGO 141223.



### 140362 Brush Set

Replacing: TAJ403, TAJ410

12 Volt, Length 14.00, Lead length 34.00,  
Height 16.00, Thickness 7.00



### 140363 Brush Set

Replacing: TAJ409

12 Volt, Length 16.00, Lead length 27.00,  
Height 10.00, Thickness 6.50



### 140396 Brush Set

Replacing: TAJ405

12 Volt, Length 13.50, Lead length 23.00,  
Height 16.00, Thickness 7.00



### 140480 Brush Set

Replacing: 60600953

Servicing: M79, 26604, 26607, 26647,  
26660, 26690, 26692, 26693, 26694, 26696,  
27029, 27034, 27045

12 Volt, Length 12.00, Lead length 32.00,  
Lead length 2 64.00/97.00, Height 13.70,  
Thickness 7.00

w/ brush bar: HC-CARGO 140897.



### 140481 Brush Set

Replacing: 60600911, 60600961

Servicing: M79, 26009, 26587, 26600,  
26601, 26602, 26605, 26614, 26616, 26618,  
26619, 26622, 26624, 26626, 26648

12 Volt, Length 12.00, Lead length 75.00,  
Height 13.70, Thickness 7.00

w/ brush bar: HC-CARGO 140898, 140896.



### 140511 Brush Set

Replacing: 60600946, TAB134

Servicing: M78R, 26800D, 26800H, 26801B,  
26801F, 26802B, 26803A, 26803D, 26804A,  
26804E, 26808A, 26809A, 26810A

12 Volt, Length 9.40, Lead length 50.00,  
Lead length 2 27.50, Height 13.80,  
Thickness 6.80



### 140512 Brush Set

Replacing: 60600944, TAB135

Servicing: M78R, 26702E, 26702K, 26717A,  
26812, 26835, 26847, 26702, 26717, 26722

12 Volt, Length 9.40, Lead length 44.00,  
Lead length 2 30.00, Height 13.80,  
Thickness 6.80





### 140513 Brush Set

Replacing: 60600919, TAB138

Servicing: M80R, ACR,

12 Volt, Length 9.40, Lead length 69.00,  
Lead length 2 24.00, Height 19.80,  
Thickness 6.80



### 140603 Brush Set

Replacing: 60600626, 60600688, TAB106

Servicing: M45G, 26400D, 27100A, 27400A,  
27400B, 27402A, 27402B, 27404A, 27404B,  
27431A, 27431B, 27451B, 27451D

12 Volt, Length 22.20, Lead length 90.00,  
Height 19.00, Thickness 7.90



### 140716 Brush Set

Replacing: 60600317, TAB112

Servicing: M127, 27301A, 27301H, 27301K,  
27305A, 27305H, 27305K, 27307A, 27307E,  
27307H, 27309A, 27309E, 27311A

24 Volt, Length 24.50, Lead length 72.50,  
Height 19.90, Thickness 8.95



### 140765 Brush Set

Replacing: 60600920, TAB132

Servicing: M80R, 26903, 26903B, 26903D,  
26907B, 26908A, 26908B, 26909B, 26909D,  
26910D, 26910F, 26911B, 26911D

12 Volt, Length 9.40, Lead length 32.00,  
Height 19.80, Thickness 6.80  
w/ brush bar: HC-CARGO 140509.

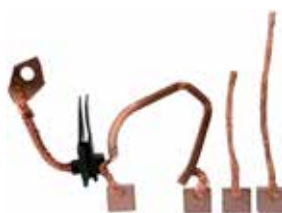


### 140896 Brush Set

Replacing: TAB131

Servicing: M79, 26614B, 26614D, 26619A,  
26619D, 26622A, 26622D, 26602, 26614,  
26618, 26619, 26622, 26689, 27026

12 Volt, Length 12.00, Lead length 55.00,  
Lead length 2 75.00/49.00/25.00,  
Height 13.70, Thickness 7.00  
w/o brush bar: HC-CARGO 140481.



### 140897 Brush Set

Replacing: TAB136

Servicing: M79, 26604E, 26604J, 26606E,  
26606H, 26607E, 26607J, 26631A, 26631D,  
26633A, 26633B, 26645E, 26646B

12 Volt, Length 12.00,  
Lead length 97.50, Lead length 2 64.50,  
Height 13.00, Thickness 7.00



### 140898 Brush Set

Replacing: TAB137

Servicing: M79, 26600E, 26600F, 26601E,  
26601F, 26602D, 26602H, 26605A, 26609F,  
26609J, 26613E, 26613H, 26616A

12 Volt, Length 12.00,  
Lead length 49.00, Lead length 2 72.50,  
Height 13.70, Thickness 7.00  
w/ brush bar: HC-CARGO 140481.

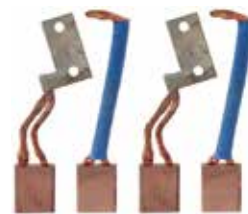


### 142344 Brush Set

Replacing: 271735, TAB125

Servicing: M45G, M113L, 26215

12 Volt, Length 22.20,  
Lead length 91.00, Lead length 2 48.50,  
Height 19.00, Thickness 7.90  
Alternative no.: lasx15-164



### LASX15-164 Brush Set

Replacing: 271735, TAB125

Servicing: M45G, M113, 26132, 26133,  
26072, 26346E, 26173, 26256, 26259, 26281,  
26321, 27419, 27476, 26215

12 Volt, Length 22.20,  
Lead length 91.00, Lead length 2 48.50,  
Height 19.00, Thickness 7.90  
Alternative no.: 142344



### LASX15-274 Brush Set

Replacing: LASX15-274

Servicing: M45G, M113, 26125, 26126,  
26156, 26163, 26165, 26267, 26286, 26373,  
27413, 27415, 27432, 27463, 27464, 27479

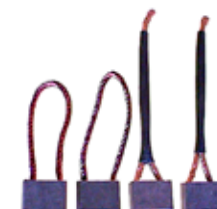
12 Volt, Length 22.20, Lead length 94.00,  
Lead length 2 62.00/52.00,  
Height 19.00, Thickness 7.90



### LASX17-62/1 Brush Set

Servicing: M35G, 25038, 25038E, 25038H,  
25059A, 25059F, 25079A, 25079J, 25083A,  
25083H, 25085A, 25085B, 25088A

12 Volt, Length 14.20, Lead length 109.00,  
Lead length 2 59.00/45.00,  
Height 15.90, Thickness 6.40



### LASX2-34 Brush Set

Servicing: M418G, 25521F, 25533A, 25533E,  
25555A, 25555F, 25578A, 25578B, 25590A,  
25590B, 25593A, 25593B, 25594A

12 Volt, Length 13.50,  
Lead length 98.00, Lead length 2 50.00,  
Height 19.00, Thickness 8.80





### LASX22 Brush Set

Replacing: 255659, 270005, TAB127

Servicing: M418G,

12 Volt, Length 13.50,  
Lead length 96.00, Height 19.00,  
Thickness 8.80



### LASX314 Brush Set

Replacing: 54258592, TAB119

Servicing: M50, 26211A, 26211L, 26211M,  
26211T, 26211U, 26291A, 26291D, 26291E,  
26338A, 26338B, 26338D, 26338F

12 Volt, Length 22.20,  
Lead length 63.00, Height 19.00,  
Thickness 7.90



### LASX364 Brush Set

Replacing: 54259517, TAB118

Servicing: M50, M127, 27401, 26211, 26213,  
26227, 26265, 26273, 26274, 26284, 26284E,  
26291, 26294, 26311, 26312, 26316

12 Volt, Length 26.00,  
Lead length 67.50, Height 20.00,  
Thickness 9.00



### LASX37-38-39 Brush Set

Replacing: 54242194

Servicing: M35J, -K, 25137A, 25137E,  
25137F, 25137N, 25145A, 25145H, 25145J,  
25146A, 25146J, 25146K, 25147A, 25147H

12 Volt, Length 16.00,  
Lead length 109.00,  
Lead length 2 83.00/43.00, Height 11.60,  
Thickness 3.50/9.50



### LASX40-412P Brush Set

Replacing: 54244848, 60600056, TAB117

Servicing: M35J, -K,

12 Volt, Length 16.00,  
Lead length 131.00,  
Lead length 2 73.00/36.00, Height 11.60,  
Thickness 3.50/9.50



### LASX424 Brush Set

Replacing: 54244979

Servicing: M50, M127, 26227A, 26227Q,  
26227R, 26227V, 26234A, 26234J, 26234K,  
26246A, 26246L, 26246M, 26265J, 26265M

12 Volt, Length 25.00,  
Lead length 71.00, Height 20.00,  
Thickness 9.00



### LASX43-442 Brush Set

Replacing: 54246258, TAB124

Servicing: M100, 25629A, 25629E, 25634A,  
25634E, 25638A, 25638E, 25642A, 25642F,  
25643A, 25643J, 25644A, 25644K

12 Volt, Length 17.50,  
Lead length 109.00, Lead length 2 53.50,  
Height 13.30, Thickness 4.70/10.30



### LASX44-452P Brush Set

Replacing: 60600196, TAB116

Servicing: M100, 25631A, 25631D, 25636B,  
25637B, 25659A, 25659D, 25668A, 25668D,  
25669A, 25670A, 25670B, 25676A

12 Volt, Length 17.50,  
Lead length 143.50,  
Lead length 2 96.00/45.00, Height 13.30,  
Thickness 4.70/10.30



### LASX5-62/1P Brush Set

Replacing: 251108, TAB128

Servicing: M35G, 25022, 25071, 25079,  
25083, 25085, 25105, 25112

12 Volt, Length 14.20, Lead length 109.00,  
Lead length 2 59.00/45.00, Height 15.90,  
Thickness 6.40



### LASX73-412/1P Brush Set

Replacing: 60600767, TAB103

Servicing: M35J, 25326A, 25326E, 25331A,  
25331D, 25332A, 25332E, 25333A, 25335A,  
25335B, 25336A, 25337A, 25337B

12 Volt, Length 16.00, Lead length 97.00,  
Lead length 2 52.00/40.00, Height 11.60,  
Thickness 3.50/9.50

## Bushings

Pkg. 10



### 140052 Bushing

Replacing: 250626, TCB127

ID 12.74, OD 15.85, Length 19.00,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140053 Bushing

Replacing: 255491, TCB123

Servicing: 37MT, 25521F, 25533A, 25533E,  
25555A, 25555F, 25578A, 25578B, 25598A,  
25605A, 25605D, 25607A, 25609A

ID 15.99, OD 19.15, Length 18.90,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140053



Pkg. 10



### 140054 Bushing

Replacing: 251477, TCB125

Servicing: 25038, 25038E, 25038H, 25079A, 25079J, 25083A, 25083H, 25085A, 25085B, 25088A, 25088J, 25105A

ID 12.76, OD 15.84, Length 12.70,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140056 Bushing

Replacing: 54241267

Servicing: 25016, 25024, 25041, 25061, 25062, 25063, 25065, 25075, 25087, 25088, 25089, 25097, 25118, 25138

ID 11.15, OD 15.85, OD/collar 26.20,  
Length 16.30, Height/collar 2.40,  
Type Standard, Material Copper alloy, Pin w/o  
Alternative no.: B140056

Pkg. 10



### 140057 Bushing

Replacing: 54252054, TCB114

Servicing: 25130A, 25130B, 25140A, 25140E, 25143A, 25143E, 25144A, 25144B, 25151A, 25152A, 25154A, 25154F

ID 12.08, OD 15.07, Length 16.90,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140057

Pkg. 10



### 140058 Bushing

Replacing: 54252236, TCB113

Servicing: 26072, 26132, 26132H, 26132J, 26132R, 26133K, 26133R, 26143J, 26143Q, 26146H, 26146N, 26147J

ID 14.06, OD 17.06, Length 19.70,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140058

Pkg. 10



### 140059 Bushing

Replacing: 253316, TCB124

Servicing: 25079A, 25079J, 25083A, 25083H, 25085A, 25085B, 25088A, 25088J, 25105A, 25105B, 25112A, 25112B

ID 19.11, OD 20.70, Length 17.90,  
Type Standard, Material Copper, Pin w/o



### 140102 Bushing Kit

Replacing: 54244773, TCB117

Servicing: M35J INERTIA, BMW,, 25147A, 25147H, 25149B, 25149H, 25150A, 25150E, 25241A, 25241B, 25242A, 25242D

ID 19.15, OD 22.20, OD/collar 25.35,  
Length 20.35, Height/collar 2.50,  
Type Mount., Material Copper, Pin w/o



### 140103 Bushing Kit

Replacing: 54245343, TCB116

Servicing: M35J, M100 8M90, -9M90, 25113A, 25113F, 25130A, 25130B, 25137A, 25137E, 25137F, 25137N, 25140A, 25140E, 25143A, 25143E

ID 11.20, OD 15.85, OD/collar 26.15,  
Length 12.35, Height/collar 2.85,  
Type Mount., Material Copper, Pin w/o



### 140104 Bushing Kit

Replacing: 54243853, 61194019, SSP0020, TCB118

Servicing: M45, M50, 26125F, 26208A, 26208E, 26211A, 26211L, 26211M, 26211T, 26211U, 26213A, 26215A, 26215F, 26215H

Type Standard  
Bushing kit

Pkg. 10



### 140144 Bushing

Replacing: 271364, TCB120

Servicing: 26132A, 26132F, 26133A, 26133J, 26143A, 26143H, 26145A, 26145F, 26146A, 26146F, 26147A, 26147H

ID 12.76, OD 15.91, Length 16.50,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140212 Bushing

Replacing: 54252494, TCB112

Servicing: 26143J, 26143Q, 26172A, 26172D, 26172E, 26172L, 26132, 26145, 26154, 26167, 26200, 26219, 26220

ID 25.47, OD 28.65, Length 21.60,  
Material Copper, Pin w/o

Pkg. 5



### 140215 Bushing

Replacing: 54246200

Servicing: 35MT

ID 14.35, OD 17.55, Length 19.00,  
Material Copper, Pin w/o



### 140528 Bushing Kit

Replacing: 60600914, TCB129

Servicing: 26600E, 26600F, 26601E, 26601F, 26602D, 26602H, 26604E, 26604J, 26605A, 26606E, 26606H, 26607E





### 140590 Bushing Kit

Replacing: 60600306, TCB106

Servicing: 26372A, 26372B, 26385A, 26385B, 26390A, 26390B, 26390E, 26394A, 26394D, 26437A, 26437B, 27100A



### 140592 Bushing Kit

Replacing: 60600178, TCB108

Servicing: 25148A, 25148K, 25198A, 25238A, 25238E, 25239A, 25239F, 25265A, 25265F, 25276A, 25276E, 25295A

Type Standard, Material Brass, Pin w/o  
OD:15.85, ID:11.19, L:18.84. & OD:15.90,  
ID:11.12, L:12.73. & OD:22.26, ID:19.08,  
L:20.50.



### 140593 Bushing Kit

Replacing: 60600047, TCB110

Servicing: 26269A, 26269F, 26269H, 26269L, 26327A, 26327H, 26346A, 26346D, 26346E, 26346K, 26381A, 26381D



### 140594 Bushing

Replacing: 271733

Servicing: 26173

ID 25.50, OD 28.66, Length 17.30,  
Type Standard, Material Copper, Pin w/o



### 140625 Bushing

ID 12.03, OD 13.50, Length 18.79,  
Material Copper, Pin w/o  
Alternative no.: B140625



### 140646 Bushing Kit

Replacing: 60600924, TCB130

Servicing: 26701A, 26701J, 26702E, 26702K, 26707A, 26707L, 26708, 26713A, 26713D, 26715B, 26716B, 26717A



### 140656 Bushing

Replacing: 54257833

Servicing: 26025007A, 26925196A, 26925196B, 26211, 26213, 26227, 26284, 26284E, 26291, 26312, 26330, 26336

ID 12.75, OD 19.14, Length 14.00,  
Material Copper, Pin w/o  
Alternative no.: B140656



### 140657 Bushing

Replacing: 54256132

Servicing: 26148, 26186, 26196, 26213, 26233, 26264, 26267, 26273, 26283, 26286, 26330, 26365, 26379, 26391A

ID 12.80, OD 15.95, Length 14.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140657



### 140658 Bushing

Replacing: 54255966

Servicing: 26025007A, 26925196A, 26925196B, 26215, 26288, 26339F, 26395F

ID 17.07, OD 21.05, Length 22.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140658



### 140659 Bushing

Replacing: 54256151

Servicing: 26148, 26186, 26196, 26211, 26213, 26227, 26233, 26264, 26273, 26283, 26284, 26284E, 26286, 26291

ID 28.56, OD 31.77, OD/collar 38.10,  
Length 13.00, Height/collar 2.35,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140659



### 140661 Bushing

Servicing: 25016, 25024, 25041, 25061, 25062, 25063, 25065, 25075, 25087, 25088, 25089, 25097, 25138, 25147

ID 19.10, OD 22.25, OD/collar 25.40,  
Length 20.50, Height/collar 2.50,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140661



### 140662 Bushing

Servicing: 25326, 25338, 26267

ID 12.07, OD 15.05, Length 14.05,  
Type Standard, Material Copper, Pin w/o



Pkg. 10



### 140663# Bushing

Replacing: 54264884

Servicing: 25290, 25326, 25338, 25339, 25355

ID 11.17, OD 15.85, OD/collar 26.20, Length 12.60, Height/collar 3.00, Material Copper, Pin w/o

Pkg. 10



### 140665 Bushing

Servicing: 26009, 26602, 26605, 26607, 26616, 26618, 26667, 26681, 26689, 26692, 26696, 26699, 26801, 26809

ID 12.05, OD 15.10, Length 7.80, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140665

Pkg. 10



### 140666# Bushing

ID 11.18, OD 15.85, Length 18.85, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140688 Bushing

Servicing: 27564, 27595

ID 14.32, OD 17.62, Length 22.20, Material Copper, Pin w/o  
Alternative no.: B140688

Pkg. 10



### 140746 Bushing

Replacing: 270038, TCB122

Servicing: M45G, 25521F, 25533A, 25533E, 25555A, 25555F, 25578A, 25578B, 25598A, 25605A, 25605D, 25607A, 25609A

ID 22.35, OD 25.50, Length 33.60, Material Copper, Pin w/o

Pkg. 10



### 141013# Bushing

Servicing: M78, M80R, 26009, 26805, 26806, 26807, 26809, 26810, 26813, 26815, 26816, 26820, 26823, 26824, 26827, 26829

ID 16.50, OD 20.00, OD/collar 22.00, Length 8.00, Height/collar 1.50, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 141014 Bushing

Servicing: M78, M80R, 26009, 26715, 26801, 26809, 26810, 26813, 26815, 26816, 26823, 26824, 26830, 26831, 26832, 26833

ID 11.14, OD 14.34, OD/collar 17.50, Length 9.00, Height/collar 1.50, Type Standard, Material Copper, Pin w/o

Pkg. 100



### B140053# Bushing

Replacing: 255491, TCB123

ID 15.99, OD 19.15, Length 18.90, Material Copper, Pin w/o  
Alternative no.: 140053

Pkg. 100



### B140056 Bushing

Replacing: 54241267

ID 11.15, OD 15.85, OD/collar 26.20, Length 16.30, Height/collar 2.60, Material Copper alloy, Pin w/o  
Alternative no.: 140056

Pkg. 100



### B140057 Bushing

Replacing: 54252054, TCB114

ID 12.08, OD 15.07, Length 16.90, Material Copper, Pin w/o  
Alternative no.: 140057

Pkg. 100



### B140062 Bushing

Replacing: 227713, 227818

ID 15.10, OD 18.20, Length 22.15, Material Copper, Pin w/o  
Alternative no.: 140062

Pkg. 100



### B140625 Bushing

ID 12.04, OD 13.52, Length 18.80, Material Copper, Pin w/o  
Alternative no.: 140625





Pkg. 100

### B140656 Bushing

Replacing: 54257833

Servicing: 26215, 26288, 26339F, 26395F  
ID 12.75, OD 19.14, Length 14.00,  
Material Copper, Pin w/o  
Alternative no.: 140656



Pkg. 100

### B140657 Bushing

Replacing: 54256132

ID 12.80, OD 15.95, Length 14.00,  
Material Copper, Pin w/o  
Alternative no.: 140657



Pkg. 100

### B140658 Bushing

Replacing: 54255966

Servicing: 26215, 26288, 26339F, 26395F  
ID 17.07, OD 21.05, Length 22.00,  
Material Copper, Pin w/o  
Alternative no.: 140658



Pkg. 100

### B140659 Bushing

Replacing: 54256151

Servicing: 26025007A, 26925196A,  
26925196B, 26215, 26288, 26339F, 26395F  
ID 28.56, OD 31.77, OD/collar 38.10,  
Length 13.00, Height/collar 2.40,  
Material Copper, Pin w/o  
Alternative no.: 140659



Pkg. 100

### B140661 Bushing

ID 19.10, OD 22.25, OD/collar 25.40,  
Length 20.50, Height/collar 2.50,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: 140661



Pkg. 100

### B140665 Bushing

ID 12.02, OD 15.07, Length 7.80,  
Material Copper, Pin w/o  
Alternative no.: 140665



Pkg. 100

### B140688 Bushing

ID 14.32, OD 17.62, Length 22.20,  
Material Copper, Pin w/o  
Alternative no.: 140688

## Bearings

### Needle Bearings



Pkg. 10

### 140120 FAG Needle Bearing

Replacing: 54160827, 54207267, UMB113

Servicing: 10SI, 12SI, 15SI, 17SI, 27SI, A127,  
24169A, 54022053, 54022057, 54022142,  
54022147, 54022148, 54022178, 54022183,  
54022238, 54022264

ID 17.00, OD 23.80, Height 17.40  
Closed end.



Pkg. 10

### 140240 FAG Needle Bearing

Replacing: UMB115, UMB129

Servicing: 10DN SERIES, A127 W/ VACUUM  
PUMP, 24188A, 24188C, 24230A, 24230B,  
24264A, 24246A, 24256A, 24256C, 24273A,  
24274A, 24277A, 24294A

ID 17.00, OD 23.80, Height 17.40  
Open end.

## Repair Kits



### 233045 Repair Kit

Servicing: M50, M127, 26265, 26273, 26365,  
26411, 27408, 27432, 27474

Incl.: HC-CARGO 130879, 131298, 4x HC-  
CARGO 132209, 135500, 140104, LASX364.

## Sundry Parts

### Various



### 131298 Seal Kit

Replacing: 54244971, 60600020, 61194013,  
61194014, SSP0014, SSP0015

Servicing: M50, M127, 26273A, 26273D,  
26273E, 26273F, 26273H, 26273M, 26274A,  
26274D, 26274E, 26274F, 26274H, 26274N

Pkg. 10



### 132771 Insulator

Servicing: M35G



Pkg. 10



### 133914 Star Washer

Replacing: TLB185

Servicing: M35J, K, M78, M79, 5M90, 25137A, 25137E, 25137F, 25137N, 25145A, 25145H, 25145J, 25146A, 25146J, 25146K, 25157A, 25157J

Pkg. 5



### 134096 Dust Cover

Replacing: 2M100, 3M100,

ID 35.00, OD 24.00, Height 14.50

Pkg. 10



### 134459 Brass Nut

Replacing: 172580, SSP0023

Servicing: M35J

Thread 1/4" UNFx28, Height 3.95, Spanner size 7.00/16.00, OD 11.00, Material Brass, Lock nut w/o, Washer w/o

Pkg. 10



### 134460 Brass Nut

Servicing: M35J

Thread M6, OD 10.00, Height 4.90, Material Brass, Lock nut w/o, Washer w/o

Pkg. 10



### 134794 Adaptor

Servicing: A127, 24206, 24220, 24233, 24257, 24271, 54022158, 54022160, 54022197, 54022236, 54022305, 54022307  
Total length 27.50, Thread size M5



### 135122 Screw

Servicing: M35, M45, M50, M418, 26025007A, 26925196B, 26925196A

Thread 2 3/8" W, Length 7.40, Total length 14.65, Shaft w/, Washer w/o

Pkg. 5



### 135123# Insulator

Replacing: M79, 26812, 26835, 26847



### 135500 Parts Kit

Replacing: 54243855, TLB189

Servicing: M50, M127, 25128A, 25128B, 25130A, 25130B, 26211A, 26211L, 26211M, 26211T, 26211U, 26227R, 26227V, 26234A  
Metric.



### 135501 Terminal Kit

Replacing: M45, M50, M127, 26298D

Pkg. 5



### 136272 Gasket

Replacing: M45G,

Length 352.90, Thickness 1.95, Width 39.80

Pkg. 5



### 136275 Gasket

Replacing: M45G,

Length 289.00, Thickness 0.50, Width 27.80

Pkg. 5



### 136277 Gasket

Replacing: M50, 26298D

ID 36.00, OD 58.00, Thickness 0.30

Pkg. 5



### 136279 Gasket

Servicing: M50, 26025007A, 26925196B, 26925196A, 26298D

Length 283.35, Thickness 0.35, Width 38.10

Pkg. 10



### 137532 Nut

Replacing: 54132580, SSP0026

Servicing: M35J, 26379, 27541, 27565, 26125, 26126, 26145, 26148, 26154, 26156, 26163, 26165, 26167, 26186, 26196

Thread 1/4" BSF, OD 13.25, Height 4.75, Material Steel, Lock nut w/o, Washer w/o

Pkg. 5



### 138138 Terminal Bolt

Replacing: 256746, SSP0024

Servicing: M45G, 26125, 26126, 26311, 26341, 26156, 26163, 26165, 26342, 26360, 26373, 26431, 27564, 27595

Total length 53.00, Thread length 34.65, Thread size M6



## Armatures

12 V



### 130202 Armature

Replacing: 54292953

Servicing: M45G, 63227408, 63227409, 63227412, 63227415, 63227416, 63227417, 63227470, 63227474, 63227475, 63227478

12 Volt, 2.1 kW, Bar dist. 3.00, Bar cross dist. 49.60, Shaft length 303.60, Bar length 8.60, Height/bar 6.40, Height/bar lane 26.30, Core thickness 74.50, No./bars 23, No./splines 12, Rotation CW



### 130386 Armature

Replacing: 72386801, 72386803

Servicing: 63216808, 63216814, 63216816, 63216825, 63216826, 63216827, 63216852, 63216873, 63216876, 63216898

12 Volt, 3.5 kW, Bar dist. 2.00, Bar cross dist. 46.80, Shaft dia. 20.00, Shaft length 321.00, Bar length 10.45, Height/bar 5.25, Height/bar lane 29.80, Core thickness 75.00, No./bars 33, No./splines 12, Rotation CW



### 130945 Armature

Replacing: 74869671, 74870031

Servicing: 63220108, 63220137, 63220138, 63201000, 63201001, 63201002, 63201003, 63201004, 63201005, 63201030

12 Volt, 0.5 kW, Bar dist. 2.50, Bar cross dist. 31.70, Shaft dia. 15.90, Shaft length 230.00, Bar length 4.30, Height/bar 4.40, Height/bar lane 19.65, Core thickness 51.75, No./bars 19, No./splines 2, Rotation CCW



### 131472 Armature

Replacing: 72163701

Servicing: 63217126, 63217148, 63217154, 63217156, 63217158, 63217163, 63217186, 63217188, 63217407, 63217408

12 Volt, 2.5 kW, Bar dist. 3.00, Bar cross dist. 45.20, Shaft dia. 19.95, Shaft length 292.00, Bar length 11.55, Height/bar 5.90, Height/bar lane 20.70, Core thickness 75.00, No./bars 23, No./splines 12, Rotation CW



### 131656 Armature

Replacing: 54247383

Servicing: M45G, 63227419

12 Volt, 2.1 kW, Bar dist. 3.00, Bar cross dist. 49.60, Shaft length 331.00, Bar length 8.60, Height/bar 6.40, Height/bar lane 26.30, Core thickness 74.45, No./bars 23, No./splines 12, Rotation CW



### 131670 Armature

Replacing: 72382301

Servicing: 63217101, 63217104, 63217105, 63217106, 63217107, 63217110, 63217116, 63217117, 63217118, 63217119

12 Volt, 2.5 kW, Bar dist. 3.00, Bar cross dist. 45.20, Shaft dia. 20.00, Shaft length 296.00, Bar length 11.55, Height/bar 5.90, Height/bar lane 20.70, Core thickness 75.00, No./bars 23, No./splines 12, Rotation CW



### 132401 Armature

Replacing: 54268555

Servicing: M127, 63227512, 63227533, 63227575, 63227601, 63227604

12 Volt, 2.8/2.9 kW, Bar dist. 3.65, Bar cross dist. 54.15, Shaft dia. 28.38, Shaft length 333.00, Bar length 12.00, Height/bar 6.90, Height/bar lane 25.00, Core thickness 83.96, No./bars 21, No./splines 12, Rotation CW



### 132817 Armature

Replacing: 74894221, 74899021

Servicing: 63114008, 63114010, 63221831, 63222030, 63222031, 63222034, 63222036, 63222038, 63222039, 63222130

12 Volt, 2.2 kW, Bar dist. 2.91, Bar cross dist. 38.61, Shaft length 134.20, Bar length 4.88, Height/bar 5.55, Height/bar lane 25.43, Core thickness 58.95, No./bars 25, No./teeth 11, Rotation CW/CCW



### 133368 Armature

Replacing: 54292376

Servicing: M127, 63227500, 63227501, 63227502, 63227510, 63227518, 63227541, 63227547, 63227553, 63227554, 63227559

12 Volt, 2.8 kW, Bar dist. 3.65, Bar cross dist. 54.15, Shaft dia. 28.40, Shaft length 302.40, Bar length 12.00, Height/bar 6.90, Height/bar lane 25.00, Core thickness 84.00, No./bars 21, No./splines 12, Rotation CW





### 133567 Armature

Replacing: 83220031, 83225372

Servicing: 63222831, 63222832, 63222833, 63222836, 63222837, 63222838, 63223031, 63223032, 63223033, 63223034

12 Volt, 1.0 kW, Bar dist. 2.00, Bar cross dist. 34.00, Shaft length 216.30, Bar length 4.65, Height/bar 4.00, Height/bar lane 18.75, Core thickness 51.45, No./bars 21, No./splines 12, Rotation CW



### 133955 Armature

Replacing: 72162601, 72169501

Servicing: 63216731, 63216831, 63216852, 63216884, 63216896, 63616896, 63216817, 63216818, MT68AD, MT68LC

12 Volt, 3.5 kW, Bar dist. 2.00, Bar cross dist. 46.80, Shaft dia. 19.90, Shaft length 317.50, Bar length 10.45, Height/bar 5.25, Height/bar lane 29.80, Core thickness 74.95, No./bars 33, No./splines 12, Rotation CW



### 135620 Armature

Replacing: 83225127, 83225727, 83226536, 83226811, 83227678, 86226811

Servicing: 63101000, 63101002, 63101008, 63102003, 63102004, 63102007, 63102008, 63222889, 63222900, 63222901

12 Volt, 1.0 kW, Bar dist. 2.00, Bar cross dist. 34.00, Shaft length 202.40, Bar length 4.65, Height/bar 4.00, Height/bar lane 18.75, Core thickness 51.45, No./bars 21, No./splines 12, Rotation CW



### 231159 Armature

Replacing: 83226316

Servicing: 63113001, 63113002, 63113003, 63113004, 63193001

12 Volt, 1.8 kW, Bar dist. 2.31, Bar cross dist. 29.91, Shaft length 130.50, Bar length 4.39, Height/bar 3.95, Height/bar lane 20.73, Core thickness 48.50, No./bars 21, No./teeth 11



### 235662 Armature

Servicing: 63280040

12 Volt, 3.0 kW, Bar dist. 2.60, Bar cross dist. 36.37, Shaft length 147.00, Bar length 5.15, Height/bar 6.90, Height/bar lane 24.22, Core thickness 59.00, No./bars 25, No./teeth 14

## 24 V



### 131470 Armature

Replacing: 72163201

Servicing: 63216731, 63216741, MT67AA, MT67AD, MT67CB

24 Volt, 4.0 kW, Bar dist. 2.00, Bar cross dist. 46.80, Shaft dia. 20.00, Shaft length 317.55, Bar length 10.45, Height/bar 5.25, Height/bar lane 29.80, Core thickness 75.00, No./bars 33, No./splines 12, Rotation CW

## Field Coils

### 12 V



### 130196 Field Coil

Replacing: 54266044

Servicing: M45G, 63227408, 63227409, 63227412, 63227415, 63227416, 63227417, 63227419, 63227470, 63227474, 63227475

12 Volt, 2.1 kW, Lead length 39.00, Height 118.00, Width 231.55, Internal height 75.65, Inner width 28.00, Brush gear w/o



### 130325 Field Coil

Replacing: 70494803, 70494804

Servicing: 63213853, 63213855, 63216225, 63216233

12 Volt, 3.0 kW, Height 116.00, Internal height 71.25, Inner width 28.65, Brush gear w/o



### 131314 Field Coil

Replacing: 60737105

12 Volt, 2.3/2.7 kW, Lead length 53.85, Height 113.55, Internal height 72.85, Inner width 33.00, Brush gear w/o



### 132400 Field Coil

Replacing: 54294392

Servicing: M127, 63227501, 63227502, 63227510, 63227512, 63227518, 63227533, 63227541, 63227547, 63227553, 63227554

12 Volt, 2.8 kW, Height 127.90, Width 279.45, Internal height 74.40, Inner width 30.70, Brush gear w/o  
Brush set: HC-CARGO LASX364.




**135200** Field Coil

Replacng: 54294400

Servicing: M127, 63227500, 63227569

12 Volt, 2.8 kW, Height 127.20,  
Width 287.00, Internal height 74.75,  
Inner width 30.75, Brush gear w/o

24 V


**131473** Field Coil

Replacng: 72165901

Servicing: 63216731, 63216741, MT67AA,  
MT67AD, MT67CB

24 Volt, 4.0 kW, Height 122.55,  
Internal height 88.40, Inner width 28.65,  
Brush gear w/o

### C.E. Brackets


**136163** ★ C.E. Bracket

Manufacturer: Marelli

Replacng: 72163903, 72163904

Servicing: 63217148, 63217410, 63216741,  
63216896, 63217158, MT67CB, MT68LC,  
MT71DB, MT74L

ID 105.00, OD 114.00, Height 56.00


**136975** ★ C.E. Bracket

Manufacturer: Marelli

Replacng: 72163902, 72313961

Servicing: 63217154, MT71TA

ID 106.00, OD 114.25, Height 55.50


**137719** C.E. Bracket

Replacng: 54242829

Servicing: M50, M127, 63227502, 63227510,  
63227512, 63227533, 63227559, 63227578,  
63227583, 63227594, 63227599, 63227601

**138346** C.E. Bracket

Replacng: 54263852, 54265874

Servicing: 2M113, 63227409, 63227412,  
63227415, 63227416, 63227417, 63227475,  
63227478, 63227486, 63227491, 63227419

ID 108.00, OD 114.00, Height 56.00


**235301** C.E. Bracket

Replacng: 74899041, 83225622, 83226713

Servicing: 63114008, 63114010, 63114017,  
63222005, 63222035

ID 91.50, OD 96.50, Height 53.50

Bushing: HC-CARGO 140430.

### D.E. Brackets


**136203** ★ D.E. Bracket

Manufacturer: Marelli

Replacng: 72143101, 72143103, 72143104,  
72143105, 72143106, 72143107, 72362307,  
72362308

Servicing: 63217121, 63217125, 63217201,  
63216826, 63216827, 63216831, 63217225

Type Closed


**136876** D.E. Bracket

Replacng: 54269202

Servicing: M50, M127, 63227512

Type Closed


**136878** D.E. Bracket

Replacng: 54265121, 85541483

Servicing: M50, M127, 63227510, 63227578,  
63227583, 63227594, 63227599, 63227572,  
63227591

Type Closed


**136879#** D.E. Bracket

Replacng: 54265377

Servicing: M50, M127, 63227575

Type Closed


**138351** D.E. Bracket

Replacng: 54293977, 85541456, 85541472

Servicing: M50, M127, 63227547, 63227541,  
63227568, 63227565, 63227590, 63227598

Type Closed


**138434** D.E. Bracket

Replacng: 54293976, 85541453

Servicing: 63227502, 63227518, 63227570,  
63227574, 63227585, 63227588, 63227592,  
63227596

Type Closed





### 139032 D.E. Bracket

Replacing: 85541336, 85541465, 85541468

Servicing: M127, 63227510, 63227553, 63227564, 63227565, 63227571, 63227588, 63227590, 63227596, 63227600, 63227602

Type Closed



### 139629 D.E. Bracket

Replacing: 83226888

Servicing: 63114014

Type Closed



### 235302 D.E. Bracket

Servicing: 63114017, 63222005

Type Closed



### 235304 D.E. Bracket

Replacing: 83225846, 83226116

Servicing: 63102003, 63102004

Bushing: HC-CARGO 140050.

## Solenoids

### 12 V

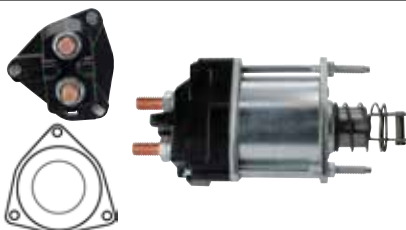


### 130281 Solenoid

Replacing: 63631425, 636331425, IE14AA

Servicing: 63213853, 63213855, 63216225, 63216233

12 Volt, B+ Cable, OD 85.90, Total length 93.80, No./mount. holes 2



### 130367 Solenoid

Replacing: 63600507

Servicing: 63222400, 63222430, 63222700, 63222701, 63222730, 63222731

12 Volt, B+ M8, ID/cover 24.80, OD 57.90, OD/cover 49.70, Length 63.70, Total length 143.70, Height/B+ 18.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 18.50, No./mount. holes 3, No./terminals 3



### 130373 Solenoid

Replacing: 63602200, 63602290

Servicing: 63224600, 63224602, 63224691, M125M3-Z9(3/12)

12 Volt, B+ M8, ID/eye 6.50, OD 68.45, OD/cover 67.00, Total length 179.55, Height/B+ 20.90, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 20.90, No./mount. holes 3, No./terminals 3, Fork lever w/



### 130377 Solenoid

Replacing: 63600400, 63902000

Servicing: 63220700, 63220701, 63220703, 63220721, 63220743, E84-0.8/12V1, E84-0.8/12V3

12 Volt, B+ M8, OD 54.70, OD/cover 64.35, Total length 148.85, Height/B+ 22.40, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 22.40, No./mount. holes 3, No./terminals 3 Cap: HC-CARGO 131325.



### 130848 Solenoid

Replacing: 74870151

Servicing: 63201000, 63201001, 63201002, 63201003, 63201004, 63201005, 63201101, 63220107, 63220108, 63220137

12 Volt



### 130855 Solenoid

Replacing: 76892, 77034, 77892

Servicing: M45G, 63227415, 63227416, 63227419, 63227478, 63227479, 63227481, 63227486, 63227487, 63227489, 63227491

12 Volt, B+ M8, OD 53.80, OD/cover 59.25, Total length 172.75, Height/B+ 21.00, Terminal 15A/width 13.45, Terminal 30H 9.40, Terminal 30H/width 15.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 21.00, No./mount. holes 2, No./terminals 3 Cap: HC-CARGO 131274.



### 131112 Solenoid

Replacing: 63633801, 63633806, 63633825, 63693801, 79036683, 85540011, 85540221, IE38AAA

Servicing: 63216827, 63216833, 63216874, 63216898, 63217118, 63217119, 63216815, 63216831

12 Volt, B+ M10, OD 61.00, Length 69.35, Total length 159.00, Height/B+ 20.70, Terminal 50 6.30, Coil bolt M10, No./mount. holes 3, No./terminals 3, Bracket type Crimp Cap: HC-CARGO 131329.






### 131143 Solenoid

Replacing: 82368225

12 Volt, B+ M8, ID/cover 27.10, ID/eye 4.80, OD 56.35, OD/cover 49.35, Length 63.00, Total length 140.80, Height/B+ 20.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.60, No./mount. holes 3, No./terminals 3, Fork lever w/

Cap: HC-CARGO 131315.

Alternative no.: 333147 , 333665



### 131437 Solenoid

Replacing: 63600403, 63600483, 63600493, 63600502, 63600504, 63600505, 63600506, 63600508, 85530280, 85530290

Servicing: 63220700, 63222703, 63220408, 63206002, 63206003, 63220701, 63220704, 63220705, 63220706, 63220721

12 Volt, B+ M8, ID/cover 22.00, OD 50.40, OD/cover 50.40, Length 65.15, Total length 127.50, Height/B+ 21.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 23.00, No./mount. holes 3, No./terminals 3

Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.



### 132227 Solenoid

Replacing: 63600802, 85530010, 85540591

Servicing: 63220506, 63220536, 63220901, 63220931, 63221309, 63221338, 63221431

12 Volt, B+ M8, ID/cover 23.20, OD 52.20, OD/cover 50.00, Length 65.00, Total length 148.30, Height/B+ 19.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.85, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.



### 132228 Solenoid

Replacing: 63600901, 63601768, 85530330, 85540001, 85540561

Servicing: 63220932, 63221400, 63221405, 63221430, 63221433, 63221435, 63221438

12 Volt, B+ M8, ID/cover 22.00, OD 50.35, Length 64.90, Total length 127.55, Height/B+ 20.85, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 21.70, No./mount. holes 3, No./terminals 3

Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.



### 132249 Solenoid

Replacing: 63601700, 85540371

Servicing: 63221834, 63221890

12 Volt, B+ M8, ID/cover 23.00, OD 52.30, OD/cover 49.55, Length 73.20, Total length 133.50, Height/B+ 14.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.75, No./mount. holes 3, No./terminals 3, Fork lever w/o



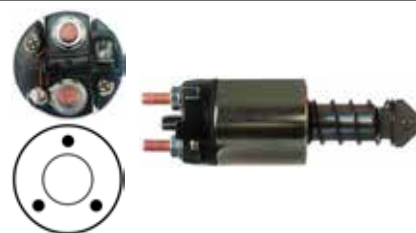
### 132269 Solenoid

Replacing: 76899, 77035, 77134, 77899

Servicing: M127, M45G, M418, 2M113, 63227412, 63227475, 63227477, 63227480, 63227482, 63227485, 63227488, 63227490, 63227543, 63227470

12 Volt, B+ M8, ID/cover 26.20, OD 53.70, OD/cover 60.25, Length 93.45, Total length 178.00, Height/B+ 19.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.55, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 131015.



### 133083 Solenoid

Replacing: 63600900, 85540581

Servicing: 63221831, 63222030, 63222031, 63222034, 63222036, 63222038, 63222039, 63222130, 63222133, 63222134

12 Volt, B+ M8, ID/cover 22.25, OD 50.25, OD/cover 50.30, Length 64.75, Total length 127.00, Height/B+ 21.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 22.70, No./mount. holes 3, No./terminals 3

Cap: HC-CARGO 132229.



### 133300 Solenoid

Replacing: 77175, 77219

Servicing: M79, 63226604, 63226606, 63226607, 63226609, 63226622, 63226647, 63226692, 63226696, 63227025, 63227029

12 Volt, B+ M8, ID/cover 21.30, ID/eye 9.00, OD 46.85, OD/cover 51.40, Length 69.00, Total length 156.40, Height/B+ 18.45, Terminal 15A/width 15.50, Terminal 50 9.40, Coil bolt M6, Coil bolt 2 14.35, No./mount. holes 2, No./terminals 4, Fork lever w/



### 133301 Solenoid

Replacing: 77185, 77221, 77229, 77252

Servicing: M79, 63226601, 63226626, 63226627, 63227006, 63227009, 63227048, 63226648, 63226678, 63226679, 63226680

12 Volt, B+ M8, ID/cover 21.25, ID/eye 9.00, OD 46.85, OD/cover 51.35, Length 68.85, Total length 157.45, Height/B+ 21.00, Terminal 50 M6, Coil bolt M6, Coil bolt 2 14.50, No./mount. holes 2, No./terminals 3, Fork lever w/





### 133531 Solenoid

Replacing: 77121, 77132, 77133, 85541320, 85541322, 85541325

Servicing: M127, 63227528, 63227564, 63227502, 63227518, 63227541, 63227547, 63227565, 63227568, 63227585, 63227588

12 Volt, B+ M8, ID/cover 25.90, ID/eye 5.45, OD 53.85, OD/cover 60.00, Length 92.35, Total length 181.00, Height/B+ 13.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.00, No./mount. holes 2, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 131015.

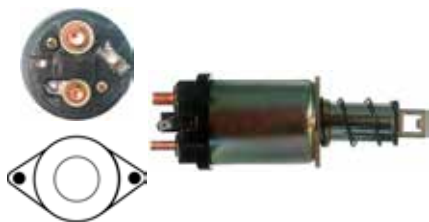


### 133566 Solenoid

Replacing: 063601962000, 85540231, 85540471, 85540473, 85540991

Servicing: 63221832, 63221892, 63222831, 63222832, 63222833, 63222836, 63222837, 63223031, 63223032, 63222897

12 Volt, B+ M8, ID/cover 23.20, ID/eye 6.75, OD 52.40, OD/cover 50.10, Length 63.00, Total length 141.00, Height/B+ 19.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.00, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 132229.



### 134455# Solenoid

Replacing: 77165

Servicing: M79, 63226649, 63227050, 63226655, 63227012

12 Volt, B+ M8, ID/cover 21.20, ID/eye 9.00, OD 44.75, OD/cover 51.70, Length 65.80, Total length 148.70, Height/B+ 12.35, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 14.15, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 139112.

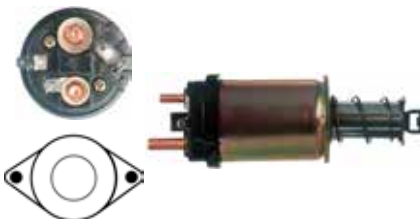


### 134456 Solenoid

Replacing: 77196

Servicing: M78, M80, 63226701, 63226707, 63226717, 63226719, 63226721, 63226722, 63226804, 63226812, 63226842, 63226843

12 Volt, B+ M8, ID/cover 21.25, ID/eye 9.00, OD 46.85, OD/cover 51.60, Length 65.00, Total length 152.60, Height/B+ 21.40, Terminal 15A/width 15.25, Terminal 50 9.40, Coil bolt M6, Coil bolt 2 14.75, No./mount. holes 2, No./terminals 4, Fork lever w/  
Cap: HC-CARGO 131079.



### 134457 Solenoid

Replacing: 77174, 77177, 77204, 77208

Servicing: M78, M80, 63226927, 63226801, 63226800, 63226803, 63226715

12 Volt, B+ M8, ID/cover 21.35, ID/eye 9.00, OD 45.50, OD/cover 51.65, Length 58.15, Total length 151.00, Height/B+ 20.70, Terminal 15A/width 8.10, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 14.25, No./mount. holes 2, No./terminals 4, Fork lever w/  
Cap: HC-CARGO 134430.



### 134886 Solenoid

Replacing: 77136

Servicing: M127/2.8 KW, 63227533, 63227553, 63227554, 63227601

12 Volt, B+ M8, ID/cover 26.25, OD 53.55, OD/cover 60.00, Length 92.30, Total length 182.50, Height/B+ 26.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.65, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 131015.



### 134888 Solenoid

Replacing: 77122, 85541323

Servicing: M127/2.8 KW, 63227575, 63227586, 63327575, 63327586, 63227501, 63227508, 63227567

12 Volt, B+ M10, ID/cover 26.00, OD 53.60, OD/cover 59.70, Length 92.45, Total length 181.45, Height/B+ 24.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.65, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 132270.



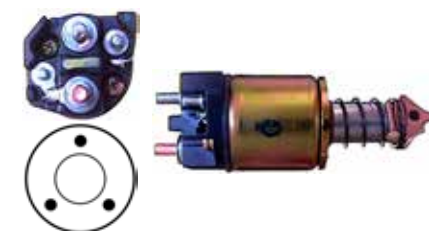
### 134890 Solenoid

Manufacturer: Lucas

Replacing: 77130, 77269

Servicing: M127/2.8 KW, 63227512, 63227587

12 Volt, B+ M10, ID/cover 26.00, OD 53.60, OD/cover 59.70, Length 92.30, Total length 180.50, Height/B+ 24.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 20.50, No./mount. holes 2, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 132270.  
Alternative no.: 335154



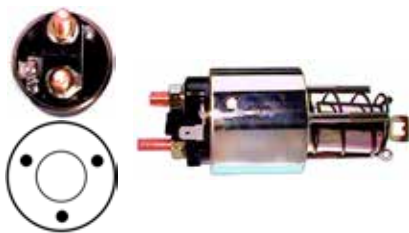
### 136164 Solenoid

Replacing: 85540711

Servicing: 63222035, 63292035

12 Volt, B+ M8, ID/cover 23.20, OD 51.50, OD/cover 54.25, Length 69.20, Total length 131.90, Height/B+ 14.55, Terminal 30H M5, Terminal 30H/width 8.20, Terminal 50 M6, Coil bolt M8, Coil bolt 2 13.70, No./mount. holes 3, No./terminals 4  
Cap: HC-CARGO 231582. w/ 30H terminal.



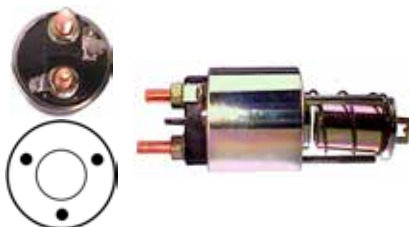


### 137190 Solenoid

Replacing: 85540981, 85541410

Servicing: 63222889, 63222900, 63222936, 63223109

12 Volt, B+ M8, ID/cover 25.25, ID/eye 6.75, OD 53.90, OD/cover 46.80, Length 50.30, Total length 126.55, Height/B+ 23.70, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.40, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 137347.

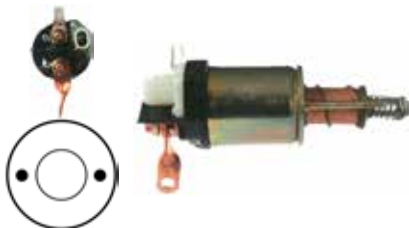


### 137191 Solenoid

Replacing: 85540961, 85541430, 85541820

Servicing: 63222900, 63223085, 63223303

12 Volt, B+ M8, ID/cover 25.20, ID/eye 6.55, OD 53.80, OD/cover 49.00, Length 50.00, Total length 126.70, Height/B+ 26.40, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.00, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 139602.



### 137759 Solenoid

Replacing: 77287

Servicing: M127, 63227576

12 Volt, B+ M8, ID/cover 26.00, OD 53.75, OD/cover 59.85, Length 92.00, Total length 184.70, Height/B+ 18.90, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 24.10, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 139159.



### 137790 Solenoid

Replacing: 63601963, 63601966, 85541020

Servicing: 63223435

12 Volt, B+ M8, ID/cover 23.25, ID/eye 6.70, OD 52.00, OD/cover 52.75, Length 63.20, Total length 141.60, Height/B+ 14.15, Terminal 30H M5, Terminal 30H/width 8.15, Terminal 50 M6, Coil bolt M8, Coil bolt 2 14.00, No./mount. holes 3, No./terminals 4, Fork lever w/ Cap: HC-CARGO 231880. w/ 30H terminal.

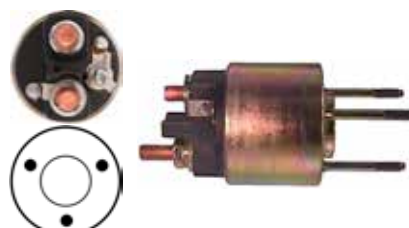


### 138444 Solenoid

Replacing: 63602106, 85511103, 85541003, 85541420, 85541670

Servicing: 63111007, 63111008, 63223101, 63223730, 63112003, 63113002, 63113003, 63113004, 63293538, 63102008

12 Volt, B+ M8, ID/cover 25.00, ID/eye 6.80, OD 53.90, OD/cover 46.90, Length 50.00, Total length 118.85, Height/B+ 16.40, Terminal 50 M6, Coil bolt M8, Coil bolt 2 10.40, No./mount. holes 3, No./terminals 3, Fork lever w/ Cap: HC-CARGO 139602. Moving contact: HC-CARGO 233969.



### 138477 Solenoid

Replacing: 63602109, 63602404, 63602502, 85541717

Servicing: 63114008, 63114010, 63280040, 63114014

12 Volt, B+ M8, OD 54.50, OD/cover 47.50, Height/B+ M8, Terminal 50 M6, No./terminals 3, Bracket type Crimp Cap: HC-CARGO 139602. Moving contact: HC-CARGO 137348.

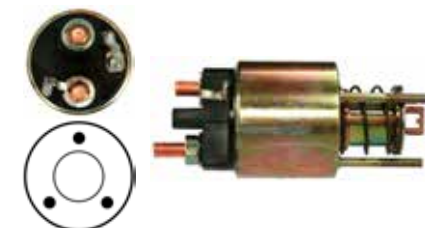


### 138522# Solenoid

Replacing: 85540841, 85541060

Servicing: 63223433, 63223433

12 Volt, B+ M8, ID/cover 23.00, ID/eye 6.80, OD 51.65, OD/cover 51.35, Length 63.00, Total length 149.20, Height/B+ 18.10, Terminal 15A/width 7.85, Terminal 50 M6, Coil bolt M8, Coil bolt 2 22.70, No./mount. holes 3, No./terminals 4, Fork lever w/ Cap: HC-CARGO 231582. w/ 30H terminal.

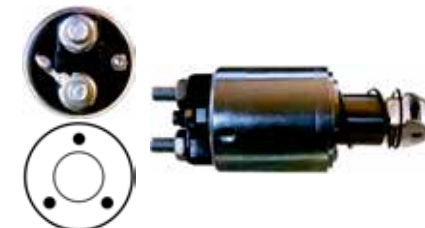


### 138531 Solenoid

Replacing: 85541070

Servicing: 63223039, 63293039

12 Volt, B+ M8, ID/cover 25.35, ID/eye 6.55, OD 54.00, OD/cover 47.40, Length 50.15, Total length 124.55, Height/B+ 20.90, Terminal 50 M6, Coil bolt M8, Coil bolt 2 10.40, No./mount. holes 3, No./terminals 3, Fork lever w/ Terminal: HC-CARGO 231863.



### 138753 Solenoid

Replacing: 63633804, 85540031

Servicing: 63216816, 63216818, 63216852, 63216876, 63216884, 63217138

12 Volt, 3.5 kW, B+ M10, OD 60.90, Total length 160.00, Height/B+ 15.30, Terminal 50 6.30, No./mount. holes 3, No./terminals 3, Bracket type Crimp



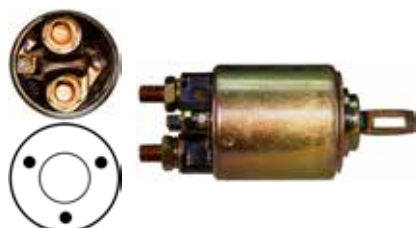


### 139104 Solenoid

Replacing: 85540922

Servicing: 63222135, 63222136, 63222138, 63222204, 63222206, 63222038, 63222131, 63222134

12 Volt, B+ M8, ID/cover 23.30, OD 51.60, OD/cover 50.65, Length 68.85, Total length 144.00, Height/B+ 25.25, Terminal 50 M6, Coil bolt M8, Coil bolt 2 20.35, No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 232417.



### 139849 Solenoid

Replacing: 63633604

Servicing: 63216814, 63217106, 63217108, 63217110, 63217112, 63217116, MT71H, MT68P

12 Volt, B+ M10, ID/cover 30.45, ID/eye 6.75, OD 61.00, OD/cover 53.25, Length 76.60, Total length 142.85, Height/B+ 20.35, Terminal 50 M5, Coil bolt M10, Coil bolt 2 21.80, No./mount. holes 3, No./terminals 3, Fork lever w/



### 230325 Solenoid

Replacing: 63600904, 85530220, 85540041

Servicing: 63220932, 63221430, 63221433, 63221531, 63221532, 63221534, 63221538, 63221539, 63221632, 63221636

12 Volt, B+ M8, ID/cover 22.25, OD 50.00, OD/cover 50.00, Length 64.95, Total length 126.70, Height/B+ 21.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 20.55, No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 132229.



### 230805 Solenoid

Replacing: 83227502, 85541210

Servicing: 63102000, 63102000A, 63111001, 63192000, 63191001, 63223106

12 Volt, B+ M8, ID/cover 25.70, ID/eye 6.60, OD 54.00, OD/cover 47.40, Length 47.75, Total length 112.75, Height/B+ 12.50, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.55, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 139602.

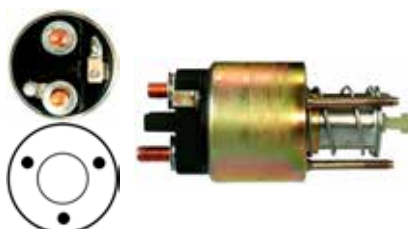


### 230809 Solenoid

Replacing: 85541010, 85541260, 85541400, 85541560

Servicing: 63101000, 63101002, 63102003, 63102004, 63102007, 63222909, 63223108, 63223200, 63111005

12 Volt, B+ M8, ID/cover 25.75, ID/eye 6.70, OD 54.00, OD/cover 47.40, Length 47.45, Total length 123.00, Height/B+ 23.45, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.55, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 139601.

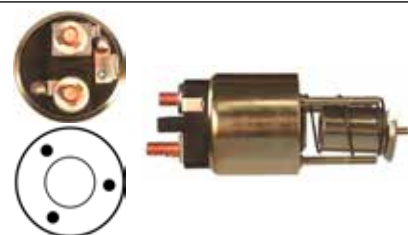


### 231479 Solenoid

Replacing: 85541350

Servicing: 63101007, 63191007, 63223085

12 Volt, B+ M8, ID/cover 25.65, OD 54.00, OD/cover 47.20, Length 51.50, Total length 115.00, Height/B+ 14.85, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.65, No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 233074.



### 231806 Solenoid

Replacing: 85541110, 85541111

Servicing: 63223103, 63223104, 63230001, 63230003, 63293103

12 Volt, B+ M8, ID/cover 25.30, ID/eye 6.50, OD 54.00, OD/cover 47.00, Length 49.80, Total length 121.00, Height/B+ 16.65, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 10.65, No./mount. holes 3, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 137346.



### 231990 Solenoid

Servicing: 63113001, 63280071, 63111006, 63193001, 63223537, 63293537

12 Volt, B+ M8, ID/cover 25.25, ID/eye 6.90, OD 54.00, OD/cover 47.85, Length 50.30, Total length 126.45, Height/B+ 22.25, Terminal 30H M5, Terminal 30H/width 7.80, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.85, No./mount. holes 3, No./terminals 4, Fork lever w/  
Cap: HC-CARGO 233968. w/ 30H terminal.



### 234733 Solenoid

Replacing: 85541360, 85541770

Servicing: 063102018010, 063102021010, 63101000, 63101002, 63101008, 63101015, 63102004, 63102007, 63103015

12 Volt, B+ M8, ID/cover 25.00, OD 54.00, OD/cover 49.45, Length 54.50, Total length 125.30, Height/B+ 22.90, Terminal 50 M6, Coil bolt M8, Coil bolt 2 10.10, No./mount. holes 3, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 139601.





### 235383 Solenoid

Servicing: 63114017, 63222005

12 Volt, 18/42 Amp, 2.2 kW,  
B+ M8, ID/cover 39.90, OD 54.00,  
OD/cover 52.30, Length 52.70,  
Total length 125.90, Height/B+ 18.20,  
Terminal 30H M5, Terminal 30H/width 9.55,  
Terminal 50 M6, Coil bolt M8,  
Coil bolt 2 9.55, No./mount. holes 3,  
No./terminals 4, Bracket type Bracket,  
Fork lever w/o  
Cap: HC-CARGO 233968.



### 238841 Solenoid

Replacing: 85541990

Servicing: 63101021, 63102022, 63103031,  
63114012

12 Volt, B+ M8, OD 54.05,  
Total length 129.00, Height/B+ 16.25,  
Coil bolt M8, Coil bolt 2 9.25,  
No./mount. holes 3, No./terminals 2



### 239075 Solenoid

Replacing: 85553402

Servicing: 63280091

12 Volt, B+ M8, OD 54.25,  
Length 51.30, Total length 106.20,  
Height/B+ 18.30, Terminal 50 M5,  
Coil bolt M8, Coil bolt 2 10.95,  
No./mount. holes 3, No./terminals 3,  
Bracket type Crimp, Fork lever w/o



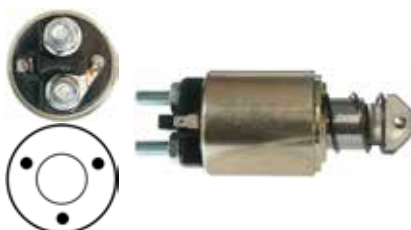
### 333147 5+ Solenoid

Manufacturer: Bosch

Replacing: 82368225

12 Volt, B+ M8, ID/cover 27.10,  
ID/eye 4.80, OD 56.35, OD/cover 49.35,  
Length 63.00, Total length 140.80,  
Height/B+ 20.00, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 12.60,  
No./mount. holes 3, No./terminals 3,  
Fork lever w/  
Cap: HC-CARGO 131315.  
Alternative no.: 131143, 333665

### 24 V



### 131115 Solenoid

Replacing: 63633901, 63633902, 63633925,  
63633933, 79036685, 85540111, 85540211,  
IE39AAA

Servicing: 63216738, 63216747, 63216748,  
63216763, 63216727, 63216731, 63216733,  
63216740, 63216741, 63217225

24 Volt, B+ M10, ID/cover 30.00,  
OD 60.80, OD/cover 54.70,  
Length 69.30, Total length 157.80,  
Height/B+ 20.35, Terminal 50 6.30,  
Coil bolt M10, Coil bolt 2 20.35,  
No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 131329. Moving Contact:  
HC-CARGO 132248.



### 132254 Solenoid

Replacing: 79033664

24 Volt, B+ M10, ID/cover 29.80,  
OD 61.00, OD/cover 53.35,  
Length 82.45, Total length 161.85,  
Height/B+ 21.90, Terminal 50 4.70,  
Coil bolt M10, Coil bolt 2 15.75,  
No./mount. holes 3, No./terminals 3,  
Fork lever w/  
Cap: HC-CARGO 131318.  
Alternative no.: 333151

### Solenoid Parts

### Solenoid Caps

Pkg. 5



### 131325 Solenoid Cap

Servicing: 63220701, 63220703, 63220721,  
63220743, 63600400, E84-0.8/12V1, E84-  
0.8/12V3

ID 42.85, OD 57.00, Coil bolt M8,  
Coil bolt 2 21.15, No./terminals 3  
HC-CARGO 130377.

Alternative no.: 130377

Pkg. 5



### 131329 Solenoid Cap

Servicing: 63216703, 63216725, 63216726,  
63216727, 63216731, 63216740, 63216741,  
63216747, 63216748, 63216800

ID 45.30, OD 58.25, Coil bolt M10,  
Coil bolt 2 25.00, No./terminals 3,  
Bracket type Crimp  
HC-CARGO 131112, 131115.

Pkg. 5



### 132229 Solenoid Cap

Servicing: 63220505, 50246416, 50246532,  
63220536, 63220537, 63220538, 63220700,  
63220701, 63220703, 63220704

ID 36.55, OD 52.45, Coil bolt M8,  
Coil bolt 2 20.50, No./terminals 3  
HC-CARGO 131437, 132227, 132228, 133083,  
133566, 230325.





Pkg. 5

### 137346 Solenoid Cap

Servicing: 30000A, 30001A, 30002A, 30003A, 63223085, 63223103, 63223104, 63223182, 63223303, 63230001

ID 39.85, OD 52.00, Coil bolt M4, Coil bolt 2 11.35, No./terminals 3, Bracket type Crimp  
HC-CARGO 231806.



Pkg. 5

### 137347 Solenoid Cap

Servicing: 85540981

ID 40.65, OD 52.00, Coil bolt M8, Coil bolt 2 12.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 137190.



Pkg. 5

### 139601 Solenoid Cap

Servicing: 063102018010, 063102021010, 63101000, 63101002, 63101008, 63101018, 63101022, 63101023, 63102003

ID 39.90, OD 52.20, Coil bolt M8, Coil bolt 2 10.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 230809, 234733.



Pkg. 5

### 139602 Solenoid Cap

Servicing: 63112003, 63102000, 63102008, 63103002, 63103003, 63103007, 63103022, 63111001, 63111007, 63111008

ID 39.00, OD 51.75, Coil bolt M8, Coil bolt 2 8.70, No./terminals 3, Bracket type Crimp  
HC-CARGO 137191, 138444, 138477, 230805.



### 231582 Solenoid Cap

Servicing: 63222035, 63223433, 85540711

ID 41.50, OD 44.50, Switch dim. 9.00, Coil bolt M8, Coil bolt 2 18.30, No./terminals 4  
w/ 30H terminal. HC-CARGO 136164, 231582.



### 231880 Solenoid Cap

Servicing: 63223435, 63223532, 636019063, 636019066, 85541020

ID 40.85, OD 50.00, Coil bolt M8, Coil bolt 2 17.00, No./terminals 4  
w/ 30H terminal. HC-CARGO 137790.



### 232417 Solenoid Cap

Servicing: 63222038, 63222131, 63222134, 63222135, 63222204, 63222206, 63222836, 63222837, 63222897, 85540922

ID 41.20, OD 50.70, Coil bolt M8, Coil bolt 2 17.95, No./terminals 4  
HC-CARGO 139104.



Pkg. 5

### 233074 Solenoid Cap

Servicing: 63101007, 63191007, 85541350

ID 40.00, OD 52.65, Coil bolt M8, Coil bolt 2 10.75, No./terminals 3, Bracket type Crimp  
HC-CARGO 231479.



### 233968 Solenoid Cap

Servicing: 63111006, 63114017, 63193001, 63222005, 63223537, 63293537

ID 39.90, OD 52.30, Coil bolt M8, Coil bolt 2 15.20, No./terminals 4, Bracket type Crimp

### Moving Contacts

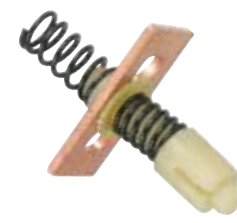
Pkg. 5



### 132246 Moving Contact

Servicing: 85530010, 85530220, 85530280, 85530290, 85530330

OD 2 8.10, Length 32.00, Shaft dim. 29.50, Thickness 2.50, Width 15.00, Material Steel, Shaft w/ Alternative no.: B132246



Pkg. 5

### 137348 Moving Contact

Servicing: 063102018010, 063102021010, 63101000, 63101002, 63101008, 63101018, 63101022, 63101023, 63102000

OD 2 8.00, Length 26.50, Shaft dim. 24.30, Thickness 1.60, Width 12.50, Material Copper, Shaft w/



Pkg. 5

### 231383 Moving Contact

Servicing: 85540901

OD 2 8.10, Length 37.80, Shaft dim. 30.00, Thickness 2.50, Width 15.40, Material Copper, Shaft w/





Pkg. 5

### 233969 Moving Contact

Servicing: 63112003, 30000A, 30001A, 30002A, 30003A, 63101007, 63101021, 63103008, 63103019, 63103031

OD 2 8.35, Length 26.50, Shaft dim. 24.90, Thickness 1.60, Width 12.50, Material Copper, Shaft w/



Pkg. 100

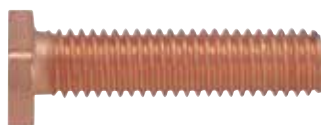
### B132246 Moving Contact

Servicing: 63220505

OD 2 8.10, Length 32.00, Shaft dim. 29.50, Thickness 2.50, Width 15.00, Shaft w/ Alternative no.: 132246

### Fixed Contacts

Pkg. 10



### 232418 Fixed Contact

Total length 35.30, Length/rear collar 31.82, Thread length 26.82, Thread size M8x1.25, Shaft w/, Washer w/o Antrasit.

### Various

Pkg. 5



### 231863 Terminal 50

Servicing: 63111000, 63223039, 63223639, 63293039

### Drives



### 130417 Drive

Replacing: 70616002, 72372530, 74372530

Servicing: 63211665, 63211669, 63213127, 63214349, 63214371, 63216225, 63216325, 63214376, 63216233, 63216333

ID 14.70, OD 34.70, OD/housing 35.00, Total length 120.00, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130437 Drive

Replacing: 74899601

Servicing: 63223800

ID 16.00, OD 35.00, OD/housing 60.00, Total length 88.00, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o Drive w/ 12 splines: HC-CARGO 134643.



### 130439 Drive

Replacing: 74868891, 85540731

Servicing: 63220409, 63220439, E76-0.5/125-V9

ID 11.54, OD 25.20, OD/housing 40.35, Total length 62.45, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 130452 Drive

Replacing: 54247034, 54268141, 54294922, 85541454, 85541479, 85541490

Servicing: 63226604, 63227025, 63227408, 63227415, 63227417, 63227425, 63227468, 63227483, 63227502, 63227510

ID 17.00, OD 39.90, OD/housing 60.00, Total length 73.00, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o Alternative no.: 130452z



### 130452Z Drive

Replacing: 85541454, 85541479, 85541490

ID 17.00, OD 39.50, OD/housing 60.00, Total length 73.50, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o Alternative no.: 130452



### 130735 Drive

Replacing: 74867931

Servicing: 63220400, 63220430

ID 12.00, OD 26.85, OD/housing 40.40, Total length 63.75, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 130737 Drive

Replacing: 74860391, 74861441, 74876851, 74881251, 74886731, 74981251, 85540311, 85540661, 85540811

Servicing: 63220700, 63221300, 63221302, 63221303, 63221330, 63220732, 63220735, 63220740, 63220741, 63220743

ID 11.70, OD 25.55, OD/housing 43.70, Total length 71.15, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130738 Drive

Replacing: 74866611, 74867401, 74874241, 85540271

Servicing: 63222430, 63222435, 63222438, 63222439, 63222531, 63222532, 63222536, 63222730, 63222731, 63222736

ID 14.00, OD 29.15, OD/housing 46.20, Total length 68.00, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o





### 130739 Drive

Replacing: 74827301, 74871431

Servicing: 63224170, 63224580, 63224600, 63224602, M125M3-Z9(3/12)

ID 17.00, OD 34.88, OD/housing 60.00, Total length 83.35, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130740 Drive

Replacing: 74870111

Servicing: 63201000, 63201001, 63201002, 63201003, 63201004, 63201005, 63201101, 63201100, B76-0.5/125

ID 11.50, OD 25.30, OD/housing 41.30, Total length 65.00, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 130749 Drive

Replacing: 72138801

Servicing: 63216733, 63216816, 63216833, 63217117, 63217173, 63217182, 63217402, 63217404, MT67BA, MT68BA

ID 14.35, OD 34.40, OD/housing 60.30, Total length 77.20, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130946 Drive

Replacing: 72378801, 72399501

Servicing: 63216702, 63217107, 63217110, 63217116, MT67B

ID 14.30, OD 34.50, OD/housing 60.20, OD/teeth 34.50, Total length 76.95, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 131109 Drive

Replacing: 72139001, 72363402

Servicing: 63216727, 63216740, 63216827, 63216898, 63217118, 63217119, 63217120, 63217125, 63217147, 63217225

ID 14.30, OD 34.55, OD/housing 59.70, Total length 77.20, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/ Drive w/ lever: HC-CARGO 234921, 234922.



### 131588 Drive

Replacing: 85540081

Servicing: 63221802, 63221830, 63221832

ID 11.68, OD 25.60, OD/housing 43.70, Total length 63.95, No./teeth 9, Rotation CW, Key spline w/o, Lock w/ Drive: HC-CARGO 132119.



### 131708 Drive

Replacing: 54247396

Servicing: M45G, 2M113, 63227413, 63227421

ID 17.00, OD 39.23, OD/housing 60.20, Total length 73.20, Splines A 12, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 131715 Drive

Replacing: 74886971, 74889271, 85540601

Servicing: 63220506, 63220507, 63220536, 63220537, 63220538

ID 11.64, OD 25.60, OD/housing 43.80, Total length 68.56, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131716 Drive

Replacing: 74886131, 74887061, 85540491, 85540611

Servicing: 63220901, 63220931, 63221400, 63221338, 63221430, 63221431, 63221538, 63221637, 63221401

ID 11.55, OD 29.30, OD/housing 46.40, Total length 71.00, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 131728 Drive

Replacing: 54268142, 85541496, 85541541

Servicing: M45G, 63227508, 63227533, 63227543, 63227575, 63227586, 63227601, 63227419, 63227604

ID 17.05, OD 39.85, OD/housing 59.95, Total length 100.20, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o Alternative no.: 335647



### 131729 Drive

Replacing: 54247397, 85541538

Servicing: M45G, 63227412, 63227416, 63227475, 63227491

ID 17.05, OD 45.95, OD/housing 59.95, Total length 73.35, Splines A 12, No./teeth 13, Rotation CW, Key spline w/o, Lock w/o



### 131747 Drive

Replacing: 74350413, 74350433

ID 14.60, OD 46.00, Total length 120.00, Shaft length 98.20, Splines A 3, No./teeth 13, Key spline w/o, Lock w/o





### 132075 Drive

Replacing: 74866151

Servicing: 63222300

ID 14.00, OD 29.00, OD/housing 46.20,  
Total length 70.00, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 132119 Drive

Replacing: 74893901

Servicing: 63221890, 50246532, 50246648,  
63101003, 63221800, 63221830, 63221832,  
63221834, 63221892, 63222831

ID 11.50, OD 25.20, OD/housing 44.45,  
Total length 64.00, Splines A 12,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o  
Drive w/ lever: HC-CARGO 134859, 230757



### 132188 Drive

Replacing: 74891161, 74898071, 74991161,  
85540521

Servicing: 63221403, 63221500, 63221433,  
63221434, 63221530, 63221533, 63221539,  
63221632, 63221636, 63221639

ID 11.60, OD 29.15, OD/housing 46.00,  
Total length 65.50, Splines A 10,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 132285 Drive

Replacing: 54268139, 54290585, 85541462,  
85541466

Servicing: 63227528, 63227500, 63227553,  
63227554, 63227569

ID 17.15, OD 39.00, OD/housing 60.00,  
Total length 70.40, Splines A 12,  
No./teeth 10, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o



### 132286 Drive

Replacing: 54267317

Servicing: 2M113, 63227460

ID 14.30, OD 36.00, OD/housing 60.00,  
Total length 73.00, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 132586 Drive

Replacing: 54291911, 85541488, 85541544

Servicing: M78, 63226609, 63226626,  
63226627, 63226678, 63226680, 63226681,  
63226689, 63227009, 63227013, 63227016

ID 12.00, OD 26.70, OD/housing 46.25,  
Total length 48.20, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 132587 Drive

Replacing: 54291912

Servicing: M78, 63226614, 63226619,  
63226622, 63227026, 63227028

ID 12.00, OD 25.50, OD/housing 43.50,  
Total length 48.00, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 132818 Drive

Replacing: 74896591, 85540431, 85540451

Servicing: 63222000, 63222004, 63222030,  
63222034, 63222038, 63222130, 63222134,  
63222135, 63222138

ID 11.60, OD 25.80, OD/housing 53.00,  
OD/teeth 25.80, Total length 62.00,  
Splines A 10, No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 132818Z



### 132818Z Drive

Replacing: 74896591, 85540431, 85540451

ID 12.00, OD 25.40, OD/housing 54.30,  
OD/teeth 25.40, Total length 62.00,  
Splines A 10, No./teeth 9,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 132818



### 132820 Drive

Replacing: 74894681, 85540441

Servicing: 63221831, 63222036, 63222131,  
63222133, 63222206, 63221801

ID 12.00, OD 27.50, OD/housing 53.25,  
Total length 61.90, Splines A 10,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o



### 132821 Drive

Replacing: 72159801, 85540151, 85540191

Servicing: 63216731, 63216741, 63216831,  
63216896, 63217126, 63217148, MT67AD,  
MT67CB, MT68AD, MT68LC, MT71AB

ID 14.30, OD 34.30, OD/housing 60.00,  
Total length 77.50, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 132852 Drive

Replacing: 54268140, 85541459

Servicing: 3M127, 63227567, 63227501

ID 17.00, OD 45.75, OD/housing 60.00,  
Total length 71.00, Splines A 12,  
No./teeth 13, Rotation CW,  
Key spline w/o, Lock w/o





### 133295 Drive

Replacing: 54292179, 54295252

Servicing: M79, 63226607, 63226692, 63226696, 63227037, 63227044, 63227045  
ID 12.00, OD 26.70, OD/housing 46.00,  
Total length 61.75, No./teeth 10,  
Rotation CCW, Key spline w/o,  
Lock w/o



### 133296 Drive

Replacing: 54295255

Servicing: M79, 63226717, 63226722, 63226812, 63226843, 63227487  
ID 12.00, OD 26.65, OD/housing 46.00,  
Total length 56.55, No./teeth 10,  
Rotation CCW, Key spline w/o,  
Lock w/o



### 133297 Drive

Replacing: 54290840

Servicing: M78, 63226707, 63226721, 63226804, 63226823, 63226824, 63226836, 63226837, 63226842  
ID 12.00, OD 26.65, OD/housing 46.00,  
Total length 44.00, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 133682 Drive

Replacing: 54268565, 54295140

Servicing: M127, 63227512, 63227587  
ID 17.00, OD 40.50, OD/housing 60.00,  
Total length 100.25, Splines A 12,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 133683 Drive

Replacing: 54290474, 85541470

Servicing: M127, 63227576, 63227564  
ID 14.20, OD 31.90, OD/housing 60.00,  
Total length 100.35, Splines A 12,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o



### 133841 Drive

Replacing: 99339837

ID 11.50, OD 25.00, OD/housing 44.00,  
Total length 65.30, Splines A 12,  
No./teeth 9, Rotation CCW,  
Key spline w/o, Lock w/o  
Alternative no.: 333855



### 133985 Drive

Replacing: 72139003

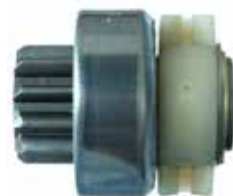
Servicing: 63217121, MT71Z  
ID 14.30, OD 34.00, OD/housing 60.25,  
Total length 77.25, Splines A 12,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o  
w/ lever.



### 134018 Drive

Replacing: 74891391, 74898111, 85540291

Servicing: 63221405, 63221435, 63221536  
ID 11.65, OD 29.55, OD/housing 47.65,  
Total length 65.75, Splines A 10,  
No./teeth 9, Rotation CCW,  
Key spline w/o, Lock w/o



### 134364 Drive

Replacing: 85540321, 85541040

Servicing: 63223431, 63223436, 63223530, 63223531, 63223532, 63223533, 63223430, 63223432  
ID 12.00, OD 29.00, OD/housing 46.25,  
Total length 52.35, Splines A 10,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 134643 Drive

Replacing: 74703401

Servicing: 63223800, 63223802, 63223807, 63223830, 63223832  
ID 16.00, OD 35.00, OD/housing 60.45,  
Total length 87.50, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o  
Drive w/ 3 splines: HC-CARGO 130437.



### 134859 Drive

Replacing: 83221531, 83221541, 85540411

Servicing: 63222831, 63222832, 63222833, 63222836, 63222837, 63222838, 63222897, 63223031, 63223032, 63223033  
ID 11.55, OD 25.30, OD/housing 43.40,  
Total length 64.00, Splines A 12, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o  
Drive: HC-CARGO 132119.



### 135117 Drive

Replacing: 85540681

Servicing: 63222035, 63222204, 63229035, 63292035  
ID 12.00, OD 29.00, OD/housing 54.25,  
Total length 62.00, Splines A 10, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o





### 135711 Drive

Replacing: 85541303, 85541503

Servicing: M79, 63226667, 63227043

ID 12.00, OD 28.00, OD/housing 46.25,  
Total length 48.15, No./teeth 8,  
Rotation CW, Key spline w/o, Lock w/o



### 135717 Drive

Replacing: 85540971, 85541780

Servicing: 63101000, 63101002, 63101008,  
63102003, 63102004, 63102007, 63102008,  
63103002, 63103003, 63103008

ID 11.60, OD 25.80, OD/housing 46.00,  
Total length 64.00, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 136257 Drive

Replacing: 85540881

Servicing: 63223533, 63111000, 63223435,  
63223639

ID 12.00, OD 28.65, OD/housing 46.30,  
Total length 53.25, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o  
Drive w/ lever: HC-CARGO 138167.



### 136261 Drive

Replacing: 54293451

Servicing: M78R, 63226834, 63226845

ID 12.00, OD 27.85, OD/housing 46.25,  
Total length 65.45, No./teeth 8,  
Rotation CW, Key spline w/o, Lock w/o



### 138167 Drive

Replacing: 85541030

Servicing: 63111000, 63223435, 63223639

ID 12.00, OD 28.70, OD/housing 47.00,  
Total length 52.55, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o  
Drive only: HC-CARGO 136257.



### 138299 Drive

Replacing: 54290638

Servicing: M80, 63226904, 63226920,  
63226927, 63226932

ID 12.10, OD 39.50, OD/housing 47.75,  
Total length 50.50, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 138533 Drive

Replacing: 85541080

Servicing: 63223039, 63293039

ID 11.60, OD 24.90, OD/housing 44.00,  
Total length 60.85, Splines A 12,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 138752 Drive

Replacing: 72138802

Servicing: 63216876, 63217138, MT68PA,  
MT71FA, 63216814, 63216884, MT68P, MT68PB  
ID 14.35, OD 40.65, OD/housing 60.30,  
Total length 77.30, No./teeth 11,  
Rotation CW, Key spline w/o, Lock w/o  
w/ lever.



### 138793 Drive

Servicing: 63111005, 63111006, 63111007,  
63223537, 63223730, 63293537

ID 11.85, OD 28.25, OD/housing 48.00,  
Total length 50.50, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 138865 Drive

Replacing: 85541100

Servicing: 63223103, 63223104, 63230001,  
63230003, 63293103, 63293104, 30000A,  
30001A, 30002A, 30003A

ID 12.00, OD 25.60, OD/housing 41.30,  
Total length 84.75, Splines A 12,  
No./teeth 9, Rotation CCW,  
Key spline w/o, Lock w/o



### 138985 Drive

Replacing: 85541160

Servicing: 63114008, 63114010  
ID 12.00, OD 29.00, OD/housing 53.70,  
Total length 64.00, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 138985z



### 138985Z Drive

Replacing: 85541160

ID 12.00, OD 28.70, OD/housing 54.20,  
OD/teeth 28.70, Total length 65.15,  
Splines A 10, No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 138985





### 139131 Drive

Replacing: 72138902, 72139002, 72392104, 79035321

Servicing: 63216738, 63216747, 63216748, 63216763, 63216859, 63216874, MT67DA, MT67DB, MT67FA, MT67FB, MT68MA

ID 14.35, OD 34.70, OD/housing 60.25, Total length 106.30, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o w/ lever.



### 139655 Drive

Replacing: 85541280, 85541870

Servicing: 063102018010, 063102021010, 63101015, 63103007, 63103008, 63103015, 63103022, 63103023, 63103024

ID 11.45, OD 23.50, OD/housing 44.00, Total length 64.00, Splines A 12, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o Alternative no.: 335653



### 139710 Drive

Replacing: 54294817

Servicing: 63223538, 63293538

ID 12.00, OD 54.00, OD/housing 48.20, Total length 51.35, Splines A 10, No./teeth 23, Rotation CW, Key spline w/o, Lock w/o



### 139848 Drive

Replacing: 72399502

Servicing: 63216814, 63217106, MT68P, MT71F

ID 14.45, OD 40.60, OD/housing 60.00, OD/teeth 40.60, Total length 77.55, Splines A 12, No./teeth 11, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 139901 Drive

Replacing: 85541250, 85541680, 85541690

Servicing: 63113003, 63113004, 63112003, 63111008, 63111009, 63111027, 63111018, 63111037, 63223536

ID 12.00, OD 29.75, OD/housing 47.55, Total length 50.20, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 139902 Drive

Replacing: 83226569, 85541700

Servicing: 63114014

ID 12.00, OD 34.25, OD/housing 60.00, Total length 64.65, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 230025 Drive

Replacing: 85540401

Servicing: 63223209, 63223239

ID 12.00, OD 29.50, OD/housing 47.60, Total length 64.90, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 230757 Drive

Replacing: 85540381

Servicing: 63101003, 63221800, 63221834, 63221890, 63221892, 50246532, 63223031, 63223033

ID 11.60, OD 25.30, OD/housing 43.45, Total length 64.10, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o Drive: HC-CARGO 132119.



### 231330 Drive

ID 14.00, OD 34.35, OD/housing 60.00, Total length 77.25, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 231414 Drive

Replacing: 85541220

Servicing: 63102000, 63102000A, 63192000, 63223106, 63103019

ID 11.65, OD 27.80, OD/housing 45.00, Total length 63.30, Splines A 12, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 231478 Drive

Replacing: 85541390

Servicing: 63101007, 63191007

ID 11.00, OD 25.40, OD/housing 45.25, Total length 57.50, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 231899 Drive

Replacing: 83226407, 85541300

Servicing: 63113001, 63113002, 63193001

ID 12.00, OD 35.00, OD/housing 47.00, Total length 50.50, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o Alternative no.: 333868





### 234921 Drive

Replacing: 72397101

Servicing: 63216703, 63216726, 63216801, 63216808, 63216826, 63216873, 63217104, 63217105, MT67AA, MT67AB

ID 14.20, OD 34.50, OD/housing 60.20, Total length 77.15, No./teeth 9, Key spline w/o, Lock w/o w/ lever. Drive only: HC-CARGO 131109.



### 234922 Drive

Replacing: 72139007

Servicing: 63216727, 63216740, 63216827, 63216898, 63217118, 63217119, 63217147, MT67AC, MT67CA, MT68AC

ID 14.20, OD 34.45, OD/housing 60.20, Total length 77.35, No./teeth 9, Key spline w/o, Lock w/o w/ lever. Drive only: HC-CARGO 131109.



### 235663 Drive

Servicing: 63280040, 63280041

ID 12.00, OD 40.63, OD/housing 60.10, Total length 73.14, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/



### 238793 Drive

Servicing: 63114017, 63222005

ID 12.00, OD 28.77, OD/housing 59.19, Total length 64.01, Splines A 10, No./teeth 9, Rotation CW



### 239080 Drive

Replacing: 85553621

Servicing: 63280091

ID 11.00, OD 30.00, OD/housing 44.82, Total length 43.23, Splines A 10, No./teeth 11, Rotation CW



### 332145 Drive

Servicing: 063280071010, 63280071

ID 12.00, OD 34.89, OD/housing 49.50, OD/teeth 34.89, Total length 50.47, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 333125 Drive

Replacing: 74869711

Servicing: 63220107, 63220108, 63220137, 63220138

ID 11.55, OD 25.25, OD/housing 40.50, Total length 62.60, No./teeth 9, Drive type Steel, Rotation CCW



### 333855 Drive

Replacing: 99339837

ID 11.50, OD 25.00, OD/housing 39.00, Total length 65.30, No./teeth 9, Drive type Steel, Rotation CCW, Key spline w/o, Lock w/o Alternative no.: 133841



### 333868 Drive

Replacing: 85541300

Servicing: 63193001

ID 12.00, OD 35.00, OD/housing 48.00, Total length 50.50, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o Alternative no.: 231899



### 333881# Drive

Replacing: 85541750, 85541810

Servicing: 63111010, 63111016, 63111017, 63111036

ID 12.00, OD 25.40, OD/housing 47.00, Total length 48.45, No./teeth 9, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 333991 Drive

Servicing: 63217180, 63217425, MT74AA

ID 14.30, OD 34.60, OD/housing 60.20, OD/teeth 34.60, Total length 77.75, No./teeth 9, Drive type Steel, Rotation CCW

### Drive Parts

### Caps

Pkg. 25



### 134203 Drive Cap

ID 48.05, OD 49.70, Height 17.55



Pkg. 10



**237957** Drive Cap  
Servicing: 85541300  
ID 48.00, OD 49.75, Height 17.25

### Rollers

Pkg. 500



**134243** Roller  
OD 6.00, Length 8.55

Pkg. 500



**134246** Roller  
OD 8.00, Length 13.90

Pkg. 100



**230480** Roller  
OD 7.90, Length 13.80

### Springs

Pkg. 500



**134221#** Dp Springs  
ID 4.55, OD 5.85, Length 9.10,  
Material Steel

Pkg. 100



**134822#** Dp Springs  
ID 2.35, OD 3.20, Length 9.50,  
Material Steel

Pkg. 100



**135190** Dp Springs  
ID 3.25, OD 4.00, Length 10.40,  
Material Steel

### Planet Gears

#### Gear Parts

#### Gear Shafts



**230823#** Gear Shaft  
Servicing: 63114008, 63114010, 63114014,  
63114017, 63222005  
OD/shaft 15.00, Total length 120.00,  
No./splines 10



**235730** Gear Shaft  
Servicing: 63280040, 63280041  
OD/shaft 11.95, Total length 142.90,  
No./splines 10, Rotation CW

### Outer Gear

Pkg. 5



**232912** Outer Gear  
Servicing: 63223538  
ID 51.50, OD 61.80, Height 25.35,  
Height/collar 11.72, No./teeth 59,  
Bushing w/o

### Gear Wheels

Pkg. 3



**230285** Gear Wheel  
Servicing: 85540822  
ID 6.00, OD 19.00, Height 8.40,  
No./teeth 13, Bushing w/o



**233462** Gear Wheel  
Servicing: 63111000, 63223431, 63223432,  
63223435, 63223436, 63223438, 63223530,  
63223531, 63223532, 63223639  
ID 46.70, OD 58.70, Height 13.85,  
No./teeth 37, Bushing w/o

### Clutches



**130328** Clutch  
Replacing: 72294601, 74350265  
Servicing: 63211627, 63211665, 63211669,  
63213127, 63213853, 63214371, 63214376,  
63216225, 63216333, MT31AC



## Brush Gears



### 131169 Brush Gear

Replacing: 54245374

Servicing: M50, 63227483, 63227501, 63227502, 63227510, 63227512, 63227518, 63227533, 63227541, 63227547, 63227553  
12 Volt, ID 47.35, OD 88.70, Height 25.75



### 131184 Brush Gear

Replacing: 79026095

ID 23.15, OD 86.25, Height 26.00  
Neg. brushes. Brush set: HC-CARGO BSX97F4.



### 132303 Brush Gear

Replacing: 79033957

12 Volt, ID 23.00, OD 86.25, Height 34.30  
Neg. brushes. Brush set: HC-CARGO BSX134-1444.



### 132304 Brush Gear

Replacing: 79044568

ID 23.30, OD 86.70, Height 25.00



### 134041 Brush Gear

Replacing: 72164701

Servicing: 63216817, 63216818, 63216831, 63216852, 63216884, 63216896, MT68AD, MT68LC, MT68PB, MT68RA, MT68T  
ID 18.00, OD 93.85, Height 35.15  
Brush set: HC-CARGO MASX15-164.



### 134291 Brush Gear

Replacing: 74881151, 74883521, 74891101

Servicing: 63221330, 63221332, 63221333, 63221334, 63221335, 63221338, 63221430, 63221431, 63221531, 63221532

ID 40.00, OD 89.75, Height 18.00



### 134452 Brush Gear

Replacing: 54244775

Servicing: M50, 63227500, 63227569

ID 45.10, OD 81.55, Height 25.90

Brush set: HC-CARGO LASX314. Brush spring: HC-CARGO 132209.



### 134670 Brush Gear

Replacing: 72165001

Servicing: 63216731, 63216741, MT67AD, MT67CB, MT67AA

ID 17.65, OD 91.55, Height 33.90

Neg. brushes. Brush set: HC-CARGO MASX21-224.



### 134681 Brush Gear

Replacing: 72366601

Servicing: 63216808, 63216814, 63216816, 63216825, 63216826, 63216827, 63216833, 63216852, 63216859, 63216873

ID 101.60, OD 48.50



### 134852 Brush Gear

Replacing: 54293699, 54293877, 54293878, 54293879

Servicing: M79, 63226667, 63226689, 63226695, 63227004, 63227017, 63227043, 63227051, 63226601, 63226609, 63226627

ID 32.25, OD 67.80, Height 20.00

Brush set: HC-CARGO 140896, 140897, 140898. Brush spring: HC-CARGO 135119.



### 134853 Brush Gear

Replacing: 54290789, 54290790, 54291125, 54292603

Servicing: M78R, 63226717, 63226722, 63226800, 63226801, 63226803, 63226804, 63226814, 63226834, 63226842, 63226843

ID 33.00, OD 68.25, Height 20.55

Brush set: HC-CARGO 140511. Brush spring: HC-CARGO 135119.



### 134854 Brush Gear

Replacing: 54290689

Servicing: M80R, 63226717, 63226722, 63226908, 63226912, 63226920, 63226921, 63226923, 63226935, 63226936, 63226937

ID 33.00, OD 68.30, Height 26.80

Brush set: HC-CARGO 140509. Brush spring: HC-CARGO 135119.



### 135242 Brush Gear

Replacing: 72164102

Servicing: 63217226, MT72AB

24 Volt, ID 18.15, OD 92.30, Height 24.75

Neg. brushes. Brush set: HC-CARGO MASX27-284.



### 135565 Brush Gear

Replacing: 54294440, 83220461, 83222681, 83226683, 83227131, 83227226, 83227260

Servicing: 63111001, 63111005, 63111008, 63223433, 63223435, 63223537, 63293435, 63111000, 63223430, 63223431

ID 30.80, OD 61.25, Height 18.35

Brush set: HC-CARGO JSX33-344. Spring: HC-CARGO 138639.





### 135604 Brush Gear

Replacing: 135604, 72164101

Servicing: 63217126, 63217148, 63217154, 63217156, 63217158, 63217163, 63217180, 63217186, 63217188, 63217407

12 Volt, ID 18.20, OD 90.00, Height 26.00  
Neg. brushes. Brush set: HC-CARGO MASX25-264.



### 135822 Brush Gear

Replacing: 54266043

Servicing: 2M113, 3M113, 63227408, 63227409, 63227412, 63227415, 63227416, 63227417, 63227419, 63227470, 63227474, 63227475

ID 47.55, OD 88.70, Height 24.45  
Neg. brushes. Brush set: HC-CARGO LASX15-164.



### 136204 Brush Gear

Replacing: 83221241, 83224461, 83225359, 83226216

Servicing: 63222831, 63222832, 63222833, 63222836, 63222837, 63222838, 63223031, 63223032, 63223033, 63223034

ID 37.00, OD 67.00, Height 18.15  
Neg. brushes. Brush set: HC-CARGO JSX35-374.



### 136734 Brush Gear

Replacing: 72362601

Servicing: 63216701, 63216702, 63216703, 63216704, 63216706, 63216707, 63216710, 63216726, 63216727, 63216733

24 Volt



### 138534 Brush Gear

Replacing: 83225326

Servicing: 63101000, 63101002, 63101008, 63201008, 63222889, 63222897, 63222905, 63222908, 63222909, 63222936

12 Volt, ID 37.00, OD 67.20, Height 16.60  
Neg. brushes. Brush set: HC-CARGO JSX38-412.



### 138535 Brush Gear

Replacing: 83225886

Servicing: 63103022, 63103023, 63103024, 63103025, 63103026, 63223039, 63223304, 63293039, 30000A, 30001A

12 Volt, ID 37.15, OD 67.15, Height 16.30  
Neg. brushes.



### 138537 Brush Gear

Replacing: 85540341, 85540691

Servicing: 63221831, 63222030, 63222031, 63222034, 63222036, 63222038, 63222039, 63222130, 63222131, 63222133

12 Volt, ID 11.00, OD 74.00  
2.2 kW. Neg. brushes. Brush set: HC-CARGO JSX31-32.



### 138538 Brush Gear

Replacing: 85540351

Servicing: 63101003, 63221830, 63221832, 63221834, 63221890, 63221892, 63221800

12 Volt, ID 18.45, OD 73.65, Height 6.00  
Neg. brushes. Brush set: HC-CARGO JSX21-22.



### 139627 Brush Gear

Replacing: 83226336

Servicing: 63114014, 63280040, 63114017, 63222005

12 Volt, ID 11.00, OD 69.50, Height 22.50  
2.6 kW. Neg. brushes. Brush set: HC-CARGO JSX31-32.

## Brush Gear Parts

### Brush Holders

Pkg. 10



### 134115 Brush Holder

Replacing: 74893830

Servicing: 63221800, 63221830, 63221831, 63221832, 63221834, 63221890, 63221892, 63101003

Pkg. 10



### 134798 Brush Holder

Replacing: 74894441

Servicing: 63114008, 63114010, 63222000, 63222001, 63222030, 63222034, 50246416, 63221801, 63221831, 63222031

## Brush Springs

Pkg. 10



### 135768 Brush Spring

Replacing: 72364310

Servicing: 63201004, MT71D, MT71DA, MT71E, MT71T, 63216741, 63217126, 63217147, 63217201, 63217225, 63217226  
OD 16.15, Length 29.35, Width 5.00, Material Steel





### 135769 Brush Spring

Replacing: 74703210

Servicing: 63220704, 63220724, 63223236, 63223237, 63201000, 63201004, 63201005, 63201100, 63220536, 63220537

OD 14.00, Length 29.30, Height 5.00, Material Steel

Pkg. 10



### 135770 Brush Spring

Replacing: 72363110

Servicing: MT67AC, MT68AC, 63216725, 63216726, 63216727, 63216731, 63216740, 63216747, 63216748, 63216800

OD 15.65, Length 30.75, Width 9.85, Material Steel

Pkg. 10



### 138639 Brush Spring

Replacing: 83221220

Servicing: 63102000A, 30000A, 30001A, 30002A, 30003A, 50246532, 50246648, 63101002, 63101008, 63102000

OD 11.90, Length 22.30, Width 6.00, Material Steel

Pkg. 10

### Various

Pkg. 25



### 133967 Insulator

## Brush Sets



### 141094 Brush Set

Servicing: E80SL, 63101007, 63191007

12 Volt, Length 17.00, Lead length 27.00, Height 8.00, Thickness 7.00



### JSX134 Brush Set

Replacing: 74866041, 74874701

Servicing: E100,

12 Volt, Length 20.00, Lead length 33.50, Height 16.00, Thickness 7.00



### JSX162 Brush Set

Replacing: 74861781, 74868181

Servicing: E84, 63220700, 63220732, 63220735, 63220740, 63220741, 63220743, 63220744, 63220746, 63220830, 63220833

12 Volt, Length 19.00, Lead length 31.00, Height 17.00, Thickness 8.00



### JSX184 Brush Set

Replacing: 74838701

Servicing: 63224580

24 Volt, Length 28.00, Lead length 36.00, Height 22.00, Thickness 10.00 M125-4/24.



### JSX194 Brush Set

Replacing: 74846001

Servicing: 63224600, 63224602, 63224691, M125M3-Z9(3/12)

12 Volt, Length 28.00, Lead length 27.49, Height 22.00, Thickness 10.00 M125-3/12.



### JSX204 Brush Set

Replacing: 74734101

Servicing: 63224301, 63224302, 63224398, 63225301, 63225303, 63225391, 63225398, 63226300, 63226302, 63226391

24 Volt, Length 30.00, Lead length 34.50, Height 35.00, Thickness 11.50 M130-7/24.



### JSX21-22 Brush Set

Replacing: 74880941, 74881121

Servicing: E95, 63221633

12 Volt, Length 17.50, Lead length 186.00, Lead length 2 41.00, Height 13.00, Thickness 6.00



### JSX23-24-28 Brush Set

Replacing: 74887901, 74887911, 74891260, JSX23-24-28

Servicing: E100, 63223230, 63223235, 63223330, 63223332, 63223203, 63223236, 63223237

12 Volt, Length 20.00, Lead length 57.50, Lead length 2 36.00, Height 15.50, Thickness 7.00





**JSX29-302** Brush Set  
 Replacing: 74893801, 74893811  
 Servicing: E95C  
 12 Volt, Length 17.50,  
 Lead length 48.82, Height 13.00,  
 Thickness 6.00



**JSX31-32** Brush Set  
 Replacing: 7489438/1, 7489439/1  
 Servicing: E95R, 63280040, 50246416,  
 63114008, 63114010, 63221801, 63221831,  
 63222000, 63222001, 63222030, 63222031  
 12 Volt, Length 18.00,  
 Lead length 39.63, Lead length 2 138.14,  
 Height 19.00, Thickness 8.00



**JSX33-344** Brush Set  
 Replacing: 83227257, 83227258, JSX33-344  
 Servicing: E70R, 63111023, 63112003,  
 63223533, 63111000, 63111001, 63111005,  
 63111006, 63111007, 63111008, 63111010  
 12 Volt, Length 16.34, Lead length 34.00,  
 Height 14.85, Thickness 5.90  
 Alternative no.: JS33, JS34



**JSX35-364** Brush Set  
 Replacing: 83221191, 93221201, JSX35-364  
 Servicing: E80, 50246532, 50246648,  
 63223031, 63223033, 63223034, 63223035,  
 63223304  
 12 Volt, Length 17.50,  
 Lead length 34.00, Lead length 2 28.50,  
 Height 13.00, Thickness 7.00



**JSX35-374** Brush Set  
 Replacing: 83221681, JSX35-374  
 Servicing: E80E, 63222831, 63222836,  
 63222837, 63223034  
 12 Volt, Length 17.50,  
 Lead length 116.00, Lead length 2 28.00,  
 Height 13.00, Thickness 7.00



**JSX38-39-403** Brush Set  
 Replacing: 83224481, 83227490, 83227491,  
 JSX38-39-403  
 Servicing: E80E, 63102000A, 30002A,  
 30003A, 63101000, 63102000, 63102003,  
 63102004, 63102007, 63102008, 63103002  
 12 Volt, Length 17.50, Lead length 42.00,  
 Lead length 2 29.00/27.00,  
 Height 13.00, Thickness 7.00



**JSX38-412** Brush Set  
 Replacing: 83225266, JSX38-412  
 Servicing: E80E, 30000A, 30001A, 63101002,  
 63101008, 63222888, 63222889, 63222897,  
 63222905, 63222908, 63222909  
 12 Volt, Length 17.50, Lead length 28.00,  
 Height 13.00, Thickness 7.00



**JSX40-46-474** Brush Set  
 Replacing: 83226148, 83226189, JSX40-46-474  
 Servicing: E80E, 63103003, 63103007,  
 63103008, 63103015, 63103019, 63103022,  
 63103031, 63223182  
 12 Volt, Length 17.50,  
 Lead length 66.00, Lead length 2 28.00,  
 Height 13.00, Thickness 7.00



**JSX43-45-444** Brush Set  
 Replacing: 83225822, 83225823, 83225824,  
 JSX43-45-444  
 Servicing: E80E, 63223039, 63293039  
 12 Volt, Length 19.50,  
 Lead length 65.00, Lead length 2 28.00,  
 Height 13.00, Thickness 7.00



**JSX51-52-593** Brush Set  
 Replacing: 83227364, 83227370, JSX51-52-593  
 Servicing: E80F, 063102018010,  
 063102021010, 63102022, 63102018,  
 63102020, 63102021, 63103024  
 12 Volt, Length 19.50,  
 Lead length 36.00, Lead length 2 29.00,  
 Height 8.00, Thickness 7.00



**JSX51-52-634** Brush Set  
 Replacing: 83227357, JSX51-52-634  
 Servicing: E80F  
 12 Volt, Length 19.50,  
 Lead length 81.00, Lead length 2 28.00,  
 Height 8.00, Thickness 7.00



**JSX51-522** Brush Set  
 Replacing: 83227362, JSX51-522  
 Servicing: E80F, 63101015, 63101018,  
 63101021, 63101022, 63101023  
 12 Volt, Length 19.50,  
 Lead length 26.00, Height 8.00,  
 Thickness 7.00





### JSX52 Brush Set

Replacing: 74868171, 83226919, 83226920  
 Servicing: 63201000, 63201001, 63201002, 63201003, 63201004, 63201005, 63201101, 63220107, 63220108, 63220137  
 12 Volt, Length 17.00,  
 Lead length 24.50, Height 16.00,  
 Thickness 6.00



### JSX53-54 Brush Set

Replacing: JSX53-54  
 Servicing: E95RL, 63114014, 63114017, 63222005  
 12 Volt, Length 20.00,  
 Lead length 33.65, Lead length 2 162.46,  
 Height 19.00, Thickness 8.00



### JSX61-62-634 Brush Set

Replacing: 83227383, 83227584, 83227652, JSX61-62-634  
 Servicing: D80F  
 12 Volt, Length 19.50,  
 Lead length 81.00, Lead length 2 28.00,  
 Height 8.00, Thickness 7.00



### JSX94 Brush Set

Replacing: 74702610  
 Servicing: E115-3/24, 63223800, 63223802, 63223807, 63223830, 63223832  
 24 Volt, Length 20.00,  
 Lead length 32.61, Height 14.00,  
 Thickness 6.50



### LASX314 Brush Set

Replacing: 85541476  
 Servicing: M50, 63227569  
 12 Volt, Length 22.20,  
 Lead length 63.00, Height 19.00,  
 Thickness 7.90



### LASX364 Brush Set

Replacing: 85541333  
 Servicing: M50, M127, 63227570, 63227592, 63227606  
 12 Volt, Length 26.00,  
 Lead length 67.50, Height 20.00,  
 Thickness 9.00



### MASX13-144 Brush Set

Replacing: 72363201, 72363201/02, 72363202  
 Servicing: MT67, 63216701, 63216702, 63216703, 63216704, 63216706, 63216707, 63216710, 63216726, 63216727, 63216733  
 24 Volt, Length 23.00,  
 Lead length 44.00, Height 25.00,  
 Thickness 8.00



### MASX15-164 Brush Set

Replacing: 72363203/04, 72363205/06, 72363207  
 Servicing: MT68, 63216815, 63216851, 63216800, 63216814, 63216825, 63216826, 63216827, 63216874, 63216876, 63216884  
 12 Volt, Length 23.00,  
 Lead length 42.00, Height 25.00,  
 Thickness 10.00



### MASX17-184 Brush Set

Replacing: 72383701/02  
 Servicing: MT71, MT71Z  
 12 Volt, Length 23.00,  
 Lead length 42.00, Height 16.00,  
 Thickness 9.00



### MASX19-204 Brush Set

Replacing: 72383703/04, 72383705/06  
 Servicing: MT72, 63217201, 63217225, MT72A, MT72AA  
 24 Volt, Length 23.00,  
 Lead length 43.00, Height 16.00,  
 Thickness 9.00



### MASX21-224 Brush Set

Replacing: 72162401, 72162402  
 Servicing: MT67, 63216725, 63216726, 63216727, 63216731, 63216740, 63216741, MT67A, MT67AA, MT67AB, MT67AD, MT67CA  
 Length 23.00, Lead length 36.00,  
 Height 25.00, Thickness 8.00



### MASX23-244 Brush Set

Replacing: 62165801, 72162403, 72162404  
 Servicing: MT68, 63216817, 63216818, 63216831, 63216852, 63216861, 63216884, 63216896, 63216815, 63216851, 63216876  
 12 Volt, Length 23.00,  
 Lead length 35.00, Height 25.00,  
 Thickness 10.00





### MASX25-264 Brush Set

Replacing: 72161301, 72161302, MASX25-264  
Servicing: MT71, 63217126, 63217147, MT71A, MT71AA, MT71AB, MT71D, MT71DA, MT71DB, MT71E, MT71T, MT71TA, MT71Z  
12 Volt, Length 23.00, Lead length 37.00, Height 16.00, Thickness 9.00



### MASX27-284 Brush Set

Replacing: 72161303, 72161304, MASX27-284  
Servicing: MT72, 63217201, 63217225, 63217226, MT72A, MT72AA, MT72AB  
24 Volt, Length 23.00, Lead length 36.50, Height 16.00, Thickness 9.00

## Brushes

Pkg. 100



### JS22 Brush

Replacing: JSX21-22  
12 Volt, Length 17.48, Lead length 40.20, Height 12.85, Thickness 5.93  
Alternative no.: jsx21-22

Pkg. 100



### JS33 Brush

Replacing: 83227257, 83227258  
Servicing: E70R, 63113001  
12 Volt, Length 16.34, Lead length 34.00, Height 14.85, Thickness 5.90  
Alternative no.: jsx33-344

Pkg. 100



### JS34 Brush

Replacing: 83227257, 83227258  
Servicing: E70R, 63113001  
12 Volt, Length 16.34, Lead length 34.00, Height 14.85, Thickness 5.90  
Alternative no.: jsx33-344

Pkg. 100



### JS5/0# Brush

Replacing: JSX52  
Servicing: 63220505  
12 Volt, Length 17.03, Lead length 29.38, Height 15.94, Thickness 5.95  
Alternative no.: jsx52

## Bushings

Pkg. 10



### 140046 Bushing

Replacing: 74705710  
Servicing: 63222408, 63222438, 63222506, 63223203, 63223236, 63223237, 63223330, 63223332, E100-1.3/12V8  
ID 12.00, OD 16.00, Length 16.90, Material Copper, Pin w/o  
Alternative no.: B140046

Pkg. 10



### 140047 Bushing

Replacing: 74860380  
Servicing: 63221408, 63291405  
ID 10.08, OD 14.02, Length 15.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140047

Pkg. 10



### 140048 Bushing

Replacing: 74860300  
Servicing: 63111001, 63223537, 63111000, 63111005, 63111006, 63111007, 63111008, 63111010, 63111016, 63111017  
ID 12.07, OD 16.02, Length 14.00, Material Copper, Pin w/o  
Alternative no.: B140048

Pkg. 10



### 140049 Bushing

Replacing: 74866140  
Servicing: 63222408, 63222438, 63222506, E100-1.3/12V8  
ID 12.11, OD 16.01, Length 24.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140049

Pkg. 10



### 140050 Bushing

Replacing: 74868210  
Servicing: 063102018010, 063102021010, 63223200, 63101002, 63101018, 63101021, 63101022, 63101023, 63102003  
ID 10.08, OD 14.02, Length 13.50, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140050

Pkg. 10



### 140065 Bushing

Replacing: 74705810  
ID 14.07, OD 18.05, Length 20.15, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140065





Pkg. 10

### 140109 Bushing

Replacing: 74825410

Servicing: 63224580, 63224600, M125M3-Z9(3/12)

ID 16.12, OD 22.00, Length 19.00,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140201 Bushing

Replacing: 72365010

Servicing: 63216703, 63216725, 63216726,  
63216727, 63216731, 63216741, 63216747,  
63216748, 63216800, 63216814

ID 20.31, OD 24.00, Length 13.90,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140201

Pkg. 10



### 140202 Bushing

Replacing: 62362910, 72362910

Servicing: 63216703, 63216725, 63216726,  
63216727, 63216731, 63216740, 63216741,  
63216747, 63216748, 63216800

ID 14.16, OD 20.06, Length 12.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140202

Pkg. 10



### 140268 Bushing

Replacing: 74881110

Servicing: 63114014, 63221300, 63221302,  
63221303, 63221330, 63221333, 63221400,  
63221401, 63221403, 63221404

ID 12.09, OD 16.00, Length 12.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140268


Pkg. 10

### 140269 Bushing

Replacing: 74887310

ID 12.03, OD 16.02, Length 17.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140269

Pkg. 10



### 140270 Bushing

Replacing: 74887810, 74887890

Servicing: 63223203

ID 12.07, OD 16.02, Length 11.30,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140270

Pkg. 10



### 140452 Bushing

Replacing: 74827010

Servicing: 63224580, 63224600, M125M3-  
Z9(3/12)

ID 24.20, OD 29.00, Length 18.00,  
Material Copper, Pin w/o

Pkg. 10



### 140614 Bushing

Servicing: 50246416, 63114008, 63114010,  
63114014, 63114017, 63221801, 63221831,  
63222000, 63222005, 63222030

ID 15.18, OD 18.12, Length 11.90,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140614


Pkg. 10

### 140653 Bushing

Servicing: 63111000, 63111001, 63111005,  
63111006, 63111007, 63111008, 63111010,  
63111016, 63111018, 63111036

ID 8.10, OD 12.00, Length 8.75,  
Material Copper, Pin w/o

Pkg. 10



### 140654 Bushing

Servicing: 63111000, 63111005, 63111008,  
63111018, 63113003, 63193001, 63223431,  
63223432, 63223433, 63223435

ID 18.16, OD 23.05, Length 7.43,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140690 Bushing

ID 11.53, OD 13.50, Length 23.00,  
Material Copper, Pin w/o  
Alternative no.: B140690


### 140827 Bushing Kit

Servicing: 63216884, MT68PB

Pkg. 10



### 140947 Bushing

Servicing: 63111001, 63111005, 63111006,  
63111008, 63111010, 63111016, 63111017,  
63111018, 63111023, 63111036

ID 8.02, OD 11.50, OD/collar 14.50,  
Length 9.98, Height/collar 1.50,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140947



Pkg. 10



**141017** Bushing  
ID 18.03, OD 23.00, Length 9.20,  
Material Copper, Pin w/o

Pkg. 10



**141091** Bushing  
Servicing: 63280071, 63101007, 63191007  
ID 8.12, OD 11.55, OD/collar 14.10,  
Length 9.00, Height/collar 1.50,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



**141092** Bushing  
Servicing: 63111007  
ID 11.15, OD 13.97, Length 13.90,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



**141197** Bushing  
Servicing: 63111001, 63111005, 63111006,  
63111007, 63111010, 63111016, 63111036,  
63111037, 63113002, 63191001  
ID 18.08, OD 23.05, Length 9.30,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



**141271** Bushing  
Servicing: 138533  
ID 11.51, OD 12.86, Length 25.00,  
Type Standard, Material Steel, Pin w/o

Pkg. 10



**142033** Bushing  
Servicing: 63101007, 63191007  
ID 11.10, OD 14.03, Length 13.80,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



**142034** Bushing  
ID 18.19, OD 20.98, Length 9.00,  
Type Mount., Material Copper, Pin w/o

Pkg. 100



**B140046** Bushing  
Replacing: 74705710  
ID 12.00, OD 16.00, Length 16.90,  
Material Copper, Pin w/o  
Alternative no.: 140046

Pkg. 100



**B140047** Bushing  
Replacing: 74860380  
ID 10.08, OD 14.04, Length 15.00,  
Material Copper, Pin w/o  
Alternative no.: 140047

Pkg. 100



**B140048** Bushing  
Replacing: 74860300  
ID 12.07, OD 16.02, Length 14.00,  
Material Copper, Pin w/o  
Alternative no.: 140048

Pkg. 100



**B140049** Bushing  
Replacing: 74866140  
ID 12.11, OD 16.01, Length 24.00,  
Material Copper, Pin w/o  
Alternative no.: 140049

Pkg. 100



**B140050** Bushing  
Replacing: 74868210  
Servicing: 63101015, 63102022  
ID 10.08, OD 14.04, Length 13.50,  
Material Copper, Pin w/o  
Alternative no.: 140050

Pkg. 100



**B140065** Bushing  
Replacing: 74705810  
ID 14.07, OD 18.05, Length 20.15,  
Material Copper, Pin w/o  
Alternative no.: 140065

Pkg. 100



**B140200** Bushing  
Replacing: 72362510  
Servicing: MT71FB, MT71GB  
ID 12.60, OD 18.55, Length 19.70,  
Material Copper, Pin w/o

Pkg. 100



**B140201** Bushing  
Replacing: 72365010  
ID 20.31, OD 24.00, Length 13.90,  
Material Copper, Pin w/o  
Alternative no.: 140201





Pkg. 100

### B140202 Bushing

Replacing: 62362910, 72362910

ID 14.15, OD 20.08, Length 11.90,

Material Copper, Pin w/o

Alternative no.: 140202



Pkg. 100

### B140268 Bushing

Replacing: 74881110

ID 12.09, OD 16.00, Length 12.00,

Type Standard, Material Copper, Pin w/o

Alternative no.: 140268



Pkg. 100

### B140269 Bushing

Replacing: 74887310

ID 12.03, OD 16.02, Length 17.00,

Material Copper, Pin w/o

Alternative no.: 140269



Pkg. 100

### B140270 Bushing

Replacing: 74887810, 74887890

ID 12.08, OD 16.02, Length 11.30,

Material Copper, Pin w/o

Alternative no.: 140270



Pkg. 100

### B140614 Bushing

ID 15.17, OD 18.12, Length 11.80,

Material Copper, Pin w/o

Alternative no.: 140614



Pkg. 100

### B140690 Bushing

ID 11.53, OD 13.50, Length 23.00,

Material Copper, Pin w/o

Alternative no.: 140690



Pkg. 100

### B140947 Bushing

Servicing: 63112003, 63113001, 63193001

ID 8.02, OD 11.50, OD/collar 14.50,

Length 9.98, Height/collar 1.50,

Type Standard, Material Copper, Pin w/o

Alternative no.: 140947

## Bearings

### Needle Bearings



Pkg. 10

### 140242 FAG Needle Bearing

Replacing: 83222270

Servicing: PMGR SERIES, M78, M79, 63112003,

63113001, 63223538, 63280071, 63293538,

944280166000, 63111006, 63111023, 63111043

ID 12.00, OD 16.00, Height 10.00



Pkg. 5

### 140483 Needle Bearing

Servicing: 50246416, 63221801, 63221831,

63222000, 63222001, 63222030, 63222031,

63222034, 63222036, 63222038

ID 12.00, OD 18.00, Height 14.00

## Repair Kits



### 138374 Repair Kit

Servicing: 63114010, 63221801, 63221831,

63222000, 63222001, 63222030, 63222031,

63222034, 63222035, 63222036

## Sundry Parts

### Bracket Parts

### Mounting Bushings

Pkg. 10



### 238418 Mounting Bushing

Servicing: 63320112, 63320128, 63321061,

63321197, 63321493

ID 12.20, OD 21.10, Length 42.10, Pin w/

### Thru Bolts



### 231378 Through Bolt

Servicing: 63114010, 63222034, 63222138

Total length 181.25, Thread size M6,

Thread size/rear M6, Shaft w/

## Covers



### 137738 Cover

Servicing: 63216741, 63216831, 63216884,

63217226, 63221535, MT67CB, MT68AD,

MT68LC, MT68PB, MT68RA, MT68T

OD 64.90, Height 9.20



## Various


**134604** Cover Band

Servicing: 63220700, 63220701, 63220703, 63220704, 63220705, 63220706, 63220721, 63220724, 63220734, 63220743  
Mount hole 5.30, OD 95.00, Height 32.00

Pkg. 10


**135644** Screw

Replacing: 74751110  
Servicing: 063102018010, 063102021010, 63101015, 63102003, 63102022, 63103002, 63223101, 74751110, 30000A  
Thread M10, Total length 12.10, Thread length 7.40, Shaft w/, Washer w/o

Pkg. 10


**136321** Insulator

**139889** Spacer

Servicing: 63221431, 63222034, 63222138  
ID 6.40, OD 22.00, OD/collar 18.00, Height 17.75, Height/collar 7.70, Material Steel, Collar w/, Gasket w/o, O-ring w/o

Pkg. 10


**231559** Grommet

Servicing: 63101008, 63223035, 63223433, 63223435, 63223436, 63223438, 63223531

Pkg. 10


**232849** Rubber Bushing

Servicing: 63111001, 63111005, 63111006, 63111007, 63111008, 63111018, 63111037, 63113002, 63191001, 63193001  
ID 38.40, OD 54.85, Length 9.30, Material Rubber, Pin w/o


**233827** Washer Kit

Servicing: 63216725, 63216726, 63216727, 63216800, 63216814, 63216825, 63216826, 63216827, 63216874, 63217201  
OD 37.10, Thickness 7.00, Material Steel, Bushing w/o



## Armatures

12 V



### 131929 Armature

Manufacturer: Magnetron

Replacing: 0158061, 443930158061

Servicing: 443115144702, 443115144722, 443115144742, 443115144763, 9144702, 9144703, 9144722, 9144742, 9144743  
12 Volt, 3.0 kW, Shaft dia. 18.95, Shaft length 324.40, Height/bar 4.55, Height/bar lane 30.20, Core thickness 75.00, No./bars 19, No./splines 12, Rotation CW

## Solenoids

12 V



### 130904 Solenoid

Replacing: 0157912, 443930157911

Servicing: 02914207, 11490400, 443115142062, 443115142063, 443115142110, 443115142112, 443115142162, 9142063  
12 Volt, B+ M10, ID/cover 24.20, OD 54.70, OD/cover 55.20, Length 71.80, Total length 134.20, Height/B+ 21.25, Terminal 15A/width 9.85, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 22.75, No./mount. holes 2, No./terminals 4, Fork lever w/o  
Cap: HC-CARGO 133413.



### 132120 Solenoid

Replacing: 0157972, 443930157971

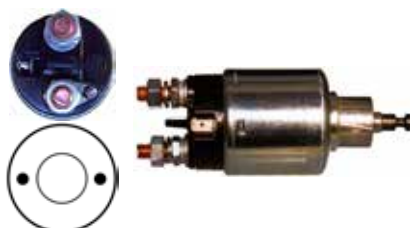
Servicing: 44311514442, 443115144702, 443115144722, 443115144724, 443115144742, 443115144763  
12 Volt, B+ M10, ID/cover 24.35, OD 54.85, OD/cover 55.15, Length 84.80, Total length 151.35, Height/B+ 24.45, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 25.25, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 135773.



### 134795 Solenoid

Replacing: 443930150241, 443937150241, 7150242

Servicing: 11590400, 443115142350  
12 Volt, B+ M10, ID/cover 24.35, OD 55.00, OD/cover 55.00, Length 59.25, Total length 144.45, Height/B+ 21.45, Terminal 50 6.30, Coil bolt M10, Coil bolt 2 21.35, No./mount. holes 2, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 135773.



### 136270 Solenoid

Replacing: 113937150870, 443937150870, 7150872

Servicing: 443115141310, 443115141311, 443115141320, 9141310, 9141311, 9141312, 9141317, 9141319, 9141320  
12 Volt, B+ M8, ID/cover 24.10, OD 49.85, OD/cover 44.65, Length 52.30, Total length 114.25, Height/B+ 21.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 20.90, No./mount. holes 2, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 139329.



### 231681 Solenoid

Replacing: 443937151560, 7152560, 7152762, 7153142, 7153182, 7153612, 7153912, 7154142

Servicing: 443115142700, 443115142701, 443115142702, 443115142723, 443115142740, 443115142780, 9142700  
12 Volt, B+ M10, ID/cover 24.30, OD 54.80, OD/cover 55.10, Length 55.25, Total length 122.00, Height/B+ 24.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 25.10, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 235488 Solenoid

Manufacturer: Magnetron

Replacing: 7152822

Servicing: 443115141331, 443115141338, 7141331, 7141338, 9141331

12 Volt, B+ M8, ID/cover 16.80, OD 50.00, OD/cover 47.80, Length 52.30, Switch dim. 8.60, Height/B+ 14.00, No./mount. holes 2, No./terminals 3, Bracket type Crimp

## Solenoid Parts

### Solenoid Caps



### 133413 Solenoid Cap

Replacing: 0157541, 443930157540

Servicing: 02914207, 11490400, 443930157911, 443115142071, 443115142110, 443115142112  
ID 41.00, OD 55.20, Coil bolt M10, Coil bolt 2 21.15, No./terminals 4  
HC-CARGO 130904.



### 135773 Solenoid Cap

Replacing: 0157941, 443930157940, 443930157941

Servicing: 11590400, 443930157971, 443930157971, 44311514442, 443115142350, 443115144420, 443115144620  
ID 41.65, OD 55.00, Coil bolt M10, Coil bolt 2 21.70, No./terminals 3  
HC-CARGO 132120, 134795.



### 139329 Solenoid Cap

Servicing: 443937150870

ID 39.20, OD 47.60, Switch dim. 26.40, No./terminals 3, Bracket type Crimp  
HC-CARGO 136270.



## Moving Contacts

Pkg. 5



### 133412 Moving Contact

Replacing: 0157561, 443930157560  
 Servicing: 02914207, 11490400, 11590400, 443115142071, 443115142350, 443115142110, 443115142112  
 OD 2 7.85, Length 28.50, Shaft dim. 30.00, Thickness 2.00, Width 16.00, Material Copper, Shaft w/

## Drives



### 130729 Drive

Replacing: 443930154210, 443930154211, 8014251  
 Servicing: 44311514442, 443115144722, 443115144742, 9144722, 9144742, 9144743  
 ID 14.65, OD 40.70, OD/housing 59.00, Total length 91.25, Splines A 12, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 132941 Drive

Replacing: 443937150171, 7150171  
 Servicing: 11590400, 443115142350  
 ID 12.55, OD 25.35, OD/housing 54.00, Total length 78.95, Splines A 12, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 136267 Drive

Replacing: 443937150860, 7150860, 7152860, 7152960, 7153860  
 Servicing: 443115141310, 443115141311, 9141310, 9141311, 9141391, 9141393, 9141394, 9141395, 9141396, 9141399  
 OD 25.40, Total length 78.45, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 231679 5★ Drive

Replacing: 7153180  
 Servicing: 443115142780, 9142780  
 OD 56.00, Total length 107.70, Shaft length/D.E. house 39.00, No./teeth 10

## Levers



### 139615 Lever

Manufacturer: Magnetron  
 Replacing: 5233420  
 Servicing: 443115141310, 443115141311, 443115141320, 443115141331, 443115141338, 9141331, 9141430  
 Dist. 5.09, Length 51.40, Plunger w/o

## Brush Gears



### 136449 Brush Gear

Servicing: 443115141310, 443115141311, 443115141331, 443115141338, 9141331, 9141430  
 12 Volt, ID 39.90, OD 73.65, Height 21.10

## Brush Sets



### PLSX24 Brush Set

Replacing: PLSX24  
 12 Volt, Length 25.35, Lead length 32.50, Height 12.85, Thickness 8.90



### PLSX34 Brush Set

Replacing: 334174503246, 344112021, 344122021, 344154113246, 344174503246  
 Servicing: 9142063, 9142110, 9142112, 9142350  
 12 Volt, Length 22.00, Lead length 33.00, Height 12.00, Thickness 8.00



### PLSX44 Brush Set

Replacing: 344112027, 344154123387, 344174143386, 932232  
 Servicing: 9144702, 9144703, 9144722, 9144724, 9144742, 9144743, 9144744, 9144763, 9144764, 9144820, 9144821  
 12 Volt, Length 26.00, Lead length 50.00, Lead length 2 45.00, Height 26.60, Thickness 8.80



### PLSX54 Brush Set

Replacing: PLSX54  
 Servicing: 443115141310, 443115141311, 443115141331, 443115141338, 9141331, 9141430  
 12 Volt, Length 12.50, Lead length 21.00, Height 12.50, Thickness 6.00



### PLX102 Brush Set

Length 15.00, Lead length 51.00, Height 6.00, Thickness 6.00



## Brushes



Pkg. 10

### PLS3/0 Brush

Replacng: 110904300

12 Volt, Length 22.34,  
Lead length 35.54, Height 11.88,  
Thickness 7.96

## Bushings



Pkg. 10

### 140012 Bushing

Replacng: 323125723125

Servicing: 02914207, 11490400,  
11590400, 443115142071, 443115142110,  
443115142350

ID 12.56, OD 16.55, Length 14.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140012


Pkg. 10

### 140397 Bushing

Replacng: 931550

ID 23.10, OD 27.05, Length 20.00,  
Material Copper, Pin w/o


Pkg. 10

### 140527 Bushing

Replacng: 931544

ID 15.00, OD 20.00, Length 19.85,  
Type Standard, Material Copper, Pin w/o


Pkg. 10

### 140691 Bushing

Replacng: 323114016, 323144016,  
323622642933, 323662642933

Servicing: 11590400, 9142063, 9142110,  
9142112, 9142350, 443115142112,  
443115142350

ID 9.95, OD 14.00, Length 14.75,  
Material Copper, Pin w/o


Pkg. 10

### 140756 Bushing

Replacng: 2000940, 323114011,  
323125527131, 323125641703, 323622641703

Servicing: 9144702, 9144722, 44311514442,  
9144724, 9144742, 9144743, 9144744,  
9144763, 9144764, 9144820

ID 14.52, OD 18.00, Length 17.00,  
Material Copper, Pin w/o  
Alternative no.: B140756


Pkg. 10

### 140758 Bushing

Replacng: 323125436125

Servicing: 44311514442, 443115144420,  
443115144620, 443115144722

ID 19.06, OD 22.55, Length 14.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140758


Pkg. 100

### B140756 Bushing

Replacng: 2000940, 323114011,  
323125527131, 323125641703, 323622641703

ID 14.52, OD 18.00, Length 17.00,  
Material Copper, Pin w/o  
Alternative no.: 140756


Pkg. 100

### B140758 Bushing

Replacng: 323125436125

ID 19.05, OD 22.56, Length 13.90,  
Material Copper, Pin w/o

Alternative no.: 140758

## Bearings

### Needle Bearings



Pkg. 5

### 140381 Needle Bearing

Replacng: 324592000000, 324592003

Servicing: 443115142740, 83355051,  
9142700, 9142702, 9142704, 9142708,  
9142709, 9142720, 9142722, 9142723

ID 22.00, OD 28.00, Height 12.00

## Sundry Parts

### O-rings



Pkg. 5

### 136681 O-ring

Replacng: 273111014174

Servicing: 44311514442, 443115144702,  
443115144722, 443115144742,  
443115144420, 443115144620

ID 38.00, Thickness 2.50, Colour Black



## Solenoids

12 V



### 133076 Solenoid

Servicing: SM302-02, SM302-04, SM302-08, SM302-16, SM302-19, SM302-24, SM302-40, SM402-04N

12 Volt, B+ M8, OD 50.65, OD/cover 43.80, Total length 130.00, Height/B+ 17.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.70, No./mount. holes 3, No./terminals 3



### 136983 Solenoid

Servicing: SM302-07, SM302-10, SM302-12, SM302-15, SM302-24, SM302-25, SM302-44, SM302-44N, SM302-45

12 Volt, B+ M8, OD 50.70, OD/cover 43.20, Total length 129.55, Height/B+ 16.40, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.35, No./mount. holes 3, No./terminals 3



### 137023 Solenoid

Servicing: SM302-22, SM402-04, SM402-04N, SM402-05, SM402-05N, SM402-11N

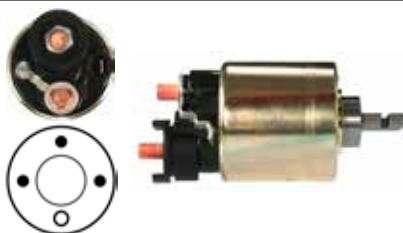
12 Volt, B+ M8, OD 51.70, OD/cover 47.65, Total length 129.00, Height/B+ 16.15, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.80, No./mount. holes 3, No./terminals 3



### 230018 Solenoid

Servicing: SM402-01, SM442-32, SM442-36

12 Volt, B+ M8, OD 50.80, OD/cover 45.25, Total length 117.20, Height/B+ 9.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 6.25, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 232009.

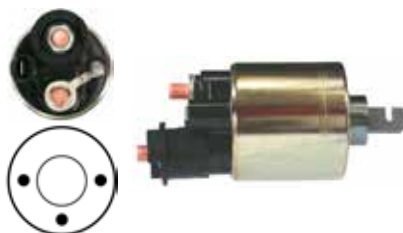


### 232003 Solenoid

Servicing: SM422-09, SM442-01, SM442-08, SM442-10, SM442-19, SM442-22, SM442-24

12 Volt, B+ M8, OD 50.85, OD/cover 46.35, Total length 111.85, Height/B+ 11.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.60, No./mount. holes 3, No./terminals 3, Fork lever w/o

Cap: HC-CARGO 232005.



### 232004 Solenoid

Servicing: SM422-02, SM442-02

12 Volt, B+ M8, OD 50.90, OD/cover 45.45, Total length 115.55, Height/B+ 9.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.50, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 234160 Solenoid

Servicing: SM422-09, SM442-01

12 Volt, B+ M8, OD 51.70, OD/cover 49.10, Total length 112.65, Height/B+ 11.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.20, No./mount. holes 3, No./terminals 3



### 234161 Solenoid

Servicing: SM422-27

12 Volt, B+ M8, OD 51.75, OD/cover 49.00, Total length 122.80, Height/B+ 10.90, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.70, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 237404 Solenoid

Servicing: SM442-25, SM442-46

12 Volt, No./terminals 3

## Solenoid Parts

### Solenoid Caps

Pkg. 5



### 232005 Solenoid Cap

Servicing: SM422-09, SM422-10, SM442-10, SM442-23, SM44223

ID 38.30, OD 48.70, Coil bolt M8, Coil bolt 2 8.80, No./terminals 2, Bracket type Crimp  
HC-CARGO 232003.

Pkg. 5



### 232009 Solenoid Cap

Servicing: SM402-01

ID 33.55, OD 49.25, Coil bolt M8, Coil bolt 2 9.90, No./terminals 3, Bracket type Crimp  
HC-CARGO 230018.

## Moving Contacts

Pkg. 5



### 132037 Moving Contact

OD 2 5.85, Length 33.20, Shaft dim. 28.00, Thickness 2.50, Width 14.00, Material Steel, Shaft w/ Alternative no.: B132037



## Drives



### 134284 Drive

Servicing: SM302-01, SM302-02, SM302-03, SM302-04, SM302-07, SM302-08, SM302-09, SM302-10, SM302-12, SM302-15  
OD 28.35, Total length 99.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 230761 Drive

Servicing: SM13  
OD 44.50, Total length 107.00, No./teeth 19, Rotation CCW, Key spline w/o, Lock w/o



### 230762# Drive

Replacing: SM1329850  
Servicing: SM13, SM13298  
OD 39.00, Total length 91.50, No./teeth 17, Rotation CCW, Key spline w/o, Lock w/o

## Drive Parts

### Rollers



### 238549# Roller

OD 8.00, Length 11.90

Pkg. 100

## Brush Gears



### 232311 Brush Gear

Servicing: SM402-01, SM402-03, SM402-04, SM402-04N, SM402-05, SM402-05N, SM402-16, SM402-16N, SM402-17  
12 Volt, ID 30.50, OD 65.80, Lead length 67.50, Height 21.00



### 234139 Brush Gear

Servicing: SM302-01, SM302-02, SM302-03, SM302-04, SM302-07, SM302-08, SM302-09, SM302-10, SM302-12, SM302-15  
ID 29.70, OD 60.65, Height 18.80  
Brush set: HC-CARGO 140706 (x2).

## Brush Sets



### 140706 Brush Set

Servicing: SM302-01, SM302-02, SM302-03, SM302-04, SM302-07, SM302-08, SM302-09, SM302-10, SM302-12, SM302-15  
12 Volt, Length 15.00, Lead length 33.00, Height 14.00, Thickness 6.00



### 140841 Brush Set

Servicing: SM402-01, SM402-04, SM402-04N, SM402-05, SM402-05N, SM402-10, SM402-16, SM402-16N, SM402-17  
12 Volt, Length 16.50, Lead length 121.00, Lead length 2 35.00, Height 17.00, Thickness 4.70



### 141246 Brush Set

Servicing: SM442-25  
12 Volt, Length 16.00, Lead length 30.00, Lead length 2 35.00, Height 17.00, Thickness 5.00

## Bushings

Pkg. 10



### 140648 Bushing

Servicing: SM302-01, SM302-02, SM302-03, SM302-07, SM302-09, SM302-10, SM302-12, SM302-15, SM302-25, SM302-27  
ID 8.12, OD 13.10, Length 8.34, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140698# Bushing

ID 23.55, OD 27.00, Length 5.85, Material Copper, Pin w/o

## Bearings

### Ball Bearings

Pkg. 10



### 140848 628 ZZ/C3

Replacing: 628ZZC3  
Servicing: SM402-05N, SM402-01, SM402-04, SM402-04N, SM402-05, SM402-10, SM402-16, SM402-16N, SM402-17  
ID 8.00, OD 24.00, Height 8.00





**140878 FAG** 6403-2RS1

Replacing: 64032RS1C3

Servicing: SM402-05N

ID 17.00, OD 62.00, Height 17.00

### Needle Bearings

Pkg. 5



**140468** Needle Bearing

ID 8.00, OD 12.00, Height 10.00

### Sundry Parts

#### Various

Pkg. 5



**135013** Washer

ID 23.10, OD 46.00, OD/collar 30.95,  
Height/collar 3.45, Thickness 2.35, Bushing w/



## Armatures

### 12 V



#### 132484 Armature

**Replacing:** M106X01171, M106X01471, M106X08571, M106X29471, M106X51571, M106X53171, M106X53571, M106X54971  
**Servicing:** M002T50171, M002T50281, M002T50371, M002T50381, M002T50391, M002T51082, M002T51181, M002T51281  
 12 Volt, 1.4 kW, Bar dist. 2.00, Bar cross dist. 32.45, Shaft length 147.80, Bar length 4.50, Height/bar 4.90, Height/bar lane 16.70, Core thickness 53.65, No./bars 25, No./teeth 9, Rotation CW/CCW



#### 132486 Armature

**Replacing:** M106X02271, M106X29871, M106X41671, M106X41672, M106X41673, M106X41674, MD607636, MD618369  
**Servicing:** M002T54271, M002T54272, M002T54371, M002T54372, M002T54471, M002T54572, M002T54671, M002T54771  
 12 Volt, 2.0 kW, Bar dist. 2.25, Bar cross dist. 38.35, Shaft length 152.00, Bar length 4.35, Height/bar 4.25, Height/bar lane 22.60, Core thickness 53.20, No./bars 25, No./teeth 9, Rotation CW/CCW



#### 132487 Armature

**Replacing:** M106X40671, M106X50671  
**Servicing:** M002T60071, M002T60072, M002T60171, M002T60172, M002T92071, M002T92171, M002T92172, M2T60071  
 12 Volt, 2.2 kW, Bar dist. 2.65, Bar cross dist. 34.85, Shaft length 169.00, Bar length 5.00, Height/bar 5.45, Height/bar lane 29.20, Core thickness 53.60, No./bars 23, No./teeth 9, Rotation CW/CCW



#### 134071 Armature

**Replacing:** M106T01871, M106X01271, M106X01871, M106X53271, M106X55071, M106X57271, MD607413  
**Servicing:** M002T52081, M002T53085, M002T53882, M2T52081, M2T53085, M2T53882, M002T52082, M002T52871  
 12 Volt, 1.2 kW, Bar dist. 2.00, Bar cross dist. 32.45, Shaft length 139.50, Bar length 4.50, Height/bar 4.90, Height/bar lane 16.70, Core thickness 53.65, No./bars 21, No./teeth 9, Rotation CW/CCW



#### 134736 Armature

**Replacing:** M106T05770, M106T05771, M106T07472, M106T07771, M106T50271, M106T52571, M106X50271, M106X50871  
**Servicing:** M003T30881, M003T30981, M003T32583, M003T32588, M003T32591, M003T32592, M003T32991, M003T33281  
 12 Volt, 0.8 kW, Bar dist. 2.30, Bar cross dist. 32.15, Shaft length 183.10, Bar length 5.00, Height/bar 5.00, Height/bar lane 18.45, Core thickness 60.00, No./bars 21, No./splines 8, Rotation CW



#### 135832 Armature

**Replacing:** M106T04271, M106T06971, M106T08671, M106T50171, M106T52171, M106X08671, M106X52171, M106X52471  
**Servicing:** M001T77781, M1T77781, M001T60081, M001T60181, M001T60581, M001T70381, M001T70381A, M001T70387  
 12 Volt, 1.2/1.4 kW, Bar dist. 2.00, Bar cross dist. 37.50, Shaft length 121.40, Bar length 3.80, Height/bar 5.45, Height/bar lane 18.35, Core thickness 53.80, No./bars 29, No./teeth 11, Rotation CW/CCW



#### 136334 Armature

**Replacing:** M106X06971, M106X50171, M106X50471, M806X06971, MD611204, MD618451  
**Servicing:** M001T70481, M001T70681, M001T70685, M001T70981, M001T70982, M001T70985, M001T71081, M001T71281  
 12 Volt, 1.2/1.4 kW, Bar dist. 2.00, Bar cross dist. 37.35, Shaft dia. 13.75, Shaft length 121.60, Bar length 4.55, Height/bar 4.45, Height/bar lane 16.85, Core thickness 53.80, No./bars 29, No./teeth 11



#### 138417 Armature

**Replacing:** M00106T04771, M00106T08371, M106T04771, M106T08371, M106X52271  
**Servicing:** M002T42881, M002T44081, M002T44681, M002T44781, M002T46081, M002T46081ZE, M002T47281, M002T48081  
 12 Volt, 0.8 kW, Bar dist. 2.30, Bar cross dist. 32.70, Shaft dia. 18.00, Shaft length 177.55, Bar length 4.40, Height/bar 6.00, Height/bar lane 18.20, Core thickness 53.80, No./bars 21, No./splines 8, Rotation CW



#### 138962 Armature

**Replacing:** M106X43571, M106X43572, MD618958  
**Servicing:** M002T84071, M002T84171, M002T84571, M002T87071, M002T87171, M002T87371, M002T87471, M002T87671  
 12 Volt, 2/2.2 kW, Bar dist. 2.00, Bar cross dist. 37.40, Shaft dia. 17.55, Shaft length 141.00, Bar length 4.45, Height/bar 5.35, Height/bar lane 17.80, Core thickness 54.00, No./bars 25, No./teeth 13, Rotation CW





### 139398 Armature

Replacing: M106T57671, M106X57671, M106X58771, MD619164

Servicing: M0T84281, M0T84881ZC, M000T65381, M000T80081, M000T80082, M000T80281, M000T80281A, M000T80285  
12 Volt, 1.0 kW, Bar dist. 2.00, Bar cross dist. 37.50, Shaft dia. 13.60, Shaft length 106.75, Bar length 3.80, Height/bar 5.45, Height/bar lane 18.35, Core thickness 53.75, No./bars 29, No./teeth 9, Rotation CW/CCW



### 139646 Armature

Replacing: M106X29271, M106X29272, M106X41971

Servicing: M003T67671, M003T90071, M003T90072, M3T67171, M3T67172, M3T67281, M3T67671, M3T90071, M3T90072  
12 Volt, 2.5 kW, Shaft dia. 21.80, Shaft length 177.50, Height/bar 4.90, Height/bar lane 30.80, Core thickness 60.00, No./bars 23, No./teeth 9, Rotation CW



### 230499 Armature

Replacing: M106X58671, M106X58971, M106X59771

Servicing: M000T60081, M000T60081A, M000T60181, M000T60181A, M000T85681, M000T85781, M000T85881, M000T85981  
12 Volt, 1.4 kW, Bar dist. 2.00, Bar cross dist. 37.50, Shaft length 113.30, Bar length 3.80, Height/bar 5.45, Height/bar lane 18.35, Core thickness 53.60, No./bars 29, No./teeth 9



### 231468 Armature

Servicing: M001T80181, M001T80381, M1T80181, M1T80381, 1810A101, M001T80081, M001T80082, M1T80081, M1T80082

12 Volt, 1.7 kW, Shaft dia. 13.68, Shaft length 131.95, Height/bar 4.05, Height/bar lane 25.30, Core thickness 53.90, No./bars 25, No./teeth 9, Rotation CW



### 231471 Armature

Replacing: M106X07271, M106X50571, M106X58171

Servicing: M001T74081, M001T74087, M001T74181, M001T74281, M001T74381, M001T74381A, M001T74491, M001T74581  
12 Volt, 1.7/2 kW, Shaft dia. 13.72, Shaft length 143.55, Height/bar 4.05, Height/bar lane 25.30, Core thickness 54.00, No./bars 25, No./teeth 11, Rotation CW/CCW



### 234974 Armature

Servicing: M001T85682, M1T85682, M001T85681, M001T85781, M001T85981, M001T87081, M1T85681, M1T85781, M1T85981

12 Volt, 1.4/1.7 kW, Bar dist. 2.53, Bar cross dist. 35.76, Shaft dia. 13.50, Shaft length 128.20, Bar length 5.37, Height/bar 3.86, Height/bar lane 18.30, Core thickness 53.80, No./bars 25, No./teeth 11, Rotation CW



### 235247 Armature

Servicing: M001T80481, M1T80481

12 Volt, 1.4 kW, Shaft dia. 15.50, Shaft length 133.00, Height/bar 4.05, Height/bar lane 25.30, Core thickness 54.00, No./bars 25, No./teeth 11, Rotation CW

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### 236914 Armature

Replacing: M106X59371

Servicing: M001T68281, M001T68381, M001T70281, M001T84281, M001T84481, M001T84883, M001T84883ZC, M001T84884  
12 Volt, 1.4 kW, Shaft length 125.50, Core thickness 53.70, No./bars 25, No./teeth 9



### 237825 Armature

Replacing: M106X43871

Servicing: M008T71371, M008T71371ZE, M008T71471, M008T71471ZE, M008T75371, M2T84271, M2T84371, M2T84671  
12 Volt, 1.7 kW, Shaft length 141.10, Height/bar lane 17.25, Core thickness 53.70, No./bars 25, No./teeth 11



### 239517 Armature

Servicing: M000T20871ZE, M000T20872, M000T20872ZE, M000T22471, M000T20871, M0T20871ZE, M0T20872, M0T20872ZE

12 Volt, 1.7 kW, Bar dist. 2.53, Bar cross dist. 35.76, Shaft length 115.50, Bar length 5.37, Height/bar 3.86, Height/bar lane 18.30, Core thickness 53.60, No./bars 25, No./teeth 9



### 239829 Armature

Servicing: M001T30071, M001T30171, M001T30172, M001T30173, M1T30073, M1T30171, M1T30172, M1T30173, M001T30072

12 Volt, 1.9 kW, Bar dist. 2.75, Bar cross dist. 37.00, Shaft length 133.26, Bar length 5.90, Height/bar 3.90, Height/bar lane 24.00, Core thickness 57.20, No./bars 23, No./teeth 13





### 330035 Armature

Replacing: M106X64771

Servicing: M000T32171, M000T32172, M000T32172ZE, M000T32173ZE, M000T32177, M0T32171, M0T32172, M0T32172ZE

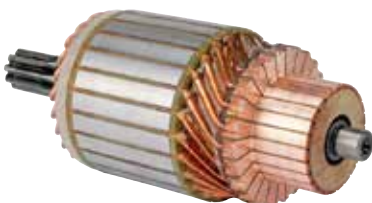
12 Volt, Bar dist. 2.00, Bar cross dist. 37.50, Shaft length 100.50, Bar length 3.80, Height/bar 5.45, Height/bar lane 18.35, Core thickness 53.73, No./bars 29, No./teeth 9, Rotation CW



### 330369 Armature

Servicing: M002T85671, M002T85672, M008T76071, M008T76072, M008T76072ZE, M2T85671, M2T85672, M8T76071

12 Volt, 2.0 kW, Bar dist. 2.00, Bar cross dist. 37.40, Shaft length 141.30, Bar length 4.45, Height/bar 5.35, Height/bar lane 17.80, Core thickness 53.78, No./bars 25, No./teeth 11, Rotation CW



### 330725 Armature

Servicing: M002TS0571, M002TS0575, M2TS0571, M2TS0575

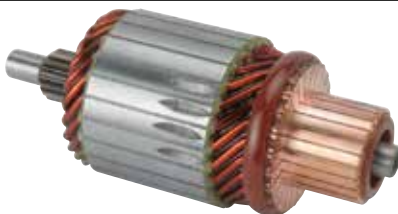
12 Volt, 2.2 kW, Bar dist. 2.00, Bar cross dist. 37.40, Shaft length 140.06, Bar length 4.45, Height/bar 5.35, Height/bar lane 17.80, Core thickness 53.75, No./bars 25, No./splines 9, Rotation CW



### 331526 Armature

Servicing: M000T45171ZT, M0T45171, M0T45171ZT, M000T45171, M000T46371ZT, M000T46572ZT

12 Volt, 0.8 kW, Shaft dia. 17.00, Shaft length 171.00, Height/bar lane 19.10, Core thickness 52.96, No./bars 29, No./splines 12, Rotation CW



### 332333 Armature

Servicing: M001T80681

12 Volt, 2.2 kW, Shaft length 133.10, Height/bar lane 23.15, Core thickness 53.75, No./bars 25, No./teeth 13



### 335685 Armature

Replacing: M106X43472

Servicing: M008T55171, M008T50471, M8T50471, M8T55171, M8T55471

12 Volt, Shaft length 169.50, Height/bar lane 29.40, No./bars 23, No./teeth 13, Core thickness 53.60

### 24 V



### 133034 Armature

Replacing: M106X29371

Servicing: M002T64271, M002T65271, M002T65272, M002T66871, M002T66872, M002T66873, M002T67871, M002T67872

24 Volt, 3.2 kW, Bar dist. 2.25, Bar cross dist. 38.35, Shaft length 151.40, Bar length 4.35, Height/bar 4.25, Height/bar lane 22.60, Core thickness 53.60, No./bars 25, No./teeth 9, Rotation CW/CCW



### 136196 Armature

Replacing: M106X29171, M106X41271, ME700037

Servicing: M003T56071, M003T56072, M003T56074, M003T56082, M003T56084, M003T56174, M003T56181, M003T56182

24 Volt, 4.5 kW, Shaft length 178.00, Height/bar 5.00, Height/bar lane 30.00, Core thickness 60.00, No./bars 23, No./teeth 9, Rotation CW/CCW



### 139825 Armature

Replacing: M105X43771, M106X43772, ME701492

Servicing: M008T80371, M008T80373, M008T80471, M008T85071B, M2T80772, M8T80171, M8T80371, M8T80373, M8T80374

24 Volt, 3.2/3.7 kW, Shaft dia. 15.30, Shaft length 139.95, Height/bar 4.40, Height/bar lane 18.60, Core thickness 53.60, No./bars 25, No./teeth 13, Rotation CW



### 231771 Armature

Replacing: M106X40871, ME700854

Servicing: M002T78072, M002T78381, M002T78382, M002T78383, M002T78481, M2T78071, M2T78072

24 Volt, 5.0 kW, Shaft dia. 17.85, Shaft length 169.00, Height/bar 5.75, Height/bar lane 30.15, Core thickness 53.60, No./bars 23, No./teeth 9



### 233961 Armature

Replacing: M106X45071

Servicing: 39MT, M009T70379, M009T80472, M009T80473, M009T80571, M009T80572, M009T80671, M009T80771, M009T80772

24 Volt, 8.2 kW, Shaft length 195.80, Height/bar 3.45, Height/bar lane 36.95, Core thickness 68.00, No./bars 21, No./teeth 14, Rotation CW



### 234100 Armature

Servicing: M009T61473, M009T61474, M009T61671, M009T62172, M009T62173, M009T64171ZT, M009T66371, M9T61473

24 Volt, 6.0 kW, Shaft length 176.85, Height/bar 5.60, Height/bar lane 35.15, Core thickness 60.20, No./bars 23, No./teeth 13, Rotation CW





### 234851 Armature

Replacing: M105X43671, ME701446

Servicing: M008T60071, M008T60071A, M008T60371, M008T60372, M008T60373, M008T60871, M008T62671, M3T56089

24 Volt, 5.0 kW, Shaft dia. 17.50, Shaft length 171.00, Height/bar 5.00, Height/bar lane 29.40, Core thickness 53.60, No./bars 23, No./teeth 13



### 331945 Armature

Servicing: 1810A062, 1810A143, M001T93071, M001T93171ZC, M001T93371, M001T93371ZC, M001T93571, M1T93071

12 Volt, 2.0 kW, Bar dist. 2.75, Bar cross dist. 37.00, Shaft length 133.10, Bar length 5.90, Height/bar 3.90, Height/bar lane 24.00, Core thickness 57.10, No./bars 23, No./teeth 13, Rotation CW

## Yokes

### 12 V



### 136894 Yoke

Replacing: M800T39871, M800T53071, MD611215

Servicing: M001T60081, M001T60181, M001T60185, M001T60281, M001T60285, M001T60381, M001T60581, M001T70283

12 Volt, 1.2/1.4 kW, ID 55.80, OD/middle 74.70, Length 63.60, Rotation CW, Brush gear w/o, Magnets w/, O-ring w/o



### 139241 Yoke

Replacing: M800X60671, M800X61771, M800X64073, MD619096

Servicing: M000T65381, M000T80081, M000T80381, M000T80581, M000T81081, M000T81981, M000T82281, M000T90981

12 Volt, 1.0 kW, ID 53.60, OD/middle 70.65, Length 52.70, Brush gear w/o, Magnets w/, O-ring w/o



### 230498 Yoke

Replacing: M800X61671, M800X61672

Servicing: M000T60081, M000T60081A, M000T60181, M000T85681, M000T85781, M000T85981, M000T86481, M000T86681

12 Volt, 1.4 kW, ID 54.00, OD/middle 70.60, Length 60.00, Brush gear w/o, Magnets w/, O-ring w/o



### 334089 Field House

Servicing: M000T46171ZT, M0T46171ZT

12 Volt, 1.0 kW, ID 57.50, OD/middle 70.60, Length 79.10, Rotation CCW, Brush gear w/o, Magnets w/, O-ring w/o

## Field Cases



### 135784 Field Case

Replacing: M800T35171, M800T43972, M800X49671

Servicing: M002T54271, M002T54371, M002T54372, M002T54771, M002T57371, M002T57871, M002T57881, M002T66873

12 Volt, 2.0 kW, ID 53.85, OD/middle 81.50, Length 75.60, Lead length 99.00, O-ring w/



### 135927 Field Case

Replacing: M800T35671, M800T38371, M800T52871, M800T54671, M800X52872, M800X54671, M800X54673

Servicing: M002T30481, M002T30881, M002T41581, M002T42381, M003T33181, M003T33582A, M2T30481, M2T30881

12 Volt, 0.8 kW, ID 53.40, OD/middle 80.50, Length 65.55, Lead length 54.70, Brush gear w/o, Magnets w/o, O-ring w/o



### 136135 Field Case

Replacing: M800T38871, M800T38971, M800T38972, M800T38973, M800T50471, M800T51871, M800T52971, M800T55971

Servicing: M003T21281D, M003T21882D, M003T27686, M003T27686D, M003T30286, M003T30581, M003T30581J, M003T30583

12 Volt, 0.8 kW, ID 60.70, OD/middle 89.50, Length 62.00, Lead length 48.00, O-ring w/o



### 136377# Field Case

Replacing: M800T50373

Servicing: M002T51281, M002T51282, M2T51281, M2T51282, M002T52281, M002T54091, M002T58381, M2T52281, M2T54091

12 Volt, 1.4 kW, ID 55.00, OD/middle 80.70, Length 78.70, Lead length 96.00, Rotation CW, Brush gear w/o, Magnets w/o, O-ring w/o





### 136938 Field Case

Replacing: M800T43571, M800T47371, M800X43573, M800X43574

Servicing: M002T64271, M002T66871, M002T66872, M002T67871, M002T67872, M002T67873, M002T67881, M002T67882  
24 Volt, 3.2 kW, ID 53.10, OD/middle 81.00, Length 85.00, Lead length 114.90, Brush gear w/o, Magnets w/o, O-ring w/o  
Brush set: HC-CARGO 141273.



### 139361 Field Case

Replacing: M800X49771, M800X49772, MD618966

Servicing: M002T84071, M002T84171, M002T84571, M002T87671, M008T70071, M2T84071, M2T84171, M2T84571, M2T87671  
12 Volt, 2.0 kW, ID 54.25, OD/middle 77.00, Length 63.00, Lead length 69.85, Brush gear w/o, Magnets w/o, O-ring w/o  
Brush set: HC-CARGO 140347.



### 230649# Field Case

Replacing: M800X44972, M800X44974

Servicing: M002T56272, M2T56272, MM409412, MM409413  
12 Volt, 2.0 kW, ID 54.60, OD/middle 80.75, Length 84.50, Lead length 115.30, Brush gear w/o, Magnets w/o, O-ring w/o



### 231504 Field Case

Replacing: M800X49871, M800X49877, MD618974

Servicing: M002T87071, M002T87171, M002T87371, M002T87971, M002T88071, M002T88171, M002T88271, M008T75071  
12 Volt, 2.2 kW, ID 55.75, OD/middle 81.65, Length 71.75, Lead length 85.00, Brush gear w/o, Magnets w/o, O-ring w/o



### 234266 Field Case

Replacing: M800X70772, M800X70787

Servicing: M008T80071, M008T80071A, M008T80071B, M8T80071, M8T80071A, M8T80071B, ME012995, ME013008, ME014418  
24 Volt, 3.2 kW, ID 54.00, Length 71.60, OD/middle 81.65, Lead length 94.60, Brush gear w/o, Magnets w/o, O-ring w/o



### 237832 Yoke

Servicing: M009T80472, M009T80473, M009T83671, M009T83672, M9T80472, M9T80473, M9T83671, M9T83672

24 Volt, 6.2 kW, ID 68.80, Length 108.20, OD/middle 105.30, Lead length 145.00, Rotation CW, Magnets w/o

## Field Coils

### 24 V



### 234101 Field Coil

Servicing: M003T56174, M003T56181, M003T56182, M003T56183, M3T56174, M3T56181, M3T56182, M3T56183

24 Volt, 5.0 kW, Height 91.50, Internal height 55.60, Inner width 21.35, Brush gear w/o

## C.E. Brackets



### 137219 C.E. Bracket

Replacing: M641B10601, M642X33371, M642X40871, M644B10601, M644B21201, M644X21671, MD607645, MD618458

Servicing: M002T56185, M002T61771, M002T87671, M2T56185, M2T61771, M2T87671, M002T57871, M002T57881  
ID 76.50, OD 80.00, Height 44.00



### 139236 C.E. Bracket

Replacing: M644B10201, MM502346

Servicing: M002T24081, M002T24181, M002T25083, M002T25481, M002T25581, M002T25681, M002T50171, M002T50181  
ID 76.00, OD 79.50, Height 38.00



### 231264 C.E. Bracket

Replacing: M642X18171, M642X19373

Servicing: M001T60281, M1T60281, M001T30071, M001T68381, M001T70483, M001T73383, M001T80181, M001T80681  
ID 72.50, OD 76.00, Height 36.50



### 231503 C.E. Bracket

Replacing: M642X28771, MD618968

Servicing: M002T84071, M002T84171, M002T84571, M002T87071, M002T87171, M002T87371, M002T87471, M002T87971  
ID 76.50, OD 82.30, Height 42.50



### 232490 C.E. Bracket

Replacing: M644B20701

Servicing: M003T54071, M003T56071, M003T56072, M003T56082, M003T56174, M003T56181, M003T56182, M003T56183  
ID 84.50, OD 91.00, Height 52.00



### 232491 C.E. Bracket

Replacing: F4T211049A

Servicing: M008T50071, M8T50071  
ID 77.04, OD 86.21, Height 48.15




**234047** C.E. Bracket

Replating: M642X29871

Servicing: 1810A050R, 32A66-10101,  
M008T75071, M008T75071A, M008T75073,  
M008T75073A, M008T75074ZT, M008T80471  
ID 75.45, OD 82.39, Height 42.02


**237855** C.E. Bracket

Servicing: M000T20171, M000T21471,  
M000T36971, M000T36971ZE, M000T45271,  
M000T45271ZT, M000T46171ZT, M0T21471  
ID 68.50, OD 72.15, Height 16.85

### D.E. Brackets


**136762** D.E. Bracket

Replating: M641X35671, M641X35673, M641X35674  
Servicing: M003T21281D, M003T21882D,  
M3T21281D, M3T21781D, M3T21882D, M003T21781  
Type Closed


**137641** D.E. Bracket

Replating: M641X71272, M641X71278  
Servicing: M002T67881, M002T67884, M2T67881,  
M2T67884, ME017085, M002T67883, M2T67883  
Type Open


**138405** D.E. Bracket

Replating: M641X66172, M641X66173,  
M641X67771, MD607847  
Servicing: M002T56181, M002T56182,  
M002T56185, M002T57271, M2T56181,  
M2T56182, M2T56185, M2T57271  
Type Open


**230567** D.E. Bracket

Replating: M641X35771, M641X35772

Servicing: M003T38981, M003T41781, M3T34781,  
M3T38981, M3T41781, M003T34781, M003T34782  
Type Closed


**231788** D.E. Bracket

Replating: M641X88671

Servicing: M001T60281, M1T60281, M001T60285,  
M001T60285A, M1T60285, M1T60285A  
Type Open


**233455** D.E. Bracket

Replating: M841X84571

Servicing: M002T54091, M2T54091  
Type Open


**234046** D.E. Bracket

Replating: M641XA3471

Servicing: M008T75071, M008T75074ZT,  
M8T75071, M8T75074ZT, ME201650, M008T75073,  
M8T75073, ME201650A, ME202970  
Type Open


**234539** D.E. Bracket

Replating: M641XA2072

Servicing: M002T87171, M2T87171,  
MD315548, M002T87171ZT, M2T87171ZT  
Type Closed


**234931** D.E. Bracket

Servicing: M002T87671, M2T87671

Type Closed


**235123** D.E. Bracket

Servicing: M001T80381, M001T80481,  
M1T80381, M1T80481  
Type Closed


**235329** D.E. Bracket

Replating: M641XA0872

Servicing: M002T87071, M002T87071ZT,  
M2T87071, M2T87071ZT, MD312858,  
1810A053, M002T87072ZT, M2T87072ZT  
Type Closed

Needle bearing: HC-CARGO 141090.


**239831** D.E. Bracket

Type Closed


**330685** D.E. Bracket

Servicing: M001T30171, M001T30172,  
M001T30173, M1T30171, M1T30172, M1T30173  
Type Closed





**332327** D.E. Bracket  
Servicing: M001T80681, M1T80681  
Type Closed

## I.M. Brackets



**138619** I.M. Bracket  
Replacing: M640B28371, MD611018  
Servicing: M002T60171, M002T60172, M002T60185, M002T61071, M002T61072, M002T61171, M002T61271, M002T62771  
Height 27.00



**231196** I.M. Bracket  
Replacing: M640B28071, MD607794  
Servicing: M002T56181, M002T56182, M002T56185, M002T57271, M002T57273, M002T57771, M002T57773, M002T74171



**231813** I.M. Bracket  
Replacing: M640B28771, ME700972  
Servicing: M002T57871, M002T57881, M002T61771, M002T67881, M002T67882, M002T67883, M2T57871, M2T57881  
ID 76.50, OD 81.00, Height 27.00



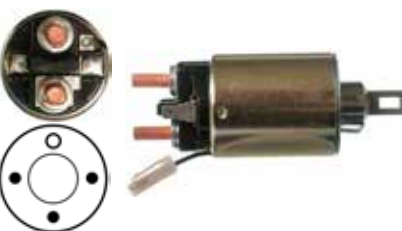
**231988** I.M. Bracket  
Replacing: M640B26571  
Servicing: M002T54671, M002T56471, M002T56472, M002T57371, M002T65271, M002T65272, M003T64172, M2T54671  
ID 85.00, ID/bearing 32.00, OD 95.50, Height 27.00, Edge height 14.70

## Solenoids

### 12 V



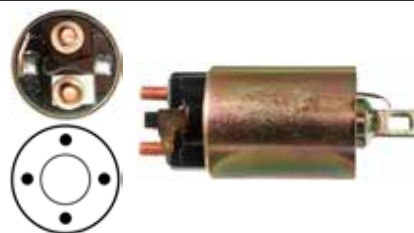
**131802** Solenoid  
Replacing: M371X00272, M371X00382, M371X17271, M371X34471, M371X35071, M371X54471, M371X54671, M371X54771  
Servicing: M002T10171, M002T20181, M002T23181, M002T51181, M003T26081, M003T29481, M2T10171, M2T20181  
12 Volt, B+ M8, ID/eye 5.25, OD 51.30, OD/cover 44.75, Total length 131.00, Height/B+ 18.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 18.25, Fork lever w/, No./mount. holes 4, No./terminals 3  
Cap: HC-CARGO 133273.



**132095** Solenoid  
Replacing: M371X31271, M371X33371  
Servicing: M003T10372, M003T22081, M003T22381, M003T22781, M003T24181, M003T24482, M003T24486, M003T25081  
12 Volt, B+ M8, ID/eye 5.35, OD 51.40, OD/cover 44.80, Total length 130.70, Height/B+ 18.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 18.50, No./mount. holes 4, No./terminals 4, Fork lever w/



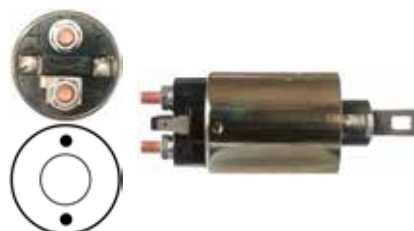
**132470** Solenoid  
Replacing: M371X11171, M371X12571, M371X14571, M371X41971  
Servicing: M5T20171, M5T23272, M5T20171, M5T23271  
12 Volt, B+ M8, ID/cover 21.20, ID/eye 7.00, OD 52.00, OD/cover 45.35, Length 68.00, Total length 134.20, Height/B+ 14.75, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 15.00, No./mount. holes 2, No./terminals 3, Fork lever w/



**132471** Solenoid  
Replacing: M371X46071  
Servicing: M002T51083, M002T54771, M2T51083, M2T54771, M002T57371, M002T90071, M002T92171, M002T92172  
12 Volt, B+ M8, ID/eye 6.15, OD 55.25, OD/cover 48.85, Total length 134.00, Height/B+ 15.40, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.80, No./mount. holes 4, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 134625.



**132472** Solenoid  
Replacing: M371X45971, M372X00171, M372X02171, M372X02371, M372X06871, MD607448, ME700115  
Servicing: M002T54272, M002T54871, M002T54881, M002T56471, M002T56475, M002T60185, M003T61071, M003T61171  
12 Volt, B+ M8, ID/eye 6.70, OD 55.00, OD/cover 49.10, Total length 148.75, Height/B+ 18.00, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 18.20, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133286.



**132473** Solenoid  
Replacing: M372X04171  
Servicing: M002T51082, M002T51805, M002T54371, M002T54372, M002T57271, M002T57273, M002T57771, M002T57773  
12 Volt, B+ M8, ID/eye 6.70, OD 54.75, OD/cover 49.20, Total length 148.30, Height/B+ 18.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 18.15, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 134625.





### 132763 Solenoid

Replacing: M371X01871

Servicing: M002T50371, M002T50391, M002T52071, M003T10071, M003T10475, M003T10476, M003T11174, M003T21781  
12 Volt, B+ M8, ID/eye 5.30, OD 51.35, OD/cover 45.30, Total length 126.60, Height/B+ 16.70, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.90, No./mount. holes 4, No./terminals 3, Fork lever w/



### 132917 Solenoid

Replacing: M371X45471, MM502322

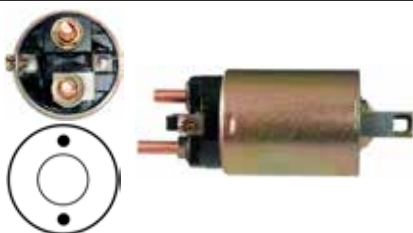
Servicing: M005T22175, M005T22176, M5T22175, M5T22176, M5T22371  
12 Volt, B+ M10, ID/eye 7.45, OD 55.20, OD/cover 48.50, Total length 146.00, Height/B+ 19.65, Terminal 50 9.40, Coil bolt M10, Coil bolt 2 13.00, No./mount. holes 4, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133287.



### 133049 Solenoid

Replacing: 23343-M8210, M371X58671, M371X64271, M371X64273, M371X64471, M371X64671, M371X64971, M371X66771

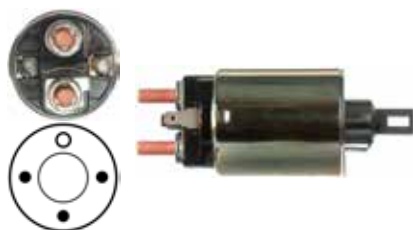
Servicing: M003T27781, M3T27781, M001T60185, M001T71382, M002T30881, M003T32985, M003T32986, M003T32988  
12 Volt, B+ M8, ID/cover 25.10, OD 51.50, OD/cover 45.15, Length 43.25, Total length 123.80, Height/B+ 14.45, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.65, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 133285.



### 133050 Solenoid

Replacing: M372X00371

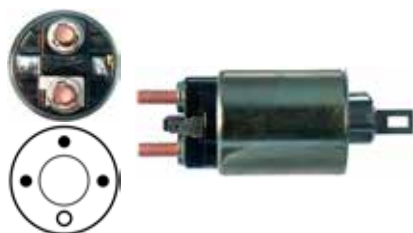
Servicing: M002T54671, M002T56471, M002T56472, M002T60271, M002T61371, M003T64172, M2T54671, M2T55571  
12 Volt, B+ M8, ID/eye 6.15, OD 55.15, OD/cover 48.60, Total length 144.00, Height/B+ 27.65, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 19.40, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133286.



### 133052 Solenoid

Replacing: M371X02471, M371X16171, M371X16371, M371X16471, M371X30371, M371X30871, M371X33071, M371X34571

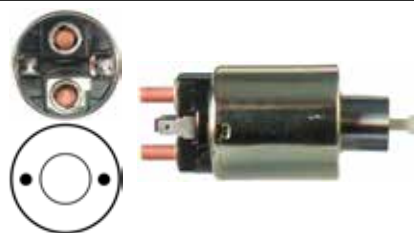
Servicing: M001T50071, M003T27582, M1T50071, M3T27582, M002T25681, M002T50181, M002T52081  
12 Volt, B+ M8, ID/eye 5.30, OD 51.45, OD/cover 45.40, Total length 132.45, Height/B+ 18.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.00, No./mount. holes 4, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133287.



### 133053 Solenoid

Replacing: M371X36271, M371X59671, MD607412

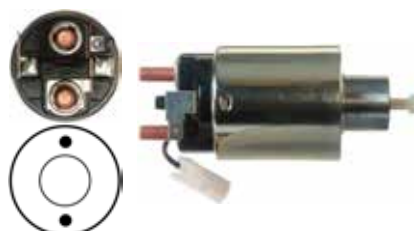
Servicing: M002T51281, M002T51282, M002T53081, M002T53082, M002T53085, M2T51281, M2T51282, M2T53081, M2T53082  
12 Volt, B+ M8, ID/eye 5.30, OD 51.20, OD/cover 45.20, Total length 132.00, Height/B+ 19.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 19.00, No./mount. holes 4, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133273.



### 133288 Solenoid

Replacing: M371X60371, M371X62171, M371X62172, M371X62271, M371X62272, M371X62371, M371X62671, M371X62771

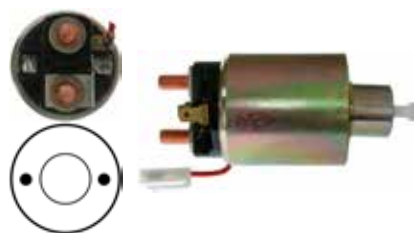
Servicing: M001T74491, M000T20171, M000T85881, M001T30271, M001T70982, M001T72483ZC, M003T30581J, M003T32588  
12 Volt, B+ M8, ID/cover 25.00, OD 51.40, OD/cover 44.50, Length 43.00, Total length 122.65, Height/B+ 16.40, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.70, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 133287.



### 133289 Solenoid

Replacing: M371X60271, M371X74671, MD607997, MD618581, MD618613

Servicing: M001T70481, M001T70483, M001T70485, M001T73381, M001T73383, M002T40081, M002T53083, M003T32592  
12 Volt, B+ M8, ID/cover 25.15, OD 51.55, OD/cover 45.15, Length 43.35, Total length 122.30, Height/B+ 16.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 16.00, No./mount. holes 2, No./terminals 4

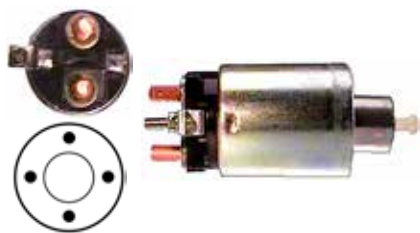


### 135590 Solenoid

Replacing: M371X61571, M371X63171, M371X63271, M371X63571, M371X79273

Servicing: M002T30385, M002T30585, M002T30586, M002T41881, M003T33785, M003T33871, M003T41881, M2T30281  
12 Volt, B+ M8, ID/cover 25.00, OD 52.15, OD/cover 45.30, Length 42.70, Total length 100.90, Height/B+ 13.60, Terminal 15A/width 13.75, Coil bolt M8, Coil bolt 2 14.15, No./mount. holes 4, No./terminals 4



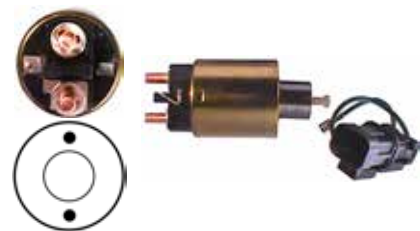


### 137813 Solenoid

Replacing: M371X62571, M371X75071, M371X94071

Servicing: M001T74281, M001T79481, M001T79482, M1T74281, M1T79481, M1T79482, M001T74281ZC, M001T74283

12 Volt, B+ M8, OD 51.40, OD/cover 45.25, Total length 123.70, Height/B+ 16.80, Terminal 50 M5, Coil bolt M8, Coil bolt 2 16.00, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 232225.



### 137930 Solenoid

Replacing: M371X64371, M371X66371, M371X78371, M371X92575

Servicing: M003T38482, M3T38482, M001T70686, M003T41186, M1T70686, M3T41186, M001T60281, M001T60285, M1T60281

12 Volt, B+ M8, ID/cover 25.20, OD 52.15, OD/cover 45.10, Length 42.95, Total length 101.60, Height/B+ 14.15, Coil bolt M8, Coil bolt 2 14.40, No./mount. holes 4, No./terminals 3



### 138011 Solenoid

Replacing: M371X69171, M371X76275, M371X76371

Servicing: M000T60081, M000T60081A, M001T72281, M001T72285, M001T72781A, M001T72781B, M001T78881, M002T48681

12 Volt, B+ M8, ID/cover 25.20, OD 51.50, OD/cover 45.20, Length 43.20, Total length 123.30, Height/B+ 16.30, Coil bolt M8, Coil bolt 2 15.75, No./mount. holes 4, No./terminals 3



### 138012 Solenoid

Replacing: M371X64771, M371X76871, M371X76875, M375X00271, M385X00271

Servicing: M001T72085, M001T72086, M001T72086A, M001T72087, M001T72087A, M002T49283, M1T72085, M1T72086

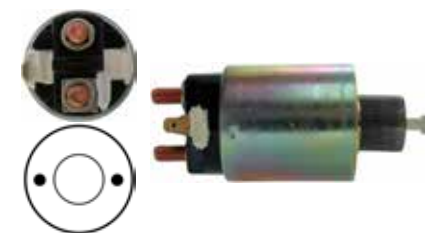
12 Volt, B+ M8, ID/cover 25.25, OD 51.30, OD/cover 45.30, Length 43.25, Total length 125.00, Height/B+ 17.85, Coil bolt M8, Coil bolt 2 16.85, No./mount. holes 4, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 231107.



### 138013 Solenoid

Servicing: M001T76081, M1T76081

12 Volt, B+ M8, ID/cover 25.15, OD 51.60, OD/cover 45.15, Length 43.25, Total length 124.00, Height/B+ 16.55, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 16.10, No./mount. holes 2, No./terminals 3

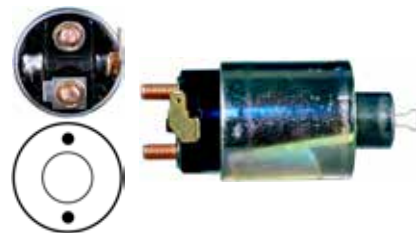


### 138618 Solenoid

Replacing: M371X72271, M371X93575

Servicing: M001T60381, M001T66081, M1T60381, M1T66081

12 Volt, B+ M8, ID/cover 24.70, OD 51.15, OD/cover 44.85, Length 42.90, Total length 120.00, Height/B+ 14.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.00, No./mount. holes 2, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 133287.



### 139202 Solenoid

Replacing: M371X74071, M371X93975, M371XA1874, MD619101

Servicing: M001T77081, M001T77381, M002T44781, M003T44081, M1T77081, M1T77381, M2T44781, M3T44081, MD301348

12 Volt, B+ M8, ID/cover 24.85, OD 51.15, OD/cover 45.10, Length 43.10, Total length 120.80, Height/B+ 15.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.10, No./mount. holes 2, No./terminals 3, Fork lever w/o

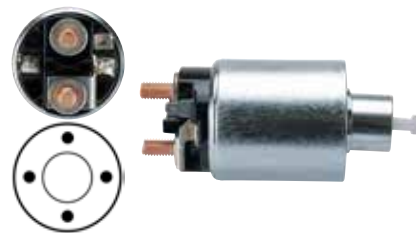


### 139408 Solenoid

Replacing: M371X80671, MD618509

Servicing: M002T54091, M002T58681, M002T58781, M002T58881, M2T54091, M2T58081, M2T58681, M2T58781, M2T58881

12 Volt, B+ M8, ID/eye 5.15, OD 51.10, OD/cover 44.95, Total length 119.20, Height/B+ 15.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.35, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133287.



### 139537 Solenoid

Replacing: M371XA0273, M371XA0274, M71XA0274, MD618972, ME701462

Servicing: M002T84071, M002T84171, M002T84571, M002T87071, M002T87171, M002T87371, M002T87971, M002T88071

12 Volt, B+ M8, ID/cover 24.80, OD 52.15, OD/cover 45.00, Length 42.55, Total length 117.00, Height/B+ 14.50, Terminal 15A/width 11.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.45, No./mount. holes 4, No./terminals 4, Bracket type Crimp, Fork lever w/o





### 139586 Solenoid

Replacing: M372X01171

Servicing: M002T54571, M002T54572, M2T54571, M2T54572

12 Volt, B+ M8, ID/eye 6.15, OD 55.20, OD/cover 48.55, Total length 156.25, Height/B+ 21.30, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 18.20, No./mount. holes 2, No./terminals 3, Fork lever w/  
Cap: HC-CARGO 133286.

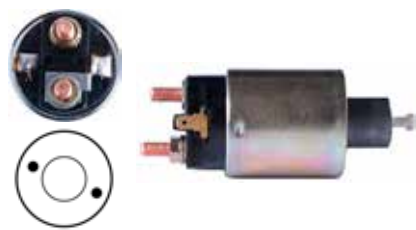


### 139614 Solenoid

Replacing: M372X06971, M372X07471

Servicing: M003T90071, M003T90072, M3T90071, M3T90072

12 Volt, B+ M10, ID/eye 6.80, OD 55.00, OD/cover 49.00, Total length 171.15, Height/B+ 23.65, Terminal 50 M5, Coil bolt M8, Coil bolt 2 10.00, No./mount. holes 2, No./terminals 3, Fork lever w/



### 230199 Solenoid

Replacing: M371XA0773

Servicing: M001T66081, M008T70071, M1T66081, M8T70071, M000T93681

12 Volt, B+ M8, ID/cover 24.85, OD 51.15, OD/cover 44.75, Length 43.00, Total length 127.50, Height/B+ 20.20, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.25, No./mount. holes 2, No./terminals 3

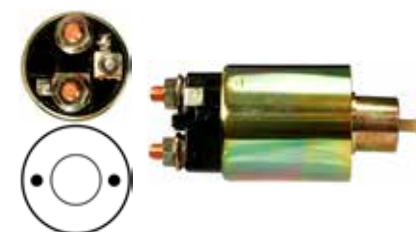


### 230204 Solenoid

Replacing: M372X02471

Servicing: M002T62271, M003T67671, M2T62271, M3T67171, M3T67172, M3T67671

12 Volt, B+ M8, ID/eye 6.20, OD 55.25, OD/cover 48.45, Total length 158.00, Height/B+ 21.40, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 16.50, No./mount. holes 2, No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 134625.



### 230788 Solenoid

Servicing: M000T20871ZE, M000T20872, M000T20872ZE, M000T82081, M000T82081ZE, M000T85381, M001T80381

12 Volt, B+ M8, ID/cover 24.95, OD 51.25, OD/cover 44.55, Length 42.95, Total length 118.40, Height/B+ 14.15, Terminal 50 M5, Coil bolt M8, Coil bolt 2 13.85, No./mount. holes 2, No./terminals 3, Fork lever w/o  
230788 may only be used for applications before 06/2007.



### 231454 Solenoid

Replacing: M375X00371

Servicing: M000T80281, M000T80281A, M001T64285, M0T80281, M0T80281A, M1T64285, M000T80281B, M000T80281ZC

12 Volt, B+ M8, ID/cover 24.70, OD 51.55, OD/cover 45.15, Length 43.20, Total length 105.00, Height/B+ 14.40, Coil bolt M8, Coil bolt 2 14.40, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 231107.

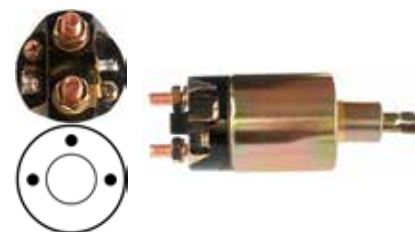


### 231457 Solenoid

Replacing: M372X06171

Servicing: M002T54471, M008T50071, M008T70471, M008T70971, M2T54471, M8T50071, M8T70971

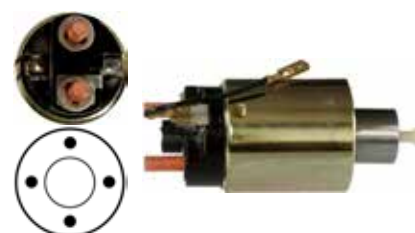
12 Volt, B+ M10, ID/eye 6.15, OD 55.15, OD/cover 48.55, Total length 143.00, Height/B+ 25.25, Terminal 50 M5, Coil bolt M8, Coil bolt 2 18.95, No./mount. holes 2, No./terminals 3, Fork lever w/



### 231976 Solenoid

Replacing: M371X00171, M371X00372, M371X00392, M371X02871, MD602074, MD602879, MD607549

Servicing: M001T50171, M002T50285, M002T52082, M003T10473, M003T10977, M003T12572, M003T15772, M003T20081  
12 Volt, B+ M8, ID/cover 22.00, OD 54.30, OD/cover 50.00, Length 46.40, Total length 142.00, Height/B+ 20.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 20.00, No./mount. holes 4, No./terminals 3, Fork lever w/o

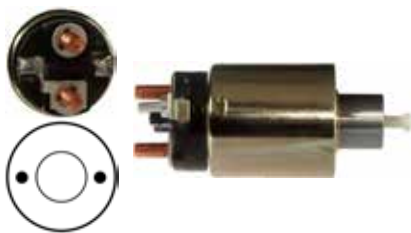


### 231977 Solenoid

Replacing: E356-18-X10, M371X60171, M371X71473, MD607889, MD618728

Servicing: M003T33586D, M3T33586D, M003T32591, M0T71981, M3T32591, M003T25981, M003T37481, M003T42681  
12 Volt, B+ M8, ID/cover 25.15, OD 51.30, OD/cover 45.25, Length 43.35, Total length 123.60, Height/B+ 16.25, Coil bolt M8, Coil bolt 2 15.35, No./mount. holes 4, No./terminals 3  
Cap: HC-CARGO 133287.

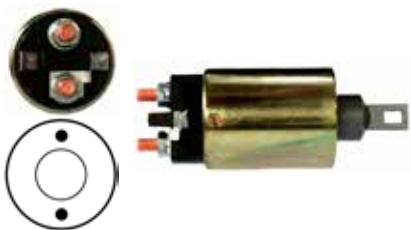




### 231978 Solenoid

Servicing: M001T73581, M001T74481, M001T74482, M1T73581, M1T74481, M1T74482

12 Volt, B+ M8, ID/cover 25.35, OD 51.55, OD/cover 45.15, Length 34.20, Total length 123.85, Height/B+ 16.40, Terminal 50 M5, Coil bolt M8, Coil bolt 2 15.75, No./mount. holes 2, No./terminals 3

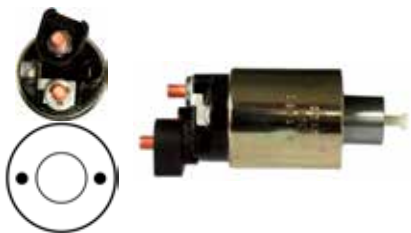


### 231981 Solenoid

Replacing: M372X00471, MD607634

Servicing: M002T56171, M002T56181, M002T56182, M002T56271, M002T56272, M002T60171, M002T60185, M002T61071

12 Volt, B+ M8, ID/eye 6.75, OD 54.80, OD/cover 49.00, Total length 147.65, Height/B+ 17.60, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 17.65, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 134626.



### 231983 Solenoid

Replacing: M371X66971

Servicing: M002T80081, M002T80681, M2T80081, M2T80281, M2T80481, M2T80681, M2T84471

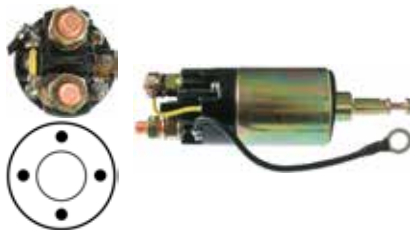
12 Volt, B+ M8, ID/cover 25.15, OD 51.45, OD/cover 45.15, Length 43.15, Total length 134.15, Height/B+ 13.90, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.65, No./mount. holes 2, No./terminals 3



### 233709 Solenoid

Servicing: 1810A101, M000T86081, M002T80582, M002T84771, M002T87671, M0T86081, M2T80582, M2T84771, M2T87671

12 Volt, B+ M8, ID/cover 38.55, OD 52.40, OD/cover 49.65, Length 43.18, Total length 116.60, Height/B+ 16.17, Terminal 50 M5, Coil bolt M8, Coil bolt 2 13.40, No./mount. holes 4, No./terminals 3, Fork lever w/o Cap: HC-CARGO 231860.

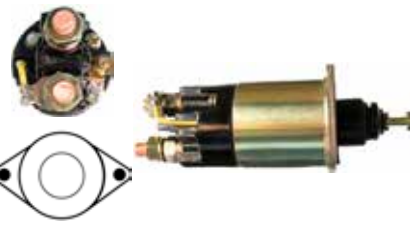


### 234114 Solenoid

Replacing: M373X10581

Servicing: 39MT, M009T70379, M9T70379

12 Volt, B+ M12, OD 64.00, OD/cover 64.85, Total length 222.70, Height/B+ 25.00, Terminal 50 M5, Coil bolt M12, Coil bolt 2 17.00, No./mount. holes 4, No./terminals 4, Fork lever w/o



### 234723 Solenoid

Replacing: M371X22571

Servicing: M003T67771, M3T66572, M3T67771

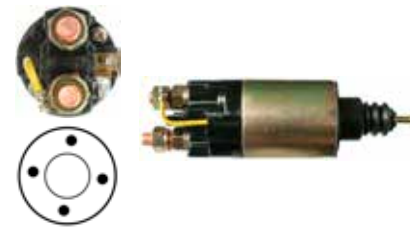
12 Volt, B+ M8, OD 55.00, OD/cover 54.50, Total length 185.30, Height/B+ 25.45, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 20.55, No./mount. holes 2, No./terminals 3, Fork lever w/o



### 235100 Solenoid

Servicing: M000T86181, M000T87881, M001T85682, M00T87881, M0T86181, M0T87881, M1T85682, M0T87881, M000T91581

12 Volt, B+ M8, OD 52.40, Length 42.85, Total length 129.00, Height/B+ 16.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 13.50, No./mount. holes 4, No./terminals 3, Fork lever w/o



### 235103 Solenoid

Replacing: M373X05671

Servicing: M3T65071, M5T65071, ME077044

12 Volt, B+ M12, OD 63.90, Total length 224.15, Height/B+ 38.35, Terminal 50 M5, No./mount. holes 4, No./terminals 3, Fork lever w/o



### 235210 Solenoid

Servicing: M000T36371, M0A01901, M0T36371, M003T42781, M003T42781ZC, M003T43381, M003T43481, M1T73383ZC

12 Volt, B+ M8, OD 52.37, OD/cover 47.20, Length 43.11, Total length 101.37, Height/B+ 14.73, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.19, No./mount. holes 2, No./terminals 3, Fork lever w/o Cap: HC-CARGO 235384.



### 235385 Solenoid

Replacing: M372XB0571

Servicing: 34MT TYPE 500, M9T50471

12 Volt, B+ M10, OD 55.20, Total length 177.00, Height/B+ 18.60, Terminal 50 M5S, Coil bolt M10, Coil bolt 2 18.60, No./mount. holes 2, No./terminals 3, Fork lever w/o





### 235495 Solenoid

**Servicing:** M000T45371ZT, M0T45371, M0T45371ZT, M000T45071ZT, M002T13081, M0T45071ZT, M2T13081  
12 Volt, B+ M8, OD 51.50, Length 43.30, Total length 108.50, Height/B+ 19.50, Terminal 50 M5, No./mount. holes 2



### 235847 Solenoid

**Replacing:** M371X72473, M371X74371, M371X96575, M371XC1473  
**Servicing:** M003T10476D, M3T10476D, MD328235, MD356178, MD362910, M000T70381, M001T70483, M001T73383  
12 Volt, B+ M8, OD 51.50, OD/cover 45.30, Length 31.26, Total length 91.00, Coil bolt M8, No./mount. holes 2, No./terminals 2, Bracket type Bracket, Fork lever w/o



### 236780 Solenoid

**Replacing:** M371XC3775  
**Servicing:** M000T87681, M000T90981, M0T87681, M0T90981  
12 Volt, B+ M8, OD 52.07, Length 43.28, Total length 120.00, Height/B+ 16.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.01, No./mount. holes 4, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 237498 Solenoid

**Servicing:** M000T84881, M000T84881ZC, M002T88471, M002T88472, M002T88473, M0T84881, M2T88471, M2T88472  
12 Volt, B+ M8, OD 52.10, Total length 90.30, Height/B+ 13.50, Coil bolt M8, Coil bolt 2 13.50, No./mount. holes 4, No./terminals 3



### 237861 Solenoid

**Replacing:** M371XD1171  
**Servicing:** M000T21671, M000T36071, M000T36071ZE, M000T45271, M000T45271ZT, M0T36071, M0T36071ZE, M0T45271  
12 Volt, B+ M8, OD 51.40, Length 41.05, Total length 114.45, Height/B+ 14.00, Terminal 50 6.30, No./mount. holes 2, No./terminals 3



### 239823 Solenoid

**Servicing:** M001T30071, M001T30171, M001T30172, M001T30173, M1T30073, M1T30171, M1T30172, M1T30173, M001T30072  
12 Volt, 1.7 kW, B+ M8, OD 51.24, Total length 120.00, Height/B+ 12.14, Terminal 50 M6-4.70, No./mount. holes 2, No./terminals 3



### 330176 Solenoid

**Servicing:** M000T22471, M0T22471, M0T22473, M000T22472, M0T22472  
12 Volt, 1.1 kW, B+ M8, OD 51.20, OD/cover 45.13, Length 41.05, Total length 109.00, Height/B+ 19.41, Terminal 50 M5, Coil bolt M8, Coil bolt 2 11.76, No./mount. holes 2, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 330363 Solenoid

**Servicing:** M008T76071, M008T76072, M008T76072ZE, M8T76071, M8T76071ZE, M8T76072, M8T76072ZE, M008T76071ZE  
12 Volt, B+ M8, OD 52.00, Length 43.29, Total length 122.00, Height/B+ 13.97, Terminal 50 M5, Coil bolt M8, Coil bolt 2 13.20, No./mount. holes 2, No./terminals 3, Bracket type Crimp



### 330415 Solenoid

**Servicing:** M002T85671, M002T85672, M2T85671, M2T85672  
12 Volt, B+ M8, OD 51.32, Length 31.00, Total length 129.06, Height/B+ 11.65, Terminal 50 6.30, No./mount. holes 2



### 330482 Solenoid

**Servicing:** M000T32271, M0T32271, M0T32271ZE, M0T32272  
12 Volt, B+ M8, OD 51.24, OD/cover 45.00, Total length 126.50, Height/B+ 20.50, Terminal 50 Plug, Coil bolt M8, Coil bolt 2 12.00, No./mount. holes 2, No./terminals 3, Bracket type Crimp



### 330581 Solenoid

12 Volt, B+ M8, OD 49.97, Length 43.03, Total length 126.83, Switch dim. 8.80, Height/B+ 15.60, Terminal 50 Plug, Coil bolt M8, Coil bolt 2 13.40, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 331523 Solenoid

**Servicing:** M000T45171, M000T45171ZT, M0T45171, M0T45171ZT  
12 Volt, 0.8 kW, B+ M8, OD 51.20, Length 41.05, Total length 108.69, Height/B+ 11.86, Terminal 50 M5, Coil bolt M8, Coil bolt 2 10.95, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o





### 331751 Solenoid

Servicing: M000T21471, M0T21471

12 Volt, B+ M8, OD 51.20, OD/cover 49.40, Length 41.00, Total length 127.50, Switch dim. 7.80, Height/B+ 20.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 3, Fork lever w/o



### 331786 Solenoid

Replacing: M371XD0971

Servicing: M000T30771, M0T30771, M0T35171, M414X00474, MR994325

12 Volt, B+ M8, OD 51.23, Length 41.08, Total length 115.76, Height/B+ 14.41, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.00, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 331868 Solenoid

Servicing: M000T35471, M0T35471

12 Volt, B+ M8, OD 51.15, OD/cover 49.70, Length 41.00, Total length 130.00, Switch dim. 7.80, Height/B+ 19.00, Terminal 50 M6, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 3, Fork lever w/o



### 331891 Solenoid

Servicing: M002T85871, M2T85871

12 Volt, 2.0 kW, B+ M8, OD 51.20, Total length 127.23, Height/B+ 11.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 M8, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 331941 Solenoid

Servicing: M001T93071, M001T93171ZC, M001T93371, M001T93371ZC, M001T93571, M1T93071, M1T93171, M1T93371

12 Volt, B+ M8, OD 51.20, Length 43.20, Total length 123.00, Height/B+ 15.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.50, No./mount. holes 2, No./terminals 3, Fork lever w/o



### 332238 Solenoid

Servicing: M000T86781, M0T86781

12 Volt, B+ M8, OD 51.30, Length 43.25, Total length 126.35, Height/B+ 12.30, Terminal 50 M6, Coil bolt M8, Coil bolt 2 11.45, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 332328 Solenoid

Servicing: M001T80681, M1T80681

12 Volt, B+ M8, OD 51.15, OD/cover 49.40, Length 42.90, Switch dim. 7.80, Height/B+ 20.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 332550 Solenoid

Servicing: M000T32571ZE, M000T32572ZE, M0T32571, M0T32571ZE, M0T32572ZE

12 Volt, B+ M8, OD 51.19, Length 41.00, Total length 115.66, Height/B+ 14.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.50, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333785 Solenoid

Servicing: M1T84981ZC

12 Volt, B+ M8, ID/eye 9.00, OD 51.20, OD/cover 45.00, Length 43.50, Total length 89.20, Height/B+ 16.00, Coil bolt M8, Coil bolt 2 16.00, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333848 Solenoid

Replacing: MG122565

12 Volt, B+ M8, ID/eye 6.70, OD 55.30, Length 60.75, Total length 135.00, Terminal 50 6.30, Coil bolt M8, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 335686 Solenoid

Replacing: M372X07871

Servicing: M008T50471, M008T77071, M008T77072, M8T50471, M8T77071, M8T77072  
12 Volt, B+ M8, ID/eye 6.80, OD 55.10, OD/cover 48.80, Length 60.50, Total length 112.00, Height/B+ 16.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.50, No./mount. holes 4, No./terminals 3

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### 336269 Solenoid

Servicing: M000T46371ZT

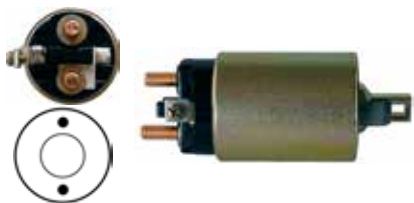
12 Volt, B+ M8, OD 51.20, OD/cover 49.50, Length 41.10, Switch dim. 7.80, Height/B+ 23.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 3





**337120** Solenoid  
12 Volt, B+ M8, OD 51.30,  
Total length 111.00, Height/B+ 21.00,  
Terminal 50 M6, No./terminals 3, Coil bolt M8,  
Coil bolt 2 12.50, No./mount. holes 2

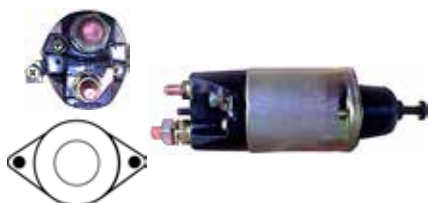
24 V



**132591** Solenoid  
Replacing: M371X02071, M372X10171,  
M372X10271, M372X10371, M372X10372,  
M372X10971, M372X11071, M372X11171  
Servicing: M002T64271, M002T66873,  
M002T67884, M003T54072, M2T64271,  
M2T64471, M2T66873, M2T67884, M2T87884  
24 Volt, B+ M8, ID/eye 6.15, OD 55.15,  
OD/cover 48.75, Total length 138.40,  
Height/B+ 22.00, Terminal 50 9.40,  
Coil bolt M8, Coil bolt 2 17.10, Fork lever w/  
No./mount. holes 2, No./terminals 3



**134413** Solenoid  
Replacing: ME023103  
24 Volt, B+ M10, OD 62.60,  
OD/cover 61.70, Total length 203.85,  
Height/B+ 23.80, Coil bolt M10,  
Coil bolt 2 23.00, No./mount. holes 2,  
No./terminals 3, Fork lever w/o



**136142** Solenoid  
Replacing: M371X21571, ME700278  
Servicing: M003T95071, M003T95073,  
M003T95081, M003T95082, M004T55076,  
M3T95071, M3T95073, M3T95081, M3T95082  
24 Volt, B+ M10, OD 55.50,  
OD/cover 53.25, Total length 190.70,  
Height/B+ 28.30, Terminal 50 9.40,  
Coil bolt M8, Coil bolt 2 18.20,  
No./mount. holes 2, No./terminals 3



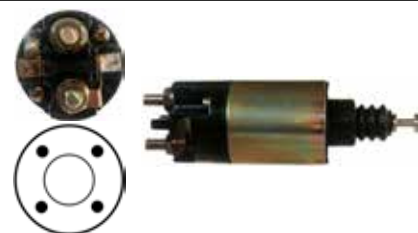
**136344** Solenoid  
Replacing: M371X20271, M371X20671,  
M371X20672, ME700215  
Servicing: M002T69171, M003T56174,  
M003T56181, M003T56182, M003T56183,  
M003T56272, M2T69171, M2T78071  
24 Volt, B+ M8, OD 55.10,  
OD/cover 54.20, Total length 174.35,  
Height/B+ 13.80, Terminal 50 9.40,  
Coil bolt M8, Coil bolt 2 13.85,  
No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 137870.



**138418** Solenoid  
Replacing: M371X20571, M371X20572,  
ME700035, ME701290  
Servicing: M003T56071, M003T56072,  
M003T56074, M003T56082, M003T56084,  
M005T50176, M3T56071, M3T56072  
24 Volt, B+ M8, OD 55.30,  
OD/cover 53.85, Total length 189.55,  
Height/B+ 25.65, Terminal 50 9.40,  
Coil bolt M8, Coil bolt 2 15.10,  
No./mount. holes 2, No./terminals 3



**139824** Solenoid  
Replacing: M372X11871, M372X13071,  
ME701490, ME753433  
Servicing: M008T80071, M008T80071A,  
M008T80071B, M8T80071, M8T80071A,  
M8T80071B, ME012995, ME013008,  
ME014418  
24 Volt, B+ M8, ID/eye 6.25, OD 55.25,  
OD/cover 48.55, Total length 149.00,  
Height/B+ 21.00, Terminal 50 9.40,  
Coil bolt M8, Coil bolt 2 18.00,  
No./mount. holes 2, No./terminals 3,  
Fork lever w/



**234319** Solenoid  
Replacing: M373X04571, M373X04771,  
M373X05171, M373X05371, ME700174,  
ME700828  
Servicing: M5T50177, M5T50179, M5T50277,  
M004T95076, M004T95082, M4T95075,  
M4T95076, M4T95081, M4T95082  
24 Volt, B+ M10, OD 64.00,  
OD/cover 63.60, Total length 210.25,  
Height/B+ 23.30, Terminal 50 M5,  
Coil bolt M10, Coil bolt 2 24.10,  
No./terminals 3, Fork lever w/o  
Cap: HC-CARGO 234321.

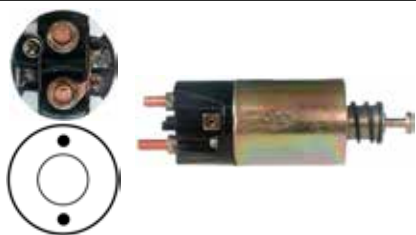


**234320** Solenoid  
Replacing: M373X04071, M373X06971,  
ME700196  
Servicing: M004T55076, M004T55077,  
M4T55076, M4T55077, M009T80771,  
M9T80771  
24 Volt, B+ M10, OD 63.90,  
OD/cover 63.40, Total length 211.40,  
Height/B+ 24.55, Terminal 50 M5,  
Coil bolt M10, Coil bolt 2 24.50,  
No./mount. holes 4, No./terminals 3,  
Fork lever w/o



**234482** Solenoid  
Replacing: M371X20871, ME700379  
Servicing: M002T69081, M002T78481,  
M2T69081, M2T78481, M2T78482, M3T58371,  
ME013390, ME013391  
24 Volt, B+ M8, OD 55.00,  
OD/cover 54.40, Total length 185.30,  
Height/B+ 25.25, Terminal 50 9.40,  
Coil bolt M8, Coil bolt 2 20.75,  
No./mount. holes 2, No./terminals 3,  
Fork lever w/o



**234484** Solenoid

Replacing: M371XB2270, M371XB2271, M371XB2671

Servicing: M8T60171, M8T87371

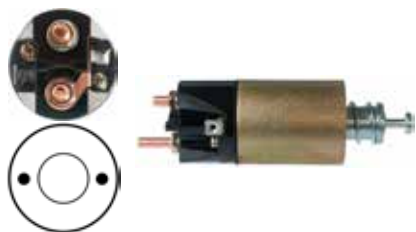
24 Volt, B+ M8, OD 55.10, OD/cover 54.50, Total length 174.75, Height/B+ 23.70, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 19.00, No./mount. holes 2, No./terminals 3, Fork lever w/o

**234871** Solenoid

Replacing: M371X20171, ME700307

Servicing: M004T50073, M4T50073,

24 Volt, 4.5 kW, B+ M8, OD 55.15, OD/cover 54.40, Total length 184.00, Height/B+ 21.55, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 16.95, No./mount. holes 2, No./terminals 3, Fork lever w/o

**234872** Solenoid

Replacing: M371XB2171, M371XB2371, M371XB2571, ME701442, ME701443

Servicing: M008T60371, M008T60372, M008T60373, M8T60271, M8T60271A, M8T60371, M8T60372, M8T60373, M8T60471

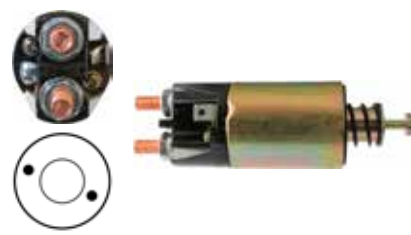
24 Volt, 5.0 kW, B+ M8, OD 55.25, OD/cover 54.45, Total length 180.25, Height/B+ 28.20, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 17.25, No./mount. holes 2, No./terminals 3, Fork lever w/o

**234875** Solenoid

Replacing: M371X05071, M373X05071

Servicing: M004T95481, M4T95478, M4T95479, M4T95480, M4T95481

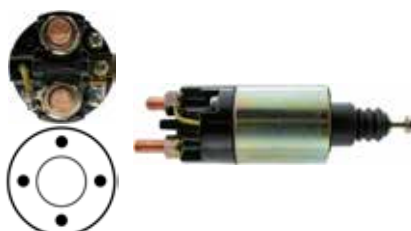
24 Volt, B+ M10, OD 64.00, OD/cover 63.20, Total length 217.80, Height/B+ 29.60, Terminal 50 M5, Coil bolt M10, Coil bolt 2 30.65, No./mount. holes 3, No./terminals 4, Fork lever w/o

**237102** Solenoid

Replacing: M371XB4171

Servicing: 34MT, 2SO911023A, M008T62671, M009T60371, M009T60471, M009T60671, M009T60672, M009T61473, M009T61474

24 Volt, B+ M10, OD 55.15, Total length 176.50, Height/B+ 18.50, Terminal 50 M5, Coil bolt M10, Coil bolt 2 20.00, No./mount. holes 2, No./terminals 3, Fork lever w/o

**237845** Solenoid

Replacing: M373X07671

Servicing: 39MT, M009T80472, M009T80473, M009T82479, M009T83671, M009T83672, M9T80472, M9T80473, M9T82479, M9T83671

24 Volt, B+ M12, OD 64.00, OD/cover 63.50, Total length 224.65, Height/B+ 38.10, Terminal 50 M5, Coil bolt M12, Coil bolt 2 31.45, No./terminals 3, Fork lever w/o

**330348** Solenoid

Servicing: M008T61671, M009T61671, M9T61671, M8T61671, M009T61473, M009T64971

24 Volt, 5.0 kW, B+ M10, OD 55.49, OD/cover 54.70, Total length 180.00, Height/B+ 18.29, Terminal 50 M6, Coil bolt M10, Coil bolt 2 17.92, No./mount. holes 2, No./terminals 3, Bracket type Bracket, Fork lever w/o

**335052** Solenoid

Replacing: M371XB3671

Servicing: M008T60871, M008T60872, M008T60873, M8T60771, M8T60772, M8T60773, M8T60871, M8T60872, M8T60873

24 Volt, B+ M8, ID/eye 6.00, OD 55.30, OD/cover 53.50, Total length 181.00, Height/B+ 21.80, Terminal 50 M5, Coil bolt M8, Coil bolt 2 11.50, No./mount. holes 2, No./terminals 3, Bracket type Bracket

**335219** Solenoid

Servicing: M009T20171, M9T20171

24 Volt, B+ M12, ID/eye 13.00, OD 55.30, OD/cover 58.00, Total length 206.50, Height/B+ 34.50, Terminal 50 M5, Coil bolt M10, Coil bolt 2 21.00, No./mount. holes 2, No./terminals 3, Bracket type Bracket



## Safety Switches

24 V



### 233891 Safety Switch

Replacing: ME701689, U001X06096, U001X31272

Servicing: M2T69381, ME012994, ME017628, M008T85071B, M8T61171, M8T85071, M8T85071A, M8T85071B

24 Volt, Intermittent load 100 Amp., OD 34.55, Total length 61.65, Seconds 3, No./mount. holes 2



### 237090 Safety Switch

Servicing: M009T60471, M009T60671, M009T60672, M009T61571, M9T60471, M9T60671, M9T60672, M9T61571, M8T62471

24 Volt, OD 34.55, Total length 60.00, No./mount. holes 2, No./terminals 4, Bracket type Bracket



### 237517 Safety Switch

Servicing: M009T61171, M9T61171

24 Volt, Total length 63.00, No./mount. holes 2



### 330351 Safety Switch

Servicing: M009T61671, M9T61671

24 Volt, OD 35.68, Total length 67.28, Terminal 50 M5, No./mount. holes 2



### 332139 Safety Switch

Servicing: M009T61473, M009T61474, M009T62172, M009T62173, M009T64171ZT, M009T66371, M9T61473, M9T61474

24 Volt, OD 35.70, Total length 80.00, Terminal 50 M6, No./mount. holes 2, No./terminals 4

Alternative no.: 333313



### 333313 Safety switch

Servicing: M9T61474

24 Volt, OD 41.00, Total length 65.00, No./mount. holes 2, No./terminals 4, Bracket type Bracket

Alternative no.: 332139



### 333846 Safety Switch

Replacing: U001T32974

Servicing: M009T62671, M9T62671, M008T62471

24 Volt, OD 48.80, Total length 78.80, Terminal 50 M5, No./mount. holes 2, No./terminals 4, Bracket type Crimp



### 334180 Safety Switch

Replacing: U001T37575, U001X45573

Servicing: M008T62671, M8T62671

24 Volt, 4.0 kW, OD 35.00, Total length 67.00, No./mount. holes 2

## NEW PRODUCT

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### 336410 Safety Switch

Servicing: M009T20171, M9T20171

24 Volt, Length 281.00, Terminal 30H/width 13, No./mount. holes 2, No./terminals 3, No./wires 2

## Solenoid Parts

### Solenoid Caps



Pkg. 5

### 133269 Solenoid Cap

Replacing: ZM-68096

Servicing: M002T20182, M002T54882, M2T20182, M2T54882, MWV10R, MWV11R, MWV3R, MWV4R, MWV8R, MWV9R

ID 37.10, OD 49.90, Coil bolt M8, Coil bolt 2 14.70, No./terminals 3, Bracket type Crimp  
HC-CARGO 131144, 131800.



Pkg. 5

### 133273 Solenoid Cap

Replacing: ZM-69296

Servicing: 1810A050R, M002T85271, M008T71371ZE, M008T71471ZE, M008T75074ZT, M2T85271, M8T71371ZE, M8T71471ZE  
ID 37.40, OD 49.45, Coil bolt M8, Coil bolt 2 22.15, No./terminals 3, Bracket type Crimp  
HC-CARGO 131802, 133053.



### 133285 Solenoid Cap

Replacing: ZM-169896

Servicing: M001T70982, M001T70982A, M001T71382, M001T72985, M1T70982, M1T70982A, M1T71382, M1T72985

ID 37.25, OD 49.25, Coil bolt M8, Coil bolt 2 14.70, No./terminals 3, Bracket type Crimp  
HC-CARGO 133049.





### 133286 Solenoid Cap

Replacing: ZM-89496

Servicing: 32A66-10101, 34466-15101, 34466-15102, M002T54871, M2T54172, M2T54871, M002T54571, M002T54572  
ID 20.50, OD 53.20, Switch dim. 8.00, Coil bolt M8, Coil bolt 2 17.60, No./terminals 3, Bracket type Crimp  
HC-CARGO 132472, 133050, 139586.

Pkg. 5



### 133287 Solenoid Cap

Servicing: M000T86581, M000T87081, M001T84883ZC, M001T84884, M002T47383, M002T87271, M002T87271ZT, M002T88971  
ID 37.45, OD 49.45, Coil bolt M8, Coil bolt 2 14.10, No./terminals 3, Bracket type Crimp  
HC-CARGO 132917, 133052, 133288, 138618, 139408, 231977.

Pkg. 5



### 134625 Solenoid Cap

Replacing: ZM-89196

Servicing: M002T51082, M002T51805, M2T51082, M2T51805, M001T77781, M002T51083, M002T51085, M002T54371  
ID 40.35, OD 53.00, Coil bolt M8, Coil bolt 2 17.45, No./terminals 3, Bracket type Crimp  
HC-CARGO 132471, 132473, 230204.



### 134626 Solenoid Cap

Servicing: MM409412, M002T54871, M002T54881, M002T54882, M002T56171, M002T56181, M002T56182, M002T56185  
ID 43.80, OD 53.55, Coil bolt M8, Coil bolt 2 13.15, No./terminals 3, Bracket type Crimp  
HC-CARGO 235077, 231981.



### 137870 Solenoid Cap

Servicing: M371X20171, M371X20271, M371X20671, M371X20672, M371X22071  
ID 40.80, OD 54.00, Coil bolt M8, Coil bolt 2 13.15, No./terminals 3  
HC-CARGO 136344.



### 137931# Solenoid Cap

Servicing: M001T60281, M1T60281, M371X92575  
ID 37.70, OD 49.15, Coil bolt M8, Coil bolt 2 14.75, No./terminals 3, Bracket type Crimp  
HC-CARGO 137930.

Pkg. 5



### 231107 Solenoid Cap

Servicing: M000T70281, M000T70285, M000T80281A, M000T80281B, M000T80281ZC, M000T80285, M000T80285A  
ID 37.60, OD 49.60, Coil bolt M8, Coil bolt 2 15.65, No./terminals 3, Bracket type Crimp  
HC-CARGO 138012, 231454.



### 231860 Solenoid Cap

Servicing: M000T86081, M002T80582, M002T84771, M002T87671, M0T86081, M2T80582, M2T84771, M2T87671  
ID 38.55, OD 49.65, Coil bolt M8, Coil bolt 2 13.40, No./terminals 3, Bracket type Crimp  
HC-CARGO 233709.



### 232225 Solenoid Cap

Replacing: ZM-169596

Servicing: M001T84382ZC, M1T84382ZC, M001T74281, M1T74281, M371X62571, M371X94071, M001T74281ZC, M001T74283  
ID 37.50, OD 49.55, Coil bolt M8, Coil bolt 2 15.60, No./terminals 3, Bracket type Crimp  
HC-CARGO 137813.



### 233927 Solenoid Cap

Servicing: 1810A050R, M000T32771, M002T88471, M002T88472, M002T88473, M002TS0571, M002TS0575, M008T71371ZE  
ID 38.20, OD 49.20, Switch dim. 8.70, Coil bolt M8, Coil bolt 2 14.30, No./terminals 3, Bracket type Crimp  
HC-CARGO 139537.



### 233964 Solenoid Cap

Servicing: M001T85781, M1T85781, M000T21471, M0T21471  
ID 44.50, OD 49.25, No./terminals 3, Bracket type Crimp



### 234321 Solenoid Cap

Servicing: M373X04071, M373X04571, M373X05171  
ID 52.35, OD 63.75, Coil bolt M10, Coil bolt 2 24.25, No./terminals 3  
HC-CARGO 234319, 234320.





**236781** Solenoid Cap  
Servicing: M000T87681, M000T90981, MOT87681, MOT90981  
OD 49.10, Switch dim. 8.40, Coil bolt M8, Coil bolt 2 14.50, No./terminals 3

Pkg. 5



**238169** Solenoid Cap  
Servicing: M002T74171, M2T74171, MD140190, MD164976  
OD 52.60, Switch dim. 7.40, Coil bolt M8, Coil bolt 2 10.00, No./terminals 3



**239824** Solenoid Cap  
Servicing: M000T86781, MOT86781, M1T30171  
OD 49.10, Switch dim. 7.80, Coil bolt M8, Coil bolt 2 10.00, No./terminals 3



**332551** Solenoid Cap  
ID 44.85, OD 49.43, Switch dim. 8.37, Coil bolt M8, Coil bolt 2 13.18, No./terminals 3, Bracket type Closed

Pkg. 5



**333935** Solenoid Cap  
Servicing: M000T45371ZT, MOT45371ZT, M000T45071ZT, M002T13081, MOT45071ZT, MOT45371, M2T13081  
ID 37.60, OD 50.00, Switch dim. 15.00, No./terminals 3



**334100** Solenoid Cap  
Servicing: M009T61971, 96963483, M9T61971  
ID 41.75, OD 49.85, Switch dim. 14.95, Coil bolt M8, Coil bolt 2 9.00, No./terminals 3, Bracket type Crimp

### Moving Contacts

Pkg. 10



**133275** Moving Contact  
Servicing: M002T88971, M1T74581, M1T74581ZC, M1T74583, M1T74583ZC, M2T88971, M000T71681, M000T80381  
OD 2 6.00, Length 26.00, Shaft dim. 26.00, Thickness 2.60, Width 16.00/11.00, Material Copper, Shaft w/

Pkg. 10



**134673** Contact Plate  
Servicing: 32A66-10101, M008T80071, M008T80071A, M008T80071B, M8T80071, M8T80071A, M8T80071B, ME012995  
ID 9.25, Length 30.20, Thickness 2.95, Width 17.55

Pkg. 10



**135137** Contact Plate  
Servicing: 1810A050R, M000T22471, M000T87081, M000T87681, M001T80681, M001T84382ZC, M001T84883ZC, M001T84884  
ID 9.00, Length 30.25, Thickness 3.00, Width 11.15/14.10, Material Copper



**139955** Moving Contact  
Servicing: 1810A050R, M000T32771, M000T45371ZT, M000T84881, M000T84881ZC, M000T86581, M000T87081, M001T84382ZC  
OD 2 6.00, Length 29.00, Shaft dim. 28.80, Thickness 2.55, Width 16.00/11.00, Material Copper, Shaft w/

Pkg. 5



**233166** Moving Contact  
Servicing: M000T22471, M000T35471, MOT22473, MOT35471, M000T21671, M000T46371ZT, MOT22471, M000T46572ZT  
OD 2 6.00, Length 30.00, Shaft dim. 23.00, Thickness 2.60, Width 16.00, Material Copper, Shaft w/

Pkg. 10



**235099#** Moving Contact  
Servicing: 1810A050R, M001T80681, M008T71371ZE, M008T76071, M008T76072, M008T76072ZE, M1T80681, M8T71371ZE  
OD 2 5.90, Length 31.00, Shaft dim. 29.20, Thickness 2.60, Width 14.00, Material Steel, Shaft w/

### Fixed Contacts

Pkg. 10



**332565** Contact Bolt  
Servicing: 1810A050R, M000T22471, M000T84881, M000T84881ZC, M000T87681, M002T88471, M002T88472, M002T88473  
Total length 28.15, Length/rear collar 23.15, Thread length 19.00, Thread size M8, Washer w/o





### 332566 Bolt

Servicing: M000T22471, M002T85271, M002T88471, M002T88472, M002T88473, M0T22473, M2T85271, M2T88471, M2T88472  
Total length 40.50, Length/rear collar 34.90, Thread length 30.80, Thread size M8, Washer w/o

#### Various



### 132705 Terminal Switch

Replacing: 053480-0110  
Servicing: A004T00991, A4T00991  
ID 8.20, OD 4.20, Length 29.00, Shaft dim. M5, Width 2.50



### 233064 Screw

Servicing: 32A66-10101, M008T62671, M008T80071, M008T80071A, M008T80071B, M009T61473, M009T61474, M009T62172  
Thread M6, Total length 46.25, Thread length 31.45, Shaft w/, Washer w/o



### 235066 Terminal Switch

Total length 37.90

Pkg. 10

Pkg. 5

Pkg. 10

Pkg. 5



### 237841 Gasket

Servicing: M009T80472, M009T80473, M009T83671, M009T83672, M9T80472, M9T80473, M9T83671, M9T83672  
OD 89.00, Height 7.70

#### Drives



### 130741 Drive

Replacing: M191T30171, M191T30971, M191T30972, M191T30973, M191T31671, M191T33071, M191T34571, MD602052  
Servicing: M002T10271, M002T10471, M003T10071, M003T10372, M003T25181, M004T14572, M004T14771, M2T10271  
ID 12.85, OD 29.15, OD/housing 45.40, Total length 60.15, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131087 Drive

Replacing: M191T30974, M191T33371, M191T33372, M191T34071, M191T35171, MD607283, MD608273  
Servicing: M003T22581, M003T24081, M003T24482, M003T24486, M003T25081, M003T25281, M003T25781, M003T25782  
ID 12.75, OD 28.10, OD/housing 45.00, Total length 61.55, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 131110 Drive

Replacing: MD604047  
Servicing: MD011550, MD011553  
ID 12.55, OD 29.10, OD/housing 46.25, Total length 64.00, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131628 Drive

Replacing: M191T30371, M191T31071  
Servicing: M3T10473, M003T10473, M003T10475, M003T10476, M3T10473, M3T10475, M3T10476  
ID 12.80, OD 34.40, OD/housing 45.30, Total length 60.60, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 132005 Drive

Replacing: M191T22071, M191T22371, M191T22771, M191T22971, M191T23071, M191T23471, MD607894  
Servicing: M002T30581, M002T30585, M002T30586, M002T30881, M002T32281, M002T40081, M002T43081, M003T21281D  
ID 12.00, OD 28.20, OD/housing 45.50, Total length 56.00, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 132005z



### 132005Z Drive

Replacing: M191T22071, M191T22371, M191T22771, M191T22971, M191T23071, M191T23471, MD607894  
Servicing: M002T47383, MD335584, M0A01901  
ID 12.00, OD 28.00, OD/housing 46.20, OD/teeth 28.00, Total length 55.65, No./teeth 8, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 132005



### 132009 Drive

Replacing: M191T16071, M191T17071  
Servicing: M001T74081, M001T74087, M001T75681, M001T84281, M001T84481, M1T74081, M1T74081A, M1T74087, M1T75681  
ID 12.00, OD 29.70, OD/housing 45.00, Total length 64.00, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o





### 132010 Drive

Replacing: M191T16171

Servicing: M000T30471, M001T70381, M001T70381A, M001T70387, M0T30471, M0T71481, M0T81581, M0T84081, M1T70381  
ID 12.00, OD 28.00, OD/housing 48.00, Total length 64.00, No./teeth 8, Drive type Steel, Rotation CCW, Key spline w/o, Lock w/o



### 132011 Drive

Replacing: M191T12070, M191T12071, M191T12471, M191X18171

Servicing: M001T70483, M001T72483ZC, M001T72581, M001T72583, M001T73281, M001T73283, M001T73381, M001T73383  
ID 12.00, OD 28.00, OD/housing 46.00, Total length 50.20, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 132012 Drive

Replacing: M191T12171, M191T13271, M191X13271

Servicing: M000T80381, M001T70981, M001T70981A, M001T70982, M001T70982A, M001T70985, M001T71081, M001T71281  
ID 12.00, OD 31.55, OD/housing 46.00, Total length 51.80, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 132014 Drive

Replacing: M191T16271

Servicing: M000T80881, M001T70781, M001T75581, M001T77081, M0T80881, M1T70781, M1T75581, M1T77081, M2T70781  
ID 12.00, OD 37.35, OD/housing 48.00, Total length 75.00, No./teeth 12, Rotation CCW, Key spline w/o, Lock w/o



### 133268 Drive

Replacing: M191T26171

Servicing: M002T30681, M002T30786, M002T37081, M002T49282, M002T49283, M003T37081, M003T48382, M2T30681  
ID 12.00, OD 28.00, OD/housing 46.00, Total length 70.35, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o



### 133454 Drive

Replacing: M191T22271, M191T22871, M191T23171

Servicing: M002T30481, M2T30481, M002T41581, M002T42381, M2T41581, M2T42381, M003T33481  
ID 12.00, OD 29.00, OD/housing 46.00, Total length 55.50, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 133520 Drive

Replacing: M191T57072, M191T57081, M191T57083, M191Y57081

Servicing: M5T22371, M5T27672  
ID 14.30, OD 34.18, OD/housing 56.00, Total length 65.85, Splines A 10, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 134918 Drive

Replacing: M191T26771

Servicing: M003T33081, M3T33081  
ID 12.00, OD 28.00, OD/housing 46.00, Total length 56.20, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o



### 134925 Drive

Replacing: MD618887

ID 12.00, OD 27.80, OD/housing 46.85, Total length 63.00, Splines A 10, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 135567 Drive

Replacing: M191T22471

Servicing: M002T48381, M003T32985, M003T32986, M003T32988, M003T32989, M2T48381, M3T32985, M3T32986, M3T32988  
ID 12.00, OD 25.25, OD/housing 46.00, Total length 55.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 135572 Drive

Replacing: M191T22571

Servicing: M002T20181, M002T20181D, M002T42981, M003T48281A, M2T20181, M2T20181D, M2T42981, M2T42985, M3T48281

ID 12.00, OD 28.00, OD/housing 46.35, Total length 70.50, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o



### 135581 Drive

Replacing: M191T23371

Servicing: M003T27686, M003T27686H, M003T27686N, M003T30581, M003T30581H, M003T33981H, M003T37481, M003T42681  
ID 12.00, OD 32.00, OD/housing 45.00, Total length 55.60, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o





### 136145 Drive

Replacing: M191T13571, M191X13571  
Servicing: M001T60381, M1T60381  
ID 10.70, OD 29.15, OD/housing 46.25,  
Total length 78.50, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 136602 Drive

Replacing: M191T12871  
Servicing: M000T84881, M000T84881ZC,  
M001T72481, M001T74581, M001T74583,  
M0T84881, M0T84881ZC, M1T72481  
ID 12.00, OD 29.40, OD/housing 46.00,  
Total length 50.00, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 136722 Drive

Replacing: M191T13671, M191T14671,  
M191T18271, M357X91372  
Servicing: M001T90281, M0T36571,  
M1T90281, M000T93581, 1810A101,  
M000T22471, M000T22472, M000T35471  
ID 12.00, OD 31.80, OD/housing 46.00,  
Total length 51.00, No./teeth 12,  
Rotation CW, Key spline w/o, Lock w/o



### 136923 Drive

Replacing: M191T16771, M191T16971,  
M191X16771, M191X16971  
Servicing: M000T80281, M000T80281A,  
M000T80285, M000T80285A, M000T81381,  
M000T81681, M000T83981, M001T77181  
ID 12.00, OD 28.00, OD/housing 46.15,  
Total length 75.35, No./teeth 8,  
Rotation CCW, Key spline w/o, Lock w/o



### 137218 Drive

Replacing: M191T12971  
Servicing: M000T60081A, M000T60181,  
M000T60181A, M000T65381, M001T60081,  
M001T60181, M001T60185, M001T60581  
ID 15.70, OD 29.14,  
OD/housing 46.00, Total length 73.31,  
No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/



### 137643 Drive

Replacing: M191T12271, M191T12272,  
M191T14371, M191T15271  
Servicing: M001T74281, M001T74481,  
M001T74482, M001T79481, M001T79482,  
M1T74281, M1T74481, M1T74482, M1T79481  
ID 12.00, OD 27.90, OD/housing 46.15,  
Total length 51.75, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 137765 Drive

Replacing: M191T13471, M191X13471  
Servicing: M0T60187, M000T60081,  
M001T60281, M001T60285, M0T60081,  
M1T60281, M1T60285, M000T60081A, M0T60081A  
ID 10.70, OD 29.20, OD/housing 46.35,  
Total length 77.25, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o  
Dust cover kit: HC-CARGO 230549.



### 139541 Drive

Replacing: M191T15071, M191T68071,  
M191X68071, MD618963  
Servicing: M002T80582, M002T84071,  
M002T84171, M002T84571, M002T87071,  
M002T87171, M2T80582, M2T84071  
ID 13.05, OD 32.90, OD/housing 46.00,  
Total length 50.80, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 230332 Drive

Replacing: M357X85073  
Servicing: M003T56181, M003T56182, M003T56183,  
M3T56181, M3T56182, M3T56183, M3T58571  
OD 39.00, Total length 139.40,  
No./teeth 10, Key spline w/o, Lock w/o



### 231341 Drive

Replacing: M191T68971, M191T93971, M191X68971  
Servicing: M002T87671, M2T87671,  
M001T31072, M1T31072  
ID 13.00, OD 35.00, OD/housing 46.40,  
Total length 51.40, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 231415 Drive

Replacing: M191X68471, MD619204  
Servicing: M002T87371, M002T87971,  
M002T88071, M002T88171, M002T88271,  
M2T87371, M2T87971, M2T88071, M2T88171  
ID 13.05, OD 37.50, OD/housing 47.00,  
Total length 51.50, No./teeth 12,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 335402



### 231952 Drive

Replacing: M191T14271, M191T76081  
Servicing: M001T76081, M1T6082, M1T76081,  
M001T30071, M001T30072, M001T30171,  
M001T30172, M001T30173, M1T30072  
ID 12.00, OD 33.00, OD/housing 46.25,  
Total length 51.50, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o





**232480** Drive  
Replating: M45G  
ID 17.00, OD 39.20, OD/housing 60.45,  
Total length 73.70, Splines A 3,  
No./teeth 11, Rotation CCW,  
Key spline w/o, Lock w/o



**234514** Drive  
Replating: M191T19271  
Servicing: M000T20871, M000T20871ZE,  
M000T20872, M000T20872ZE, M001T80481,  
M00T20871, MOT20871, MOT20871ZE  
ID 12.00, OD 34.50, OD/housing 47.00,  
Total length 51.30, No./teeth 13,  
Rotation CW  
Alternative no.: 333871



**235426** Drive  
Replating: 6001547546, M191X243BT  
Servicing: M000T45071ZT, M000T46371ZT,  
MOT45071ZT, M000T45171, M000T45171ZT,  
M000T45371ZT, MOT45171  
ID 10.70, OD 23.60, OD/housing 45.00,  
Total length 44.00, Splines A 12,  
No./teeth 8, Rotation CW



**236752** Drive  
Replating: M191X16371  
Servicing: M000T87081, MOT82881,  
MOT87081  
ID 12.00, OD 40.00, OD/housing 47.00,  
Total length 76.15, No./teeth 13,  
Rotation CCW, Key spline w/o,  
Lock w/o



**236779** Drive  
Replating: M191X19971  
Servicing: M000T36371, M000T87681,  
M000T90981, MOT36371, MOT87681, MOT90981  
ID 12.00, OD 35.00, OD/housing 44.00,  
OD/teeth 35.00, Total length 51.00,  
No./teeth 11, Drive type Steel, Rotation CW



**237858** Drive  
Servicing: M000T45271, M000T45271ZT,  
M000T46171ZT, MOT45271, MOT45271ZT,  
MOT45275ZT, MOT46171ZT, MR994922  
ID 10.60, OD 23.60, OD/housing 44.95,  
OD/teeth 23.60, Total length 70.90,  
Splines A 12, No./teeth 8,  
Drive type Steel, Rotation CCW



**330417** Drive  
Replating: M191T95671  
Servicing: M002T85671, M002T85672,  
M002T85871, M2T85671, M2T85672, M2T85871  
ID 11.97, OD 29.26, OD/housing 46.84,  
OD/teeth 29.26, Total length 64.26,  
No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o



**330484** Drive  
Replating: M191T41971  
Servicing: M000T32271, MOT32271,  
MOT32271ZE, MOT32272  
ID 12.00, OD 29.50, OD/housing 45.00,  
Total length 51.35, No./teeth 11,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o



**331730** Drive  
Replating: M191X15871  
Servicing: M000T21671, M000T30771,  
M000T32571ZE, M000T32572ZE,  
M000T36071, M000T36071ZE, M000T36971  
ID 12.00, OD 28.00, OD/housing 47.00,  
OD/teeth 28.00, Total length 41.50,  
No./teeth 8, Drive type Steel, Rotation CW



**331942** Drive  
Replating: M191T41471  
Servicing: 1810A062, 1810A143,  
M001T93071, M001T93171ZC, M001T93371,  
M001T93371ZC, M001T93571, M1T93071  
ID 12.00, OD 34.50, OD/housing 46.90,  
OD/teeth 34.50, Total length 64.00,  
Splines A 12, No./teeth 13,  
Drive type Steel, Rotation CW



**332082** Drive  
Servicing: M008T62671, M8T62671,  
M008T62471  
OD/housing 61.50, Total length 110.00,  
Splines A 5, Splines B 20,  
Drive type Steel, Rotation CW, Lock w/



**332166#** Drive  
Servicing: M000T32771, MOT32771  
ID 12.00, OD 31.80, OD/housing 47.00,  
OD/teeth 31.80, Total length 41.40,  
No./teeth 10, Drive type Steel,  
Rotation CW



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### 332193 Drive

ID 16.30, OD 28.40, OD/housing 49.79,  
OD/teeth 28.40, Total length 88.95,  
Splines A 10, No./teeth 10,  
Drive type Steel, Rotation CCW,  
Key spline w/o, Lock w/o



### 332330 Drive

Servicing: M001T80681, M1T80681  
ID 12.00, OD 34.40, OD/housing 46.85,  
OD/teeth 34.40, Total length 51.00,  
Splines A 8, No./teeth 11, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o



### 333127 Drive

Replacing: M191T94571  
Servicing: M002T88571, M002T88572,  
M002T88572ZC, M2T88571, M2T88572,  
M2T88572ZC  
ID 13.15, OD 32.40, OD/housing 47.00,  
Total length 51.50, No./teeth 12,  
Drive type Steel, Rotation CW



### 333871 Drive

Replacing: M191T19271  
Servicing: M000T20871, M000T20871ZE,  
M000T21471, M000T86081, MOT20871,  
MOT20872, MOT21471, MOT86081  
ID 12.00, OD 34.50, OD/housing 47.00,  
Total length 51.30, No./teeth 13,  
Drive type Steel, Rotation CW  
Alternative no.: 234514



### 333947 Drive

Replacing: M191X14671  
Servicing: M000T88681, M001T96581,  
M1T96581, M1T96681  
ID 12.00, OD 32.25, OD/housing 46.50,  
OD/teeth 32.25, Total length 51.50,  
No./teeth 12, Drive type Steel,  
Rotation CW



### 333972 Drive

Replacing: M191T41171  
Servicing: M001T30271  
ID 12.00, OD 32.50, OD/housing 47.00,  
OD/teeth 32.50, Total length 76.00,  
No./teeth 12, Drive type Steel,  
Rotation CCW



### 335138 Drive

Replacing: M191T65171  
Servicing: M003T95071, M003T95073,  
M004T95076, M004T95082, M3T95071,  
M3T95073, M4T95075, M4T95076, M4T95082  
ID 18.00, OD 55.80, OD/housing 64.00,  
Total length 116.03, Splines A 10,  
No./teeth 13, Drive type Steel,  
Rotation CW



### 335402 Drive

Replacing: MD619204  
ID 13.05, OD 37.80, OD/housing 45.60,  
Total length 51.50, No./teeth 12,  
Drive type Steel, Rotation CW  
Alternative no.: 231415



### 335694 Drive

Replacing: M191X18671  
Servicing: M1T68381  
ID/ clutch end 11.00, OD 21.30,  
Shaft OD/front 24.85, Total length 86.50,  
Shaft length/D.E. house 53.30,  
No./splines 30, Rotation CW



### 335825 Drive

Replacing: M191T96471  
Servicing: M8T71971  
ID 10.75, OD 27.80, OD/housing 47.00,  
Total length 74.00, Splines A 8,  
No./teeth 10, Drive type Steel,  
Rotation CW

## Drive Parts

### Caps

Pkg. 10



### 134260 Drive Cap

ID 54.00, OD 56.30, Height 5.00

### Rollers

Pkg. 1000



### 134247 Roller

Servicing: M000T20171, M001T30271,  
M000T93681, M000T33771, M001T81582  
OD 6.00, Length 13.60



Pkg. 500



### 237953 Roller

Servicing: M009T20171, M009T61971, M009T62671, M191X69771, M191X93771, M9T20171, M9T61971, M009T61473  
OD 7.48, Length 22.38

Pkg. 100



### 238881 Roller

OD 8.50, Length 24.00

Pkg. 500



### 332095# Roller

Servicing: M008T62671, M8T62671, M008T62471  
OD 7.50, Length 17.50

## Springs

Pkg. 1000



### 134266 Dp Springs

Replating: M800X70771  
Servicing: M008T80371, M008T80373, M8T80371, M8T80373  
ID 3.80, OD 5.10, Length 10.80, Material Steel

## Pinion



### 132085 Pinion

Replating: M605X31671  
Servicing: M002T50981, M002T53781, M002T53785, M003T30281, M2T50981, M2T53581, M2T53781, M2T53785, M3T30281  
ID 11.65, OD 37.00, Height 19.10, Height/collar 3.65, No./splines 18, No./teeth 12, Bushing w/o



### 132483 Pinion

Replating: M605X65171, MD607789  
Servicing: M002T56171, M002T56181, M002T56182, M002T56185, M002T57271, M002T57273, M002T57771, M002T57773  
ID 13.65, OD 32.30, Height 20.35, No./splines 20, No./teeth 10, Bushing w/o  
Alternative no.: 333873



### 133007 Pinion

Replating: M605X23471, M605X25771, M605X32471, MM502529  
Servicing: M002T58381, M2T58381, M002T52881, M002T52882, M002T54085, M002T54091, M2T52881, M2T52882, M2T54085  
ID 12.00, OD 34.30, Height 19.00, Height/collar 3.45, No./splines 18, No./teeth 11, Bushing w/o



### 133009 Pinion

Replating: M605X61671  
Servicing: M002T50281, M002T50285, M002T50371, M002T50381, M002T50391, M002T52381, M002T53681, M2T50281  
ID 11.20, OD 45.15, Height 18.95, Height/collar 7.10, No./splines 18, No./teeth 15, Bushing w/o



### 133450 Pinion

Replating: M605X28271  
Servicing: M002T56471, M002T56472, M002T60271, M002T61371, M002T65271, M002T65272, M002T69171, M003T64172  
ID 15.00, OD 42.00, Height 18.20, Height/collar 3.00, No./splines 20, No./teeth 11, Bushing w/o



### 133451 Pinion

Replating: M605X66071, MD611022  
Servicing: M002T60171, M002T60172, M002T61071, M002T61072, M002T61271, M002T62771, M2T60171, M2T60172  
ID 12.85, OD 40.00, Height 18.20, Height/collar 4.75, No./splines 20, No./teeth 13, Bushing w/o



### 133493 Pinion

Replating: M605X30671, MM502439  
Servicing: M002T56271, M002T56272, M2T56271, M2T56272, M2T65671, MM409412, MM409413  
ID 15.00, OD 40.00, Height 18.20, Height/collar 3.65, No./splines 20, No./teeth 13, Bushing w/o



### 133630 Pinion

Replating: M605X63172  
Servicing: M002T54271, M002T64271, M002T64272, M003T52071, M2T54271, M2T54272, M2T64271, M2T64272, M3T52071  
ID 13.45, OD 35.50, Height 17.70, Height/collar 2.65, No./splines 20, No./teeth 9, Bushing w/o



### 133871 Pinion

Replating: M605X31971, ME700375  
Servicing: M002T57871, M002T57881, M002T61771, M002T66871, M002T66872, M002T66873, M002T67871, M002T67872  
ID 13.30, OD 35.35, Height 17.70, No./splines 20, No./teeth 9, Bushing w/o





### 137492 Pinion

Replacing: M605X36071, MD611748

Servicing: M002T60185, M002T61171, M2T60185, M2T61171, MD164978

ID 13.35, OD 39.85, Height 19.65, No./splines 20, No./teeth 13, Bushing w/o



### 137739 Pinion

Replacing: M605X27971

Servicing: M002T56071, M2T56071

ID 12.60, OD 38.80, Height 18.20, Height/collar 2.00, No./splines 20, No./teeth 10, Bushing w/o



### 139344 Pinion

Replacing: M605X36171

Servicing: M002T62271, M002T64373, M002T74371, M003T67671, M2T62271, M2T64373, M2T66271, M2T66272, M2T74371

ID 19.80, OD 38.50, Height 18.20, Height/collar 1.85, No./splines 20, No./teeth 10, Bushing w/o



### 139585 Pinion

Replacing: M605X26971

Servicing: M002T54572, M003T67771, M2T54572, M3T67771, M002T54571, M2T54571

ID 19.70, OD 51.00, Height 18.25, Height/collar 1.95, No./splines 20, No./teeth 13, Bushing w/o



### 139820 Pinion

Replacing: M605X95571, ME701489

Servicing: M008T85071B, M008T85571, M8T85071, M8T85071A, M8T85071B, M8T85571, ME012994, ME220480, M008T80071

ID 20.00, OD 35.35, Height 17.70, Height/collar 1.40, No./splines 20, No./teeth 9, Bushing w/o



### 231456 Pinion

Replacing: M605X96971

Servicing: M008T50071, M008T50171, M008T70071, M8T50071, M8T50171, M8T70071, M8T50172

ID 13.45, OD 37.15, Height 17.75, Height/collar 1.55, No./splines 20, No./teeth 12, Bushing w/o



### 231779 Pinion

Replacing: M605X35071, ME700856

Servicing: M002T78372, M002T78381, M002T78382, M002T78383, M2T78372, M2T78381, M2T78382, M2T78383, M2T78681

ID 12.90, OD 40.65, Height 17.80, Height/collar 2.90, No./splines 20, No./teeth 11, Bushing w/o



### 232230 Pinion

Replacing: M605X74571, M605X95271, ME701461

Servicing: M008T75071, M008T75073, M8T75071, M8T75073, ME201650, M008T75074ZT

ID 17.55, OD 32.45, Height 20.20, Height/collar 3.75, No./splines 20, No./teeth 10, Bushing w/o



### 232391 Pinion

Replacing: M605X95071, ME701441

Servicing: M008T55171, M008T60071, M3T56089, M8T55171, M8T60071, M8T60072, M8T60073, M8T60089, M8T60171

ID 13.45, OD 40.65, Height 17.85, Height/collar 1.40, No./splines 20, No./teeth 11, Bushing w/o



### 234808 Pinion

Replacing: M605X71971

Servicing: M009T60371, M9T60371, M009T60671, M009T60672, M9T60671, M9T60672

ID 24.60, OD 45.90, Height 32.20, Height/collar 1.60, No./splines 27, No./teeth 12, Bushing w/o



### 234906 Pinion

Replacing: M605C36101, M605C63301

Servicing: M002T64371, M002T64373, M2T64371, M2T64372, M2T64373

ID 15.00, OD 38.65, Height 18.15, Height/collar 2.20, No./splines 20, No./teeth 10, Bushing w/o



### 237515 Pinion

Servicing: M009T61671, M009T62172, M009T62173, M009T64171ZT, M009T66371, M9T61171, M9T61671, M9T62172

OD 47.00, Height 32.20, Height/collar 3.60, No./splines 26, No./teeth 12





### 237843

Pinion

Servicing: 0051516401, 0061511501, 0061516901, 0061517001, 19011501, M009T80472, M009T80473, M009T83671  
OD 43.70, Height 32.15, Height/collar 3.40, No./splines 26, No./teeth 12, Rotation CW



### 330368#

Pinion

Servicing: M008T76071, M008T76072, M008T76072ZE, M8T76071, M8T76071ZE, M8T76072, M8T76072ZE  
ID 20.71, OD 42.87, Height 18.71, Height/collar 5.41, No./splines 30, No./teeth 11, Bushing w/o



### 333873

Pinion

Replacing: M605X65171, MD607789  
Servicing: M002T56181, M002T56182, M002T56185, M002T57271, M002T63171, M002T74171, M2T56181, M2T56182  
ID 13.65, OD 32.30, Height 20.35, Height/collar 2.50, No./splines 20, No./teeth 10, Bushing w/o  
Alternative no.: 132483

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### 336411

Pinion

Servicing: M009T20171, M9T20171  
ID 32.00, OD 43.70, Height 18.20, Height/collar 3.00, No./splines 26, No./teeth 12, Rotation CW

## Drive Shafts



### 331934

Gear Shaft

Servicing: M001T93071, M001T93371ZC, M001T93571, M1T93071, M1T93171, M1T93371ZC, M1T93571, 1810A062, 1810A143  
Total length 75.85

## Planet Gears



### 335687

Planet Gear

Servicing: M8T50471  
Shaft dia./front 12.00, Total length 113.50, No./splines 10

## Gear Parts

### Gear Shafts



### 231776

Gear Shaft

Replacing: M357X64471  
Servicing: M000T80281, M000T80281A, M000T80285, M000T80285A, M000T80881, M000T81381, M000T81681, M000T83981  
OD/shaft 9.90, Total length 130.20, No./splines 8, Rotation CCW



### 233595

Gear Shaft

Replacing: M357X64371, M357X68071  
Servicing: M000T80081, M000T80381, M000T80581, M000T80781, M000T80783, M000T80784, M000T81181, M000T81281  
OD/shaft 9.90, Total length 104.90, No./splines 8, Rotation CW



### 235340

Gear Shaft

Replacing: M357X64771  
Servicing: M001T72483, M001T72483ZC, M001T79481, M001T79482, M002T80582, M002T84071, M002T84171, M002T84171ZT  
OD/shaft 9.90, Total length 105.00, No./splines 8, Rotation CW



### 237842

Gear Shaft

Total length 125.60, No./splines 12, Rotation CW

## Outer Gear



### 133403

Outer Gear

Replacing: M135B00371, M135C00171, M135X00771, M135X01171  
Servicing: M001T60185, M001T70982, M001T70982A, M001T70985, M001T71382, M001T72483ZC, M001T72985, M001T74081  
ID 49.15, OD 65.00, Height 30.20, Height/collar 6.84, No./teeth 43, Bushing w/



### 139323

Outer Gear

Replacing: M135X01471, M135X01571  
Servicing: M000T60081, M000T60081A, M000T60181, M000T60181A, M000T65381, M000T80081, M000T80281, M000T80281A  
ID 17.50, OD 63.80, Height 30.00, No./teeth 42, Bushing w/  
Bushings I.D. 17.50 mm.





### 139536 Outer Gear

Replacing: M135X01071, M135X02871, MD618961

Servicing: M002T80582, M002T84071, M002T84171, M002T84571, M002T87071, M002T87171, M002T87371, M002T87471

ID 50.25, OD 58.90, Height 30.40, Height/collar 7.19, No./teeth 44, Bushing w/o



### 139821 Outer Gear

Replacing: M135X01771

Servicing: M008T77071, M008T77072, M008T77074, M008T77075, M008T80371, M008T80373, M008T85071B, M008T85571

ID 50.00, OD 62.00, Height 30.60, No./teeth 44, Bushing w/ Bushing I.D. 20.70 mm.



### 231575 Outer Gear

Replacing: M135X01581, ME701437

Servicing: M008T55171, M008T60071, M008T60071A, M008T60371, M008T60372, M008T60373, M008T60871, M008T60872

ID 50.65, OD 70.00, Height 30.35, Height/collar 4.70, No./teeth 44, Bushing w/o



### 233638 Outer Gear

Servicing: M001T80381, M1T80381, M000T80082, M001T80081, M001T80082, M0T80082, M1T80081, M1T80082

ID 46.30, OD 55.80, Height 30.32, Height/collar 6.55, No./teeth 42, Bushing w/ Bearing: HC-CARGO 140920.

## Gear Wheels

Pkg. 10



### 135341 Gear Wheel

Replacing: M230D00171, M230X00471, M230X00671, MD618962, ME701459

Servicing: M000T60081, M000T60081A, M000T60181, M000T60181A, M000T65381, M000T70281, M000T70285, M000T70381

ID 8.00, OD 20.30, Height 11.30, No./teeth 16, Bushing w/



### 138565 Gear

Replacing: M231C00901, ME700122

Servicing: M002T54271, M002T54371, M002T54372, M002T54471, M002T54572, M002T54671, M002T54771, M002T56171

ID 14.30, OD 45.20, Height 16.60, No./splines 22, No./teeth 32, Bushing w/o



### 230337 Gear

Replacing: M231C00401

Servicing: M002T50171, M002T50181, M002T50281, M002T50285, M002T50371, M002T50381, M002T50981, M002T51181

ID 12.15, OD 41.75, Height 16.00, No./splines 18, No./teeth 32, Bushing w/o

## Rubbers



### 235201 Gasket

Servicing: M000T86181, M000T87881, M001T80181, M001T80381, M00T87881, M0T86181, M0T87881, M1T80181, M1T80381

ID 52.60, OD 64.85, Thickness 7.50, Type Starter, Material Rubber

## Various



### 136895 Gasket

Replacing: M578C24601, MD611213

Servicing: M001T60081, M001T60181, M001T60185, M001T60381, M001T60581, M001T61181, M001T68681, M001T70283

ID 53.00, OD 67.00, Thickness 8.00

Pkg. 10



### 139540 Gasket

Replacing: M578X27571, MD618965

Servicing: M001T30271, M002T84071, M002T84171, M002T84571, M002T87071, M002T87171, M002T87371, M002T87471

ID 52.95, OD 63.85, Thickness 7.50, Material Rubber



### 231459 Dust Cap Kit

Replacing: M578X29171, ME701445

Servicing: M002T87671, M008T50071, M008T55171, M008T60071, M008T60071A, M008T60371, M008T60372, M008T60373

ID 18.50, OD 76.50, Height 7.75 Some use gasket: HC-CARGO 136895.

## Levers



### 133463 Lever

Replacing: M864X09571, MD607921

Servicing: M003T10476D, M003T21281D, M003T21381, M003T21781, M003T21882D, M003T24482H, M003T24482J

Dist. 22.60, Length 81.05, Plunger w/o





### 134047 Lever

**Replacing:** M864X08871, M864X08872  
**Servicing:** M002T20181, M002T20181D, M002T30681, M002T30786, M002T30981, M002T37281, M002T41181, M002T41182  
**Dist.** 22.20, **Length** 79.75, **Plunger** w/o



### 135468 Lever

**Replacing:** M864X09771, M864X09772, M864X09774, MD611223, MD618546  
**Servicing:** M000T85881, M001T30271, M001T60081, M001T60181, M001T60185, M001T60281, M001T60285, M001T60381  
**Dist.** 36.30, **Length** 74.00, **Plunger** w/o



### 135571# Lever

**Replacing:** M863D02271, M864X07071, MM502405  
**Servicing:** M002T10271, M003T10071, M003T10672, M003T11272, M003T12572, M003T15772, M003T20081, M003T20381  
**Dist.** 22.55, **Length** 81.70, **Plunger** w/o



### 135573 Lever

**Replacing:** M863C05571, M863C06171, MD607633  
**Servicing:** M002T51085, M002T54771, M002T57371, M002T60171, M003T61071, M003T61171, M2T51085, M2T54771  
**Dist.** 54.55, **ID** 5.00, **Length** 114.00, **Plunger** w/o



### 136416 Lever

**Replacing:** M863C04871, M863C06271, M863C06272  
**Servicing:** M002T54271, M002T54272, M002T54371, M002T54372, M002T54471, M002T54572, M002T54671, M002T56471  
**Dist.** 55.20, **ID** 4.90, **Length** 90.45, **Plunger** w/o



### 139533 Lever Kit

**Replacing:** M864X09371  
**Servicing:** M002T30381, M002T30385, M002T30581, M002T30585, M002T30586, M002T30881, M002T32281, M002T37181  
**Dist.** 22.30, **Length** 77.25, **Plunger** w/o



### 139538 Lever Kit

**Replacing:** M864X11571, MD618971  
**Servicing:** M002T84071, M002T84171, M002T84571, M002T87071, M002T87171, M002T87371, M002T87471, M002T87671  
**Dist.** 36.00, **Length** 76.40, **Plunger** w/o



### 139823 Lever Kit

**Replacing:** M863X08672, M863X09671, ME701488  
**Servicing:** M008T80371, M008T80373, M2T80772, M8T80171, M8T80371, M8T80372, M8T80373, M8T80374, M8T80772  
**Dist.** 38.20, **ID** 4.95, **Length** 85.45, **Plunger** w/o  
**Lever only:** HC-CARGO 232969.



### 139981 Lever

**Replacing:** M863C06971  
**Servicing:** M002T92071, M002T92071A, M2T92071, M2T92071A, M2T92271, M2T92271A, M2T95071  
**Dist.** 56.30, **ID** 5.10, **Length** 114.55, **Plunger** w/o



### 231265 Lever Kit

**Replacing:** M864X12371  
**Servicing:** 1810A050R, M008T70071, M008T75071, M008T75071A, M008T75073, M008T75073A, M008T75074ZT, M8T70071  
**Dist.** 36.30, **Length** 76.00, **Plunger** w/o



### 231782 Lever Kit

**Replacing:** M863C05672, ME700234  
**Servicing:** M002T69081, M002T69171, M002T78072, M002T78072B, M002T78172, M002T78172A, M002T78372, M002T78381  
**Dist.** 55.25, **ID** 5.40, **Length** 99.30, **Plunger** w/o



### 232969 Lever

**Servicing:** 32A66-10101, M008T50071, M008T50072, M008T70371, M008T70471, M008T70471A, M008T71571, M008T75171  
**Dist.** 38.20, **ID** 4.95, **Length** 85.45, **Plunger** w/o  
**Lever kit:** HC-CARGO 139823.





### 233377 Lever

Replacing: M863X09272, M864X12271

Servicing: M008T55171, M008T60071, M008T60071A, M8T55171, M8T60071, M8T60071A, M8T60072, M8T60072A, M8T60073

Dist. 37.70, ID 5.65, Length 84.60, Plunger w/o



### 237514 Lever

Servicing: 20430564, 20572417, 20714203, 20891242, 21632125, 5001866293, M009T61171, M009T61473, M009T61474

Dist. 42.40, Length 87.70

## NEW PRODUCT

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### 237849 Lever

Servicing: 0051516401, 0061511501, 0061516901, 0061517001, 19011501, M009T80472, M009T80473, M009T83671

Dist. 44.00, Length 102.50

Pkg. 10



### 237862 Lever

Servicing: M000T45171, M000T45171ZT, M000T45271, M000T45271ZT, M000T45371ZT, M000T46371ZT, M0T45171

Dist. 23.00, Length 74.00

## NEW PRODUCT

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### 336412 Lever

Servicing: M009T20171, M9T20171

Dist. 42.80, ID 5.70, Length 90.40

## Clutches



### 132386 Clutch

Replacing: M357T70171, M357T70771, M357T70971, M357T78071, MD607540, MM502531

Servicing: M002T52081, M002T52082, M002T53085, M002T53086, M002T58781, M2T52081, M2T52082, M2T53085, M2T53086

OD 56.00, Shaft OD/front 17.00, Shaft OD/rear 11.00, Total length 124.00, No./splines 18, Rotation CW



### 132387 Clutch

Replacing: M357T70571, MM502404

Servicing: M002T52071, M002T58381, M002T58481, M002T58781, M2T52071, M2T58081, M2T58285, M2T58381, M2T58481

OD 56.00, Shaft OD/front 17.00, Shaft OD/rear 11.00, Total length 123.00, No./splines 18



### 132489 Clutch

Replacing: M357T75571, MD607791

Servicing: M002T56181, M002T56182, M002T56185, M002T57271, M002T57273, M002T57771, M002T57773, M002T62971

OD 66.50, Total length 118.80, No./splines 20



### 133439 Clutch

Replacing: M357T75471, M357T75971, M357T76371, MD607938

Servicing: M001T50171, M002T50391, M002T51281, M002T51282, M002T61871, M1T50171, M2T50391, M2T51281, M2T51282

OD 58.00, Shaft OD/front 16.85, Shaft OD/rear 11.00, Total length 122.50, No./splines 18



### 133448 Clutch

Replacing: M357T73171, MD607642

Servicing: M002T56171, M002T56271, M002T56272, M002T60171, M002T60172, M002T60185, M002T61071, M002T61072

OD 66.70, Shaft OD/front 18.65, Shaft OD/rear 14.00, Total length 131.40, Shaft length/D.E. house 56.00, No./splines 20



### 133449 Clutch

Replacing: M357T72671, M357T72672, M357X83673, M357X85273

Servicing: M002T56471, M002T56472, M002T57881, M002T60271, M002T61371, M002T61771, M002T62271, M002T65271

OD 66.70, Shaft OD/front 18.65, Shaft OD/rear 14.00, Total length 143.80, No./splines 20



### 134966 Clutch

Replacing: M357T61671, M357T71671, M357T72971, M357T73181, M357T76171, M357T84181, ME700121

Servicing: M002T54272, M002T54372, M002T54871, M002T54881, M002T56071, M002T57871, M002T60072, M002T66871

OD 66.60, Shaft OD/front 18.65, Shaft OD/rear 14.00, Total length 134.80, No./splines 20





### 139410 Clutch

Replacing: M357X77971, M357X78471  
Servicing: M002T25481, M2T25481  
OD 59.75, Total length 97.40,  
No./teeth 21, Rotation CCW,  
Key spline w/o, Lock w/o



### 231371 Clutch

Replacing: M191X67571, M191X67585,  
M191X67685, M191X67771, M191X67885,  
M191X68271, M191X68671, ME701487  
Servicing: M008T50471, M008T55171,  
M008T70971, M008T85071B, M008T85571,  
M3T57575, M8T50471, M8T55171, M8T60271  
OD 14.80, Shaft OD/front 20.00,  
Total length 110.70, No./splines 20,  
Rotation CW



### 232054 Clutch

Replacing: M357X91171, M357X91971,  
M357X91973, ME701456, ME701640  
Servicing: M008T70071, M008T70471,  
M008T75071, M008T75073, M008T80471,  
M008T80472, M8T70471, M8T70472  
Shaft dia./front 18.65, Total length 127.00,  
No./splines 20, No./teeth 44, Rotation CW  
w/ gear wheel.



### 232229 Clutch

Replacing: M191T68771, M191X68171,  
M191X68785, M191X69871, M191X94271  
Servicing: M008T70071, M008T70471,  
M008T75071, M008T75073, M008T80471,  
M8T70471, M8T75071, M8T75073, M8T80471  
OD 14.80, Shaft OD/front 18.65,  
Total length 91.50, No./splines 20,  
Rotation CW



### 233178# Clutch

Servicing: M001T64285, M1T64285  
OD 21.40, Total length 91.90,  
No./splines 30, Rotation CCW



### 233845 Clutch

Replacing: M357X73571, ME700042  
Servicing: M003T56071, M003T56072,  
M003T56074, M3T56071, M3T56072,  
M3T56074, ME037636  
OD 66.70, Shaft OD/front 18.65,  
Shaft OD/rear 14.00, Total length 159.50,  
No./splines 20



### 233846 Clutch

Replacing: M357T78271  
Servicing: M002T63371, M2T63371,  
M2T83371  
OD 66.40, Shaft OD/front 18.65,  
Shaft OD/rear 14.00, Total length 140.30,  
No./splines 20



### 234774 Clutch

Replacing: M191X69771, M191X93771  
Servicing: M009T60671, M9T50471,  
M9T60671, M009T60371, M9T60371  
OD 19.00, Shaft OD/front 24.90,  
Total length 135.00, No./splines 26,  
Rotation CW



### 234810 Clutch

Replacing: M191X69671  
Servicing: M008T71371, M008T71371ZE,  
M008T71471, M008T71471ZE, M008T75371,  
M8T71371, M8T71371ZE, M8T71471  
ID/ clutch end 10.80, OD 21.30,  
Shaft OD/front 25.00, Total length 90.80,  
Shaft length/D.E. house 52.00,  
No./splines 30, Rotation CCW



### 236080 Clutch

Replacing: M357T72271  
Servicing: M002T54471, M002T57671,  
M002T57671A, M002T57673, M002T57673A,  
M002T57673C, M002T78072, M002T78072B  
OD 67.35, Shaft OD/front 18.65,  
Shaft OD/rear 14.00, Total length 135.00,  
No./splines 20, Rotation CCW



### 237105 Clutch

Replacing: M191T94071, M191X94071  
Servicing: M009T20171, M009T61971,  
M009T62671, M9T61171, M9T61571,  
M009T61474, M009T61671, M009T62172  
OD 18.90, Shaft OD/front 25.00,  
Total length 134.00, No./splines 26,  
Rotation CW  
Alternative no.: 335904



### 237834 Clutch

Replacing: M191T90271, M191X90271  
Servicing: M009T80472, M009T80473,  
M009T82071, M009T82479, M009T83671,  
M009T83672, M9T80472, M9T80473  
OD 18.90, Shaft OD/front 28.00,  
Total length 140.50, No./splines 26,  
Rotation CW





### 330366 Clutch

Replacing: M191X95971

Servicing: M008T76071, M008T76072, M008T76072ZE, M8T76071, M8T76071ZE, M8T76072, M8T76072ZE

OD 21.30, Shaft OD/front 25.00, Total length 89.50, No./splines 30, Rotation CW



### 330723 Clutch

Replacing: M357X78871

Servicing: M002TS0571, M002TS0575, M2TS0571, M2TS0575

OD 46.95, Total length 166.50, No./splines 8, Rotation CW



### 333677 Clutch

Servicing: M8T50071, M8T50171

ID/ clutch end 12.00, OD 14.70, Shaft OD/front 19.90, Total length 110.00, Shaft length/D.E. house 65.40, No./splines 5, No./teeth 20, Rotation CW



### 335309 Clutch

Replacing: M191X94471

Servicing: M8T62471

ID/ clutch end 12.00, OD 14.80, Shaft OD/front 20.90, Total length 110.00, Shaft length/D.E. house 65.00, No./splines 20, Rotation CW

## NEW PRODUCT

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### 335904 Clutch

Replacing: M191T94071, M191X94071

Servicing: M009T20171, M009T60471, M009T61473, M009T61971, M009T62671, M009T64971, M9T61171, M9T61571

OD 18.90, Shaft OD/front 24.90, Total length 133.50, No./splines 26, Rotation CW  
Alternative no.: 237105

## Brush Gears



### 132475 Brush Gear

Replacing: M649T05071

Servicing: M002T54271, M002T54272, M002T54371, M002T54372, M002T54471, M002T54572, M002T54671, M002T54771

12 Volt, ID 32.00, OD 70.35, Height 22.00  
Brush set: HC-CARGO 140387.



### 133338 Brush Gear

Replacing: M649T02171

Servicing: M002T60071, M002T60072, M002T60073, M002T60171, M002T92071, M002T92171, M002T92172, M008T55073

ID 34.00, OD 72.50, Height 28.95  
Neg. brushes. Brush set: HC-CARGO 140388.



### 133339 Brush Gear

Replacing: M371X07371, M649T04971, M649T04972, M649T07371, ME700047, ME700939

Servicing: M003T56071, M003T56072, M003T56174, M003T56181, M003T56182, M003T56183, M003T56272, M003T66071

12 Volt, ID 41.40, OD 75.75, Height 29.70  
Brush set: HC-CARGO 140388. Brush spring: HC-CARGO 135201.



### 133340 Brush Gear

Replacing: M649T03571, M649X02572, M649X03573

Servicing: M003T10172, M003T10271, M003T10272, M003T10372, M003T10473, M003T10475, M003T10476, M003T10672

12 Volt, ID 40.75, OD 80.35, Height 16.25  
Neg. brushes. Brush set: HC-CARGO 140347.



### 133341 Brush Gear

Replacing: M649T01271, M649T01272, M649T01273, M649T06871, M649T09371, M649T09471, M649X01271, MD611731

Servicing: M001T60081, M001T60181, M001T60185, M001T60381, M001T60581, M001T61181, M001T64285, M001T70283

12 Volt, ID 31.10, OD 67.35, Height 16.50  
Pos. brush: HC-CARGO 140967.



### 133342 Brush Gear

Replacing: M649T01671, M649T06971

Servicing: M001T30271, M001T66081, M001T74081, M001T74087, M001T74281, M001T74481, M001T74491, M001T74781

12 Volt, ID 31.00, OD 67.00, Height 22.55



### 133808 Brush Gear

Replacing: MD604645

12 Volt, ID 29.55, OD 68.80, Height 16.60

Brush set: HC-CARGO 140602. Brush springs: HC-CARGO 133810.





### 133886 Brush Gear

**Replacing:** M649T01471, M649T02471, M649T04071, M649T04471, M649X04473, M649X20171

**Servicing:** M002T50391, M002T51082, M002T51181, M002T51281, M002T51282, M002T51805, M002T52071, M002T52081  
12 Volt, ID 34.80, OD 66.90, Height 15.15



### 135365# Brush Gear

**Replacing:** M649X01771

**Servicing:** M001T90081, M001T90081A, M1T90081, M1T90081A

12 Volt, ID 30.95, OD 67.20, Height 22.45  
Neg. brushes. Brush set: HC-CARGO 140743.



### 135467 Brush Gear

**Replacing:** M649T01371, M649T02271, M649T02272, M649T04871, M649X01371, MD607555, MD607926, MD618513

**Servicing:** M002T30381, M002T30385, M002T30481, M002T41381, M002T41581, M002T42381, M002T42881, M002T48681

12 Volt, ID 34.25, OD 74.00, Height 12.85  
Neg. brushes. Brush set: HC-CARGO 140349.



### 137929 Brush Gear

**Replacing:** M321X04471, M321X04771, M321X05171, M321X06671, M321X07071

**Servicing:** M000T60181, M000T80081, M000T80781, M000T80881, M000T85881, M001T78581, M001T79581, M0T60181

12 Volt, ID 31.20, OD 62.85,  
Lead length 77.40, Height 15.55  
Brush set: HC-CARGO 140921.



### 138963 Brush Gear

**Replacing:** M649T20471, M649X20471, ME701467

**Servicing:** M002T84071, M002T84171, M002T84571, M002T87071, M002T87171, M002T87671, M2T84071, M2T84171

12 Volt, ID 33.00, OD 71.40, Height 15.45  
Neg. brushes. Brush set: HC-CARGO 140973 (x2).



### 139238 Brush Gear

**Replacing:** M649X10171, MD618593

**Servicing:** M000T70281, M000T70285, M000T70381, M000T71385, M000T71581, M000T71681, M000T71881, M000T84381

12 Volt, ID 31.28, OD 67.67,  
Lead length 78.16, Height 7.28  
Neg. brushes. Positive Brush: HC-CARGO 140967.



### 139822 Brush Gear

**Replacing:** M649X20771, ME701495

**Servicing:** M008T80371, M008T80373, M008T80471, M008T80471A, M008T80472, M008T80472A, M008T85071B, M008T85571

24 Volt, ID 32.65, OD 70.00, Height 15.60  
Neg. brushes. Positive Brush: HC-CARGO 141010.



### 231781 Brush Gear

**Replacing:** M649T02172, ME700858

**Servicing:** M002T78372, M002T78381, M002T78382, M002T78383, M002T78481, M2T78071, M2T78271, M2T78372, M2T78381

24 Volt, ID 31.20, OD 65.30,  
Height 14.70  
Pos. brush: HC-CARGO 141102 (x2).



### 231892 Brush Gear

**Replacing:** M649X20671, ME101448, ME701448

**Servicing:** M008T50071, M008T50072, M008T60071, M008T60071A, M008T60371, M008T60372, M008T60373, M008T60871

24 Volt, ID 35.00, OD 69.85,  
Height 29.00  
Neg. brushes. Brush set: HC-CARGO 140388.



### 234811 Brush Gear

**Replacing:** M321X10276

**Servicing:** M000T70381, M000T81181, M001T70483, M001T73383, M001T84883, M001T84883ZC, M001T84884, M0T70381

12 Volt, ID 32.25, OD 66.00,  
Lead length 67.00, Height 16.40



### 235214 Brush Gear

**Replacing:** M321X07076

**Servicing:** M000T80281B, M000T86181, M000T87081, M000T87881, M000T88681, M000T91581, M001T80381, M001T80481

12 Volt, ID 31.20, OD 65.80,  
Lead length 70.00, Height 17.00



### 235390 Brush Gear

12 Volt, ID 34.00, OD 64.00,  
Lead length 35.00, Height 15.00





### 236441 Brush Gear

**Servicing:** M009T61473, M009T61474, M9T61473, M009T60371, M009T60471, M009T61571, M009T61671, M009T66371  
24 Volt, ID 41.00, OD 81.00, Height 37.00



### 237859 Brush Gear

**Replacing:** M321X15071  
**Servicing:** ACR, 1810A011, M000T20171, M000T20871, M000T20871ZE, M000T20872, M000T20872ZE, M000T21471, M000T21671  
12 Volt, ID 31.32, OD 67.50, Lead length 17.40, Height 16.20



### 330181 Brush Gear

**Servicing:** M000T22471, M000T32271, M000T32571ZE, M000T32572ZE, M000T32771, M000T46171ZT, M0T22473, M0T32271  
ID 31.35, OD 65.54, Lead length 22.00, Height 16.50

## Brush Gear Parts

## Brush Springs



### 133810 Brush Spring

**Replacing:** MD604644  
ID 5.00, OD 6.20, Length 22.00, Material Steel



### 134267 Dp Springs

**Servicing:** M000T84881, M000T84881ZC, M000T86581, M000T87681, M001T84382ZC, M001T84883ZC, M001T84884, M0T84881  
Length 14.50, Height 4.60, Width 12.20, Material Steel



### 135201 Brush Spring

**Replacing:** M391C02201, MD607462  
**Servicing:** M003T54071, M003T56071, M003T56072, M003T56074, M003T56082, M003T56084, M003T56174, M003T56181  
OD 14.20, Length 24.20, Width 10.00, Material Steel



### 139826 Brush Spring

**Replacing:** M391X04371, ME701468  
**Servicing:** M002T87471, M002T50471, M008T70071, M008T70371, M008T70471, M008T70471A, M008T70971, M008T71371  
OD 13.00, Length 23.00, Width 6.00, Material Steel



### 233867 Brush Spring Set

**Replacing:** M191C00101, M391C00101, MD602210  
**Servicing:** M002T41181, M002T50391, M2T41181, M2T50391, M002T47383, M0A01901, MM409410, M002T10171, M002T20181  
ID 9.70, OD 12.00, Length 21.00, Width 4.75, Material Steel



### 233868 Brush Spring Set

**Replacing:** M391C02501, M391C02801, ME700128  
**Servicing:** M002T60072, M002T60171, M002T78072, M002T78372, M002T78381, M002T78382, M002T78383, M002T78481  
OD 11.50, Length 22.70, Width 10.00, Material Steel



### 238126 Brush Spring

**Servicing:** 1810A011, M000T20871ZE, M000T20872, M000T20872ZE, M000T22471, M000T32171, M000T32172, M000T32172ZE  
OD 7.95, Length 16.20

## Brush Sets



### 140338 Brush Set

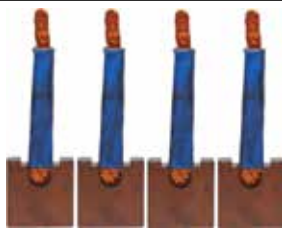
**Replacing:** 23379-M4900  
**Servicing:** M001T50171, M1T50171  
12 Volt, Length 16.00, Lead length 43.50, Lead length 2 33.50, Height 14.00, Thickness 7.00



### 140345 Brush Set

**Replacing:** M648D10471, MD602593, MD602594  
12 Volt, Length 16.50, Lead length 33.50, Height 14.00, Thickness 6.00





### 140346 Brush Set

Replacing: 23379-99008, M648C22371, MM502019

Servicing: M5T25373, M5T27672

12 Volt, Length 19.00, Lead length 48.10, Height 19.00, Thickness 6.50



### 140347 Brush Set

Replacing: JMTSX-36, M648C10371, M648C13770, MD602468, MD602470, MD607389

Servicing: M002T23181, M2T23181, MEA03-0, 1810A050R, M001T50071, M002T10271, M002T51082, M002T51805

12 Volt, Length 17.00, Lead length 38.00, Height 12.00, Thickness 6.80

Pkg. 5



### 140348 Brush Set

Replacing: M648C25271, M648C25273

Servicing: M002T54272, M003T54071, M003T54072, M2T54272, M3T52071, M3T54071, M3T54072, 34466-15101

24 Volt, Length 18.00, Lead length 40.60, Height 20.00, Thickness 8.00



### 140349 Brush Set

Replacing: M648C14870, M648C14871, M648C14970, M648C14971, M648C15070, M648C16970, M648C16971, MD607554

Servicing: M002T30481, M002T30881, M002T41581, M002T42381, M003T22381, M003T24482, M003T25081, M003T26081

12 Volt, Length 17.00, Lead length 37.00, Height 10.00, Thickness 7.00



### 140386 Brush Set

Replacing: M648C20371, M648C24471, M648C24471/472, M648C24472, M648D20771, MM502135

Servicing: M005T22176, M5T22176, M005T22175, M5T20172, M5T22175, M5T23272

12 Volt, Length 19.00, Lead length 45.50, Height 19.00, Thickness 6.50



### 140387 Brush Set

Replacing: M648C15372, M648C15372/472, M648C15472, M648C28671, M648X28271, M648X28671, MD618460

Servicing: M002T54871, M002T54881, M002T56185, M003T10977, M2T54871, M2T54881, M2T56185, M3T10977, MEA10-7

12 Volt, Length 18.00, Lead length 34.50, Height 18.00, Thickness 6.80



### 140388 Brush Set

Replacing: M648C25671, M648C25671/672, M648C28371, M648C28571, M648X40811, M648X40871

Servicing: M3T67671, M008T50071, M008T50072, M8T50071, M8T50072, M002T60072, M002T60171, M002T92071

12 Volt, Length 17.00, Lead length 35.50, Lead length 2 42.30, Height 24.00, Thickness 8.00



### 140395 Brush Set

Replacing: M648C24971/972, M648C24973/974, M648C24974, ME700210

Servicing: M004T50073, M4T50073, M4T50171, M004T55077, M4T55077

12 Volt, Length 20.00, Lead length 42.50, Height 25.00, Thickness 8.00



### 140556 Brush Set

Replacing: 23380-E3010, M648C12170, M648C12370

Servicing: M002T20181A, M002T20281, M002T23685, M003T10475, M003T10476, M003T10672, M003T11174, M003T11272

12 Volt, Length 17.50, Lead length 38.00, Height 11.73, Thickness 6.46



### 140559 Brush Set

Replacing: M647C00271, M647C00272, M647C00571, M647C00573, MD611216

Servicing: M001T71781, M001T71781A, M001T74381A, M001T77781, M001T79781, M1T71781, M1T71781A, M1T74381A

12 Volt, Length 17.30, Lead length 80.00, Lead length 2 31.00, Height 11.76, Thickness 4.40  
w/o brush bar: HC-CARGO 141037.



### 140560 Brush Set

Replacing: M647C00371, M647C00671, M647C01771

Servicing: M001T30171, M001T30173, M001T66081, M001T74081, M001T74087, M001T74281, M001T74481, M001T74491

12 Volt, Length 18.00, Lead length 90.50, Height 17.50, Thickness 4.50  
Alternative no.: GAS119, GAS120



### 140561 Brush Set

Replacing: M647X02971, MD618619

Servicing: M000T71581, M000T71681, M001T60081, M001T71381, M001T72581, M001T72583, M001T72583G, M001T73281

12 Volt, Length 17.50, Lead length 58.50, Height 12.00, Thickness 4.50





### 140591 Brush Set

Replacing: M648X28771, M648X30971, MD607420, MD618447

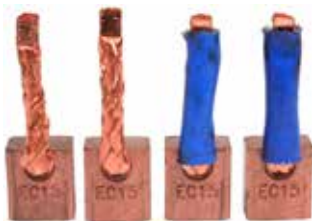
Servicing: M002T24181, M002T25581, M002T25681, M002T50391, M002T54091, M002T61871A, M002T61871B, M002T62071A  
12 Volt, Length 17.50, Lead length 37.00, Height 12.00, Thickness 6.50



### 140708 Brush Set

Servicing: M001T50172, M001T50471, M1T50172, M1T50471

12 Volt, Length 16.00, Lead length 30.50, Height 14.30, Thickness 6.70



### 140709 Brush Set

Servicing: M001T50171, M002T52871, M1T50171, M2T52871

12 Volt, Length 14.00, Lead length 29.30, Height 12.00, Thickness 7.00

Pkg. 5



### 140743 Brush Set

Replacing: M647X01871

Servicing: M001T90081, M1T90081

12 Volt, Length 17.50, Lead length 92.00, Lead length 2 24.00, Height 18.00, Thickness 4.50

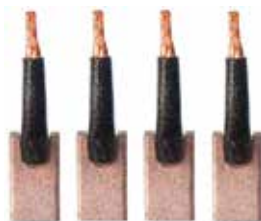


### 140921 Brush Set

Replacing: M647X03971, M647X04571

Servicing: M000T80281, M000T80285, M000T80381, M000T80581, M000T81081, M001T78581, MOT80281, MOT80285

12 Volt, Length 12.50, Lead length 60.00, Lead length 2 26.00, Height 12.00, Thickness 4.50



### 140931 Brush Set

Replacing: M647C00171, M648D20671

Servicing: M002T40081, M2T40081, MD066761

12 Volt, Length 17.50, Lead length 30.50, Height 10.00, Thickness 4.50



### 140966 Brush Set

Replacing: M647X03471, M647X05871, M647X05971, M647X06571

Servicing: M000T60181, M000T80081, M000T80781, M000T80881, M001T79482, M001T79581, MOT60181, MOT80081

12 Volt, Length 12.00, Lead length 60.00, Height 12.00, Thickness 4.50

Pkg. 5

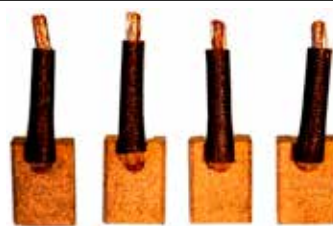


### 140967 Brush Set

Replacing: M647X02071, M647X02671, MD618540, MD618659

Servicing: M000T70281, M000T70285, M000T70381, M001T72483ZC, MOT70281, MOT70285, MOT70381, MOT70481, MOT71181

12 Volt, Length 16.50, Lead length 73.00, Lead length 2 29.00, Height 12.00, Thickness 4.50



### 141037 Brush Set

Servicing: M000T82081, M000T82081ZE, M000T85381, M000T86181, MOT82081, MOT82081ZE, MOT85381, MOT86181

12 Volt, Length 16.50, Lead length 30.00, Height 12.00, Thickness 4.50  
w/ brush bar: HC-CARGO 140559.



### 141189 Brush Set

Replacing: M648C26771, ME700299, ME700304

Servicing: M008T62671, M4T66074, M4T66173, M8T62671

12 Volt, Length 18.00, Lead length 39.00, Height 24.00, Thickness 8.00, Terminals 1



### 141224 Brush Set

12 Volt, Length 15.15, Lead length 61.00/93.00, Lead length 2 30.00, Height 11.85, Thickness 4.42



### 141245 Brush Set

Servicing: M001T84883ZC, M001T84884, M1T84883ZC, M000T60081A, M000T60082, M000T81181, M000T85881, M001T84883

12 Volt, Length 12.00, Lead length 80.00, Lead length 2 25.00, Height 12.00, Thickness 4.50





### 141253 Brush Set

Replacing: 647X04271, M647X04271, M647X05571

Servicing: M001T74583ZC, M000T88081, M001T74581, M001T74583, M0T88081, M000T80881

12 Volt, Length 12.00, Lead length 114.00, Lead length 2 32.30, Height 12.00, Thickness 4.50



### 141259 Brush Set

Servicing: M000T93581, M000T93582, M0T93581, M0T93582, M000T85981, M000T86081, M001T85781, M0T85981, M0T86081

12 Volt, Length 12.50, Lead length 34.00, Lead length 2 57.00, Height 12.00, Thickness 4.50



### 141273 Brush Set

Replacing: M648C26371

Servicing: M002T56071, M002T60071, M002T66873, M002T67884, M002T80582, M2T56071, M2T60071, M2T66873, M2T67884

24 Volt, Length 18.15, Lead length 26.50, Height 17.80, Thickness 6.65



### 142006 Brush Set

Servicing: M009T61473, M009T61474, M009T61671, M009T62172, M009T62173, M009T64171ZT, M009T66371, M009T80472

24 Volt, Length 18.00, Lead length 41.50, Height 29.70, Thickness 8.00



### 142056 Brush Set

Servicing: M000T86181, M0T86181, M00T87881, M000T36071, M000T36371, M000T45071ZT, M000T84585, M000T91581

12 Volt, Length 12.00, Height 12.00, Thickness 4.50  
Alternative no.: B142056

**NEW PRODUCT**  
[www.hc-cargo.com](http://www.hc-cargo.com)

### 142136 Carbon Brush Set

Manufacturer: Mitsubishi

Replacing: M648X28471

Servicing: M008T62471

24 Volt, Length 18.50, Height 24.00, Thickness 8.00, Terminals 1

**NEW PRODUCT**  
[www.hc-cargo.com](http://www.hc-cargo.com)

### 142221 Brush Set

Servicing: M000T33771

12 Volt, Length 12.20, Lead length 34.00, Lead length 2 27.00, Height 17.80, Thickness 4.40



### 142350 Brush Set

Servicing: M009T80472, M009T83671, M009T83672, M9T80472, M9T80473, M9T83671, M9T83672

Length 18.00, Lead length 40.00, Height 30.00, Thickness 7.95



### 330182 Brush Set

Servicing: 1810A011, M000T20171, M000T20871, M000T20871ZE, M000T20872, M000T20872ZE, M000T21471, M000T21671

12 Volt, Length 12.20, Lead length 35.00, Height 11.84, Thickness 4.30

Pkg. 100



### B142056 Brush Set

Replacing: B142056

Servicing: M000T87081, M000T87881, M001T80381, M001T80481, M0T87081, M0T87881, M1T80381, M1T80481, M0T87881

12 Volt, Length 12.00, Height 12.00, Thickness 4.50  
Alternative no.: 142056

Pkg. 100



### GAS119 Brush Set

Replacing: M647C00371, M647C00671, M647C01771

Servicing: M001T30271, M001T30071, M001T30172, M001T80181, M001T80481, M001T93371ZC, M1T30073, M1T74581

12 Volt, Length 18.00, Lead length 90.50, Height 17.50, Thickness 4.50  
Alternative no.: 140560

### Brushes

Pkg. 20



### 140973 Brush

Replacing: M648X40771, ME701466

Servicing: M002T87471, M008T70071, M008T70371, M008T70471, M008T70471A, M008T71571, M008T75071, M008T75071A

12 Volt, Length 17.50, Lead length 35.00, Height 12.00, Thickness 6.50





### 141010 Brush

Replacing: M648X40972, ME701494

Servicing: M008T80371, M008T80373, M008T80471, M008T80471A, M008T80472, M008T80472A, M008T85071B, M008T85571  
24 Volt, Length 17.00, Lead length 35.50, Height 12.00, Thickness 6.50



### 141102 Brush

Replacing: M648X28471, ME701189

Servicing: M002T78372, M002T78381, M002T78382, M002T78383, M2T78372, M2T78381, M2T78382, M2T78383, M2T78482  
24 Volt, Length 18.00, Lead length 41.50, Height 24.00, Thickness 7.80



### GAS120 Brush

Replacing: M647C00371, M647C00671, M647C01771

Servicing: M001T30271, M001T30071, M001T30172, M001T80181, M001T80481, M001T93371ZC, M1T74581, M1T74581ZC  
12 Volt, Lead length 2 18.00, Height 17.50, Thickness 4.50  
Alternative no.: 140560

## Bushings



### 140319 Bushing

Replacing: M409D30201

Servicing: M000T81981, M000T84585, M000T84781, M000T86081, M000T86181, M000T91581, M001T30072, M001T30171  
ID 10.00, OD 14.00, Length 12.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140319



### 140320 Bushing

Replacing: M410D11271, M410D12071, M410D12171, MD602686, MD602687

Servicing: M002T50391, M002T53882, M002T54091, M003T10977, M003T24181, M2T50391, M2T53882, M2T54091, M3T10977  
ID 11.06, OD 13.03, Length 13.00, Material Copper, Pin w/o  
Alternative no.: B140320



### 140321 Bushing

Replacing: M409D32201, M410D00271, M410D30171, MD602213

Servicing: A3T22681, M002T10171, M002T10271, M002T20181A, M002T20281, M002T23685, M003T10071, M003T10372  
ID 14.27, OD 17.26, Length 12.45, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140321



### 140322# Bushing

Replacing: M410D11671, MM502137

Servicing: M005T22175, M005T22176, M5T20172, M5T22175, M5T22176, M5T23272, M5T25373, M5T27672  
ID 12.23, OD 14.36, Length 15.70, Type Standard, Material Copper, Pin w/o



### 140323 Bushing

Replacing: M410D12671

ID 14.20, OD 16.20, Length 15.70, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140323



### 140326 Bushing

Replacing: MD604062

Servicing: MEA07-0, MQJ1R, MQJ2R, PW501783  
ID 12.54, OD 14.72, Length 14.00, Material Copper, Pin w/o  
Alternative no.: B140326



### 140328 Bushing

Replacing: MD604066

ID 12.54, OD 16.55, Length 10.50, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140328



### 140428 Bushing

Replacing: M409C12670, M409C13070, MD607741

Servicing: A3T22681, M002T20181A, M002T20281, M002T23685, M003T10473, M003T10476, M003T10672, M003T11174  
ID 11.02, OD 14.00, Length 13.00, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140428



### 140429 Bushing

Replacing: M409C32370, M649C32370, MD607903

Servicing: M002T20181, M002T20181D, M002T30381, M002T30385, M002T30481, M002T30581, M002T30585, M002T30586  
ID 12.02, OD 16.00, Length 9.50, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140429



Pkg. 10



### 140430 Bushing

**Replacing:** M409C12870, MD611042  
**Servicing:** M000T20171, M000T21671, M002T30981, M002T37281, M002T41181, M002T41182, M002T42481, M003T27686D  
**ID 10.10, OD 14.04, Length 9.60, Material Copper, Pin w/o**

Pkg. 10



### 140466 Bushing

**Replacing:** FBM-16RF  
**Servicing:** M002T10271, M003T10071, M003T10372, M003T19871, M003T22581, M003T24482, M003T24486, M003T25081  
**ID 11.00, OD 13.00, Length 17.55, Type Standard, Material Steel, Pin w/o**

Pkg. 5



### 140484 Bushing

**Servicing:** M003T61071, M3T61071  
**ID 18.80, OD 20.00, Length 11.00, Type Standard, Material Copper, Pin w/**

Pkg. 10



### 140505 Bushing

**Replacing:** M409D01301  
**Servicing:** M001T50071, M1T50071, M003T15772, M3T15772, MED03-1  
**ID 17.00, OD 20.00, Length 8.00, Material Copper, Pin w/o**

Pkg. 10



### 140517 Bushing

**Replacing:** 1-23351-0140  
**Servicing:** M003T26685, M3T26685  
**ID 15.03, OD 19.02, Length 19.90, Pin w/o**

Pkg. 10



### 140555 Bushing

**Replacing:** M409C12970, M409C13270, MD607892  
**Servicing:** M001T70481, M001T70681, M001T70686, M001T71081, M001T71281, M001T71381, M001T71781, M001T84883ZC  
**ID 10.03, OD 14.00, Length 12.50, Type Standard, Material Copper, Pin w/o**  
**Alternative no.: B140555**

Pkg. 10



### 140729 Bushing

**Servicing:** M001T81582  
**ID 12.03, OD 14.00, Length 20.85, Type Standard, Material Copper, Pin w/o**  
**Alternative no.: B140729**

Pkg. 10



### 140730 Bushing

**Servicing:** M000T33771  
**ID 12.05, OD 14.13, Length 15.90, Material Copper, Pin w/o**

Pkg. 10



### 140731 Bushing

**Replacing:** M409C32401, M409C32470, M409X32471, M409X32571, MD618334  
**Servicing:** M000T20171, M000T21671, M000T46371ZT, M000T60081, M000T60081A, M000T60181, M000T60181A, M000T65381  
**ID 10.10, OD 12.95, OD/collar 15.95, Length 10.45, Height/collar 1.95, Material Copper, Pin w/o**

Pkg. 10



### 140846 Bushing

**Servicing:** M001T70281, M001T70281ZC, M001T70283, M001T70283ZC, M001T85781, M001T90081, M001T90081A, M001T90281  
**ID 19.03, OD 22.05, Length 9.00, Type Standard, Material Copper, Pin w/o**  
**Alternative no.: B140846**

Pkg. 10



### 140908 Bushing

**Servicing:** M002T51082, M002T51083, M002T54571, M002T54572, M002T54771, M002T56171, M002T56181, M002T56182  
**ID 14.20, OD 16.04, Length 10.60, Type Standard, Material Copper, Pin w/o**  
**Alternative no.: B140908**

Pkg. 10



### 140915 Bushing

**Servicing:** M002T80582, M2T80582  
**ID 9.85, OD 14.05, Length 11.90, Type Standard, Material Copper, Pin w/o**





### 140970 Bushing

Servicing: M000T86081, M000T86581, M001T80081, M001T80082, M0T86081, M0T86581, M0T880082, M1T80081, M1T80082  
ID 8.12, OD 12.12, Length 11.44,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140970

Pkg. 10



### 140998 Bushing

Servicing: M000T46572ZT  
ID 10.75, OD 12.35, Length 21.00,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 141025 Bushing

Servicing: M008T71371ZE, M008T71471ZE, M008T75074ZT, M8T71371ZE, M8T71471ZE, M8T75074ZT, M001T30271  
ID 10.17, OD 14.07, Length 12.20,  
Material Copper, Pin w/o

Pkg. 10



### 141056 Bushing

ID 12.16, OD 13.84, Length 20.00,  
Type Standard, Material Copper, Pin w/o



### 141145 Bushing

Servicing: M000T35471, M000T86581, M000T87081, M001T80381, M008T62671, M0T35471, M0T86581, M0T87081, M1T80381  
ID 8.10, OD 11.55, Length 11.63,  
Material Copper, Pin w/o

Pkg. 10



### 141146 Bushing

Servicing: M001T77781, M1T77781  
ID 10.12, OD 14.00, Length 12.00,  
Material Copper, Pin w/o

Pkg. 10



### 141148 Bushing

ID 8.11, OD 10.93, Length 11.25,  
Material Copper, Pin w/o

Pkg. 10



### 141150 Bushing

ID 11.00, OD 13.00, Length 12.60,  
Material Copper, Pin w/o

Pkg. 10



### 141243 Bushing

Servicing: M191X68471  
ID 13.04, OD 15.05, Length 21.00,  
Type Mount., Pin w/o



### 142022 Bushing

Servicing: M000T45171, M000T45171ZT, M000T45271, M000T45271ZT, M000T45371ZT, M000T46171ZT, M0T45171

ID 9.05, OD 13.00, Length 8.50,  
Material Copper, Pin w/o

Pkg. 10



### 142025# Bushing

Servicing: M357T70171, M357T70571, M357T70771, M357T71687, M357T71871, M357T78071

ID 10.00, OD 11.62, Length 14.15

Pkg. 10



### 142057 Bushing

Servicing: M000T35471, M0T35471, M000T20171, M000T20871, M000T21671, M000T36071, M0T20871, M0T36071

ID 17.60, OD 20.90, Length 7.40,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 142349 Bushing

Servicing: M002TS0571, M002TS0575, M2TS0571, M2TS0575

ID 11.03, OD 16.05, Length 13.00,  
Type Mount., Material Copper alloy, Pin w/o

Pkg. 10



### 332635 Bushing

Servicing: 1810A053, M002T87071, M002T87071ZT, M002T87072ZT, M2T87071, M2T87071ZT, M2T87072ZT, MD312858

ID 10.10, OD 12.98, Length 12.00,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



 <p><b>332775</b> Bushing Servicing: M000T33771 ID 8.10, OD 12.03, Length 11.10, Type Standard, Material Copper, Pin w/o</p>	 <p><b>B140326</b> Bushing Replacing: MD604062 ID 12.55, OD 14.72, Length 14.00, Material Copper, Pin w/o Alternative no.: 140326</p>	 <p><b>B140729</b> Bushing Servicing: M001T30271, M000T93681 ID 12.03, OD 14.00, Length 20.85, Material Copper, Pin w/o Alternative no.: 140729</p>
 <p><b>B140319</b> Bushing Replacing: M409D30201 Servicing: M000T86181, M000T87881, M001T30071, M001T30172, M001T30271, M001T80381, M008T62671, M0T86181 ID 10.00, OD 14.00, Length 12.00, Material Copper, Pin w/o Alternative no.: 140319</p>	 <p><b>B140328#</b> Bushing Replacing: MD604066 ID 12.54, OD 16.55, Length 10.50, Material Copper, Pin w/o Alternative no.: 140328</p>	 <p><b>B140846</b> Bushing Servicing: M008T71371ZE, M008T71471ZE, M8T71371ZE, M8T71471ZE, M8T75371 ID 19.03, OD 22.05, Length 9.00, Material Copper, Pin w/o Alternative no.: 140846</p>
 <p><b>B140320#</b> Bushing Replacing: M410D11271, M410D12071, M410D12171, MD602686, MD602687 Servicing: MM409410 ID 11.06, OD 13.03, Length 13.00, Material Copper, Pin w/o Alternative no.: 140320</p>	 <p><b>B140428</b> Bushing Replacing: M409C12670, M409C13070, MD607741 ID 11.02, OD 14.00, Length 13.00, Material Copper, Pin w/o Alternative no.: 140428</p>	 <p><b>B140908</b> Bushing Servicing: MM409412, M009T20171, M009T61971, M009T62671, M009T64971, M009T60471 ID 14.17, OD 16.05, Length 10.40, Type Standard, Material Copper, Pin w/o Alternative no.: 140908</p>
<p><b>NEW PRODUCT</b> <a href="http://www.hc-cargo.com">www.hc-cargo.com</a></p>  <p><b>B140321</b> Bushing Replacing: M409D32201, M410D00271, M410D30171, MD602213 ID 14.27, OD 17.26, Length 12.50, Material Copper, Pin w/o Alternative no.: 140321</p>	 <p><b>B140429</b> Bushing Replacing: M409C32370, M649C32370, MD607903 Servicing: MD335584 ID 12.02, OD 16.00, Length 9.50, Material Copper, Pin w/o Alternative no.: 140429</p>	 <p><b>B140970</b> Bushing Servicing: M000T86581, M0T86581 ID 8.12, OD 12.12, Length 11.44, Type Standard, Material Copper, Pin w/o Alternative no.: 140970</p>
 <p><b>B140323</b> Bushing Replacing: M410D12671 ID 14.20, OD 16.20, Length 15.70, Material Copper, Pin w/o Alternative no.: 140323</p>	 <p><b>B140555</b> Bushing Replacing: M409C12970, M409C13270, MD607892 Servicing: M000T82081, M000T82081ZE, M000T84881, M000T84881ZC, M000T85381, M000T86581, M000T87081 ID 10.03, OD 14.00, Length 12.50, Material Copper, Pin w/o Alternative no.: 140555</p>	



## Bearings

### Ball Bearings



#### 140218 FAG 6204-2RS1

Replacing: S930P25770, S930P28201, S930P28270

Servicing: M004T55076, M4T55076, M004T55076, M004T55077, M004T95076, M004T95082, M4T55076, M4T55077, M4T95075

ID 20.00, OD 47.00, Height 14.00

Alternative no.:

142288 High Performance,

333114 High Performance



#### 140219 FAG 6205-2RS1

Replacing: S930P28301, S930P28370

Servicing: M004T55076, M005T50276, M009T20171, M009T60471, M3T90272, M4T55076, M5T50071, M5T50177, M5T50179

ID 25.00, OD 52.00, Height 15.00

Alternative no.:

142274 High Performance,

333115 High Performance



#### 140220 FAG 6206-2RS1

Replacing: S930P28801

Servicing: M005T50276, M5T50071, M5T50177, M5T50179, M5T50275, M5T50276, M5T50277, M5T55071, M5T55072

ID 30.00, OD 62.00, Height 16.00

Alternative no.:

142291 High Performance



#### 140222 FAG 608-2RS-C3

Replacing: 6082RS1, 949100-6080, S930P12070, S930P14201, S930P62070

Servicing: M001T74281, M1T74281, M002T50371, M2T50371, M001T50171, M001T74081, M002T50281, M002T50285

ID 8.00, OD 22.00, Height 7.00

Alternative no.:

333106 High Performance



#### 140225 High Performance

6903-2RS-P

Replacing: 69032RS1

Servicing: M002T54882, M2T54882, M002T61272, M2T61272

ID 17.00, OD 30.00, Height 7.00



#### 140226 High Performance

6904-2RS-P

Replacing: 69042RS1

Servicing: M001T50071, M1T50071, M002T51082, M002T51083, M2T51082, M2T51083

ID 20.00, OD 37.00, Height 9.00



#### 140271 FAG 6000-C-2HRS-C3

Replacing: S930P14101

Servicing: M002T80582, M003T61071, M003T61171, M2T80582, M3T61071, M3T61171, M002T87971, M2T87971, MD344182

ID 10.00, OD 26.00, Height 8.00

Alternative no.:

142277 High Performance,

333099 High Performance

Pkg. 10



#### 140272 FAG 6002-2RS1

Replacing: 949100-5250, MD607637, S930P12170, S930P14301

Servicing: M002T50371, M2T50371, M002T54272, M2T54272, M002T50281, M002T50285, M002T50381, M002T50391

ID 15.00, OD 32.00, Height 9.00

Alternative no.:

142282 High Performance,

333102 High Performance



#### 140273 FAG 6003-2RS1

Replacing: 949100-2210, S930P12301, S930P12370

Servicing: M002T50371, M2T50371, M002T52071, M002T52081, M002T52082, M002T53085, M003T54071, M003T61071

ID 17.00, OD 35.00, Height 10.00

Alternative no.:

142268 High Performance,

333103 High Performance



#### 140277 FAG 6301-2RS1

Replacing: S930P36301, S930P36370

Servicing: M004T55076, M005T50276, M4T55076, M5T50071, M5T50177, M5T50179, M5T50276, M5T50277, A003TA4399

ID 12.00, OD 37.00, Height 12.00

Alternative no.:

142290 High Performance,

333116 High Performance



#### 140284 FAG 6002-2Z

Replacing: S930P14370, S930P14601, S930P14670, S930P16470

Servicing: M001T50071, M001T50471, M002T24181, M002T25083, M002T25481, M002T25581, M002T25681, M002T50981

ID 15.00, OD 32.00, Height 9.00

Pkg. 10

Pkg. 10

Pkg. 10



Pkg. 10



### 140297 FAG 608-2Z

Replacing: S930P14270

Servicing: M001T50071, M001T50471, M001T70481, M001T72481, M001T72581, M001T72981, M001T73281, M001T73381  
ID 8.00, OD 22.00, Height 7.00

Pkg. 10



### 140301 FAG 629-2Z

Replacing: MD607638, S930P29901, S930P29970, S930P60470

Servicing: M002T54272, M008T50071, M008T50072, M2T54272, M8T50071, M8T50072, M9T50471, M002T54371, M002T54471

ID 9.00, OD 26.00, Height 8.00

Pkg. 9



### 140412 M410X12971

Replacing: M410X12971, ME700849

Servicing: M002T50391, M002T51082, M002T51805, M002T54091, M002T54272, M002T54572, M002T54871, M002T56071  
ID 19.00, OD 37.00, Height 9.00, Bushing w/



### 140868 CAR GO High Performance 6906-2RS1

Replacing: 69062RS1

Servicing: M001T60185, M1T60185, M000T60081, M000T60081A, M001T60081, M001T60181, M001T60281, M001T60285  
ID 30.00, OD 47.00, Height 9.00

Pkg. 10



### 140893 FAG 629-2RS1/C3

Replacing: 6292RS1C3

Servicing: M002T56071, M2T56071, 1810A053, 32A66-10101, M002T85671, M002T85672, M002T87071, M002T87071ZT  
ID 9.00, OD 26.00, Height 8.00



### 141009 Kit

Replacing: M690X00571, M690X00572, ME701484

Servicing: M008T55171, M008T77075, M008T80371, M008T80373, M008T85071B, M008T85571, M8T55171, M8T77075

ID 20.00, OD 42.00, Height 12.00  
Oil seal: 20.00x38.20x2.40 mm.


### 141038 Kit

Replacing: M410X14171

Servicing: M002T57871, M002T57881, M002T61771, M002T67881, M002T67882, M002T67883, M002T69081, M002T78372

ID 20.00, OD 42.00, Height 12.00, Bushing w/ w/ gasket.



### 141254 Kit

Replacing: M690X00471, ME701433

Servicing: M008T60071, M008T60872, M008T60873, M3T56089, M8T60071, M8T60072, M8T60089, M8T60171, M8T60173

ID 20.00, OD 47.00, Height 14.00, Oil seals Single w/ 2 inner grooves. Oil seal: 20.00x38.10x2.40 mm.



### 141255 Kit

Replacing: M690X00671, ME701507

Servicing: M008T60371, M008T60372, M008T60373, M008T60871, M8T55471, M8T60073, M8T60371, M8T60372, M8T60373

ID 20.00, OD 47.00, Height 14.00, Oil seals Single w/ 2 inner grooves. Oil seal: 20.00x38.10x2.40 mm.



### 142021 5★ F-845204.62/28

Servicing: 39MT, M009T80472, M009T80473, M009T83671, M009T83672, M9T80472, M9T80473, M9T83671, M9T83672, M9T80071

ID 28.00, OD 58.00, Height 16.00, Height 2 16.00, Lock ring w/, Teflon ring w/ w/ 2 internal grooves.



### 333102 CAR GO High Performance 6002-2RS/C3

Replacing: MD607637, S930P12170, S930P14301

Servicing: M002TS0571, M002TS0575, M2TS0571, M2TS0575, MM409410  
ID 15.00, OD 32.00, Height 9.00

Alternative no.: 140272 **FAG**, 142282 **CAR GO** High Performance


### 333114 CAR GO High Performance 6204-2RS1/C3

Replacing: S930P25770, S930P28201, S930P28270  
Servicing: M8T62471

ID 20.00, OD 47.00, Height 14.00  
Alternative no.: 140218 **FAG**, 142288 **CAR GO** High Performance

Pkg. 10

Pkg. 10





Pkg. 10

**333115** **CAR GO** High Performance  
6205-2RS1/C3

Replacing: S930P28301, S930P28370

Servicing: M9T61471, M9T66771, M009T60471

ID 25.00, OD 52.00, Height 15.00

Alternative no.: 140219 **FAG**

142274 **CAR GO** High Performance

## Needle Bearings



Pkg. 5

**140381** **CAR GO** Needle Bearing

ID 22.00, OD 28.00, Height 12.00

Pkg. 5



**140503** **FAG** Needle Bearing

Servicing: MM409412, M002T56272,  
M002T60171, M002T60172, M002T60185,  
M002T61071, M002T61171, M002T62771

ID 14.00, OD 20.00, Height 12.00

Pkg. 5



**140514** Needle Bearing

Replacing: S933P65270

Servicing: M002T92071, M002T92071A,  
M002T92171, M002T92172, M002T92172A,  
M2T92071, M2T92071A, M2T92171

ID 12.00, OD 17.00, Height 12.00



Pkg. 10

**140738** **CAR GO** Needle Bearing

Replacing: S933P70605, S933P70669

Servicing: M001T90081, M002T24081,  
M002T25083, M002T25281, M002T25282,  
M002T25481, M002T25581, M002T25681

ID 10.00, OD 15.00, Height 15.00

Closed end. w/ rubber seal.

Pkg. 5



**140876** Needle Bearing

Replacing: TLA141912ZE01

Servicing: M002T66873, M002T67884,  
M2T66873, M2T67884, M002T61071,  
M002T61072, M002T61171, M002T62271

ID 14.00, OD 18.72, Height 12.00

Pkg. 5



**140920** **FAG** Needle Bearing

Replacing: SCE116

Servicing: M001T80381, M1T80381,  
M002T80582, M2T80582, 1810A062,  
1810A143, M000T86081, M001T30271,  
M002T84771

ID 17.46, OD 22.23, Height 9.40

Alternative no.: 335934 **FAG**



**141065** Needle Bearing

Servicing: M008T62671, M008T75074ZT,  
M8T62671, M8T75074ZT, M008T50071,  
M008T50072, M008T70371, M008T71571

ID 20.50, OD 27.00, Height 9.50



Pkg. 5

**141090** Needle Bearing

Servicing: M002T85271, M002T87271,  
M002T87271ZT, M002T88372, M002T88471,  
M002T88472, M002T88473, M002T88971

ID 10.00, OD 15.05, Height 11.60x15.40  
Closed end.

Pkg. 5



**331936** **CAR GO** Needle Bearing

Manufacturer: Ina

Servicing: M001T93071, M001T93371ZC,  
M001T93571, M1T93071, M1T93171,  
M1T93371ZC, M1T93571, M001T93171ZC

ID 14.00, OD 20.00, Height 13.90

Pkg. 5

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**335934** **FAG** Needle Bearing

Replacing: SCE116

Servicing: M002T80582, M2T80582

ID 17.46, OD 22.23, Height 9.40

## Sundry Parts

### Thru Bolts

Pkg. 10



**135982** Through Bolt

Replacing: M981S70202

Servicing: M003T33081, M003T38881B,  
M003T38882, M003T38882A, M003T38882B,  
M003T38882C, M003T43581, M003T48181

Total length 137.00, Length/rear collar 121.05,

Thread length 19.06, Thread size M5,

Thread size/rear M5, Shaft w/, Washer w/o





**136359** Through Bolt Kit  
**Replacing:** M901X00371, M981X74671, MD602738  
**Servicing:** M002T54271, M002T54371, M002T54372, M002T54471, M002T54572, M002T54671, M002T56181, M002T56182  
**Total length** 167.45, **Length/rear collar** 161.25, **Thread length** 33.90, **Thread size** M6, **Shaft** w/, **Washer** w/o

Pkg. 10



**191531** Through Bolt  
**Replacing:** M901X01571  
**Servicing:** M003T24481, M003T24482A, M003T25783, M3T24481, M3T24482A, M3T24485, M3T25783  
**Total length** 89.40, **Length/rear collar** 85.10, **Thread length** 25.30, **Thread size** M6

Pkg. 20



**191584** Through Bolt  
**Replacing:** M981S70101  
**Servicing:** M000T87881, M001T60081, M001T60181, M001T60381, M001T60581, M001T61181, M001T70283, M001T70381  
**Thread** M5, **Length** 125.00, **Thread length** 60.00, **Head type** Cheese head, **Colour** Black, **Coating** Electro galvanized, **Material** Steel

Pkg. 20



**191585** Through Bolt  
**Replacing:** M981D73205  
**Servicing:** M001T84382ZC, M002T40081, M1T84382ZC, M2T40081, M001T84381ZC, M001T85781, M001T87081, M002T10171  
**Total length** 138.70, **Length/rear collar** 134.80, **Thread length** 61.20, **Thread size** M5

Pkg. 2



**231345** Through Bolt Kit  
**Replacing:** M981C74201  
**Servicing:** M001T30071, M001T30171, M001T30172, M001T30173, M001T30271, M001T80181, M001T80381, M001T80481  
**Thread** M5, **Total length** 144.00, **Thread length** 33.00, **Shaft** w/, **Washer** w/o



**231394** Through Bolt  
**Replacing:** M981C73901  
**Servicing:** M002T24181, M002T25083, M002T25581, M002T50171, M002T50181, M002T50281, M002T50285, M002T50371  
**Total length** 153.00, **Length/rear collar** 149.00, **Thread length** 34.40, **Thread size** M5, **Shaft** w/



**231683** Through Bolt Kit  
**Replacing:** M981X73274  
**Servicing:** M000T36071ZE, M000T36371, M000T36971, M000T36971ZE, M000T45171, M000T45171ZT, M000T45271  
**Thread** M5, **Length** 113.50, **Total length** 118.25, **Thread length** 17.50, **Head type** Hex washer, **Washer** w/o  
**Alternative no.:** 335655

## Oil Seals

Pkg. 10



**135940#** Oil Seal  
**Replacing:** S806P94203  
**Servicing:** 34466-15101, 34466-15102, M002T56471, M002T60271, M002T61371, M002T65271, M003T64172, M2T56471  
**ID** 18.50, **OD** 42.15, **Height** 6.50, **Material** Rubber, **O-ring** w/o

Pkg. 5



**230759** Oil Seal  
**Servicing:** 1810A050R, 32A66-10101, M008T62671, M008T80071, M008T80071A, M008T80071B, M8T62671, M8T80071  
**ID** 21.00, **OD** 38.00, **Height** 2.45, **Material** Metal/Rubber, **O-ring** w/o



**233591** Oil Seal  
**Servicing:** M002T62271, M002T74371, M2T62271, M2T74371  
**ID** 18.75, **OD** 34.20, **Height** 4.90, **Material** Rubber, **O-ring** w/o

Pkg. 10



**236453** Oil Seal  
**Servicing:** M009T60371, M9T60371  
**ID** 23.00, **OD** 42.00, **Height** 3.25

Pkg. 10



**237101** Gasket  
**Servicing:** M009T61473, M009T61474, M009T61671, M009T62172, M009T62173, M009T64171ZT, M009T66371, M9T61473  
**ID** 24.30, **OD** 42.00, **Height** 2.90, **Total height** 3.47, **Material** Metal/Rubber, **O-ring** w/

## O-rings

Pkg. 10



**134484** O-ring  
**Replacing:** M578D13501  
**Servicing:** M002T54271, M002T54371, M002T54372, M002T54471, M002T54572, M002T54671, M002T56471, M002T56472  
**ID** 5.00, **Thickness** 2.00, **Colour** Black



Pkg. 10



### 134485 O-ring

Replacng: M816D00701

Servicng: M002T54371, M002T54372, M002T54471, M002T54572, M002T54671, M002T56471, M002T56472, M002T57671

ID 4.00, Thickness 2.00, Colour Black

Pkg. 10



### 134486 O-ring

ID 8.00, Thickness 2.00, Colour Black

Pkg. 10



### 134487 O-ring

Servicng: M008T62671, M009T61473, M009T61474, M009T62172, M009T62173, M009T64171ZT, M8T62671, M9T61473

ID 10.00, Thickness 2.00, Colour Black

Pkg. 10



### 134489 O-ring

ID 43.00, Thickness 2.00, Colour Black

Pkg. 10



### 139205 O-ring

Replacng: M578X26871, MD618547

Servicng: M000T60081, M000T60081A, M000T60181, M000T60181A, M000T65381, M000T70281, M000T70285, M000T70381

ID 52.50, OD 63.90, Thickness 4.85, Colour Black, Material Rubber

## Covers



### 137427 Cover Kit

Replacng: M212X14471, MD607940

Servicng: M002T51181, M002T51281, M2T51281, M2T51282, M002T51181, M002T51281



### 137545 Cover Kit

Replacng: M212X11771, ME700125

Servicng: M002T54271, M002T54371, M002T54372, M002T54471, M002T54572, M002T54671, M002T56171, M002T56181



### 137546 Cover Kit

Replacng: M212X11573, ME700973

Servicng: M002T57871, M002T57881, M002T61771, M002T67881, M002T67882, M002T67883, M002T67884, M2T57871

Pkg. 5



### 230549 Cap

Replacng: M234X54371

Servicng: M000T60081, M001T60281, M001T60285, M001T60381, M0T60081, M1T60281, M1T60285, M1T60381, M191X13471

OD 17.00, Height 8.15

## Various

Pkg. 10



### 135574 Steel Ball

Replacng: S409S00008

Servicng: 1810A050R, 32A66-10101, M000T60081, M000T60081A, M000T60181, M000T60181A, M000T65381, M000T70281

OD 6.35, Material Steel



### 139203 Screw Set

Replacng: M414X00474, MD607887

Servicng: M000T20171, M000T20472, M000T21671, M000T30471, M000T30571, M000T46371ZT, M000T70381, M000T71581

Thread 2 M5, Thread M6, Thread length 22.00/7.50



### 230999 Screw Set

Replacng: M414X00171, M414X00472

Servicng: M000T22471, M000T60081, M000T60081A, M000T60181, M000T60181A, M000T65381, M000T70281, M000T70285

Thread 2 M6, Thread M5, Thread length 7.50/22.00



### 231001 Washer Kit

Replacng: M900X02471, MD607896

Servicng: M002T20181, M002T20181D, M002T30381, M002T30385, M002T30581, M002T30585, M002T30586, M002T30681





### 231120 Screw Set

Replacing: M414X00471, M414X00487

Servicing: A3T22681, M003T10475, M003T10476, M003T11174, M003T12572, M003T15772, M003T20081, M003T20381

Thread 2 M5, Thread M6,  
Total length 26.50/15.50,  
Thread length 22.00/11.00,  
Slot type Phillips, Pozidriv, Shaft w/o,  
Washer w/o



### 231388 Screw Set

Replacing: M414X04871, M414X04872, ME700131

Servicing: M002T54271, M002T54471, M002T56181, M002T56182, M002T56271, M002T56272, M002T57271, M002T57273

Thread 2 M6/M6, Thread M5,  
Thread length 12.00/30.00/42.00

Pkg. 10



### 231581 Washer Kit

Replacing: M982X38871, ME701436

Servicing: M008T55171, M008T60071, M008T60071A, M008T60371, M008T60372, M008T60373, M008T60871, M008T60872

ID 21.25, OD 36.60, Thickness 0.80,  
Material Steel, Bushing w/o

Pkg. 5



### 233164 Drain Tube

Servicing: 32A66-10101, M000T45171, M000T45171ZT, M000T82081, M000T82081ZE, M000T84881, M000T84881ZC

ID 7.70, OD 11.55, Length 9.90

Pkg. 5



### 233340 Washer

ID 9.00, OD 22.25, OD/collar 12.80,  
Height/collar 1.60, Thickness 2.00,  
Material Steel, Bushing w/o

Pkg. 10



### 236094 Drain Tube

Servicing: 1810A011, M000T20871ZE, M000T20872, M000T20872ZE, M000T32271, M000T32571ZE, M000T32572ZE

ID 8.50, OD 10.00, Length 10.00

Pkg. 10



### 236778 Gasket

Servicing: M000T36371, M000T87681, MOT36371, MOT87681, M000T90981, MOT90981

Length 59.00, Thickness 5.60,  
Width 79.00



### 330036 Gasket

Servicing: M000T32171, M000T32172, M000T32172ZE, M000T32173ZE, M000T32177, MOT32171, MOT32172, MOT32172ZE

Length 200.00, Type Starter

Pkg. 100



### 332612 Gasket

Servicing: 1810A050R, M000T22471, M000T84881, M000T84881ZC, M000T87681, M002T85271, M002T88471, M002T88472

ID 8.00, OD 10.50, Thickness 0.50,  
Type Starter, Material Fiber



Sundry Parts

Oil Seals

Pkg. 2



**133065** Oil Seal

**Replacing:** 111-46, 111-50, 111-54, 111-76, 11-76

**Servicing:** 8LHC2004Z, 8LHC2010Z, 8SC2001R, 8SC2004Z, 8SC2007R, 8SC2010Z, 8HC2001L, 8HC2003P, 8HC2004F

**ID** 28.00, **OD** 47.00, **Height** 7.00,

**Type** Various, **Material** Rubber,

**O-ring** w/o



**133066** Oil Seal

**Replacing:** 111-5, 111-77

**Servicing:** 8LHC2004Z, 8LHC2010Z, 12SA101A, 12SA101B, 12SA102A, 12SA102B, 12SA103A, 12SA103B, 12SA105A

**ID** 31.50, **OD** 52.20, **Height** 7.30,

**Material** Steel, **O-ring** w/o



## Armatures

### 12 V



#### 134971 Armature

Replacing: 0-23100-0200, 0-23100-0201, 7-23100-0160, 7-23100-0200, 7-23100-0201, 7-23100-0240, 7-23100-0330

Servicing: 0-23000-0081, 0-23000-0091, 0-23000-0120, 0-23000-0130

12 Volt, 2.2 kW, Bar dist. 2.00, Bar cross dist. 34.00, Shaft length 174.30, Bar length 3.00, Core thickness 48.40, No./bars 21, No./teeth 8, Rotation CW/CCW

### 24 V



#### 132537 Armature

Replacing: 7-23100-0070

Servicing: 0-23000-1030, 0-23000-1031, 0-23000-1033, 0-23000-1050, 0-23000-1060, 0-23000-1070, 0-23000-1071

24 Volt, 4.5 kW, Shaft length 180.50, Height/bar 4.25, Height/bar lane 32.00, Core thickness 59.95, No./bars 23, No./teeth 8, Rotation CW/CCW  
Bearing C.E.: HC-CARGO 140080. Bearing D.E.: HC-CARGO 140285.



#### 133391 Armature

Replacing: 0-23100-0161, 1-23100-0160, 7-23100-0190, 7-23100-0220

Servicing: 0-23000-1160, 0-23000-1170, 0-23000-1190, 0-23000-1230

24 Volt, 5.5 kW, Shaft length 191.00, Height/bar 5.00, Height/bar lane 32.00, Core thickness 59.60, No./bars 23, No./teeth 11  
Bearing C.E.: HC-CARGO 140080. Bearing D.E.: HC-CARGO 140286.



#### 135667 Armature

Replacing: 0-23100-0230, 0-23100-0231

Servicing: 0-23000-6232, 0-23000-6251, 0-23000-6253, 0-23000-6341

24 Volt, 7.5 kW, Shaft length 209.50, Height/bar 7.00, Height/bar lane 38.30, Core thickness 74.40, No./bars 21, No./splines 9, Rotation CW/CCW



#### 135668 Armature

Replacing: 0-23100-0251, 7-23100-0310

Servicing: 0-23000-3150, 0-23000-3152, 0-23000-3160, 0-23000-3170, 0-23000-3180, 0-23000-3200

24 Volt, 7.5 kW, Shaft length 213.60, Height/bar 5.50, Height/bar lane 37.00, Core thickness 64.90, No./bars 21, No./teeth 9, Rotation CW/CCW



#### 137543 Armature

Manufacturer: Nikko

Replacing: 0-23100-0380, 0-23100-0381

Servicing: 0-23000-2100, 0-23000-2101, 0-23000-2200, 0-23000-2201, 0-23000-2541

24 Volt, 4.5 kW, Shaft dia. 21.88, Shaft length 177.15, Height/bar 4.80, Height/bar lane 32.00, Core thickness 60.17, No./bars 23, No./teeth 9



#### 234103 Armature

Replacing: 0-23100-0430

Servicing: 0-23000-7671, 0-23000-7731, 0-23000-8061, 0-23000-8111

24 Volt, 11.0 kW, Shaft dia. 29.90, Shaft length 212.00, Height/bar 6.40, Height/bar lane 38.40, Core thickness 74.65, No./bars 21, No./teeth 10



#### 335133 Armature

Replacing: 0-24100-0030

Servicing: 0-24000-3031, 0-24000-3041, 0-24000-3060, 0-24000-3070, 0-24000-3082, 0-24000-3110, 0-24000-3141

24 Volt, Bar cross dist. 8.80, Core thickness 60.00, No./bars 23, No./teeth 9, Rotation CW

## Field Cases



#### 235751 Field Case

Replacing: 0-23200-0150

Servicing: 0-23000-6510, 0-23000-6850, 0-23000-6901, 0-23000-7091, 0-23000-7511

24 Volt, 7.5 kW, ID 75.44, OD/middle 113.86, Length 116.72, Lead length 88.74, Rotation CW, Brush gear w/o, Magnets w/o, O-ring w/o

## Field Coils

### 24 V



#### 132531 Field Coil

Replacing: 0-23230-0150

Servicing: 0-23000-6211, 0-23000-6232, 0-23000-6250, 0-23000-6251, 0-23000-6310, 0-23000-6341, 0-23000-6510

24 Volt, 7.5 kW, Height 119.30, Internal height 60.60, Inner width 26.25, Brush gear w/o





### 135669 Field Coil

Replacing: 0-23230-0281

Servicing: 0-23000-3150, 0-23000-3160, 0-23000-3170, 0-23000-3180, 0-23000-3200, 0-23000-3230, 0-23000-3240

24 Volt, 7.5 kW, Height 107.65, Internal height 74.00, Inner width 23.55, Brush gear w/o

## Solenoids

### 6 V

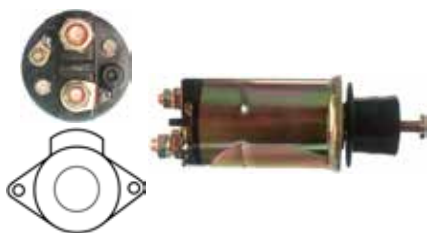


### 135871 Solenoid

Replacing: 0-23500-0454

6 Volt, B+ M8, ID/eye 4.75, OD 50.20, OD/cover 49.75, Total length 145.55, Height/B+ 16.80, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.00, No./mount. holes 2, No./terminals 3, Fork lever w/ Cap: HC-CARGO 131335.

### 12 V



### 133852 Solenoid

Replacing: 0-47100-4270

Servicing: 28MT

12 Volt, B+ M10, OD 57.00, OD/cover 57.00, Total length 175.00, Height/B+ 16.50, Terminal 50 M5, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 3, Fork lever w/o

Cap: HC-CARGO 134841. Terminal switch: M5.



### 134632 Solenoid

Replacing: 0-47100-4070, 0-47100-4071

Servicing: 0-23000-0171, 0-23000-0172, 0-23000-0173, 0-23000-0210

12 Volt, 2.2 kW, B+ M8, OD 57.30, OD/cover 56.85, Total length 165.00, Height/B+ 17.55, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 17.25, No./mount. holes 2, No./terminals 3

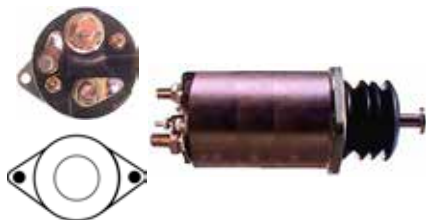


### 135676 Solenoid

Replacing: 0-47100-3290

Servicing: 0-23000-0020, 0-23000-1020, 0-23000-1300

12 Volt, 2.2 kW, B+ M8, OD 52.00, OD/cover 45.00, Total length 161.15, Height/B+ 18.00, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 18.00, No./mount. holes 2, No./terminals 3



### 137811 Solenoid

Replacing: 0-47100-4100, 0-47100-4160, 0-47100-4390

Servicing: 28MT,

12 Volt, B+ M10, OD 56.90, OD/cover 57.20, Total length 174.00, Height/B+ 16.00, Terminal 50 M4, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 3, Fork lever w/o

Cap: HC-CARGO 137824.

### 24 V



### 132498 Solenoid

Replacing: 0-47100-3100, 0-47100-3110

Servicing: 0-2100-3041, 0-23000-1030, 0-23000-1031, 0-23000-1033, 0-23000-1050, 0-23000-1070, 0-23000-1071

24 Volt, 4.5 kW, B+ M10, OD 56.80, OD/cover 56.65, Total length 177.50, Height/B+ 22.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 17.45, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 138898.



### 132499 Solenoid

Replacing: 0-47100-3420, 0-47100-4140, 0-47100-4141

Servicing: 0-23000-1620, 0-23000-1630, 0-23000-6210, 0-23000-6211, 0-23000-6232, 0-23000-6250, 0-23000-6251

24 Volt, 7.5 kW, B+ M10, OD 80.00, OD/cover 79.90, Total length 230.25, Height/B+ 22.80, Terminal 50 M5, Coil bolt M10, Coil bolt 2 23.90, No./mount. holes 3, No./terminals 3



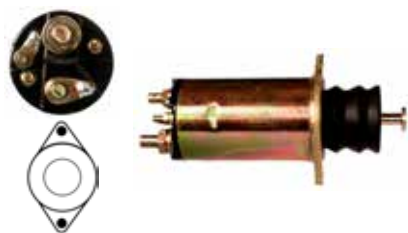
### 132500 Solenoid

Replacing: 0-47100-3590, 0-47100-3591, 0-47100-3592, 0-47100-4360

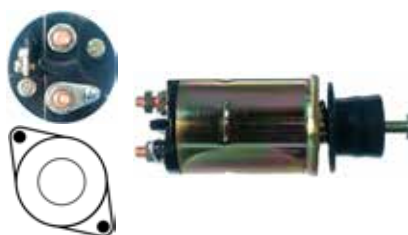
Servicing: 0-23000-0040, 0-23000-0060, 0-23000-0100

24 Volt, 2.8 kW, B+ M8, OD 54.15, OD/cover 46.75, Total length 154.35, Height/B+ 18.20, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 18.40, No./mount. holes 2, No./terminals 3





**133395** Solenoid  
 Replacing: 0-47100-3510  
 Servicing: 0-23000-1160, 0-23000-1170, 0-23000-1230, 0-23000-1231, 0-23000-1240, 0-23000-1270, 0-23000-1290  
 24 Volt, 5.5 kW, B+ M10, OD 56.85, OD/cover 56.80, Total length 181.75, Height/B+ 23.25, Terminal 50 M5, Coil bolt M8, Coil bolt 2 18.50, No./mount. holes 2, No./terminals 3



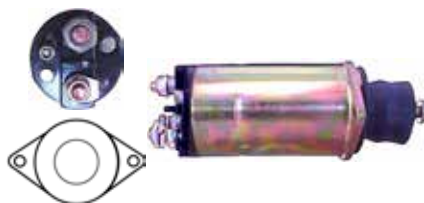
**133482** Solenoid  
 Replacing: 0-47100-3010, 0-47100-3180  
 Servicing: 0-21000-4720, 0-21000-4931, 0-21000-4932, 0-21000-4933, 0-21000-4934, 0-21000-5350, 0-21000-5360  
 24 Volt, 3.5 kW, B+ M8, OD 56.75, OD/cover 56.80, Total length 162.00, Height/B+ 17.45, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 17.30, No./mount. holes 2, No./terminals 3



**134630** Solenoid  
 Replacing: 0-47100-2670, 0-47100-2671, 0-47100-2672, 0-47100-3040, 0-47100-3041, 0-47100-3060  
 Servicing: 0-21000-3333, 0-21000-3390, 0-21000-3391  
 24 Volt, 6.0/7.4/7.5 kW, B+ M10, OD 69.70, OD/cover 69.35, Total length 214.70, Height/B+ 27.75, Terminal 50 M5, Coil bolt M10, Coil bolt 2 27.75, No./mount. holes 3, No./terminals 3



**134631**<sup>#</sup> Solenoid  
 Replacing: 0-47100-4060, 0-47100-4062  
 Servicing: 0-23000-0051, 0-23000-0281, 0-23000-0283, 0-23000-0330  
 24 Volt, 2.8 kW, B+ M8, OD 56.85, OD/cover 56.75, Total length 164.40, Height/B+ 16.30, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 16.30, No./mount. holes 2, No./terminals 3



**135521** Solenoid  
 Replacing: 0-47100-4220  
 Servicing: 28MT  
 24 Volt, B+ M10, OD 57.00, OD/cover 56.70, Total length 177.50, Height/B+ 14.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 12.50, No./mount. holes 2, No./terminals 3  
 Cap: HC-CARGO 138898. Terminal switch: M5.



**135674** Solenoid  
 Replacing: 0-47100-3940, 0-47100-3944  
 Servicing: 0-23000-3150, 0-23000-3152, 0-23000-3160, 0-23000-3170, 0-23000-3180, 0-23000-3200, 0-23000-3230  
 24 Volt, 6.0-7.5 kW, B+ M10, OD 70.00, OD/cover 69.75, Total length 204.00, Height/B+ 18.75, Terminal 50 M5, Coil bolt M10, Coil bolt 2 18.80, No./mount. holes 3, No./terminals 3



**136400** Solenoid  
 Replacing: 0-47100-3660  
 24 Volt, B+ M12, OD 56.80, OD/cover 56.90, Total length 188.90, Height/B+ 26.00, Terminal 15A/width 14.60, Coil bolt M8, Coil bolt 2 9.40, Terminal 50 9.40, No./mount. holes 2, No./terminals 4  
 Insulated return.



**235814** Solenoid  
 Replacing: 0-0055-05402  
 Servicing: 0-33000-6181  
 24 Volt, B+ M8, OD 53.00, Length 61.00, Total length 114.00, Height/B+ 15.80, Terminal 50 6.30, No./mount. holes 2, No./terminals 3, Bracket type Bracket



**335045** Solenoid  
 Replacing: 0-47100-5130  
 Servicing: 0-24000-3251  
 24 Volt, B+ M10, OD 53.50, OD/cover 100.50, Total length 140.00, Terminal 50 M5, Coil bolt M10, No./mount. holes 2, No./terminals 3, Bracket type Bracket, Fork lever w/o

## Safety Switches

### 24 V



**132493** ★ Safety Switch  
 Manufacturer: Nikko  
 Replacing: 0-25000-6080, 0-25000-6081, 0-25000-6082, 0-25000-6083, 0-25000-6090, 0-25000-8430, 7-25000-6090  
 Servicing: 0-21000-4850, 0-21000-4860, 0-21000-4870, 0-21000-4871, 0-21000-4880, 0-21000-5080, 0-23000-0060  
 24 Volt, Total length 72.50



**132494** ★ Safety Switch  
 Manufacturer: Nikko  
 Replacing: 0-25000-6850, 0-25000-6852, 0-25000-8100, 0-25000-8102, 0-25000-8103, 0-25000-9250  
 Servicing: 0-23000-6530, 0-23000-6531, 0-23000-6533  
 24 Volt, Total length 77.35





**230186** Safety Switch  
 Replacing: 0-25000-7780, 0-25000-7930  
 Servicing: 28MT,  
 24 Volt, Total length 84.00,  
 No./mount. holes 2, No./wires 4



**233686** ★ Safety Switch  
 Manufacturer: Nikko  
 Replacing: 0-25000-6320, 0-25000-7810,  
 0-25000-7811, 0-25000-7812  
 Servicing: 0-23000-1070, 0-23000-1071,  
 0-23000-1080, 0-23000-1260, 0-23000-1310  
 24 Volt, OD 40.40, Total length 63.35



**233687** ★ Safety Switch  
 Manufacturer: Nikko  
 Replacing: 0-25000-7690, 0-25000-7822,  
 0-25000-7823  
 Servicing: 0-23000-2100, 0-23000-2541  
 24 Volt, OD/cover 40.45,  
 Total length 81.80



**234253** ★ Safety Switch  
 Manufacturer: Nikko  
 Replacing: 0-25000-7342, 0-25000-8340,  
 0-25000-8341, 0-25000-8342  
 Servicing: 0-23000-7022  
 24 Volt, OD/cover 40.55,  
 Total length 78.00

## Solenoid Parts

### Solenoid Caps



**138898** Solenoid Cap  
 Servicing: 28MT, 0-23000-1260, 0-23000-1310,  
 0-23000-1700, 0-23000-2201, 0-47100-3110  
 ID 30.00, OD 56.85, Coil bolt M8,  
 Coil bolt 2 17.20, No./terminals 3  
 HC-CARGO 132498.

### Moving Contacts



**234550** Contact Kit  
 ID 12.40, OD 42.00, Thickness 4.05,  
 Material Copper, Shaft w/o

## Drives



**132514** Drive  
 Replacing: 0-23500-0350, 0-23500-0353  
 Servicing: 0-23000-0031, 0-23000-0032,  
 0-23000-0040, 0-23000-0060, 0-23000-0100,  
 0-23000-0240  
 ID 13.00, OD 35.30, OD/housing 60.00,  
 Total length 71.20, Splines A 12, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o



**132519** Drive  
 Replacing: 1-23500-0170  
 Servicing: 0-23000-3150, 0-23000-3152,  
 0-23000-3180, 0-23000-3270, 0-23000-3280,  
 0-23000-3285, 0-23000-3291  
 ID 19.32, OD 46.50, OD/housing 75.00,  
 Total length 96.50, No./teeth 12,  
 Rotation CW, Key spline w/o, Lock w/o



**133291** Drive  
 Replacing: 0-23500-0420, 0-23500-0421,  
 0-23500-0422  
 Servicing: 0-23000-0091, 0-23000-0130,  
 0-23000-0172, 0-23000-0173, 0-23000-0260  
 ID 13.10, OD 32.50, OD/housing 59.30,  
 Total length 71.00, Splines A 12,  
 No./teeth 9, Rotation CW,  
 Key spline w/o, Lock w/o



**133854** Drive  
 Replacing: 0-23500-0551  
 Servicing: 28MT,  
 ID 14.00, OD 32.00, OD/housing 60.00,  
 Total length 85.00, Splines A 12,  
 No./teeth 10, Rotation CW,  
 Key spline w/o, Lock w/o  
 w/ rubber seal.



**135542** Drive  
 Replacing: 1-23500-0010  
 Servicing: 0-23000-1030, 0-23000-1031,  
 0-23000-1032, 0-23000-1050, 0-23000-1060,  
 0-23000-1070, 0-23000-1071  
 ID 15.00, OD 40.25, OD/housing 60.00,  
 Total length 84.15, Splines A 12,  
 No./teeth 11, Rotation CW,  
 Key spline w/o, Lock w/o



**137071#** Drive  
 Replacing: 0-21500-2001, 1-21500-2060  
 Servicing: 0-21000-4720, 0-21000-4721,  
 0-21000-4931, 0-21000-4932, 0-21000-4933,  
 0-21000-4934, 0-21000-5020  
 ID 14.00, OD 35.75, OD/housing 60.00,  
 Total length 80.20, Splines A 12, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o



## Brush Gears



### 132503 Brush Gear

Replacing: 0-23750-0050, 0-23750-0051  
Servicing: 0-23000-6071, 0-23000-6072,  
0-23000-6091, 0-23000-6103, 0-23000-6140,  
0-23000-6160, 0-23000-6170  
ID 45.85, OD 78.80, Height 35.20  
Brush set: HC-CARGO 140551.



### 135679 Brush Gear

Manufacturer: Nikko  
Replacing: 0-23750-0250  
Servicing: 0-23000-3150, 0-23000-3160,  
0-23000-3170, 0-23000-3180, 0-23000-3200,  
0-23000-3230, 0-23000-3240  
ID 43.15, OD 77.00, Height 35.00  
Brush spring: HC-CARGO 135673.

## Brush Gear Parts

## Brush Springs



### 135673 Brush Spring

Replacing: 1-23913-0040  
Servicing: 0-23000-3150, 0-23000-3152,  
0-23000-3160, 0-23000-3170, 0-23000-3180,  
0-23000-3200, 0-23000-3230  
OD 14.75, Length 28.50, Width 8.15,  
Material Steel

## Brush Sets



### 140448 Brush Set

Replacing: 1-21740-0440  
Servicing: 0-21000-3271, 0-21000-3480,  
0-21000-3491, 0-21000-3520, 0-21000-3650,  
0-21000-3651, 0-21000-3661  
24 Volt, Length 23.00, Lead length 60.50,  
Height 20.00, Thickness 9.00

Pkg. 5



### 140507 Brush Set

Replacing: 1-23740-0140, 1-23740-0150  
Servicing: 0-23000-0031, 0-23000-0032,  
0-23000-0040, 0-23000-0060  
24 Volt, Length 15.50, Lead length 36.00,  
Height 25.00, Thickness 7.00



### 140549 Brush Set

Replacing: 0-23740-0110, 0-23740-0180,  
1-23740-0120, 1-23740-0170  
Servicing: 0-23000-1030, 0-23000-1031,  
0-23000-1033, 0-23000-1050  
24 Volt, Length 20.00,  
Lead length 40.00, Lead length 2 49.50,  
Height 25.00, Thickness 8.00



### 140550 Brush Set

Replacing: 1-23740-0010, 1-23740-0030  
Servicing: 0-23000-3130, 0-23000-3140  
24 Volt, Length 21.50, Lead length 44.00,  
Height 25.00, Thickness 8.00



### 140551 Brush Set

Replacing: 0-23740-0250, 1-23740-0050  
Servicing: 0-23000-3150, 0-23000-3152,  
0-23000-3160, 0-23000-3170, 0-23000-3180,  
0-23000-3240, 0-23000-3241  
24 Volt, Length 22.50,  
Lead length 52.80, Height 30.00,  
Thickness 9.00



### 140732 Brush Set

Replacing: 0-23740-0360  
Servicing: 28MT  
24 Volt, Length 20.00,  
Lead length 49.00, Lead length 2 37.00,  
Height 25.00, Thickness 8.00



### 140770 Brush Set

Replacing: 0-23740-0200, 0-23740-0210  
Servicing: 0-23000-0081, 0-23000-0091,  
0-23000-0120, 0-23000-0130  
12 Volt, Length 15.00,  
Lead length 41.00, Lead length 2 36.00,  
Height 25.00, Thickness 7.00



### 140875 Brush Set

Replacing: 1-21740-0710, 1-21740-0720  
Servicing: 0-21000-4720, 0-21000-4721,  
0-21000-4931, 0-21000-4932  
24 Volt, Length 20.00, Lead length 60.50,  
Height 19.00, Thickness 9.00



### 141106 Brush Set

Replacing: 1-21470-0211  
Servicing: 0-21000-2484  
12 Volt, Length 18.00, Lead length 43.00,  
Height 18.50, Thickness 7.00



## Bushings

Pkg. 10



### 140449 Bushing

Replacing: 7-21351-0950

Servicing: 0-21000-3271, 0-21000-3333, 0-21000-3390, 0-21000-3391, 0-21000-3411, 0-21000-3480, 0-21000-3491

ID 18.98, OD 23.01, Length 19.80, Material Brass, Pin w/o

Pkg. 10



### 140485 Bushing

Replacing: 7-21351-0610, 7-21351-0620, 7-21351-0621

Servicing: 0-21000-2480, 0-21000-2484, 0-21000-2810, 0-21000-3462, 0-21000-3600, 0-21000-4040, 0-21000-4231

ID 14.00, OD 17.00, Length 15.00, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140517 Bushing

Replacing: 1-23351-0140, 7-23351-0040, 7-23351-0100, 7-23351-0140

Servicing: 0-23000-1020, 0-23000-1031, 0-23000-1033, 0-23000-1040, 0-23000-1050, 0-23000-1060, 0-23000-1070

ID 15.03, OD 19.02, Length 19.90, Pin w/o

Pkg. 10



### 140519 Bushing

Replacing: 7-23351-0160

Servicing: 0-23000-0031, 0-23000-0032, 0-23000-0040, 0-23000-0060, 0-23000-0081, 0-23000-0091, 0-23000-0100

ID 13.03, OD 16.00, Length 16.00, Material Copper, Pin w/o

Pkg. 10



### 140520 Bushing

Replacing: 1-23351-0080, 7-23351-0080

Servicing: 0-23000-3150, 0-23000-3152, 0-23000-3160, 0-23000-3170, 0-23000-3180, 0-23000-3240, 0-23000-3241

ID 19.00, OD 23.00, Length 19.00, Material Copper, Pin w/o

Pkg. 5



### 140521 Bushing

Replacing: 1-23351-0060, 7-23351-0060

Servicing: 0-23000-6071, 0-23000-6072, 0-23000-6091, 0-23000-6103, 0-23000-6140, 0-23000-6150, 0-23000-6160

ID 14.03, OD 17.50, Length 19.00, Material Copper, Pin w/o

Pkg. 10



### 140601 Bushing

Replacing: 0-23351-0220

Servicing: 28MT

ID 14.03, OD 17.00, Length 16.20, Material Copper, Pin w/o



### 140906 Bushing

Replacing: 7-23351-0220, 7-23351-0225

Servicing: 0-23000-1570, 0-23000-1580, 0-23000-1980, 0-23000-2100, 0-23000-2101, 0-23000-2200, 0-23000-2201

ID 14.00, OD 17.00, Length 16.00, Material Steel, Pin w/o



### 140949 Bushing

Replacing: 7-23351-0150, 7-23351-0154

Servicing: 0-23000-0031, 0-23000-0032, 0-23000-0040, 0-23000-0060, 0-23000-0081, 0-23000-0091, 0-23000-0100

ID 22.00, OD 26.00, Length 11.95, Material Copper, Pin w/o

## Bearings

### Needle Bearings

Pkg. 5



### 140136 FAG Needle Bearing

Replacing: 1-09202-0070

Servicing: 20SI, 27SI TYPE 200, 0-35000-3000, 0-35000-3013, 0-35000-3020, 0-35000-3050, 0-35000-3070, 0-35000-3150, 0-35000-3180

ID 17.00, OD 23.80, Height 32.00  
Closed end.

## Sundry Parts

### Various



### 132526 Sealing Kit

Manufacturer: Nikko

Replacing: 7-09210-1000

Servicing: 0-21000-3391, 0-23000-6250, 0-23000-6251, 0-23000-6253, 0-23000-6310, 0-23000-6341, 0-23000-6343



## Solenoids

### Solenoid Parts

#### Various



**334127** Plunger  
OD 37.00, Length 95.60

### Solenoid Assy's

#### 12 V



**235473** Solenoid Assy  
Servicing: 03111-4140  
12 Volt, 2.2 kW, B+ M8, OD 81.80,  
Total length 123.00, No./mount. holes 2,  
Fork lever w/o



**236596** Solenoid Assy  
Servicing: 03101-3170  
12 Volt, B+ M8, ID/cover 75.00,  
Total length 123.00, Height/B+ 13.50,  
Terminal 50 6.30, Coil bolt M8,  
Coil bolt 2 8.50, No./mount. holes 2,  
No./terminals 3

## Drives



**235095** Drive  
Servicing: 03111-4140, 03111-4240, 03111-4241  
ID 9.00, OD 32.00, OD/housing 42.00,  
Total length 104.00, Splines A 10,  
No./teeth 10, Drive type Steel, Rotation CW



**236607** Drive  
Servicing: 03101-3170, 03101-3190, 03101-3220  
OD 29.00, Total length 93.50,  
Splines A 10, No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



**335621** Drive  
Replacing: 36160-4X902  
Servicing: 03111-4300  
ID 12.00, OD 37.00, OD/housing 48.50,  
Total length 50.60, Splines A 10,  
No./teeth 12, Drive type Steel,  
Rotation CW

### Drive Parts

#### Rollers

Pkg. 500



**234378** Roller  
OD 7.00, Length 18.45

### Brush Sets

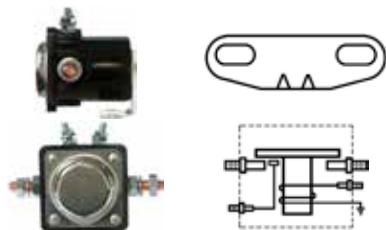


**142077** Brush Set  
Servicing: 03111-4240, 03111-4241  
12 Volt, Length 18.05,  
Lead length 38.00, Lead length 2 38.00,  
Height 24.85, Thickness 7.80



## Solenoids

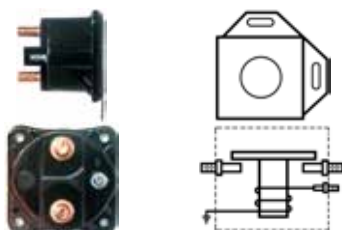
### 12 V



#### 130493 Solenoid

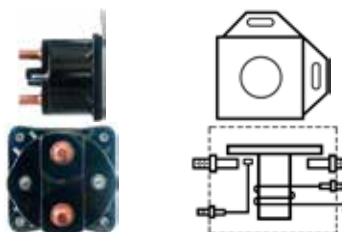
Replacing: 15-407, SAS-4211Y

12 Volt, Intermittent load 150 Amp.,  
B+ 5/16" UNF, OD 42.30, Total length 62.30,  
Height/B+ 15.00, Terminal 15A/width 12.75,  
Terminal 50 10-32 UNF, Coil bolt 5/16" UNF,  
Coil bolt 2 15.00, No./mount. holes 2,  
No./terminals 4



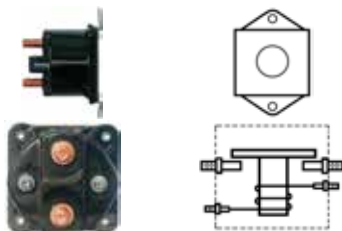
#### 133855 Solenoid

Replacing: 15-283, 15-298, 15-335, 15-365,  
15-393, 15-471, 15-472, SAZ-4201AC, SAZ-  
4201AJ, SAZ-4201ANY  
12 Volt, 100 Amp, Intermittent load 800 Amp.,  
B+ M8, OD/cover 48.95,  
Total length 54.30, Height/B+ 14.25,  
Terminal 50 M5, Coil bolt M8,  
Coil bolt 2 14.10, No./mount. holes 2,  
No./terminals 3  
3.95-4.15 coil resistance.



#### 133856 Solenoid

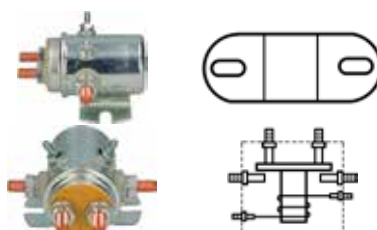
Replacing: 15-394, 15-3F, 15-411, 15-420,  
15-444, 15-486, SAZ-4201BBY, SAZ-4201BU,  
SAZ-4201BW, SAZ-4201CJ  
12 Volt, 100 Amp, Intermittent load 800 Amp.,  
B+ M8, OD/cover 49.25,  
Total length 54.75, Height/B+ 14.20,  
Terminal 15A/width 9.85,  
Terminal 50 M5, Coil bolt M8,  
Coil bolt 2 14.20, No./terminals 4  
3.95-4.15 coil resistance.



#### 133857 Solenoid

Replacing: 15-275, 15-351, 15-368, 15-400,  
15-487, SAZ-4201AHY, SAZ-4201AP, SAZ-  
4201BC, SAZ-4201EY, SAZ-4201U

12 Volt, 100 Amp, Intermittent load 800 Amp.,  
B+ M8, OD/cover 54.75,  
Total length 55.50, Height/B+ 14.45,  
Terminal 50 M5, Coil bolt M8,  
Coil bolt 2 14.30, No./mount. holes 2,  
No./terminals 4  
3.95-4.15 coil resistance.



#### 138068 Solenoid

Replacing: 15-323, 15-386, SBD-4201, SBD-  
4201A, SBD-4201G

12 Volt, 200 Amp, Intermittent load 900 Amp.,  
B+ 5/16" UNF, OD 42.00,  
Total length 89.35, Height/B+ 12.00,  
Terminal 50 10-32 UNF, Coil bolt 5/16"  
UNF, Coil bolt 2 12.00, Seconds 5,  
No./mount. holes 2, Fork lever w/o  
Silver contact.

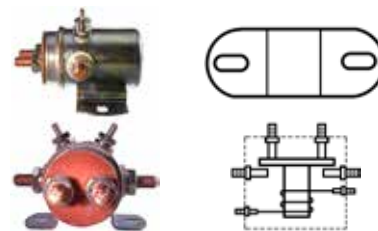


#### 231811 Solenoid

Replacing: 15-452, 15-453, SAJ4003A,  
SAJ4003B

12 Volt, B+ M10, ID/cover 27.90,  
OD 55.80, OD/cover 62.60,  
Total length 108.60, Height/B+ 22.60,  
Terminal 50 M5, Coil bolt M10,  
Coil bolt 2 16.85, No./mount. holes 2,  
No./terminals 3

### 24 V



#### 137766 5★ Solenoid

Manufacturer: Prestolite

Replacing: 15-326, SBD-4401

24 Volt, 100 Amp, Intermittent load 600 Amp.,  
B+ 5/16" UNF, OD 41.00, Total length 89.40,  
Height/B+ 18.35, Terminal 15A/width 12.00,  
Terminal 50 3/16" UNF, Coil bolt 5/16" UNF,  
Coil bolt 2 17.65, Seconds 5,  
No./mount. holes 2

## Drives



#### 130418 Drive

Replacing: 6527-37

ID 10.15, OD 41.00, OD/teeth 41.00,  
Total length 61.00, Shaft length 39.65,  
No./teeth 11, Key spline w/o, Lock w/o



#### 131766 Drive

Replacing: 59-186, PD-7A

Servicing: 40MT

ID 19.00, OD 46.30, OD/housing 58.00,  
Total length 120.40, Shaft length 19.00,  
No./teeth 12, Rotation CW,  
Key spline w/o, Lock w/o



#### 131768 Drive

Replacing: 59-203, 59-205, PD-8A, PD-9A, PP-8A

Servicing: 40MT

ID 19.00, OD 56.50, OD/housing 58.00,  
Total length 120.40, Shaft length 19.00,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o





**235624** Drive  
 Replacing: 19-195, 59-146, 59-195, 59-248, EB-95, EBB-132, EBB-174  
 Servicing: 460227, MDU7028, MDU7028S, MDU7029, MEO4001, MEO4002, MMG4002  
 ID 16.00, OD 29.20, OD/housing 53.00, Total length 137.00, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o

### Brush Gears



**230987** Brush Gear  
 Replacing: 36-67, MDL-1064  
 12 Volt, ID 44.60, OD 96.30, Height 24.50  
 Brush set: HC-CARGO EX85-862/1.

### Brush Gear Parts

### Brush Springs



**132741** Brush Spring  
 Replacing: 50-263, MZ-19S  
 Servicing: 4??? DD,  
 OD 15.65, Length 30.80, Height 5.00, Material Steel

### Brush Sets



**140713#** Brush Set  
 Replacing: 17-171, MGL-2032S  
 12 Volt, Length 12.50, Lead length 53.00, Lead length 2 63.50, Height 16.00, Thickness 6.50

Pkg. 10



**141213** Brush Set  
 Replacing: 42-32, 42-50, EVF-2012S  
 12 Volt, Length 12.50, Lead length 33.50, Height 6.30, Thickness 6.30

### Bushings

Pkg. 10



**140053** Bushing  
 Replacing: 24-23, MG-77A  
 Servicing: 37MT  
 ID 15.99, OD 19.15, Length 18.90, Type Standard, Material Copper, Pin w/o  
 Alternative no.: B140053

Pkg. 10



**140264** Bushing  
 Replacing: 24-29, 24-3, MZ-40AS  
 ID 16.27, OD 19.15, Length 15.00, Material Copper, Pin w/o  
 Alternative no.: B140264

Pkg. 5



**140553** Bushing  
 ID 15.90, OD 19.10, Length 15.20, Type Standard, Material Copper, Pin w/o

Pkg. 100



**B140053#** Bushing  
 Replacing: 24-23, MG-77A  
 ID 15.99, OD 19.15, Length 18.90, Material Copper, Pin w/o  
 Alternative no.: 140053

Pkg. 100



**B140264** Bushing  
 Replacing: 24-29, 24-3, MZ-40AS  
 ID 16.26, OD 19.15, Length 14.90, Material Copper, Pin w/o  
 Alternative no.: 140264



## Armatures

12 V



### 130552 Armature

Replacing: 1946391, 1948999, 1967045

Servicing: 35MT, 1113389, 1113392, 1113402, 1113411, 1113412, 1113548, 1113626, 1113633, 1113634, 1113635, 1113636

12 Volt, Shaft length 394.00, Height/bar 8.50, Height/bar lane 27.30, Core thickness 85.00, No./bars 25, No./splines 3, Rotation CW Short shaft.



### 131137# Armature

Replacing: 1932872, 1935259, 1942244, 1948691, 1967042, D4123

Servicing: 30MT, 1113002, 1113003, 1113004, 1113005, 1113041, 1113059, 1113089, 1113100, 1113101, 1113111, 1113113

12/24 Volt, Shaft dia. 14.00, Height/bar 4.80, Shaft length 355.60, Height/bar lane 25.30, Core thickness 85.00, No./bars 25



### 131174 Armature

Replacing: 1938178, 1954448, 1958949, D4109

Servicing: 10MT, 10455304, 10455355, 1107215, 1107224, 1107245, 1107251, 1107291, 1107300, 1107326, 1107344, 1107364

12 Volt, Shaft length 299.70, Core thickness 69.00, No./bars 27



### 131354 Armature

Replacing: 1985249, 1987175

Servicing: 37TM, 10461169, 10478805, 10478806, 10478825, 10478890, 10478921, 10478927, 10478928, 10478929, 10478930

12 Volt, Shaft dia. 22.20, Shaft length 392.10, Height/bar lane 41.50, Core thickness 85.00, No./bars 29, No./splines 3, Rotation CW



### 131365 Armature

Replacing: 1887989, 1987989

Servicing: 42MT, 10478801, 10478802, 10478803, 10478804, 10478809, 10478810, 10478824, 10478894, 10478918, 10478931

12 Volt, Shaft dia. 20.90, Shaft length 451.00, Bar length 48.14, Height/bar 4.75, Height/bar lane 48.14, Core thickness 86.00, No./bars 25, No./splines 19



### 131400 Armature

Replacing: 10470773, 10496043, 10498863, 1877361, 1940548, 1940624, 1965724, 1970538, 1970548, 1978517

Servicing: 10MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455315

12 Volt, Bar dist. 2.60, Bar cross dist. 43.25, Shaft dia. 19.00, Shaft length 281.00, Bar length 8.70, Height/bar 4.30, Height/bar lane 25.45, Core thickness 74.00, No./bars 23, No./splines 3, Rotation CW High torque.



### 131401 Armature

Replacing: 10496042, 1954273, 1954473, 1955937, 1966224, 1966228, 1966288, 1971563, 1971568, 1978449, 1992258

Servicing: 8MT, 1107233, 1107237, 1107242, 1107247, 1107248, 1107259, 1107260, 1107266, 1107274, 1107293, 1107298

12 Volt, Shaft dia. 19.00, Shaft length 282.00, Core thickness 69.00, No./bars 27, No./splines 3, Rotation CW



### 131627 Armature

Replacing: 1846614, 1876366, 1960866

Servicing: 20MT, 1107556, 1107573, 1107574, 1107577, 1107587, 1107588, 1107589, 1107598, 1107599, 1107863, 1107866

12 Volt, Bar dist. 2.60, Bar cross dist. 43.25, Shaft dia. 18.95, Shaft length 335.00, Bar length 8.70, Height/bar 4.30, Height/bar lane 25.45, Core thickness 74.00, No./bars 23, Rotation CW



### 131658 Armature

Replacing: 1891916, 1930812, 1949190, 1950417, 1956918

Servicing: 20MT, 25MT, 10455500, 1107506, 1107510, 1107511, 1107512, 1107514, 1107515, 1107516, 1107522, 1107523, 1107527

12/24 Volt, Bar dist. 2.60, Bar cross dist. 43.25, Shaft length 335.00, Bar length 8.70, Height/bar 4.30, Height/bar lane 25.45, Core thickness 74.00, No./bars 21



### 131659 Armature

Replacing: 1950307

Servicing: 10MT, 1107203, 1107204, 1107205, 1107234, 1107249, 1107268, 1107290, 1107292, 1107295, 1107308, 1107332

12 Volt, Shaft length 301.00, Core thickness 69.00, No./bars 27



### 132143 Armature

Replacing: 1004012420

Servicing: 1101351, 1101352, 1101353, 1101354, 1101355, 1101356, 1101357, 1101358, 1101359, 1101363, 1101364

12 Volt, 0.8 kW, Bar dist. 2.60, Bar cross dist. 36.80, Shaft length 207.50, Bar length 4.00, Height/bar 5.55, Height/bar lane 16.60, Core thickness 60.00, No./bars 23, No./splines 10, Rotation CW





### 133850 Armature

Replacing: 10456466, D4161

Servicing: 28MT, 10465054, 10479606, 10479607, 10479613, 10479614, 10479615, 10479617, 10479618, 10479619, 10479620

12 Volt, Bar dist. 2.10, Bar cross dist. 41.00, Shaft length 177.70, Bar length 6.40, Core thickness 60.10, No./bars 23, No./teeth 8, Rotation CW/CCW



### 135786 Armature

Replacing: 1851550, 1891404, 1929404, 1975073

Servicing: 10MT, 10455316, 10455317, 10455318, 10455321, 10455322, 10455324, 10455325, 10455326, 10455327, 10455328

12 Volt, Shaft length 300.50, Core thickness 74.30, No./bars 23, Rotation CW



### 137485 Armature

Replacing: 1949243

Servicing: 10MT, 1107194, 1107771, 1107877, 1109398, 1109422, 1109429, 1109434, 1109498, 1109552, 1109569, 1109570

12 Volt, Shaft dia. 18.95, Shaft length 300.70, Height/bar 4.30, Height/bar lane 26.40, Core thickness 74.40, No./bars 23, Rotation CW



### 230388# Armature

Replacing: 10451976, 10475100, 10475990, 10487126

Servicing: PG150, PG260F1, 09000794, 09000801, 10455506, 9000794, 96208782, 96208785, 9000795, 9000817, 9000824

12 Volt, 1.4 kW, Bar dist. 2.72, Bar cross dist. 40.22, Shaft dia. 15.55, Shaft length 128.00, Bar length 4.82, Height/bar 4.55, Height/bar lane 21.85, Core thickness 54.00, No./bars 28, No./teeth 16, Rotation CW



### 230604 Armature

Replacing: 10475588

Servicing: PG260M, 8000129, 8000193, 9000786, 9000798, 9000804, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821

12 Volt, Shaft length 120.50, Height/bar lane 25.30, No./bars 21, No./teeth 12, Rotation CW



### 231471 Armature

Replacing: 10492437

Servicing: 12560972, 22506694, 9000836, 9000837, 9000841, 9000842, 9000854, 9000857, 9000858

12 Volt, 1.7/2 kW, Shaft dia. 13.72, Shaft length 143.55, Height/bar 4.05, Height/bar lane 25.30, Core thickness 54.00, No./bars 25, No./teeth 11, Rotation CW/CCW



### 238624 Armature

Servicing: 12564089, 9000856, 9000902, 9000934, 9000967, 8000180, 96550792

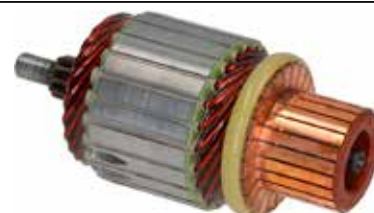
12 Volt, Bar dist. 2.30, Bar cross dist. 30.80, Shaft length 109.20, Bar length 4.50, Height/bar 4.50, Height/bar lane 20.75, Core thickness 45.45, No./bars 23, No./teeth 10, Rotation CW



### 330661 Armature

Servicing: 8000048, 8000387

12 Volt, 1.1 kW, Bar dist. 2.23, Bar cross dist. 30.80, Shaft length 99.15, Bar length 4.55, Height/bar 4.40, Height/bar lane 20.75, Core thickness 45.48, No./bars 23, No./teeth 10, Rotation CW



### 335720 Armature

Servicing: 8000400

12 Volt, 0.9 kW, Shaft length 99.60, Height/bar lane 21.80, Core thickness 45.50, No./bars 23, No./splines 10, No./teeth 10, Rotation CW

## 24 V



### 130553 Armature

Replacing: 1951254

Servicing: 50MT, 10478846, 10478853, 10478862, 1109294, 1109299, 1109494, 1109497, 1109632, 1109633, 1109635

24 Volt, Shaft dia. 20.87, Shaft length 532.00, Height/bar 12.15, Height/bar lane 51.30, Core thickness 97.00, No./bars 25, No./splines 19 Long shaft.



### 130554 Armature

Replacing: 1945840, 1953233

Servicing: 50MT, 10478800, 10478843, 10478844, 10478845, 10478848, 10478849, 10478850, 10478851, 10478852, 10478854

24 Volt, Bar dist. 3.40, Shaft dia. 20.90, Bar cross dist. 64.30, Bar length 14.00, Shaft length 482.60, Height/bar 6.20, Height/bar lane 49.90, Core thickness 96.00, No./bars 25, No./splines 19, Rotation CW Short shaft.



### 130923 Armature

Replacing: 1945500, 1948506, 1948508

Servicing: 40MT, 10461047, 1113818, 1113824, 1113825, 1113827, 1113830, 1113831, 1113832, 1113840, 1113842, 1113845

24 Volt, Bar dist. 2.70, Bar cross dist. 61.50, Shaft dia. 21.00, Shaft length 466.50, Bar length 8.20, Core thickness 85.00, No./bars 25, No./splines 19





### 131311 5★ Armature

Manufacturer: Remy

Replacing: 19070130

Servicing: 19024051, 19024053, 19024076, 19024077, 19024080, 19024085

24 Volt, 6.6 kW, Bar dist. 3.00, Bar cross dist. 53.20, Shaft length 256.00, Bar length 11.60, Height/bar 7.15, Height/bar lane 42.15, Core thickness 83.00, No./bars 29, Rotation CW

Clutch housing: HC-CARGO 231369.



### 131350 Armature

Replacing: 1988435

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478820, 10478836, 10478839

24 Volt, Bar dist. 2.50, Bar cross dist. 60.00, Shaft dia. 20.90, Shaft length 451.00, Bar length 9.00, Core thickness 84.00, No./bars 25, No./splines 19, Rotation CW



### 131359 Armature

Replacing: 1988322

Servicing: 37TM, 10478811, 10478814, 10478819, 10478826, 10478960, 10478976, 10479020, 1990330, 1990331, 1990332

24 Volt, Shaft dia. 22.20, Shaft length 392.10, Height/bar 6.40, Height/bar lane 44.00, Core thickness 85.00, No./bars 29, No./splines 3, Rotation CW



### 135089 Armature

Replacing: 10457117, 10457622

Servicing: 28MT, 10461470, 10479600, 10479604, 10479605, 10479608, 10479611, 10479612, 10479616, 10479623, 10479626

24 Volt, Bar dist. 2.20, Bar cross dist. 37.30, Shaft length 177.50, Bar length 6.30, Core thickness 60.10, No./bars 23, No./teeth 8, Rotation CW/CCW



### 232891 Armature

Replacing: 10472559

Servicing: 41MT, 10478815, 10478817, 10478898, 10478925, 10478961, 10479013, 10479024, 1993995

24 Volt, Shaft dia. 33.10, Shaft length 391.45, Height/bar 7.40, Height/bar lane 42.55, Core thickness 84.60, No./bars 29, No./teeth 19



### 333058 Armature

Replacing: 10511750

Servicing: 19011507, 19011509, 19011511, 19011512, 19011522, 19011523, 19011524, 19011527, 8200009, 8200022

24 Volt, Shaft length 197.20, Height/bar lane 38.00, Core thickness 76.20, No./bars 21, No./teeth 20



### 335135 Armature

Replacing: 10511866

Servicing: 19026030, 19026032, 8200000, 8200072, 8300025

24 Volt, 6.0/7.5 kW, Shaft length 204.00, Height/bar lane 36.00, Core thickness 65.00, No./bars 21, No./teeth 20

## Field Cases



### 232402 Field Case

Replacing: 10456473

Servicing: 28MT, 10479604, 10479606, 10479607, 10479613, 10479615, 10479617, 10479618, 10479619, 10479620, 10479628

12 Volt, ID 60.55, OD/middle 90.30, Length 104.90, Brush gear w/o, Magnets w/o, O-ring w/o



### 232403 Field Case

Replacing: 10457118

Servicing: 28MT, 10479600, 10479605, 10479608, 10479611, 10479612, 10479616, 10479623, 10479656, 1113272, 1113277

24 Volt, ID 59.85, OD/middle 90.60, Length 105.35, Rotation CW, Brush gear w/o, Magnets w/o, O-ring w/o



### 237832 Yoke

Servicing: 19011501, 19011507, 19011509, 19011511, 19011512, 19011522, 19011523, 19011524, 19011527, 19024196

24 Volt, 6.2 kW, ID 68.80, Length 108.20, OD/middle 105.30, Lead length 145.00, Rotation CW, Magnets w/o

## Field Coils

### 12 V



### 132691 Field Coil

Replacing: 10470770, 10496643, 1877306, 1965048, 1965730, 1976129, 1977306, D4223, D4227, D4264

Servicing: 10MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455314

12 Volt, Height 104.70, Width 252.45, Internal height 65.20, Inner width 31.65, Brush gear w/o



### 135338 Field Coil

Replacing: 1891918, 1955951, 1956348, 1956384, 1978123, 1986457, 1986819, 1988951

Servicing: 20MT, 27MT, 1107506, 1107508, 1107509, 1107510, 1107511, 1107512, 1107514, 1107516, 1107517, 1107518, 1107519

12 Volt, Lead length 48.75, Height 130.40, Width 243.90, Internal height 100.90, Inner width 31.85, Brush gear w/o



## 24 V


**130495** Field Coil

Replacing: 1846926, 1945109, 1945496, 1949109, 1971839, 1974778, 1974929

Servicing: 40MT, 10461045, 10461046, 10461047, 10461059, 10461060, 1109621, 1113172, 1113386, 1113389, 1113392

12/24 Volt, Lead length 55.55, Height 139.70, Width 261.55, Internal height 110.85, Inner width 33.55, Brush gear w/o


**130496** Field Coil

Replacing: 1945853

Servicing: 50MT, 10478800, 10478843, 10478844, 10478845, 10478846, 10478848, 10478849, 10478850, 10478852, 10478853

24 Volt, Lead length 50.65, Height 174.65, Width 311.10, Internal height 130.60, Inner width 26.65, Brush gear w/o


**131351** Field Coil

Replacing: 1988442

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478820, 10478893, 10478937

24 Volt, Height 144.60, Width 280.80, Internal height 110.75, Inner width 33.55, Brush gear w/o


**131360** Field Coil

Replacing: 1988328

Servicing: 37MT, 10478864, 1990330, 1990331, 1990332, 1990499, 1993701, 1993702, 1993707, 1993711, 1993723, 1993729

24 Volt, Lead length 64.10, Height 141.50, Internal height 88.10, Inner width 34.10, Brush gear w/o


**232872** Field Coil

Replacing: 10469230, D4257

Servicing: 37MT, 10478811, 10478814, 10478819, 10478826, 10478960

24 Volt, Height 143.35, Internal height 91.90, Inner width 33.75, Brush gear w/o


**232877** Field Coil

Replacing: 10472563

Servicing: 37MT, 41MT, 10478815, 10478817, 10478898, 10478925, 10478953, 10478961, 10479013, 10479024, 1993995

24 Volt, Height 143.35, Width 292.90, Internal height 89.60, Inner width 33.55, Brush gear w/o

## C.E. Brackets


**230780** C.E. Bracket

Replacing: 10457036

Servicing: 28MT, 10461470, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479612, 10479613, 10479614

ID 84.00, OD 95.00, Height 45.00


**232530** C.E. Bracket

Replacing: 10468709, D3339

Servicing: 37MT, 41MT, 10478805, 10478811, 10478812, 10478814, 10478815

ID 128.50, OD 138.00, Height 80.00

## D.E. Brackets


**139032** D.E. Bracket

Replacing: 85541465

Servicing: M127, 1100460, 1100502, 1100503, 1101051, 1101052, 1101053, 1101054, 1101055, 1101056, 1101057, 1105119

Type Closed


**139283** D.E. Bracket

Replacing: 1984097, 1984590

Servicing: 10MT, SD300, 10455301, 10455305, 10455306, 10455308, 10455343, 10455603, 10496873, 10496874, 1107781, 1108338

Type Closed  
w/ bushing.


**230110** D.E. Bracket

Replacing: 830845

Servicing: 10MT, 1108400, 1108755, 1108756, 1109481, 1109486, 1109487, 1109488, 1109489, 1109490, 1109492, 1998317

Type Closed


**231244** D.E. Bracket

Replacing: 10476793

Servicing: PG260M, 8000193, 9000798, 9000820, 9000822, 9000850

Type Closed  
Needle bearing: HC-CARGO 140242.





### 231246 D.E. Bracket

Replacing: 10476596

Servicing: PG260M, 9000786, 9000819, 9000821, 9000851, 9000860, 9000899

Type Closed

Needle bearing: HC-CARGO 140242.



### 231742 D.E. Bracket

Replacing: 10457026

Servicing: 28MT, 10479605, 10479615, 10479616, 10479617, 10479621, 10479623, 10479634, 10479656, 1113275, 1113276

Type Closed



### 231745 D.E. Bracket

Replacing: 10457029, 10457170

Servicing: 28MT, 10479600, 10479606, 10479615, 10479618, 10479629

Type Closed



### 232050 D.E. Bracket

Replacing: 1876881, 1965529, 1967277, 1968122, 1970310

Servicing: 10MT, SD300, 10455300, 1107237, 1107242, 1107247

Type Closed

w/ bushing.



### 233758 D.E. Bracket

Replacing: 10457359

Servicing: 10461470, 10479626, DRX67095, DRX67149

Type Closed

## I.M. Brackets



### 230678 I.M. Bracket

Replacing: 1962602

Servicing: 10MT, 10455321, 10455322, 10455324, 10455325, 10455326, 10455331, 10455332, 10455333, 10455500, 1107295

OD 98.50

Wet clutch starters.



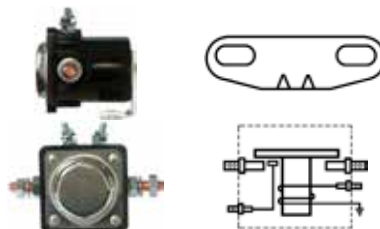
### 230778 I.M. Bracket

Replacing: 10457037

Servicing: 28MT, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479612, 10479613, 10479614, 10479615

## Solenoids

### 12 V



### 130493 Solenoid

Replacing: F903

12 Volt, Intermittent load 150 Amp., B+ 5/16" UNF, OD 42.30, Total length 62.30, Height/B+ 15.00, Terminal 15A/width 12.75, Terminal 50 10-32 UNF, Coil bolt 5/16" UNF, Coil bolt 2 15.00, No./mount. holes 2, No./terminals 4



### 130499 Solenoid

Replacing: 1114250, 1114251, 1114252, 1114253, 1114255, 1114256, 1114257, 1114263, 1114264, 1114266, 1114268

Servicing: 10MT, 20MT, 25MT, 27MT, 10455308, 10455309, 10455310, 10455311, 10455322, 10455335, 1107201, 1107203, 1107204, 1107223

12 Volt, B+ 3/8" UNC, ID/cover 31.35, OD 59.80, OD/cover 65.10, Total length 122.15, Terminal 50 8-32 UNC, Coil bolt 3/8" UNC, No./mount. holes 2, No./terminals 4

Cap: HC-CARGO 130497.



### 130500 Solenoid

Replacing: 1114365, 1115501, 1115508, 1115510, 1115529, 1115531, 1115540, 1119778, 1119833, 1119877, 1119882

Servicing: 30MT, 35MT, 1113059, 1113066, 1113070, 1113075, 1113082, 1113083, 1113087, 1113088, 1113089, 1113090, 1113091

12 Volt, B+ 3/8" UNC, ID/cover 32.25, OD 67.15, OD/cover 62.90, Total length 152.80, Height/B+ 18.50, Terminal 15A/width 15.50, Terminal 50 10-32 UNF, Coil bolt 3/8" UNC, Coil bolt 2 19.50, No./mount. holes 4, No./terminals 4

Insulated return.



### 131080 Solenoid

Replacing: 19024764

12 Volt, 50 Amp, Intermittent load 500 Amp., B+ M8, OD 39.70, Total length 86.40, Height/B+ 12.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.25, Seconds 5, No./terminals 3





### 131119 Solenoid

Replacing: 3471693, 3471741, 3471982, DR902  
Servicing: 3471163, 3471143

12 Volt, B+ M8, ID/cover 21.65,  
OD 51.00, OD/cover 53.55,  
Total length 113.40, Height/B+ 10.45,  
Terminal 15A/width 14.20, Terminal 50 6.30,  
No./mount. holes 2, No./terminals 4  
w/o plunger.



### 131253 Solenoid

Replacing: 19024762

12 Volt, 60 Amp, Intermittent load 500 Amp.,  
B+ M8, OD 39.65, Total length 85.75,  
Height/B+ 11.85, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 11.85,  
Seconds 5, No./terminals 4



### 131272 Solenoid

Replacing: 3471697, 3471977, 3491027, DR903  
Servicing: 3471150, 3471160, 3471168, 150,  
163, 168, 172, 176, 3471163, 3471171, 3471172

12 Volt, B+ M8, OD 51.60,  
OD/cover 56.40, Total length 107.60,  
Height/B+ 14.45, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 15.30,  
No./mount. holes 2, No./terminals 4  
w/o plunger.



### 131273 Solenoid

Replacing: 3471725, 3471929, 3471979, DR904  
Servicing: 3471155, 3471162, 3471169,  
3471170, 3471169, 155, 169

12 Volt, B+ M8, OD 51.15,  
OD/cover 54.45, Total length 107.25,  
Height/B+ 15.80, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 15.80,  
No./mount. holes 3, No./terminals 3



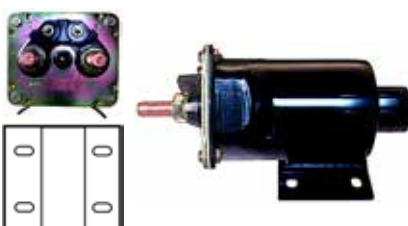
### 131356 Solenoid

Replacing: 1115591

Servicing: 37MT, 1990308, 1990319,  
1990341

12 Volt, B+ 1/2" UNC, ID/cover 32.40,  
OD 68.55, OD/cover 76.80,  
Total length 177.95, Terminal 50 10-32 UNF,  
Coil bolt 3/8" UNC, No./mount. holes 3,  
No./terminals 3

Motor terminal: 3/8"-16.



### 131363 Solenoid

Replacing: 1115556, 1115565, 1115575,  
1119853, 1119879

Servicing: 40MT, 50MT, 10461041, 10461045,  
10461046, 10461048, 10461059, 10461060,  
10461061, 10478813, 10478877, 10478881

12 Volt, B+ 1/2" UNC, OD 74.60,  
Total length 201.00, Height/B+ 28.00,  
Terminal 15A/width 9.00,  
Terminal 50 10-32 UNF, Coil bolt 1/2" UNC,  
Coil bolt 2 18.00, No./mount. holes 4,  
No./terminals 4, Fork lever w/o  
Insulated return. Square type. Cap: HC-  
CARGO 131367.

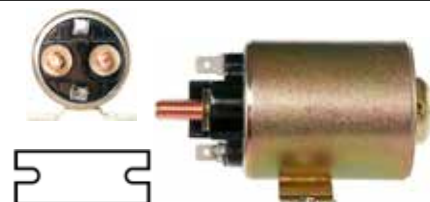


### 131369 Solenoid

Replacing: 1115593, 1115645

Servicing: 42MT, 10478801, 10478802,  
10478803, 10478804, 10478810, 10478894,  
10478962, 10478964, 10478966, 10478967

12 Volt, B+ 1/2" UNC, OD 68.80,  
OD/cover 78.10, Total length 177.80,  
Height/B+ 26.00, Terminal 15A/width 12.50,  
Terminal 50 10-32 UNF, Coil bolt 1/2" UNC,  
Coil bolt 2 17.50, No./mount. holes 3,  
No./terminals 4, Fork lever w/o  
Insulated return. Cap: HC-CARGO 135324.  
Solenoid w/ plunger: HC-CARGO 234476.

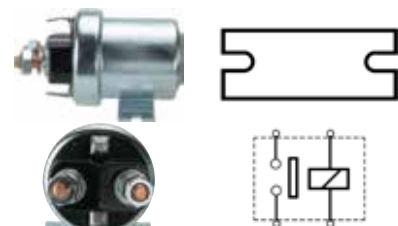


### 131370 Solenoid

Replacing: 19024758

12 Volt, 80 Amp, Intermittent load 500 Amp.,  
B+ M8, OD 52.10, OD/cover 45.20,  
Total length 101.75, Height/B+ 17.50,  
Terminal 50 6.30, Coil bolt M8,  
Coil bolt 2 17.50, Seconds 5,  
No./terminals 4

Water proof. Silver contact. Insulated  
return.



### 131373Z Solenoid

Replacing: 19024761

12 Volt, 150 Amp, Intermittent load 800 Amp.,  
B+ M8, OD 54.17, OD/cover 43.36,  
Total length 92.00, Height/B+ 17.34,  
Terminal 50 6.30, Coil bolt M8,  
Coil bolt 2 17.34, Seconds 5,  
No./mount. holes 2, No./terminals 4,  
Bracket type Crimp  
Silver contact. Insulated return.

Alternative no.: 333153



### 131590 Solenoid

Replacing: 1114514, 1114515, 1114517,  
1114518, 1114524, 1114526, 1114529,  
1114530, 1114531, 1114557, 1114562

Servicing: 5MT, 22MT, 10455001, 10455004,  
10455006, 10455007, 10455008, 10455009,  
10455015, 10455016, 10455017, 10455018

12 Volt, B+ 3/8" UNC, ID/cover 28.50,  
OD 59.90, OD/cover 65.55,  
Total length 105.25, Height/B+ 14.50,  
Terminal 15A/width 10.00,  
Terminal 50 10-32 UNF, Coil bolt 3/8" UNC,  
No./mount. holes 2, No./terminals 4,  
Fork lever w/o

Insulated return. Cap: HC-CARGO 137809.



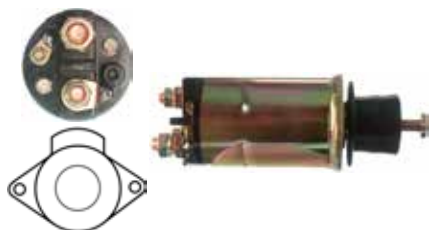


### 132944 Solenoid

Replacing: 10467421, 10468962, 10497275, D922A, D936A

Servicing: PG100, 150, 09000756, 21020892, 21020893, 21021366, 21021648, 9000719, 9000735, 9000751, 9000756, 9000758

12 Volt, B+ M8, ID/cover 24.10, OD 51.40, OD/cover 44.35, Total length 93.40, Height/B+ 16.50, Terminal 50 M6, Coil bolt M8, Coil bolt 2 17.85, No./mount. holes 0, No./terminals 4, Fork lever w/o Insulated return.



### 133852 Solenoid

Replacing: 10457055, D930A

Servicing: 28MT, 10479604, 10479613, 10479615, 10479619, 10479621, 1113273, 1113274, 1113275, 1113276, 1113278

12 Volt, B+ M10, OD 57.00, OD/cover 57.00, Total length 175.00, Height/B+ 16.50, Terminal 50 M5, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 3, Fork lever w/o Cap: HC-CARGO 134841. Terminal switch: M5.

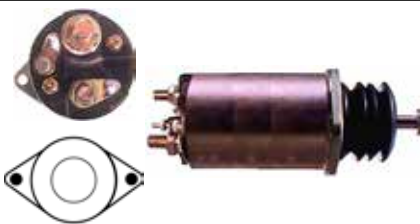


### 137370 Solenoid

Replacing: 1114583

Servicing: PG260FI, PG260M, 8000193, 9000819, 9000821, 9000822, 9000840, 9000899, 9000820, 9000850, 9000879, 9000884, 9000885

12 Volt, B+ M8, OD 52.50, Total length 123.90, Height/B+ 16.00, Terminal 15A/width 11.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 16.00, No./mount. holes 3, No./terminals 4, Fork lever w/o Cap: HC-CARGO 232226.

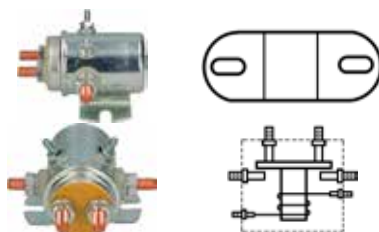


### 137811 Solenoid

Replacing: 10456454

Servicing: 28MT, 10465054, 1113267, 1113269, 1113270, 1113295, 1113296

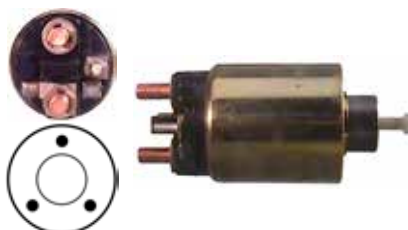
12 Volt, B+ M10, OD 56.90, OD/cover 57.20, Total length 174.00, Height/B+ 16.00, Terminal 50 M4, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 3, Fork lever w/o Cap: HC-CARGO 137824.



### 138068 Solenoid

Replacing: 1114223, 1114534

12 Volt, 200 Amp, Intermittent load 900 Amp., B+ 5/16" UNF, OD 42.00, Total length 89.35, Height/B+ 12.00, Terminal 50 10-32 UNF, Coil bolt 5/16" UNF, Coil bolt 2 12.00, Seconds 5, No./mount. holes 2, Fork lever w/o Silver contact.



### 138217 Solenoid

Replacing: 10475646, 10475654, 1114587

Servicing: PG260, 10455513, 10455515, 22506694, 9000786, 9000798, 9000805, 9000806, 9000812, 9000820, 9000833

12 Volt, B+ M8, OD 52.50, OD/cover 46.40, Total length 124.20, Height/B+ 16.50, Terminal 50 M5, Coil bolt M8, Coil bolt 2 16.50, No./mount. holes 3, No./terminals 3, Fork lever w/o Cap: HC-CARGO 138409.



### 139209 Solenoid

Replacing: 1115609, 1115613, D904A

Servicing: 37MT, 10478806, 10479036, 10479068, 1990309, 1990310, 1990313, 1990315, 1990316, 1990317, 1990320

12 Volt, B+ 1/2" UNC, ID/cover 32.00, OD 68.75, OD/cover 77.40, Total length 179.00, Height/B+ 26.00, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 231912 Solenoid

Replacing: 1115598

Servicing: 42MT, 10478918, 10478965, 10478977, 10478984, 10478985, 10478991, 10479003, 1990369, 1990374, 1990380

12 Volt, B+ 1/2" UNC, ID/cover 31.80, OD 69.15, OD/cover 76.10, Total length 176.80, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, No./mount. holes 3, No./terminals 4 Insulated return.



### 231913 Solenoid

Replacing: 1115623, D917A

Servicing: 37MT, 10478805, 10478927, 10478928, 10478929, 10478930, 10478957, 10479014, 10479015, 10479034, 10479054

12 Volt, B+ 1/2" UNC, ID/cover 32.35, OD 69.00, OD/cover 70.25, Total length 176.45, Terminal 15A/width 11.70, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, Coil bolt 2 9.15, No./mount. holes 3, No./terminals 4





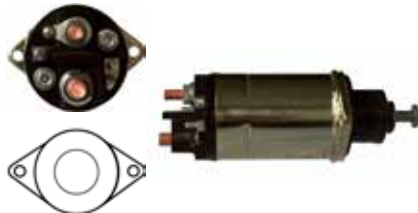
**231914** Solenoid  
 Replacing: 1115610  
 Servicing: 37MT, 1993767, 1993854  
 12 Volt, B+ 1/2" UNC, ID/cover 32.25, OD 68.85, OD/cover 76.40, Total length 177.65, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, No./mount. holes 3, No./terminals 3



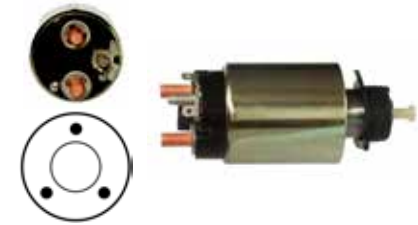
**231915** Solenoid  
 Replacing: 1115612, D905A  
 Servicing: 37MT, 1993790, 1993791, 1993792, 1993793, 1993799, 1993800, 1993818, 1993854  
 12 Volt, B+ 3/8" UNC, OD 68.50, OD/cover 76.30, Total length 170.00, Height/B+ 19.50, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, Coil bolt 2 3.00, No./mount. holes 3, No./terminals 3



**231917** Solenoid  
 Replacing: 10511213, 1115624, 1115656, D918A  
 Servicing: 42MT, 10478931, 10478932, 10478933, 10478934, 10478935, 10478936, 10478951, 10478987, 10479004, 10479005  
 12 Volt, B+ 1/2" UNC, ID/cover 32.80, OD 68.00, OD/cover 76.30, Total length 178.35, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, No./mount. holes 3, No./terminals 4  
 Insulated return. Jump start protection cap.



**231927** Solenoid  
 Replacing: 10457061, 10457151, 10457601, 10478614, D937A  
 Servicing: 28MT, 10479606, 10479607, 10479613, 10479614  
 12 Volt, B+ M10, OD 57.00, OD/cover 56.75, Total length 174.50, Height/B+ 16.00, Terminal 15A/width 10.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 15.75, No./mount. holes 2, No./terminals 4, Fork lever w/o  
 Relay terminal: M5.



**231929** Solenoid  
 Replacing: 10476117, 10482844  
 Servicing: PG150S, 10455506, 96208785, 21020761, 96208782, 9000794, 9000795, 9000817, 9000824, 96208781  
 12 Volt, B+ M8, ID/cover 25.15, OD 51.35, OD/cover 49.50, Length 48.00, Total length 127.00, Height/B+ 15.30, Terminal 50 M6, Coil bolt M8, Coil bolt 2 14.50, No./mount. holes 3, No./terminals 3, Fork lever w/o



**232219** Solenoid  
 Replacing: 1114576, 1114584, D946A  
 Servicing: SD205, -255, 10455010, 10455011, 10455012, 10455013, 10455025, 10455026, 10455042, 10455047, 10455048, 10455051  
 12 Volt, B+ M8, ID/cover 28.45, OD 59.40, OD/cover 65.80, Total length 105.50, Height/B+ 15.00, Terminal 50 M5, Coil bolt 2 16.25, No./mount. holes 2, No./terminals 3, Fork lever w/o



**233762** Solenoid  
 Servicing: 10455503, 96275481  
 12 Volt, B+ M8, ID/cover 24.90, OD 52.40, OD/cover 45.55, Length 50.55, Total length 128.60, Height/B+ 13.20, Terminal 50 M6, Coil bolt M8, Coil bolt 2 12.95, No./mount. holes 3, No./terminals 3



**234476** Solenoid  
 Replacing: 1115701, 1115712  
 Servicing: 42MT  
 12 Volt, B+ 1/2" UNC, OD 69.00, OD/cover 77.30, Total length 248.00, Height/B+ 37.40, Terminal 15A/width 17.65, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, Coil bolt 2 28.50, No./mount. holes 3, No./terminals 4, Fork lever w/o  
 Insulated return. Cap: HC-CARGO 135324.



**235006** Solenoid  
 Replacing: 10469039, 1114578, 1114582, D922A  
 Servicing: 10455010, 10455011, 10455012, 10455013  
 12 Volt, B+ M8, OD 51.50, OD/cover 44.75, Total length 93.50, Height/B+ 17.30, Terminal 50 M5, Coil bolt M8, Coil bolt 2 17.30, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



**235167** Solenoid  
 Servicing: 00E091, 110397, 112161, CER3087  
 12 Volt, B+ M8, ID/eye 6.69, OD 55.48, Length 59.05, Total length 135.00, Height/B+ 19.06, Terminal 50 M5, Coil bolt M8, Coil bolt 2 19.00, No./mount. holes 2, No./terminals 3, Fork lever w/o





### 235609 Solenoid

Replacing: 10511408

Servicing: 10461334, 10461753, 10461755, 10461757, 10461760, 10461773, 10461777, 19011505, 19011506, 19011508

12 Volt, B+ M12, OD 63.90, OD/cover 63.90, Total length 218.00, Height/B+ 32.50, Terminal 50 M5, Coil bolt M12, Coil bolt 2 23.00, No./mount. holes 2, No./terminals 3, Fork lever w/o



### 238373 Solenoid

Servicing: 111089

12 Volt, B+ M8, OD 52.36, OD/cover 50.55, Length 49.42, Total length 108.54, Switch dim. 6.50, Height/B+ 13.00, Terminal 50 M6-6.30, Coil bolt M8, Coil bolt 2 13.00, No./mount. holes 3, No./terminals 3, Fork lever w/o



### 238620 Solenoid

Servicing: 8000129, 96289430, 8000321, 9000936, 9000952, 9000965, 96450663, 96550792, 96569440, 96843574

12 Volt, B+ M8, OD 52.60, OD/cover 49.90, Total length 120.75, Switch dim. 14.66, Height/B+ 14.48, Terminal 50 M6, Coil bolt M8, Coil bolt 2 14.00, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o  
HC-CARGO 238620 includes 3 tapping screws.



### 239321 Solenoid

Servicing: 112816, 112847, 800264

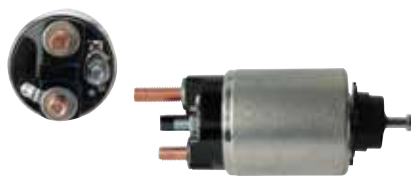
12 Volt, B+ M8, OD 52.55, Total length 120.40, Height/B+ 15.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.00, No./mount. holes 3, No./terminals 3  
Mounting holes in solenoid is without thread, so please use old self-tapping screw or new self-tapping screw HC-CARGO 232992 for mounting.



### 330380 Solenoid

Servicing: 8000032

12 Volt, B+ M8, OD 52.56, OD/cover 46.71, Total length 132.04, Height/B+ 23.78, Terminal 50 M6, Coil bolt M8, Coil bolt 2 14.41, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 330657 Solenoid

Servicing: 8000048, 8000387

12 Volt, 1.1 kW, B+ M8, OD 52.50, Total length 132.80, Height/B+ 17.64, Terminal 50 M6, Coil bolt M8, Coil bolt 2 14.10, No./mount. holes 3, No./terminals 3, Fork lever w/o

**NEW PRODUCT**  
[www.hc-cargo.com](http://www.hc-cargo.com)

### 331736 Solenoid

12 Volt, B+ M8, OD 52.50, Total length 121.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.50, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 333153 5★ Solenoid

Manufacturer: Bosch

Replacing: 19024761

12 Volt, 150 Amp, Intermittent load 800 Amp., B+ M8, OD 51.75, OD/cover 44.00, Total length 100.15, Height/B+ 17.75, Coil bolt M8, Coil bolt 2 17.75, Seconds 5, No./mount. holes 2, No./terminals 4  
Silver contact. Insulated return.  
Alternative no.: 131373z



### 333781 Solenoid

Replacing: 10515838

Servicing: 19011400, 19011402, 19011403, 8200003, 8200010, 8200014, 82000295, 8200103

12 Volt, B+ M8, ID/eye 8.00, OD 58.00, OD/cover 58.00, Total length 196.40, Height/B+ 25.00, Terminal 50 M5, Coil bolt M10, No./mount. holes 2, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 333782 Solenoid

Replacing: 10512093

Servicing: 19026027, 19026028, 19026029, 19026031, 19026035, 8200005, 8200007, 8200023, 8200025

12 Volt, B+ M12, ID/eye 6.70, OD 64.00, OD/cover 64.00, Total length 218.00, Height/B+ 35.00, Terminal 50 M5, Coil bolt M12, No./mount. holes 2, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 333844# Solenoid

Servicing: 10455505

12 Volt, B+ M8, OD 51.70, Length 48.90, Total length 130.90, Terminal 50 6.30, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o





### 334299

Solenoid

Servicing: 8000396, 36100-2A950, 8000675  
12 Volt, B+ M8, OD 52.60,  
Total length 121.75, Height/B+ 14.50,  
Terminal 50 6.30, Coil bolt M8,  
Coil bolt 2 8.00, No./mount. holes 3,  
No./terminals 3, Fork lever w/



### 335722

Solenoid

Servicing: 8000400  
12 Volt, B+ M8, OD 46.25,  
Total length 105.25, Terminal 30H M6,  
No./mount. holes 2, No./terminals 3



### 337188

Solenoid

Servicing: 8000357, 8000285  
12 Volt, B+ M8, OD 46.20, Terminal 30H M6,  
Total length 109.00, No./mount. holes 2

**NEW PRODUCT**  
[www.hc-cargo.com](http://www.hc-cargo.com)

### 337241

Solenoid

Servicing: 8000269  
12 Volt, B+ M8, OD 52.90 Height/B+ 13.00,  
Total length 122.00,, Terminal 50 6.30,  
No./mount. holes 3, No./terminals 3

24 V



### 130305

Solenoid

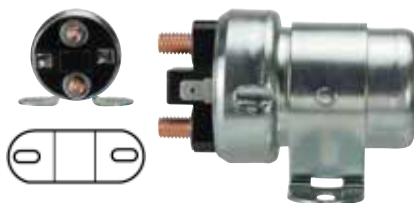
Replating: 19024325  
Servicing: 19024040, 19024080, 19024085  
24 Volt, B+ Cable, OD 94.00,  
Total length 111.30, No./mount. holes 2,  
Fork lever w/o  
Insulated return.  
Alternative no.: 333159



### 130492

Solenoid

Replating: 19024765  
24 Volt, 50 Amp, Intermittent load 500 Amp.,  
B+ M8, OD 40.00, Total length 85.00,  
Height/B+ 11.30, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 11.30, Seconds 5,  
No./mount. holes 2, No./terminals 3



### 131254

Solenoid

Replating: 19024763  
24 Volt, 50 Amp, Intermittent load 500 Amp.,  
B+ M8, OD 39.70, Total length 86.30,  
Height/B+ 11.80, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 11.80,  
Seconds 5, No./terminals 4



### 131349

Solenoid

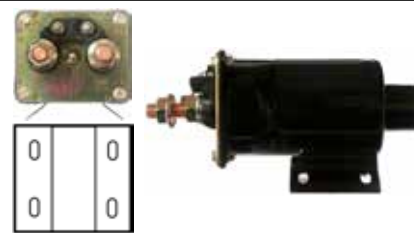
Replating: 1115595, 1115601, 1115608  
Servicing: 42MT, 10461024, 10461025,  
10461030, 10461031, 10461043, 10461054,  
10461068, 10478820, 10478839, 10478980  
24 Volt, B+ 1/2" UNC, OD 69.45,  
OD/cover 77.00, Total length 159.55,  
Terminal 50 10-32 UNF, Coil bolt 1/2" UNC,  
No./mount. holes 3, No./terminals 4  
Insulated return. Cap: HC-CARGO 135323.  
Solenoid w/ plunger: HC-CARGO 233873.  
Alternative no.: 233873



### 131361

Solenoid

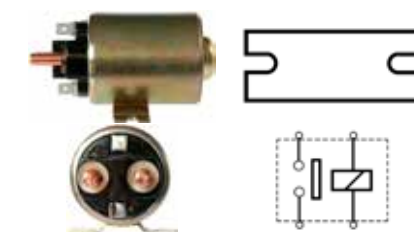
Replating: 1115594, 1115604, 1115605  
Servicing: 37MT, 1990330, 1990331, 1990332,  
1990499, 1993701, 1993702, 1993707,  
1993729, 1993732, 1993741, 1993742  
24 Volt, B+ 1/2" UNC, ID/cover 33.20,  
OD 68.75, OD/cover 77.15, Coil bolt 1/2" UNC,  
Total length 176.80, Terminal 50 10-32 UNF,  
No./mount. holes 3, No./terminals 4  
Insulated return. Cap: HC-CARGO 135323.



### 131364

Solenoid

Replating: 1115526, 1115544, 1115547,  
1115548, 1115557, 1115559, 1115576,  
1115607, 1119832  
Servicing: 40MT, 50MT, 10461047, 10478846,  
10478848, 10478850, 10478851, 10478852,  
10478853, 10478855, 10478856, 10478859  
24 Volt, B+ 1/2" UNC, ID/cover 31.00,  
OD 74.40, Total length 201.75,  
Terminal 50 10-32 UNF, Coil bolt 1/2" UNC,  
No./terminals 4  
Insulated return. Cap: HC-CARGO 131368.



### 131371

Solenoid

Replating: 19024759  
24 Volt, 80 Amp, Intermittent load 500 Amp.,  
B+ M8, OD 51.70, OD/cover 43.45,  
Total length 99.60, Height/B+ 17.35,  
Coil bolt M8, Coil bolt 2 17.35,  
Seconds 5, No./mount. holes 2,  
No./terminals 4  
Silver contact. Insulated return.



### 131372Z

Solenoid

Replating: 19024760  
24 Volt, 150 Amp, Intermittent load 800 Amp.,  
B+ M8, OD 45.00, OD/cover 54.80,  
Total length 98.70, Height/B+ 15.00,  
Terminal 50 6.30, Coil bolt M8,  
Seconds 5, No./terminals 4  
Alternative no.: 333152



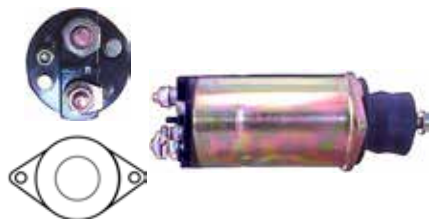


### 132696 Solenoid

**Replacing:** 1114322, 1115512, 1115513, 1115543, 1115583, 1119855, 1119858, 1119888, 1119988

**Servicing:** 30MT, 1107607, 1108128, 1108151, 1108629, 1108652, 1108668, 1109758, 1109996, 1113135, 1113148, 1113162

24 Volt, B+ 3/8" UNC, ID/cover 32.10, OD 66.30, OD/cover 62.00, Total length 147.30, Height/B+ 12.00, Terminal 15A/width 13.50, Terminal 50 8-32 UNC, Coil bolt 3/8" UNC, Coil bolt 2 14.50, No./mount. holes 4, No./terminals 4, Fork lever w/o Insulated return.



### 135521 Solenoid

**Replacing:** 10457116

**Servicing:** 28MT, 10479605, 10479612, 10479623, 10479656, 1113277, 1113291

24 Volt, B+ M10, OD 57.00, OD/cover 56.70, Total length 177.50, Height/B+ 14.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 12.50, No./mount. holes 2, No./terminals 3 Cap: HC-CARGO 138898. Terminal switch: M5.



### 139337 Solenoid

**Replacing:** 1115597, 1115600, D903A

**Servicing:** 42MT, 10478836, 10478892, 10478893, 10478979, 1990381, 1990411, 1990414, 1990416, 1993822, 1993827

24 Volt, B+ 1/2" UNC, ID/cover 31.60, OD 68.65, OD/cover 76.25, Total length 180.00, Terminal 15A/width 13.65, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, No./mount. holes 3, No./terminals 4 Insulated return.

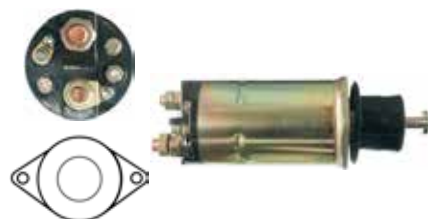


### 230198 Solenoid

**Replacing:** 1115619, 1115621, 1115640, D915A, D931A

**Servicing:** 37MT, 10478814, 10478817, 10478925, 1993901, 1993902, 1993903, 1993905, 1993909, 1993910, 1993911

24 Volt, B+ 1/2" UNC, ID/cover 32.15, OD 68.80, OD/cover 76.20, Total length 178.55, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, Coil bolt 2 10.60, No./mount. holes 3, No./terminals 3 Plunger: HC-CARGO 133022.

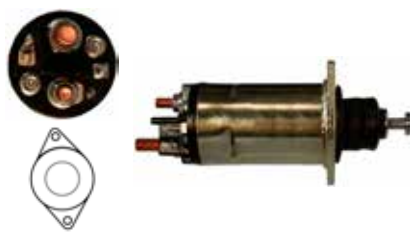


### 231251 Solenoid

**Replacing:** 10457115, 10457152

**Servicing:** 28MT, 10479600, 10479608, 10479616, 10479629, 1113272

24 Volt, B+ M10, OD 57.00, OD/cover 56.85, Total length 183.40, Height/B+ 16.00, Terminal 15A/width 10.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 4, Fork lever w/o Silver contact. Dummy terminal: M5. Relay terminal: M5.



### 231800 Solenoid

**Replacing:** 10457368

**Servicing:** 28MT, 10461470, 10479626, DRX67095, DRX67149

24 Volt, B+ M10, OD 58.00, OD/cover 59.35, Total length 194.00, Height/B+ 28.00, Terminal 15A/width 10.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 14.00, No./mount. holes 2, No./terminals 4, Fork lever w/o Relay terminal: M5.



### 231919 Solenoid

**Replacing:** 1115622, 1115627, D916A, D921A

**Servicing:** 10478811, 10478819, 10478960, 10478976, 10479020, 1993917, 1993918, 1993920, 1993921, 1993930

24 Volt, B+ 1/2" UNC, ID/cover 32.60, OD 68.85, OD/cover 77.40, Total length 178.00, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, Coil bolt 2 16.00, No./mount. holes 3, No./terminals 4 Dummy terminal: 10-32. Jump start sheath. Silver contacts. Coil Resistance: Suction Pole = 0.635. Team Coil = 3.150.



### 231920 Solenoid

**Replacing:** 1115625, D919A

**Servicing:** 42MT, 10478937, 10478938, 10478939, 10478940, 10478941, 10478942, 10478943, 10478944, 10478946

24 Volt, B+ 1/2" UNC, ID/cover 32.85, OD 69.20, OD/cover 76.15, Total length 177.75, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, No./mount. holes 3, No./terminals 4 Insulated return. Jump start protection cap. Silver contacts. Cap: HC-CARGO 232033.



### 231922 Solenoid

**Replacing:** 1115641, D939A, DR939A

**Servicing:** 41MT, 10478898, 10479024, 10479043, 10479079

24 Volt, B+ 1/2" UNC, OD 69.00, OD/cover 76.45, Total length 178.20, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, Coil bolt 2 10.45, No./mount. holes 3, No./terminals 4 Insulated return.





### 231926 Solenoid

Replacng: 1115634

Servicing: 41MT, 10478815, 10478961, 10479013, 10479172, 1993995

24 Volt, B+ 1/2" UNC, ID/cover 32.30, OD 69.00, OD/cover 76.40, Total length 178.55, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, Coil bolt 2 11.00, No./mount. holes 3, No./terminals 4



### 231928 Solenoid

Replacng: 10457123

Servicing: 28MT, 10479611

24 Volt, B+ M10, OD 57.90, OD/cover 57.40, Total length 182.25, Height/B+ 21.35, Terminal 50 8-32 UNC, Coil bolt M8, Coil bolt 2 17.90, No./mount. holes 2, No./terminals 3  
Switch terminal: UNC 8-32.



### 233869 Solenoid

Replacng: 1115657, 1115663, 1115683

Servicing: 42MT, 10479009, 10479010, 10479178

24 Volt, B+ 1/2" UNC, OD 68.80, OD/cover 77.30, Total length 248.30, Height/B+ 25.50, Terminal 15A/width 12.00, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, Coil bolt 2 18.00, No./mount. holes 3, No./terminals 4, Fork lever w/o  
Insulated return. Solenoid cap: HC-CARGO 232033.



### 233873 Solenoid

Replacng: 1115667, 1115668, 1115673

Servicing: 42MT

24 Volt, B+ 1/2" UNC, OD 68.55, OD/cover 77.25, Total length 248.00, Terminal 50 10-32 UNF, Coil bolt 1/2" UNC, No./mount. holes 3, No./terminals 4  
Insulated return.  
Alternative no.: 131349



### 235758 Solenoid

Replacng: 10511409

Servicing: 10461754, 10461756, 10461758, 10461759, 19011507, 19011509, 19011511, 19011512, 19011522, 19011523

24 Volt, B+ M12, OD 63.95, OD/cover 63.75, Total length 217.95, Height/B+ 32.20, Terminal 50 M5, Coil bolt M12, Coil bolt 2 22.65, No./mount. holes 2, No./terminals 4, Bracket type Bracket, Fork lever w/o



### 237845 Solenoid

Replacng: 10511799, 10515696

Servicing: 39MT, 19011501, 19024196

24 Volt, B+ M12, OD 64.00, OD/cover 63.50, Total length 224.65, Height/B+ 38.10, Terminal 50 M5, Coil bolt M12, Coil bolt 2 31.45, No./terminals 3, Fork lever w/o



### 333002 Solenoid

Replacng: 10512094

Servicing: 19026030, 19026032, 8200000, 8200024, 8200072, 8300025

24 Volt, B+ 31.23, OD 64.00, OD/cover 64.00, Total length 218.00, Height/B+ M12x1.75, Terminal 50 M5, Coil bolt M12x1.75, Coil bolt 2 23.61, No./mount. holes 2, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 333152 Solenoid

Manufacturer: Bosch

Replacng: 19024760

24 Volt, 150 Amp, Intermittent load 800 Amp., B+ M8, OD 51.50, OD/cover 43.55, Total length 100.55, Height/B+ 17.85, Coil bolt M8, Coil bolt 2 17.85, Seconds 5, No./mount. holes 2, No./terminals 4  
Silver contact. Insulated return.  
Alternative no.: 131372Z



### 333845 Solenoid

Replacng: 10518782

Servicing: 8200138, 8200297

24 Volt, B+ M10, ID/eye 7.90, OD 58.00, OD/cover 59.00, Total length 197.90, Terminal 50 M5, Coil bolt M8, No./mount. holes 2, No./terminals 3, Bracket type Bracket, Fork lever w/o

## Safety Switches

### 12 V



### 234163 Safety Switch

Replacng: 10484662

Servicing: 28MT, 10479637

12 Volt, OD 33.70, Total length 64.00, No./mount. holes 2, No./wires 4



### 235444 Safety Switch

Replacng: 10457565, 10477892, 10483614, 120483614

Servicing: 10479026, 10479027, 10479028, 10479030, 10479040, 10479041





### 235699 Safety Switch

Replacing: 10511368, 10511414

Servicing: 19011506, 19011508, 19011510, 19011513, 19011514, 19011515, 19011516, 19011517, 19011518, 19011519

OD 35.70, Total length 67.00, Terminal 50 M6, No./mount. holes 2



### 333841 Safety Switch

Replacing: 10512096

Servicing: 19026027, 19026028, 19026029, 19026031, 19026035, 8200005, 8200007, 8200023, 8200025, 8200075

12 Volt, B+ M6, OD 48.75, Total length 69.65, Terminal 50 M5, No./mount. holes 2, No./terminals 3, Bracket type Crimp



### 333847 Safety Switch

Replacing: 10515812, 10515872

Servicing: 10479646, 10479651, 8200003, 8200013, 8200103, 8200295

12 Volt, OD 48.85, Total length 69.75, Terminal 50 M6, No./mount. holes 2, No./terminals 3, Bracket type Crimp

24 V



### 230186 Safety Switch

Replacing: 10457366, 10457367

Servicing: 28MT, 10461470, 10479626, 10479627, 19024204, DRX67095, DRX67131, DRX67149

24 Volt, Total length 84.00, No./mount. holes 2, No./wires 4



### 237835 Safety Switch

Replacing: 10511369, 10511415, 10514696

Servicing: 19011501, 19011507, 19011509, 19011511, 19011512, 19011522, 19011523, 19011524, 19011527, 8200009

24 Volt, OD 35.68, Total length 67.28, Terminal 50 M6, No./mount. holes 2



### 333840 Safety Switch

Replacing: 10512476, 1115659

Servicing: 10479652

24 Volt, B+ M6, OD 48.75, Total length 69.50, Terminal 50 M4, No./mount. holes 2, No./terminals 3, Bracket type Crimp



### 335383 Safety Switch

Replacing: 10515814

Servicing: 8200054

24 Volt, OD 48.80, Total length 69.70

## Solenoid Parts

### Solenoid Caps



### 130497 Solenoid Cap

Servicing: 5MT, 10MT, 20MT, 25MT, 10455301, 10455305, 10455306, 10455308, 10455603, 10496873, 10496874, 1107203, 1107237, 1107242

ID 56.40, OD 66.30, Switch dim. 18.50, Coil bolt 3/8" UNC, Coil bolt 2 6.00, No./terminals 4  
HC-CARGO 130499.



### 130498# Solenoid Cap

Servicing: 30MT, 1113652, 1113683, 1115540

ID 56.55, OD 62.00, Coil bolt 3/8" UNC, Coil bolt 2 15.00, No./terminals 4  
HC-CARGO 130500.



### 131058# Solenoid Cap

Replacing: 1876849, 1880449, 1893477, 1901272, 1902610, 1906493, 1945400, 1953242, 1957789, 1961463, 1967330

Servicing: 40MT, 50MT, 1113827, 1113840, 1113853, 1113923, 1113942, 1113949, 1113950, 1113959, 1113960, 1113962, 1113967

OD 90.80, Coil bolt 1/2" UNC, Coil bolt 2 16.00, No./terminals 2  
24 V. Silver contact.



### 131367 Solenoid Cap

Replacing: 1979634

Servicing: 40MT, 50MT, 1115556

OD 99.00, Coil bolt 1/2" UNC, Coil bolt 2 17.00, No./terminals 4  
12 V. Squareface. Silver contact.



### 131368 Solenoid Cap

Replacing: 1979413, 1979458, 1979498

Servicing: 40MT, 50MT, 10478864, 1109290, 1113818, 1113824, 1113825, 1113827, 1113840, 1113842, 1113846, 1113849, 1113850

OD 98.00, Coil bolt 1/2" UNC, Coil bolt 2 18.50, No./terminals 4  
24 V. Squareface. Silver contact.





### 134841 Solenoid Cap

**Servicing:** 28MT, 10457055, 10479613, 10479615, 10479621, 10479627, 1113273, 1113276, 1113281, 1113282, 19024204  
**OD** 56.60, **Coil bolt** M8,  
**Coil bolt 2** 14.00, **No./terminals** 3  
**HC-CARGO** 133852.



### 135323 Solenoid Cap

**Replacing:** 10495812, 135323, 1989500  
**Servicing:** 37MT, 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478980, 10478986, 10478998  
**ID** 58.65, **OD** 76.85, **Switch dim.** 21.90,  
**Coil bolt** 1/2" UNC, **Coil bolt 2** 18.00,  
**No./terminals** 4  
**24 V. Silver contact.** **HC-CARGO** 131349, 131361.



### 135324 Solenoid Cap

**Replacing:** 1989499  
**Servicing:** 42MT, 1115593  
**ID** 59.00, **OD** 76.85, **Coil bolt** 1/2" UNC,  
**No./terminals** 4  
**HC-CARGO** 131369.



### 137809 Solenoid Cap

**Servicing:** 5MT, 22MT, 10455006, 10455016, 10455017, 10455019, 10455024, 10455300, 10455301, 10455304, 10455305, 10455306  
**ID** 55.10, **OD** 65.80, **Coil bolt** 3/8" UNC,  
**Coil bolt 2** 4.00, **No./terminals** 4  
**HC-CARGO** 131590.



### 137824 Solenoid Cap

**Servicing:** 28MT, 10456454, 10465054, 1113267, 1113270, 1113296  
**OD** 53.60, **Coil bolt** M8,  
**Coil bolt 2** 12.00, **No./terminals** 3  
**HC-CARGO** 137811.



### 138409 Solenoid Cap

**Servicing:** PG260, 10475646, 22506694, 8000180, 9000786, 9000835, 9000836, 9000860, 9000889  
**ID** 41.30, **OD** 49.70, **Switch dim.** 14.60,  
**Coil bolt** M8, **Coil bolt 2** 16.00,  
**No./terminals** 3, **Bracket type** Crimp  
**HC-CARGO** 138217.



### 138898 Solenoid Cap

**Servicing:** 28MT, 10457116, 10479623, 10479656, 1113277  
**ID** 30.00, **OD** 56.85, **Coil bolt** M8,  
**Coil bolt 2** 17.20, **No./terminals** 3  
**HC-CARGO** 132498.



### 232033 Solenoid Cap

**Replacing:** ZM-646187  
**Servicing:** 42MT, 1115625, D919A  
**ID** 58.60, **OD** 76.40, **Switch dim.** 21.80,  
**Coil bolt** 1/2" UNC, **Coil bolt 2** 16.50,  
**No./terminals** 4  
**HC-CARGO** 231920.



### 232226 Solenoid Cap

**Replacing:** 10478008, ZM-186096  
**Servicing:** PG260F1, 1114583, 8000193, 9000819, 9000821, 9000822, 9000899, 9000820, 9000850, 9000879, 9000884  
**ID** 41.50, **OD** 49.95, **Switch dim.** 14.60,  
**Coil bolt** M8, **Coil bolt 2** 16.50,  
**No./terminals** 4, **Bracket type** Crimp  
**HC-CARGO** 137370.



### 330381 Solenoid Cap

**Servicing:** 8000032, 8000048  
**OD** 49.70, **Switch dim.** 14.50,  
**Coil bolt** M8, **Coil bolt 2** 14.00,  
**No./terminals** 3, **Bracket type** Crimp

### Moving Contacts



### 132952 Moving Contact

**Replacing:** 1954861, 1967335, 1977264  
**Servicing:** 40MT, 50MT, 10478864, 1113652, 1113683, 1113827, 1113840, 1113853, 1113923, 1113942, 1113949, 1113950, 1113959  
**OD** 57.00, **OD 2** 6.15, **Shaft dim.** 56.00,  
**Thickness** 3.10, **Material** Steel, **Shaft w/** 12/24 V.



### 138410# Contact Plate

**Servicing:** PG260, 1114583, 8000032, 8000048, 8000129, 8000193, 9000819, 9000821, 9000899, 96289430  
**ID** 8.40, **Length** 31.75, **Width** 16.25,  
**Shaft w/o**  
**Solenoid:** **HC-CARGO** 138217.



Pkg. 5



**139836** Contact Plate  
 Servicing: 28MT, 10461470, 10479626,  
 10479656, 8200138, DRX67149  
 ID 11.10, Thickness 3.30, Width 32.00



**233396** Moving Contact  
 Replacing: 1985295  
 Servicing: 37MT, 41MT, 42MT,  
 OD 38.20, Length 53.70,  
 Shaft dim. 44.00, Material Steel,  
 Shaft w/  
 Silver plated.

#### Various



**130522** Plunger  
 Replacing: 1948522  
 Servicing: 40MT, 50MT, 10461041, 10461045,  
 10461046, 10461047, 10461048, 10461059,  
 10461060, 10461061, 10478800, 10478807  
 ID 11.40, OD 30.00, Length 134.30,  
 Fork lever w/o



**132735** Plunger  
 Replacing: 10470783, 1932200, 1941113,  
 1953041  
 Servicing: 5MT, 10MT, 20MT, 22MT, 25MT,  
 27MT, 10455308, 10455309, 10455310,  
 10455311, 10455322, 10455335, 10455343,  
 10455344, 10455345, 10455346  
 ID 13.20, ID/eye 4.80, OD 30.35,  
 Length 74.00, Fork lever w/  
 Long type.



**132736** Plunger  
 Replacing: 10470764, 10470777, 1978297,  
 1987391  
 Servicing: 5MT, 8MT, 10MT, 15MT, 20MT,  
 22MT, 27MT, 10455001, 10455004, 10455006,  
 10455007, 10455008, 10455009, 10455015,  
 10455016, 10455017, 10455018  
 ID 12.75, ID/eye 4.90, OD 27.85,  
 Length 66.10, Fork lever w/  
 Short type.



**133022** Plunger  
 Replacing: 1988139, 1988140, 1988775, 1988139  
 Servicing: 37MT, 41MT, 42MT, 10461024, 10461025,  
 10461030, 10461031, 10461043, 10461054,  
 10461068, 10478801, 10478802, 10478803  
 ID 12.40, OD 31.60, Length 132.25,  
 Fork lever w/o



**139660** Gasket  
 Replacing: 1952427  
 Servicing: 20MT, 22MT, 25MT, 27MT, 10455301,  
 10455304, 10455305, 10455306, 10455308, 10455310,  
 10455312, 10455316, 10455319, 10455320  
 ID/mount. hole 7.75, Length 88.45,  
 Thickness 4.00, Width 76.55,  
 Mount. holes 2, Material Rubber

#### Drives



**130465** Drive  
 Replacing: 3471490, 3471912, DR2000, DR2003  
 Servicing: 3471141, 3471143, 3471144,  
 3471150, 3471152, 3471153, 3471154  
 ID 12.00, OD 25.80, OD/housing 45.35,  
 Total length 65.50, Splines A 12, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o



**130536** Drive  
 Replacing: 3874045, C2001  
 ID 12.00, OD 33.10, OD/housing 46.10,  
 Total length 75.20, No./teeth 10,  
 Rotation CW, Key spline w/o, Lock w/o



**130537** Drive  
 Replacing: 10456422, 10470757, 1828393,  
 1875687, 1935827, 1935829, 1945842,  
 1946229, 1954842, 1954843, 1965538  
 Servicing: 10MT, 10455300, 10455301,  
 10455305, 10455306, 10455308, 10455309,  
 10455310, 10455311, 10455312, 10455315  
 ID 12.00, OD 25.20, OD/housing 46.15,  
 Total length 81.00, Splines A 3, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o



**130538** Drive  
 Replacing: 10498623, 1852716, 1868355,  
 1876857, 1877355, 1933471, 1941119,  
 1941157, 1942950, 1950058, 1964127  
 Servicing: 30MT, 10455316, 10455326,  
 10455331, 10455334, 10455337, 10478830,  
 1107214, 1107234, 1107249, 1107290  
 ID 14.30, OD 39.85, OD/housing 60.00,  
 Total length 96.15, Splines A 3,  
 No./teeth 10, Rotation CW,  
 Key spline w/o, Lock w/o



**130539** Drive  
 Replacing: 1894211, 1935487, 1945487,  
 1952083, 1955777, 1960370, 1967779,  
 1976884, 800066, 830620  
 Servicing: 40MT, 42MT, 50MT, 10461024,  
 10461030, 10461041, 10461043, 10461045,  
 10461047, 10461048  
 ID 15.90, OD 56.50, OD/housing 58.00,  
 OD/teeth 56.50, Total length 120.40,  
 Shaft length 15.90, No./teeth 11,  
 Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 130539z





### 130539Z Drive

**Replacing:** 1894211, 1935487, 1945487, 1955777, 1960370, 1967779, 1976884, 800066, 830620  
**Servicing:** 10479372  
 ID 15.90, OD 56.50, OD/housing 58.25, OD/teeth 56.50, Total length 120.40, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 130539



### 130540 Drive

**Replacing:** 10498438, 1851430, 1875802, 1875852, 1877353, 1877354, 1932308, 1932890, 1934488, 1940134, 1940138  
**Servicing:** 35MT, 1107251, 1107343, 1107344, 1107510, 1107527, 1107534, 1107538, 1107548, 1107553, 1107567, 1107581  
 ID 14.02, OD 46.15, OD/housing 60.00, Total length 96.00, Shaft length 14.00, Splines A 3, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o



### 130542 Drive

**Replacing:** 1894221, 1977013, 1979835, 800077  
**Servicing:** 30MT, 50MT, 10478862, 1109494, 1109497, 1109632, 1109757, 1109779, 1109792, 1109849, 1990232, 1990240, 1990247  
 ID 16.00, OD 46.00, OD/housing 58.00, Total length 169.00, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o



### 131056 Drive

**Replacing:** 1893560, 1894213, 1936647, 1946945, 1946957, 1948606, 1965514, 1970711, 1977005, 800068, 851073  
**Servicing:** 40MT, 42MT, 50MT, 10461025, 10461031, 10461046, 10461060, 10461061, 10478803, 10478804  
 ID 15.90, OD 46.20, OD/housing 57.65, Total length 120.40, Shaft length 15.90, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o



### 131429 Drive

**Replacing:** 1893443, 1893445, 1975194, 1985564, D2027, D2035  
**Servicing:** 25MT, 1109212, 1109213, 1109214, 1109215, 1109216, 1109218, 1109219, 1109495, 1109563, 1113484  
 ID 14.30, OD 32.00, OD/housing 60.00, Total length 80.80, Splines A 3, No./teeth 10, Rotation CW, Key spline w/o, Lock w/



### 131481 Drive

**Replacing:** 1985262, 1987211  
**Servicing:** 37MT, 10461169, 10478805, 10478811, 10478825, 10478826, 10478927, 10478949, 10478960, 10479014, 10479034  
 ID 14.35, OD 46.35, OD/housing 60.00, Total length 99.55, Shaft length 98.00, Splines A 3, No./teeth 12, Rotation CW, Key spline w/o, Lock w/  
 Alternative no.: 335646



### 131766 Drive

**Replacing:** 1914341, 1921998, 1928998, 1932526, 1932545, 1932605  
**Servicing:** 40MT, 1108987, 1109158, 1109169, 1109170, 1109172, 1109178, 1109184, 1109229  
 ID 19.00, OD 46.30, OD/housing 58.00, Total length 120.40, Shaft length 19.00, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o



### 131767 Drive

**Replacing:** 1846089, 1946089, 830622  
**Servicing:** 40MT, 50MT, 1113385, 1113408, 1113445, 1113474, 1113533, 1113693, 1114195  
 ID 15.90, OD 38.80, OD/housing 58.00, Total length 120.40, No./teeth 10, Rotation CW, Key spline w/o, Lock w/



### 131768 Drive

**Replacing:** 1918079, 1932031, 1985129, D2021  
**Servicing:** 40MT, 1108894, 1108895, 1109234, 1109237, 1109248, 1109823, 1109874, 1109891, 1113606  
 ID 19.00, OD 56.50, OD/housing 58.00, Total length 120.40, Shaft length 19.00, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o



### 131769 Drive

**Replacing:** 10499854, 1852410, 1852970, 1892899, 1918886C, 1921999, 1929402, 1930802, 1935992, 1941589, 1946220  
**Servicing:** 30MT, 10455304, 10455317, 10455321, 10455324, 10455325, 10455328, 10455332, 10455333, 10455340, 10455341  
 ID 14.30, OD 29.30, OD/housing 60.10, Total length 95.20, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131770 Drive

**Replacing:** 1893562, 1894214, 1947920, 1971167, 1977006, 800069  
**Servicing:** 40MT, 10461059, 10478820, 10478985, 1113830, 1113852, 1113871, 1113873, 1113941, 1113988  
 ID 15.90, OD 49.20/1.937", OD/housing 58.00, Total length 120.40, Shaft length 15.90, No./teeth 13, Rotation CW, Key spline w/o, Lock w/o



### 132119 Drive

**Replacing:** 1.01.0786.0  
**Servicing:** 1108638, 1108645  
 ID 11.50, OD 25.20, OD/housing 44.45, Total length 64.00, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o  
 Drive w/ lever: HC-CARGO 134859, 230757





### 132694 Drive

**Replacing:** 1828396, 1927200, 1931585, 1946221, 1971979, 1974396, D2002, D2006, D2029

**Servicing:** 8MT, 1107608, 1107621, 1107622, 1107623, 1107626, 1107627, 1107629, 1107631, 1107632, 1107633, 1107634

ID 12.00, OD 25.00, OD/housing 46.60, Total length 96.00, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132695 Drive

**Replacing:** 10471539, 10498407, 1984511, D2032, D2040, D2052

**Servicing:** 5MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018

ID 12.00, OD 25.00, OD/housing 43.35, Total length 69.15, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 132731 Drive

**Replacing:** 1894212, 1945879, 1970527, 1977004, 800067, 830621

**Servicing:** 40MT, 42MT, 50MT, 10478836, 10478851, 10478854, 10478857, 10478872, 10478874, 10478875, 10478892, 10478978, 10478979

ID 15.75, OD 56.30, OD/housing 58.00, Total length 120.70, Shaft length 15.90, No./teeth 11, Rotation CCW, Key spline w/o, Lock w/o



### 132732 Drive

**Replacing:** 1932604

**Servicing:** 40MT, 50MT, 1109179, 1109185  
ID 19.00, OD 46.20/1.819", OD/housing 46.00, Total length 118.00, Shaft length 19.00, No./teeth 12, Rotation CCW



### 132943 Drive

**Replacing:** 10469173, 10498527, D2048

**Servicing:** PMGR SERIES, 9000762, 9000735, 9000763, 9000773, 9000775, 9000776, 9000789, 9000796, 9000797

ID 12.00, OD 25.20, OD/housing 43.25, Total length 68.10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 133507 Drive

**Replacing:** 1986244, 1987152

**Servicing:** 37MT, 10478806, 10478814, 10478819, 10478890, 10478921, 10478928, 10478929, 10478930, 10478953, 10478957

ID 14.35, OD 39.50/1.555", OD/housing 60.00, Total length 99.00, Splines A 3, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 133545 Drive

**Replacing:** 10479522, 10497522, 1877345, 1947912, 1968131, 1970376, 1971706, D2037

**Servicing:** 10MT, 20MT, 22MT, 25MT, 27MT, 10455322, 10455329, 10455500, 1107573, 1107577, 1107586, 1107588, 1107589, 1107599, 1107863

ID 14.24, OD 31.50, OD/housing 59.75, Total length 96.95, Splines A 3, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 133854 Drive

**Replacing:** 10456455, 10457056, 10457167, D2053

**Servicing:** 28MT, 10465054, 10479604, 10479614, 10479615, 10479617, 10479618, 10479621, 10479628, 10479634

ID 14.00, OD 32.00, OD/housing 60.00, Total length 85.00, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o w/ rubber seal.



### 133864 Drive

**Replacing:** 1838065, 1916775, 1938065, A2000

ID 12.00, OD 25.80, OD/housing 46.20, Total length 77.00, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 133975 Drive

**Replacing:** 10457057, 10457579, D2054

**Servicing:** 28MT, 10479607, 1113274, 1113275, 1113278, 1113281, 1113282

ID 14.00, OD 40.00, OD/housing 60.00, Total length 85.00, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o w/ rubber seal.



### 133976 Drive

**Replacing:** 10457058, 10457168, D2055

**Servicing:** 28MT, 10479606, 10479613, 1113273, 1113279, 1113280

ID 14.00, OD 46.30, OD/housing 60.00, Total length 85.35, Splines A 12, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o w/ rubber seal.



### 135063 Drive

**Replacing:** 1.01.0612.0, 10468675, 10473700, 10477566, D2050, D2057

**Servicing:** SD210, SD260, 10455010, 10455011, 10455012, 10455013, 10455025

ID 12.00, OD 25.30, OD/housing 43.85, Total length 68.75, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o





**136318** Drive  
 Replacing: 1932188, 1974355, D2028  
 Servicing: 10MT, 1107208, 1107223, 1107270, 1107272, 1107279, 1107297, 1107354, 1107389, 1107397, 1107398, 1107641  
 ID 12.00, OD 25.40, OD/housing 46.40, Total length 75.50, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**136342** Drive  
 Replacing: 1.01.0752.0, 10472809, 10497257  
 Servicing: PG100, -150, 09000756, 9000700, 9000772, 9000785, 9000791, 9000802, X16478, 9000756, 9000758, 21020892, 21020893  
 ID 12.00, OD 25.25, OD/housing 43.50, Total length 63.40, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**137733** Drive  
 Replacing: 186798  
 ID 12.00, OD 27.75, OD/housing 46.35, Total length 51.70, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



**137760** Drive  
 Replacing: 10457121  
 Servicing: 28MT, 10479611, 10479616, 10479623, 10479656, 1113272, 1113277, 1113291, 10479629  
 ID 14.00, OD 32.00/1.260", OD/housing 60.00, Total length 85.45, Splines A 12, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o w/ rubber seal.  
 Alternative no.: 335652



**138128** Drive  
 Replacing: 10499852, 1877350, 1933838, 1947542, 1948877, 800965  
 Servicing: 10MT, 10455320, 10455323, 10455339, 1107341, 1107390, 1107532, 1107544  
 ID 14.30, OD 40.00, OD/housing 60.00, Total length 96.25, Splines A 3, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o



**138216** Drive  
 Replacing: 10475616  
 Servicing: PG260, 10465293, 8000193, 9000786, 9000798, 9000806, 9000819, 9000821, 9000834, 9000899, 8000321, 9000820  
 ID 12.00, OD 29.70, OD/housing 46.30, Total length 61.55, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 138216z



**138216Z** Drive  
 Replacing: 10475616  
 ID 12.00, OD 29.70, OD/housing 45.90, OD/teeth 29.70, Total length 61.75, No./teeth 11, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 138216



**230073** Drive  
 Replacing: 10475974  
 Servicing: PG105S, 09000794, 09000801, 10455506, 9000833, 9000837, 9000859, 96208782, 96208783, 96208785  
 ID 12.00, OD 25.25/1.016", OD/housing 43.25, Total length 45.25, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**230911** Drive  
 Replacing: 10472565  
 Servicing: 41MT, 10478812, 10478815, 10478817, 10478818, 10478925, 10478926, 10478961, 10478999, 10479013, 10479060  
 ID 15.90, OD 46.30/1.823", OD/housing 58.00, Total length 102.00, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 230911z



**230911Z** Drive  
 Replacing: 10472565  
 ID 15.90, OD 46.10, OD/housing 58.10, OD/teeth 46.10, Total length 102.15, No./teeth 12, Drive type Bronze, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 230911



**231789** Drive  
 Servicing: 10455503, 111089, 112847, 113136, 800264, 96275481, 96289430, 8000174, 96569440  
 ID 12.00, OD 28.35, OD/housing 43.15, Total length 45.30, Splines A 6, No./teeth 8, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 231789z



**231789Z** Drive  
 ID 12.00, OD 28.10, OD/housing 43.20, OD/teeth 28.10, Total length 45.65, No./teeth 8, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 231789





### 231965 Drive

Replacing: 10457122

Servicing: 28MT, 10479605, 10479608, 10479612  
ID 14.00, OD 40.00/1.575",  
OD/housing 60.00, Total length 86.00,  
Splines A 12, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 231966 Drive

Replacing: 10492409

Servicing: PG260F2, 22506694, 9000836,  
9000841, 9000842, 9000854, 9000857, 9000858,  
9000871, 9000872, 9000879, 9000880  
ID 12.00, OD 29.55, OD/housing 46.00,  
Total length 47.50, Splines A 6,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 231970 Drive

Replacing: 1893561, 1894218, 1894219,  
1953151, 1971277, 1977011, 800074

Servicing: 40MT, 42MT, 1113177, 1113477,  
113881, 1113888, 1113936, 1113961, 1113963  
ID 15.90, OD 46.00/1.831",  
Total length 120.50, No./teeth 12,  
Rotation CCW, Key spline w/o, Lock w/o



### 233173 Drive

Replacing: 1937554, 1943600, 1974641, 1974655

Servicing: 10MT, SD300, 10455602, 1107250,  
1107271, 1107285, 1107333, 1107610,  
1107611, 1107672, 1107723, 1107742  
ID 12.00, OD 25.35/1.016",  
OD/housing 46.40, Total length 93.85,  
Splines A 3, No./teeth 9,  
Rotation CCW, Key spline w/o, Lock w/o



### 233387 Drive

Replacing: 10457362

Servicing: 28MT, 10461470, 10479626,  
10479627, 19024204, DRX67095, DRX67131,  
DRX67149

ID 14.00, OD 35.50, OD/housing 60.00,  
Total length 85.50, Splines A 12,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 235050 Drive

Servicing: 110566, 111534, 17610-Q1010

ID 11.91, OD 35.62, OD/housing 48.82,  
Total length 48.50, Splines A 186,  
No./teeth 9, Key spline w/o, Lock w/o



### 238626 Drive

Servicing: 8000048, 8000387, 9000856,  
9000902, 9000934, 9000967, 12564089,  
8000180, 96430345, 96450663

ID 12.00, OD 25.00, OD/housing 46.45,  
Total length 47.25, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 330382 Drive

Servicing: 8000032

ID 12.05, OD 36.00,  
OD/housing 47.00, OD/teeth 36.00,  
Total length 61.40, Splines A 12,  
No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o



### 330545 Drive

Servicing: 8000129, 96843574

ID 12.01, OD 29.21, OD/housing 45.86,  
Total length 46.88, Splines A 6,  
No./teeth 9, Rotation CW



### 333444 Drive

Servicing: 10455513, 10455516, 8000153

ID 12.00, OD 32.00, OD/housing 43.30,  
OD/teeth 32.00, Total length 65.00,  
No./teeth 10, Drive type Steel,  
Rotation CCW



### 333745 Drive

Replacing: 8000300

Servicing: 8000169, 8000340

ID 12.00, OD 28.00, OD/housing 46.00,  
Total length 48.40, No./teeth 8,  
Drive type Steel, Rotation CW, Lock w/o



### 333938 Drive

Replacing: 10452348, 10501804, 10521484,  
89017523

ID 12.00, OD 25.40, OD/housing 46.00,  
OD/teeth 25.40, Total length 47.40,  
No./teeth 9, Drive type Steel,  
Rotation CW



### 333939 Drive

Replacing: 10500475

ID 12.00, OD 28.80, OD/housing 45.90,  
OD/teeth 28.80, Total length 47.00,  
No./teeth 9, Drive type Steel, Rotation CW





**334325** Drive  
 Replacing: 10515810, 10515811  
 Servicing: 8200054, 8200138  
 OD/housing 61.15, Total length 131.25,  
 Rotation CW



**335614** Drive  
 ID 12.00, OD 31.70, OD/housing 47.00,  
 Total length 61.50, Splines A 12,  
 No./teeth 10, Drive type Steel, Rotation CW



**335626** Drive  
 ID 12.00, OD 29.60, OD/housing 45.00,  
 Total length 46.50, Splines A 12,  
 No./teeth 9, Drive type Steel, Rotation CW



**335646** Drive  
 Replacing: 1985262  
 ID 14.30, OD 46.40, OD/housing 60.00,  
 Total length 99.00, Splines A 3,  
 No./teeth 12, Rotation CW  
 Alternative no.: 131481



**335652** Drive  
 Replacing: 10457121  
 Servicing: 10479611, 10479616, 10479623,  
 10479629, 1113272, 1113291, 10479656  
 ID 14.00, OD 32.1, OD/housing 62.00,  
 Total length 85.50, Splines A 12,  
 No./teeth 10, Drive type Steel, Rotation CW  
 Alternative no.: 137760



**335719** Drive  
 Servicing: 8000400  
 ID 12.00, OD 29.40, OD/housing 47.00,  
 Total length 40.50, Splines A 8,  
 No./teeth 9, Drive type Steel,  
 Rotation CW



**337189** Drive  
 ID 12.00, OD 34.90, OD/housing 46.00,  
 Total length 39.90, No./teeth 11,  
 Rotation CW

### Drive Parts

#### Caps



**134252** Drive Cap  
 ID 41.66, OD 43.00, Height 17.80

#### Rollers



**134240** Roller  
 OD 7.50, Length 12.75



**134242** Roller  
 OD 4.50, Length 7.45



**231879** Roller  
 OD 5.20, Length 8.90



**238881** Roller  
 OD 8.50, Length 24.00



**332667** Roller  
 Servicing: 8000396  
 OD 5.35, Length 11.10

### Springs



**139835** Dp Springs  
 Length 23.20, Height 20.90, Width 6.00,  
 Material Steel

### Pinion



**235678** Pinion  
 Replacing: 10511406, 10511838  
 Servicing: 10461757, 10461758, 10461759,  
 10461760, 19011510, 19011511, 19011512,  
 19011515, 19011517, 19011524  
 ID 16.60, OD 45.91, Height 26.00,  
 Height/collar 3.16, No./splines 23,  
 No./teeth 12, Bushing w/o

Pkg. 10

Pkg. 100

Pkg. 100

Pkg. 20

Pkg. 1000

Pkg. 500

Pkg. 100



## Planet Gears



### 238614 Planet Gear

Servicing: 12564089, 8000048, 8000180, 8000387, 9000856, 9000902, 9000934, 9000967, 96550792  
Total length 111.20, No./splines 12

## Gear Parts

### Gear Shafts



### 232990 Gear Shaft

Replacing: 10475626

Servicing: PG260M, 9000786, 9000798, 9000804, 9000805, 9000806, 9000812, 9000820, 9000822, 9000827, 9000834, 9000835  
OD/shaft 22.20, Total length 165.00, No./splines 12

## Outer Gear



Pkg. 5

### 138213 Outer Gear

Replacing: 10475632

Servicing: PG260, 9000786, 9000798, 9000805, 9000806, 9000812, 9000820, 9000822, 9000834  
ID 46.25, OD 66.57, Height 34.84, Height/collar 6.20, No./teeth 48, Bushing w/

Pkg. 5



### 232360 Outer Gear

Replacing: 10450720

Servicing: PG260F2, 22506694, 8000396, 9000836, 9000884

ID 49.60, OD 61.45, Height 29.50, Height/collar 4.13, No./teeth 43, Bushing w/



### 337471 Outer Gear

Servicing: 36100-2A950, 8000675  
ID 22.25, OD 62.50, OD 2 67.80, Height 26.50

## Gear Wheels



Pkg. 3

### 232989 Gear Wheel

Replacing: 10475578

Servicing: PG260M, 9000786, 9000798, 9000804, 9000805, 9000806, 9000812, 9000820, 9000822, 9000827, 9000834, 9000835

ID 6.00, OD 19.35, Height 11.00, No./teeth 18, Bushing w/ Bushing: HC-CARGO 140939.

Pkg. 3



### 233016 Gear Wheel

Servicing: PG260F2, 22506694, 8000396, 9000836, 9000841, 9000854, 9000857, 9000858, 9000884

ID 6.00, OD 20.55, Height 11.45, No./teeth 16, Bushing w/ Bushing: HC-CARGO 140939.

Pkg. 10



### 235687 Gear Wheel

Replacing: 10511731, 235687

Servicing: 38MT, 39MT

ID 9.10, OD 24.00, Height 13.00, Height/collar 0.20, No./teeth 14, Bushing w/o

## Levers



### 131353 Lever

Replacing: 1988097

Servicing: 41MT, 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803

Dist. 36.60, ID 12.90, Length 121.35, Plunger w/o

Pin kit: HC-CARGO 230362.



### 131358 Lever

Replacing: 1985237

Servicing: 37MT, 10461169, 10478805, 10478806, 10478811, 10478814, 10478819, 10478825, 10478826, 10478890, 10478897

Dist. 42.70, ID 12.60, Length 121.60, Plunger w/o

Pin kit: HC-CARGO 230362.



### 131408 Lever

Replacing: 1932205, 1951567, D4908

Servicing: 25MT, 10455304, 10455306, 10455309, 10455310, 10455311, 10455312, 10455314, 10455315, 10455316, 10455317

Dist. 38.75, ID 8.15, Length 103.90, Plunger w/o



### 134839 Lever

Replacing: 10456464

Servicing: 28MT, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479613

Dist. 36.65, ID 6.00, Length 102.35, Plunger w/o





### 138214 Lever

Replacing: 10476604

Servicing: PG260, 8000032, 8000193, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822

Dist. 26.20, Length 78.65, Plunger w/o  
Support: HC-CARGO 138215.



### 232826 Lever

Servicing: PG260F2, 8000129, 22506694, 9000836, 9000873, 9000879, 9000881, 9000884, 9000885, 9000889, 9000895, 96450663

Dist. 26.80, Length 80.45, Plunger w/o

Pkg. 5



### 235040 Lever

Servicing: 10455503, 96275481

Dist. 24.00, Length 81.60, Plunger w/o

#### Lever Parts

#### Various



### 138215 Lever Support

Replacing: 10475639

Servicing: PG260, 8000032, 8000193, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822

ID 7.40, Length 29.85, Plunger w/o  
Lever: HC-CARGO 138214.



### 230362 Lever Pin Kit

Replacing: 9415235

Servicing: 30MT, 35MT, 10478864, 1109220, 1109221, 1109222, 1109224, 1109274, 1109275, 1109276, 1109277, 1109278, 1109279

OD 12.70, Length 58.00

Pkg. 5



### 230513 Lever Stud

Replacing: 1945472, 1948529

Servicing: 37MT, 40MT, 41MT, 42MT, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048

OD 12.65, Length 58.45

## Clutches



### 235715 Clutch

OD 18.00, Shaft OD/front 25.00,  
Total length 144.10, No./splines 23

## Brush Gears



### 130520 Brush Gear

Replacing: 1945517, 1948515

Servicing: 40MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1113818, 1113820

12/24 Volt, ID 54.15, OD 107.00,  
Height 53.50

Brush set: HC-CARGO RX698, RX708.



### 130523 Brush Gear

Replacing: 1945849, 1967354

Servicing: 50MT, 10478827, 10478828, 10478829, 10478919, 1109220, 1109221, 1109222, 1109224, 1109274, 1109275

ID 59.50, OD 117.90, Height 54.00

Brush set: HC-CARGO RX9212.



### 131346 Brush Gear

Replacing: 1979387, 1979494

Servicing: 40MT 400/450, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1114802, 1114805

ID 55.50, OD 106.45, Height 51.60

Brush set: HC-CARGO RX122H4, RX1224.



### 131352 Brush Gear

Replacing: 1988121, 1988122, 1988439

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478809, 10478810, 10478820

ID 59.90, OD 127.20, Height 43.60

Brush set: HC-CARGO RX1344, RX134h4.  
Insulated.



### 131482 Brush Gear

Replacing: 1981974, 1984974, 1985065

Servicing: 50MT 400, 10478807, 10478808, 10478813, 10478843, 10478844, 10478845, 10478846, 10478848, 10478849, 10478850

ID 52.00, OD 117.20, Height 51.35

Brush set: HC-CARGO RX124H6.





### 134675 Brush Gear

Replacing: 3471783

Servicing: 154, 3471155, 150, 155, 162, 163, 165, 168, 169, 172, 173, 174, 176, 177, 3471150, 3471154, 3471162

ID 51.80, OD 76.00, Height 20.90

Brush set: HC-CARGO 140813, 140814, 140815.



### 134842 Brush Gear

Replacing: 10456456

Servicing: 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612

ID 41.70, OD 77.30, Height 29.45

Brush set: HC-CARGO 140600, 140732. Brush spring: HC-CARGO 134843.



### 135720 Brush Gear

Replacing: 10468705, 10468706, 10469238, 10470140

Servicing: 37MT, 41MT, 10478805, 10478806, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819, 10478925

ID 59.85, OD 127.00, Height 35.55

Brush set: HC-CARGO RX1354, RX135H4.



### 138537 Brush Gear

Replacing: 85540341

Servicing: 1100389

12 Volt, ID 11.00, OD 74.00

2.2 kW. Neg. brushes. Brush set: HC-CARGO JSX31-32.



### 138538 Brush Gear

Replacing: 85540351

Servicing: 1117116, 1117119, 1117125, 1117126, 1117127

12 Volt, ID 18.45, OD 73.65,

Height 6.00

Neg. brushes. Brush set: HC-CARGO JSX21-22.



### 230391 Brush Gear

Replacing: 10476006

Servicing: PG150, PG150S, PG260F1, 09000794, 09000801, 96208782, 9000794, 9000795, 9000817, 9000824, 96450663

12 Volt, ID 34.72, OD 66.00,

Lead length 38.45, Height 20.85

Brush set: HC-CARGO 141045.



### 230396 Brush Gear

Replacing: 10475602

Servicing: PG260M, 8000032, 8000129, 8000193, 9000786, 9000798, 9000804, 9000805, 9000806, 9000812, 9000819, 9000820

12 Volt, ID 36.00, OD 57.75,

Lead length 58.85, Height 27.80



### 230682 Brush Gear

Replacing: 10467164, 10497269

Servicing: PG100, 09000756, 9000700, 9000751, 9000756, 9000802, X16478

12 Volt, ID 33.65, OD 65.90,

Lead length 37.00, Height 19.40

Brush set: HC-CARGO 140755.



### 232968 Brush Gear

Replacing: 10472352

Servicing: PG150, PG260F1, 21020761, 21020893, 21021366, 9000833, 9000839, 9000840, 9000847, 9000859, 9000871, 9000872

12 Volt, ID 26.00, OD 66.00,

Lead length 41.95, Height 21.00



### 232984 Brush Gear

Replacing: 10493840

Servicing: PG260F2, 22506694, 24605594, 9000836

12 Volt, ID 31.90, OD 68.30,

Lead length 91.80, Height 22.50



### 234768 Brush Gear

Replacing: 10453919

Servicing: PG260L, -M, 10465578, 12564108, 12570823, 3231471, 9000879, 9000885, 9000889, 9000895

12 Volt, ID 32.50, OD 68.75,

Height 23.00

Neg. brushes. Positive Brush: HC-CARGO 141242.



### 235390 Brush Gear

12 Volt, ID 34.00, OD 64.00,

Lead length 35.00, Height 15.00





**235500** Brush Gear  
 Replacing: 10468891, 10468892, 10470208  
 Servicing: 10461082, 10461110, 10461169, 10461170, 10461171, 10461181, 10461182, 10461209, 10461210, 10461227  
 12/24 Volt, ID 59.85, OD 127.10, Height 31.30  
 Brush set: HC-CARGO RX1354 (12 V), RX135H4 (24 V), 140600, 140732. Insulated.



**237851** Brush Gear  
 Servicing: 39MT, 19011501, 19024196  
 24 Volt, ID 40.92, OD 83.08, Height 36.53  
 Brush set: HC-CARGO 142006.



**239582** Brush Gear  
 Servicing: 113136, 8000174, 96467385  
 12 Volt, ID 31.42



**333422** Brush gear  
 Replacing: 10475107  
 Servicing: 10455506, 800264, 96275481, 96289430  
 ID 34.00, OD 68.00, Lead length 24.50, Height 16.60

## Brush Gear Parts

### Brush Holders



**131406** Brush Holder Kit  
 Servicing: 8MT, 10MT, 20MT, 22MT, 25MT, 27MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455340, 10455355, 10455603, 10496873

Pkg. 5



**132113** Brush Gear  
 Replacing: 1926618, 1938587, 1946414, 1950546, 1950946, 1955046, 1988414, 800091  
 Servicing: 30MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312  
 OD 16.15, Height 39.45



**132876** Brush Holder Kit  
 Servicing: 30MT, 35MT, 1107557, 1109563, 1113589, 1113594, 1113598, 1998337, 1998339, 1998347, 1998455  
 Grounded.

### Brush Springs

Pkg. 10



**133197** Brush Spring  
 Servicing: 154  
 ID 8.30, OD 10.00, Length 18.60, Material Steel



**134843** Brush Spring set  
 Replacing: 10456460  
 Servicing: 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612  
 OD 14.40, Length 26.40, Width 8.20, Material Steel

### Various

Pkg. 10



**233001** Insulator  
 Replacing: 1964516  
 Servicing: 50MT, 10478800, 10478807, 10478808, 10478813, 10478827, 10478828, 10478829, 10478830, 10478843, 10478844

### Brush Sets



**140600** Brush Set  
 Replacing: 10456457, 10456458  
 Servicing: 28MT, 10465054, 10479604, 10479606, 10479607, 10479613, 10479614  
 12 Volt, Length 19.60, Lead length 37.00, Lead length 2 51.00, Height 25.00, Thickness 8.00



**140732** Brush Set  
 Replacing: 10457119, 10457120  
 Servicing: 28MT, 10461470, 10479600, 10479605, 10479608, 10479611, 10479612  
 24 Volt, Length 20.00, Lead length 49.00, Lead length 2 37.00, Height 25.00, Thickness 8.00





### 140737 Brush Set

Servicing: SD210, SD260, 10455010, 10455011, 10455013, 10455025, 10455042, 10455048, 10455050, 10455053, 10455054, 10455070

12 Volt, Length 15.00,  
Lead length 128.50, Lead length 2 28.50,  
Height 15.00, Thickness 6.60

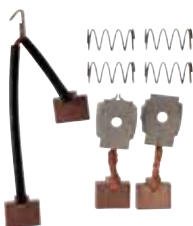


### 140755 Brush Set

Replacing: 1852898

Servicing: PG100, 21020892, 21021648, 9000751, 9000756, 9000758, 9000700, 9000802, X16478

12 Volt, Length 14.00,  
Lead length 35.50, Height 15.00,  
Thickness 5.50

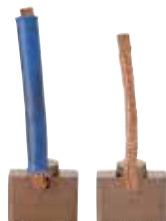


### 140812 Brush Set

Replacing: 3471505, DR700

Servicing: 3471144, 3471152, 141, 152, 3471141, 3471143

12 Volt, Length 14.00,  
Lead length 86.00,  
Lead length 2 46.00/28.00,  
Height 16.00, Thickness 6.00



### 140813 Brush Set

Replacing: 3471625

Servicing: 150, 168, 172, 3471150, 3471168, 3471172, 3471393

12 Volt, Length 14.00,  
Lead length 43.00, Lead length 2 36.50,  
Height 16.00, Thickness 6.00



### 140814 Brush Set

Replacing: 3471764

Servicing: 3471153, 3471154, 3471157, 3471162, 3471164, 3471165

12 Volt, Length 14.00,  
Lead length 83.00, Lead length 2 37.00,  
Height 16.00, Thickness 6.00



### 140815 Brush Set

Replacing: 3471834

Servicing: 3471153, 3471154, 3471155, 3471162, 3471164, 3471165, 3471169, 3471170, 3471173, 3471174, 3471175

12 Volt, Length 14.00,  
Lead length 43.00, Lead length 2 84.00,  
Height 16.00, Thickness 6.00



### 140943 Brush Set

Replacing: 10499524, 140943

Servicing: PG260, 8000032, 8000129, 8000193, 9000819, 9000821, 9000899, 9000786, 9000798, 9000805, 9000806, 9000812

12 Volt, Length 16.00,  
Lead length 28.00, Height 19.00,  
Thickness 6.00



### 141045 Brush Set

Replacing: 10484034

Servicing: PG260F1, 8000396, 96208782, 9000772, 9000785, 9000791, 9000794, 9000795, 9000817, 9000824, 9000884, 96208783

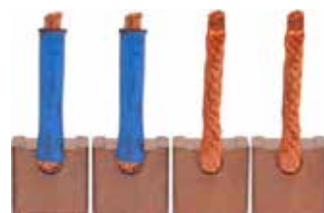
12 Volt, Length 11.00, Lead length 29.50,  
Height 16.00, Thickness 5.00



### 141190 Brush Set

Servicing: 10455503, 111089, 112847, 800264, 96275481, 96289430, 96208781, 96569440

12 Volt, Length 12.00,  
Lead length 38.00, Lead length 2 26.00,  
Height 12.90, Thickness 4.45



### 141230 Brush Set

Servicing: 00E091, 110397, 110566, 111534, 112161, 500340, 17610-Q1010, CER3087

12 Volt, Length 17.50,  
Lead length 36.00, Height 18.00,  
Thickness 8.00



### 142043 Brush Set

Servicing: PG260D, 12564089, 8000048, 8000387, 9000856, 9000902, 9000934, 9000967, 8000180, 96550792

12 Volt, Length 12.50/11.50,  
Lead length 27.00, Height 15.00,  
Thickness 5.00

## Brushes



### 141242 Brush

Servicing: PG260L, -M, 10453919, 10465521, 9000879, 9000885, 9000889, 9000895

12 Volt, Length 15.00,  
Lead length 115.50, Height 18.00,  
Thickness 5.00

Brush set: HC-CARGO 141270.



## Bushings

Pkg. 10



### 140036 Bushing

Replacing: 3471553

Servicing: 3471143, 3471144, 3471150, 3471152, 3471153, 3471154, 3471155, 3471157, 3471159, 3471162, 3471163

ID 12.11, OD 14.08, Length 14.00, Material Copper, Pin w/o  
Alternative no.: B140036

Pkg. 10



### 140053 Bushing

Replacing: 10472567

Servicing: 37MT, 10478812, 10478815, 10478817, 10478818, 10478897, 10478898, 10478925, 10478926, 10478961, 10478999

ID 15.99, OD 19.15, Length 18.90, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140053

Pkg. 10



### 140064 Bushing

Replacing: 35070

ID 12.06, OD 15.07, Length 19.90, Type Standard, Material Copper, Pin w/o  
Alternative no.: B140064

Pkg. 10



### 140070 Bushing

Replacing: 1894636, 38273, D1666

Servicing: 40MT, 1009812, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1108701

ID 14.37, OD 19.17, Length 24.60, Material Copper, Pin w/o

Pkg. 10



### 140071 Bushing

Replacing: 1943628, D1674

Servicing: 35MT, 37MT, 40MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10461169, 10478801, 10478802

ID 14.36, OD 19.17, Length 19.10, Material Copper, Pin w/o

Pkg. 10



### 140074 Bushing

Replacing: 1894635, 1942258, 1945509, 1955991, 1955994, D1684

Servicing: 40MT, 50MT, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048

ID 15.97, OD 19.20, Length 21.90, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140181 Bushing

Replacing: 1938743, 35058, 810620, D1676

Servicing: 5MT, 8MT, 10MT, 25MT, 27MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455340, 10455603, 10496873, 10496874, 1107203

ID 14.37, OD 16.03, Length 16.40, Type Standard, Material Copper, Pin w/o

Pkg. 5



### 140183 Bushing

Replacing: 1923904, 1932190, D1688

Servicing: 5MT, 10MT, 10455010, 10455011, 10455016, 10455017, 10455019, 10455025, 10455048, 10455053, 10455054, 10455300

ID 12.00, OD 13.17, Length 12.75, Material Copper, Pin w/o

Pkg. 5



### 140185 Bushing

Replacing: 1836505, 1839345, 1839348, 1939345, D1680

Servicing: 25MT, 27MT, 1007003, 1107001, 1107005, 1107007, 1107008, 1107009, 1107013, 1107018, 1107019, 1107022, 1107023

ID 12.75, OD 14.30, Length 19.85, Material Copper, Pin w/o

Pkg. 5



### 140206 Bushing

Replacing: 1988096

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803

ID 21.30, OD 24.40, Length 25.00, Type Standard, Material Copper, Pin w/o

Pkg. 5



### 140214 Bushing

Replacing: 1985234

Servicing: 37MT, 10461169, 10478805, 10478806, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819

ID 22.53, OD 25.67, Length 25.40, Material Copper, Pin w/o

Pkg. 5



### 140215 Bushing

Replacing: 1872678, 1891927, D1671

Servicing: 35MT, 10455304, 10455355, 10455500, 1107051, 1107071, 1107081, 1107086, 1107090, 1107117, 1107146

ID 14.35, OD 17.55, Length 19.00, Material Copper, Pin w/o





Pkg. 5

### 140217 Bushing

Replacing: 1862383, D1689

Servicing: 20MT, 10455304, 10455312, 10455316, 10455317, 10455318, 10455319, 10455320, 10455321, 10455322, 10455323

ID 12.73, OD 15.91, Length 19.80,  
Material Copper, Pin w/o

Pkg. 10



### 140262 Bushing

ID 12.16, OD 13.20, Length 12.65,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140262

Pkg. 10



### 140268 Bushing

ID 12.09, OD 16.00, Length 12.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140268

Pkg. 10



### 140269 Bushing

ID 12.03, OD 16.02, Length 17.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140269

Pkg. 5



### 140404 Bushing

Replacing: 1962606

Servicing: 10MT, 20MT, 22MT, 25MT, 27MT, 10455322, 10455324, 10455325, 10455326, 10455331, 10455500, 1107295, 1107296, 1107297, 1107308

ID 19.15, OD 31.85, Length 10.29,  
Material Copper, Pin w/o


Pkg. 10

### 140406 Bushing

Replacing: 1933999

Servicing: 30MT, 35MT, 1109219, 1113031, 1113059, 1113089, 1113090, 1113100, 1113101, 1113111, 1113113, 1113114, 1113115

ID 19.30, OD 22.60, Length 19.25,  
Material Copper, Pin w/o

Pkg. 5



### 140477 Bushing

Replacing: 1894637, 1923484

Servicing: 40MT, 50MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807

ID 21.24, OD 24.50, Length 31.70,  
Material Copper, Pin w/o

Pkg. 5



### 140478 Bushing

Replacing: 1869755, 1894638

Servicing: 50MT, 10478800, 10478807, 10478808, 10478813, 10478827, 10478828, 10478829, 10478830, 10478843, 10478844

ID 17.50, OD 22.35, Length 28.50,  
Material Copper, Pin w/o

Pkg. 10



### 140601 Bushing

Replacing: 10456459

Servicing: 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612

ID 14.03, OD 17.00, Length 16.20,  
Material Copper, Pin w/o


Pkg. 10

### 140776 Bushing

Replacing: 1894023

Servicing: 10MT, 20MT, 22MT, 25MT, 27MT, 10455317, 10455318, 10455319, 10455321, 10455327, 10455336, 1107146, 1107588, 1108239, 1108240

ID 19.00, OD 22.00, Length 18.00,  
Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140939 Bushing

Replacing: 10475580

Servicing: PG260, 22506694, 9000786, 9000798, 9000805, 9000806, 9000812, 9000820, 9000822, 9000834, 9000836, 9000884

ID 6.07, OD 8.75, Length 10.80,  
Material Copper, Pin w/o

Pkg. 5



### 140940 Bushing

Replacing: 10475582

Servicing: PG260, 8000032, 8000129, 8000193, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821

ID 9.90, OD 16.60, Length 8.05,  
Material Copper, Pin w/o

Pkg. 5



### 140941 Bushing

Replacing: 10475631

Servicing: PG260, 9000786, 9000798, 9000805, 9000806, 9000812, 9000820, 9000822, 9000834

ID 8.10, OD 11.90, Length 9.10,  
Material Copper, Pin w/o





### 140942 Bushing

Replacing: 10476599

Servicing: PG260, 22506694, 9000786, 9000798, 9000805, 9000806, 9000812, 9000820, 9000822, 9000834, 9000836

ID 22.35, OD 26.70, Length 9.00, Material Copper, Pin w/o

Pkg. 5



### 140944 Bushing

Replacing: 1957017

Servicing: 8MT, 10MT, 25MT, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455314, 10455315

ID 19.35, OD 20.60, Length 9.50, Material Copper, Pin w/o

Pkg. 5



### 141046 Bushing

Servicing: PG150, PG260F1, 9000817, 9000824

ID 6.10, OD 10.05, Length 10.40, Material Copper, Pin w/o

Pkg. 5



### 141047 Bushing

Servicing: PG260F1, 00E091, 110397, 112161, 9000817, 9000824, CER3087

ID 8.10, OD 12.00, Length 6.80, Material Copper, Pin w/o

Pkg. 5



### 141048# Bushing

Servicing: PG260F1, 9000817, 9000824

ID 22.34, OD 28.65, Length 9.00, Material Copper, Pin w/o

Pkg. 5



### 141122 Bushing

Servicing: PG260F2, -G, -L, 22506694, 9000836, 9000884

ID 10.00, OD 14.05, Length 9.35, Material Copper, Pin w/o

Pkg. 10



### 141123 Bushing

Replacing: 1923907, D1682

Servicing: 8MT, 10MT, SD300, 8000396

ID 12.04, OD 13.20, Length 18.30, Material Copper, Pin w/o

Pkg. 10



### 141127 Bushing

Replacing: 10457076

Servicing: 28MT, 10479619

ID 13.00, OD 16.00, Length 15.90, Material Copper, Pin w/o

Pkg. 5



### 141128 Bushing

Servicing: 28MT,

ID 14.04, OD 16.02, Length 16.00, Material Copper, Pin w/o

Pkg. 10



### 141202 Bushing

Servicing: 112847, 113136, 800264, 96275481, 96289430, 8000174, 96569440

ID 10.03, OD 14.00, OD/collar 18.42, Length 10.00, Height/collar 2.00, Material Copper, Pin w/o

Pkg. 10



### 141257 Bushing

Servicing: 9000879, 9000884, 9000885, 9000895, 96450663

ID 10.10, OD 12.80, OD/collar 15.90, Length 12.50, Height/collar 3.00, Material Copper, Pin w/o

Pkg. 10



### 142044 Bushing

Servicing: 12564089, 8000048, 8000387, 9000856, 9000902, 9000934, 9000967, 8000180, 96550792

ID 6.00, OD 8.79, OD/collar 12.21, Length 11.65, Height/collar 3.00, Type Standard, Material Copper, Pin w/o

Pkg. 10

Pkg. 100



### B140036 Bushing

Replacing: 3471553

Servicing: 154

ID 12.11, OD 14.08, Length 14.00, Material Copper, Pin w/o  
Alternative no.: 140036

Pkg. 100



### B140053# Bushing

Replacing: 10472567

ID 15.99, OD 19.15, Length 18.90, Material Copper, Pin w/o  
Alternative no.: 140053





### B140064 Bushing

Replacing: 35070

ID 12.06, OD 15.07, Length 19.90,  
Material Copper, Pin w/o

Alternative no.: 140064

Pkg. 100



### B140262 Bushing

Replacing: B140262

ID 12.16, OD 13.20, Length 12.65,  
Material Copper, Pin w/o

Alternative no.: 140262

Pkg. 100

## Bearings

### Needle Bearings



### 140115 FAG Needle Bearing

Replacing: 3472455, 7982870

Servicing: 014, 018, 022, 023, 024, 026,  
027, 028, 032, 033, 035, 037, 038, 042, 048,  
049, 050, 051, 052, 053

ID 11.00, OD 17.50, Height 16.50

Closed end.

Pkg. 5



### 140120 FAG Needle Bearing

Replacing: 1957004, 7451326, 7451763,  
7451931, 7454763, 9418076, 9424225,  
9427225, 9432068, 9436831, 9437305

Servicing: 10SI, 12SI, 15SI, 17SI, 27SI, A127,  
10479823, 10479825, 10479826, 10479827,  
10479832, 10479833, 10479834, 10479858,  
10479860, 10479862

ID 17.00, OD 23.80, Height 17.40

Closed end.

Pkg. 10



### 140136 FAG Needle Bearing

Replacing: 7451782, 9437171

Servicing: 20SI, 27SI TYPE 200, 1100056,  
1100057, 1100061, 1100062, 1100066, 1100067,  
1100071, 1100072, 1100073, 1100075, 1100076

ID 17.00, OD 23.80, Height 32.00

Closed end.

Pkg. 5



### 140228 Needle Bearing

Replacing: 9436064

Servicing: 25SI, 27SI, 10459002, 10459003,  
10459004, 10459005, 10459006, 10459007,  
10459008, 10459009, 10459010, 1100094

ID 22.20, OD 30.20, Height 20.50

Pkg. 5



### 140240 FAG Needle Bearing

Replacing: 9433301, 9437211, 9437221, 9437222

Servicing: 10DN SERIES, A127 W/ VACUUM  
PUMP, 1100619, 1100653, 1100654, 1100721,  
1100722, 1100732, 1100735, 1100773,  
1100806, 1100821, 1100822

ID 17.00, OD 23.80, Height 17.40

Open end.

Pkg. 10



### 140241 Needle Bearing

Replacing: 1975322, 3874074

Servicing: 15SI, 1100183, 1100184, 1100187,  
1100190, 1100192, 1100193, 1100194,  
1100195, 1100219, 1100223, 1100224

ID 17.00, OD 23.80, Height 20.60

Closed end.

Pkg. 5



### 140242 FAG Needle Bearing

Replacing: 9440923, MC189A

Servicing: PMGR SERIES, M78, M79, 00E091,  
09000794, 09000801, 10455506, 10461334,  
110397, 110566, 111089, 112161, 112847,  
113136

ID 12.00, OD 16.00, Height 10.00

Pkg. 10



### 140468 5★ Needle Bearing

Replacing: HK0810, TLA810Z

Servicing: 9000719, 9000735, 9000751,  
9000756, 9000758, 9000762, 9000763,  
9000773, 9000796, 21020892, 21020893

ID 8.00, OD 12.00, Height 10.00

Pkg. 5



### 140751 5★ Needle Bearing

Replacing: 9441510

Servicing: PG100, -150, 09000756, 21020892,  
21020893, 21021366, 21021648, 9000751,  
9000756, 9000758, 96208782, 9000772

ID 8.00, OD 12.00, Height 7.88

Pkg. 5



### 140772 Needle Bearing

Replacing: 10472936, 9439542

Servicing: 15SI/116, 21SI, 10479924,  
10479925, 10479926, 10479927, 10479929,  
10479930, 1101194, 1101205, 1101439,  
1101440

ID 17.00, OD 23.80, Height 22.00

w/ double seal. w/ closed end.

Pkg. 5





### 140773 Needle Bearing

Replacng: 10470411, 10474368, 10476418, 10491309

Servicing: CS114, 10479817, 10479821, 10480120, 1101578, 1101590, 1101819, 1101844, 1101847, 1101850, 1102605

ID 17.00, OD 23.80, Height 17.00

Closed end. Used w/ inner race: HC-CARGO 141111.

Pkg. 5



### 131500 Repair Kit

Servicing: 42MT



### 131501 Repair Kit

Servicing: 42MT, DELCO 24 V, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478980, 10478986, 10478998



### 132589 Repair Kit

Servicing: 37MT



### 132590 Repair Kit

Servicing: 37MT



### 137062 Repair Kit

Servicing: 50MT 400, 450 SERIES, DELCO, 10478864

24 V.



### 137064 Repair Kit

Servicing: 50MT, 10478864



### 230539 Terminal Kit

Replacng: 10498663, 1979451, 1988339, 1988340

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048



### 232659 Terminal Kit

Replacng: 10479703

Servicing: 21SI, 22SI, 1117897, 1117900, 1117944, 1117949, 19010108, 19010111, 19010182, 19010185, 19010193, 19020382



### 232937 Repair Kit

Servicing: 10MT, 20MT, 22MT, 25MT, 27MT

## Sundry Parts

### Bracket Parts

### Mounting Bushings

Pkg. 10



### 142092 Bushing

Servicing: 8000396, 36100-2A950, 8000675

ID 10.00, OD 12.85, OD/collar 16.00, Length 11.50, Height/collar 3.00



### 141247 Needle Bearing

Servicing: 110397, 112161

ID 9.00, OD 13.00, Height 8.00

Pkg. 10

## Repair Kits



### 130519 Repair Kit

Servicing: 40MT 200, 250, 300 SERIES, 1113818, 1113824, 1113825, 1113827, 1113840, 1113842, 1113846, 1113849, 1113850, 1113851, 1113853 24 V.



### 130529 Repair Kit

Servicing: 50MT 250, 300 SERIES

24 V.



### 131490 Repair Kit

Servicing: 30MT, 35MT, 1113652, 1113683



## Through Bolts

Pkg. 20



### 191584 Through Bolt

Replacing: 10475057

Servicing: 10455506, 177, 3471177, 96569440  
Thread M5, Length 125.00, Thread length 60.00,  
Head type Cheese head, Colour Black,  
Coating Electro galvanized, Material Steel

Pkg. 2



### 230418# Through Bolt

Replacing: 1893453

Servicing: 20MT, 22MT, 25MT, 27MT, 10455500,  
1107557, 1109212, 1109213, 1109214, 1109215,  
1109216, 1109217, 1109218, 1109495, 1113593  
Total length 189.00, Length/rear collar 183.00,  
Thread length 24.10, Thread size 1/4" UNC,  
Shaft w/, Washer w/o

Pkg. 10



### 232051 Through Bolt

Replacing: 10473999, 1989624

Servicing: CS121, CS130, 00219091, 00219099,  
10463011, 10463012, 10463015, 10463172,  
10463176, 10463187, 10463197, 10479097  
Total length 72.35, Length/rear collar 66.00,  
Thread length 20.40, Thread size M5, Shaft w/

Pkg. 10



### 232637 Through Bolt

Replacing: 1894445, 1989690

Servicing: 20SI, 21SI, 29SI, CS144, 10479809,  
10479817, 10479836, 10479838, 10479839,  
10479843, 10479844, 10479847, 10479852, 10479853  
Total length 2 5/8", Length/rear collar 2 1/2",  
Thread length 1 3/32",  
Thread size 10-24 UNC, Shaft w/  
Hex washer head, 5/16" drive.

## Screws

Pkg. 10



### 134077 Screw

Replacing: 10475002, 1989650, 1989681

Servicing: CS121, -130, 00219091, 00219099,  
10463011, 10463012, 10463015, 10463172,  
10463176, 10463187, 10463197, 10463651

Thread M4, Total length 25.30,  
Thread length 18.00, Washer w/  
E5 torx.

Pkg. 10



### 232992 Solenoid Screw

Replacing: 10475636

Servicing: PG260F1, PG260F2, PG260M,  
10479806, 10479816, 10479920, 10479923,  
10479990, 10479999, 10480000, 10480071,  
10480073, 10480095

Thread M4-0.70, Total length 26.25,  
Thread length 13.70, Slot type Torx,  
Shaft w/, Washer w/o  
E5 torx.

Pkg. 10



### 233425 Screw

Replacing: 1876681

Servicing: 10SI, 12SI, 15SI, 17SI, 10479823,  
10479825, 10479826, 10479827, 10479832,  
10479833, 10479834, 10479858, 10479860,  
10479862

Thread 8.00-32.00, Total length 1 1/4",  
Shaft w/, Washer w/o  
w/ insulator for brush holder.

Pkg. 10



### 233431 Screw

Replacing: 1976061

Servicing: 20SI, 26SI, 29SI, 30SI, 33SI, 34SI,  
CS144, 058, 070, 10459002, 10459004,  
10459008, 10459009, 10459010, 1117067,  
1117068, 1117160, 1117161

Thread 8.00-32.00, Total length 28.35,  
Shaft w/, Washer w/o

Pkg. 10



### 233434# Screw

Replacing: 1968945

Servicing: 20SI, 25SI, 26SI, 29SI, 30SI,  
10459002, 10459003, 10459004, 10459005,  
10459006, 10459007, 10459008, 10459009,  
10459010, 1100072

Thread 10.00-24.00, Total length 1",  
Thread length 13/16", Shaft w/, Washer w/o

Pkg. 5



### 233681 Screw

Replacing: 10475737

Servicing: CS130D, 082, 091, 10463940,  
10479914, 10479923, 10479955, 10479991,  
10480017, 10480071, 10480072, 10480119

Thread 8.00-32.00, Total length 1",  
Thread length 1/2", Slot type Torx,  
Shaft w/, Washer w/o

## Nuts

Pkg. 200



### 191307 Hex Flange Nut

Replacing: 1989649

Servicing: CS121, -130, 00219091, 00219099,  
10479949, 10480000, 10480073, 1101199,  
1101551, 12564089, 8200138, 96109301

Thread M5-0.8, Spanner size 8,  
Coating Electro galvanized, Material Steel  
Alternative no.: B191307

Pkg. 10



### 233435 Nut

Replacing: 1851808

Servicing: 10SI, 12SI, 15SI, 17SI, 20SI, 21SI,  
22SI, 25SI, 26SI, 27SI, 29SI, 30SI, 33SI, 34SI,  
CS144, 10459002, 10459003, 10459004,  
10459005, 10459006, 10459007, 10459008,  
10459009, 10459010, 10479926

Thread 8.00-32.00, OD 11/32", OD/washer 9.75,  
Height 1/8", Material Alu/zinc, Washer w/  
For regulator terminal.



## Oil Seals

Pkg. 10



### 132382 Oil Seal

**Servicing:** 40MT, 42MT, 50MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478864, 10478980, 10478986  
**ID** 18.50, **OD** 34.90, **Height** 9.50,  
**Material** Metal/Rubber, **O-ring** w/

Pkg. 10



### 132682 Oil Seal

**Replacing:** 1867150, 1891143, 1913433, 1918047  
**Servicing:** 30MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478801  
**ID** 17.46, **OD** 34.80, **Height** 6.35,  
**Material** Metal/Rubber, **O-ring** w/o

Pkg. 10



### 135199 Oil Seal

**Servicing:** 28MT, 10479613, 10479615, 10479616, 10479617, 10479621, 10479623, 10479656, 1113272, 1113276, 1113277  
**ID** 24.30, **OD** 35.10, **Height** 5.90,  
**Material** Rubber, **O-ring** w/o

Pkg. 5



### 135642 Oil Seal

**Replacing:** 1937718  
**Servicing:** 37MT, 10478805, 10478806, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819, 10478825  
**ID** 19.35, **OD** 35.20, **Height** 6.45,  
**Material** Steel, **O-ring** w/

Pkg. 10



### 233048 O-ring

**Replacing:** 1894643, 1921805  
**Servicing:** 30MT, 35MT, 37MT, 40MT, 41MT, 42MT, 50MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061  
**ID** 8.65, **OD** 12.60, **Thickness** 1.75,  
**Colour** Black

Pkg. 10



### 237844 Oil Seal

**Servicing:** 39MT, 19011501, 19024196  
**ID** 28.30, **OD** 48.10, **Height** 5.60

Pkg. 10



### 334309 Oil Seal

**Servicing:** 8200138  
**ID** 18.70, **OD** 30.40, **Height** 4.25

## O-rings

Pkg. 10



### 132900 O-ring

**Replacing:** 949062-1010  
**Servicing:** 1100016, 1100027, 1100029, 1100032, 1100034, 1100035, 1100036, 1100037, 1100038, 1100039, 1100056  
**ID** 71.00, **Thickness** 2.00, **Colour** Black

Pkg. 5



### 133965 O-ring

**Replacing:** 10456474  
**Servicing:** 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612  
**ID** 86.90, **Thickness** 1.50, **Colour** Black

Pkg. 10



### 134486 O-ring

**ID** 8.00, **Thickness** 2.00, **Colour** Black

Pkg. 10



### 134487 O-ring

**Servicing:** 1113827, 1113840, 1113853, 1113923, 1113942, 1113949, 1113950, 1113959, 1113960, 1113962, 1113967  
**ID** 10.00, **Thickness** 2.00, **Colour** Black

Pkg. 10



### 136340 O-ring

**Replacing:** 1916272  
**Servicing:** 10461025, 10461031, 10478980, 10478986, 10478998, 10479111, 10479115, 10479252, 10479264, 1113827  
**ID** 105.00, **Thickness** 4.00, **Colour** Black

Pkg. 10



### 230378 O-ring

**Replacing:** 1918621  
**Servicing:** 19011501, 8200009, 8200022, 8200037, 8200039, 19024196  
**ID** 3.70, **OD** 7.20, **Thickness** 1.80,  
**Colour** Black





### 233057 O-ring

Replacing: 1894642, 1914373

Servicing: 30MT, 35MT, 37MT, 40MT, 41MT, 42MT, 50MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061

ID 5.70, OD 9.50, Thickness 1.55,

Colour Black

Pin kit: HC-CARGO 230362.

### Various



### 132582 Insulator

Replacing: 3472622

Servicing: 014, 018, 022, 023, 024, 026, 027, 028, 032, 033, 035, 037, 042, 048, 050, 051, 052, 053, 058, 059

ID 6.35, OD 15.15, OD/collar 8.85,

Height/collar 2.40, Thickness 3.55,

Material Plastic, Bushing w/o



### 133023 Plug

Replacing: 103893, 9417501

Servicing: 40MT, 50MT, 1009812, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1108451

OD 26.20



### 133024 Plug

Replacing: 1949619

Servicing: 30MT, 40MT, 42MT, 50MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461061, 10478800, 10478803



### 133027 Gasket

Replacing: 1962603

Servicing: 10MT, 20MT, 22MT, 25MT, 27MT, 10455325, 10455500, 1107295, 1107296, 1107297, 1107308, 1107322, 1107335, 1107377, 1107397, 1107398

ID 69.15, ID/mount. hole 5.75, OD 94.75,

Thickness 1.50, Mount. holes 4,

Material Rubber



### 135938 Plug

Replacing: 1945356

Servicing: 40MT, 50MT, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048

OD 34.93



### 137128 Pin

Servicing: CS121, CS130, 219137, 219139, 219199, 96252115, 219138, 219235

OD 2.60, Length 8.50



### 138144 Ground Lead

Replacing: 1926605, 1960864

Servicing: 10MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312

ID 4.25, Length 16.25,

Lead length 64.50, Width 9.45



### 138660 Brake Washer

Replacing: 821453

Servicing: 10MT, 20MT, 25MT, 27MT, 30MT, 35MT, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455314, 10455315

ID 19.10, OD 50.80, Thickness 2.40,

Bushing w/o



### 138680 Ground Lead

Replacing: 1876361, 1892160, 1930694, 1987254

Servicing: 15MT/GR, 20MT, 22MT, 25MT, 27MT, 30MT, 35MT, 10455500, 1107547, 1107557, 1107572, 1107582, 1107588, 1107863, 1109216, 1109217, 1109218, 1109219

ID 4.30, Length 16.55,

Lead length 55.00, Width 8.90



### 139332 Screw

Replacing: 10499632, 1913100, 1968396, 1970469

Servicing: 37MT, 40MT, 42MT, 50MT, 1007003, 1007010044, 1009812, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309

Thread M10, Total length 16.45,

Thread length 11.25, Shaft w/, Washer w/o



### 139798 Grommet

Replacing: 1846097, 1893370, 1955946, 1955947

Servicing: 10MT, 15MT/GR, 20MT, 22MT, 25MT, 27MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311



Pkg. 10



### 230417 Oil Cup

Replacing: 1985246

Servicing: 37MT, 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803

OD 14.30, Height 10.55

Pkg. 10



### 230419 Oil Cup

Replacing: 1978756

Servicing: 35MT EXT ROTATABLE, 40MT 400, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048

OD 15.90, Height 9.65



### 230540 Insulation Kit

Replacing: 1851632, 1906031, 1906046, 1906302, 1913027, 1944841, 1946765

Servicing: 42MT, 1009812, 10478800, 10478807, 10478808, 10478813, 10478830, 10478843, 10478844, 10478845, 10478846



### 230541 Terminal Lead

Replacing: 1988128, 1988129

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803

ID 4.50, Length 24.10, Lead length 92.80, Width 9.00



### 230555 Brake Washer

Replacing: 1911644

Servicing: 42MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061

ID 21.40, OD 47.60, Thickness 4.80, Bushing w/o



### 230595 Repair Lead

Servicing: 20MT, 22MT, 25MT, 27MT, 10455301, 10455304, 10455305, 10455306, 10455308, 10455340, 10455355, 10455603, 10496873, 10496874

ID 5.45, Length 19.40, Lead length 56.00, Lead length 2 133.50, Width 11.05

Repair lead for field coil.

Pkg. 5



### 230684 Resistor

Replacing: 830478

Servicing: 10SI, 12SI, 15SI, 17SI, 10463013, 10463014, 10463016, 10463017, 10479814, 10479823, 10479825, 10479826, 10479827, 10479834

ID/mount. hole 6.00, Length 37.15, Width 17.25, 40 Ohm resistor.

Pkg. 5



### 232590 Repair Lead

Replacing: 10497105, 1953236, 1988377

Servicing: 37MT, 40MT, 41MT, 42MT, 50MT, 10461025, 10461031, 10478820, 10478824, 10478836, 10479023, 10479024, 10479067, 10479069, 10479115

ID 13.00/5.00, Length 27.30/24.65, Lead length 209.10, Lead length 2 270.00, Width 19.10/10.90 Wire lead from C.E. terminal to solenoid.



### 232755 Dust Cap

Replacing: 1876813

Servicing: 25SI, 26SI, 30SI, 33SI, 34SI, 10459002, 10459003, 10459004, 10459005, 10459006, 10459007, 10459008, 10459009, 10459010, 1117067

OD 30.35, Height 4.85



### 232761 Resistor

Replacing: 1876474, 232761

Servicing: 27SI/200, ID/mount. hole 7.00 150 Ohm resistor. Resistor connects from battery terminal to pin-type R-terminal for faster 'cut-in' speed.

Pkg. 5



### 232916 Gasket

Servicing: 40MT, 50MT,

ID 93.50, ID/mount. hole 16.85, OD 137.35, Thickness 1.65, Mount. holes 3

Pkg. 5



### 232918 Gasket

Replacing: 10475908

Servicing: PG260M, 8000032, 8000129, 8000193, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821

ID 59.00, OD 70.00, Thickness 0.40





**232920#** Seal

Servicing: PG260F2



**232929#** Thermostat

Replacing: 10468899, 10498158

Servicing: 37MT, 41MT, 42MT, 10478824,  
10478836, 10478953, 10478964, 10478965,  
10478967, 10478979, 10478997, 10479019,  
10479027

Pkg. 5



**232988** Thrust Collar

Replacing: 10495828, 10495897

Servicing: 5MT, 10MT, PG100, PG150,  
10455001, 10455006, 10455008, 10455009,  
10455010, 10455011, 10455012, 10455013,  
10455015, 10455024

ID 12.00, OD 19.00, OD/collar 13.70,

Height 2.60, Height/collar 1.35,

Material Steel, Collar w/, Gasket w/o,  
O-ring w/o



**233007** Connection

Replacing: 10476198, 1988134

Servicing: 42MT, 10478968, 10478971,  
10478977, 10478978, 10478980, 10478983,  
10478984, 10478985, 10478986, 10478987

Mount hole 7.55,

Mount. hole 2 14.45, Total length 67.00

Connecting field coil to solenoid.



## Drives



**130434** Drive  
 Replacing: 2140108  
 ID 12.00, OD 25.30, OD/housing 46.45,  
 Total length 61.70, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o



**132070** Drive  
 Replacing: 2155004  
 Servicing: 2130, DM2130, DM2134  
 ID 14.05, OD 34.50, OD/housing 63.00,  
 Total length 77.50, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o

## Brush Sets



**140465** Brush Set  
 Replacing: 2110501  
 Servicing: 2130, DM2130, DM2134  
 12 Volt, Length 22.15,  
 Lead length 38.00, Height 19.90,  
 Thickness 8.81

## Bushings



**140040** Bushing  
 Replacing: 2142076  
 Servicing: M78, M79,  
 ID 12.00, OD 15.00, Length 12.00,  
 Material Copper, Pin w/o  
 Alternative no.: B140040

Pkg. 10

**140043** Bushing  
 Replacing: 2140071  
 ID 12.10, OD 15.05, Length 15.00,  
 Material Copper, Pin w/o  
 Alternative no.: B140043

Pkg. 10

**140464** Bushing  
 Replacing: 2130510  
 Servicing: 2130, DM2130  
 ID 13.98, OD 18.00, Length 16.40,  
 Material Copper, Pin w/o

Pkg. 10



## Armatures

24 V



### 235787 Armature

Replacing: 1320-121-00X0

Servicing: 0355-502-0110

24 Volt, 4.5 kW, Bar dist. 32.00, Shaft dia. 14.50, Shaft length 164.30, Bar length 4.80, Height/bar lane 33.30, Core thickness 53.91, No./bars 23, No./splines 9, No./teeth 9

## Solenoids

24 V



### 136170 Solenoid

Replacing: 1350-097-00X9

Servicing: 0350-552-0310, 0350-552-0311, 0350-552-0320, 0350-552-0324, 0350-552-0328, 0350-552-0330

24 Volt, 5.5/6.0 kW, B+ M10, ID/cover 21.80, OD 65.20, OD/cover 64.75, Length 99.50, Total length 195.45, Height/B+ 25.10, Terminal 50 9.40, Coil bolt M10, Coil bolt 2 17.55, No./mount. holes 2, No./terminals 3



### 136171 Solenoid

Replacing: 1350-101-00X9

Servicing: 0350-702-0224, 0350-702-0226

24 Volt, 7.0 kW, B+ M10, ID/cover 22.30, OD 64.00, OD/cover 64.65, Length 103.45, Total length 203.25, Height/B+ 24.40, Terminal 50 9.40, Coil bolt M10, Coil bolt 2 18.35, No./mount. holes 2, No./terminals 3



### 138967 Solenoid

Replacing: 1350-109-31X9, 1350-109-32X9, 1350-111-10X9, 1350-111-11X9

Servicing: 0351-702-0610, 0351-702-0612, 0351-702-0620

24 Volt, 11.0 kW, B+ M10, ID/cover 21.60, OD 69.85, OD/cover 64.50, Length 166.25, Total length 266.20, Height/B+ 30.20, Terminal 50 9.40, Coil bolt M10, Coil bolt 2 27.85, No./mount. holes 2, No./terminals 3, Fork lever w/o

## Brush Gears



### 136529 Brush Gear

Replacing: 1331-039-00X0

Servicing: 0350-552-0311, 0350-552-0324, 0350-552-0328, 0350-552-0334, 0350-552-0338, 0350-552-0363

ID 43.45, OD 72.65, Height 33.85

Neg. brushes. Brush set: HC-CARGO 140829.

## Brush Sets



### 140828 Brush Set

Replacing: 2660-074-00X7

Servicing: 0350-702-0141, 0350-702-0150, 0350-702-0180, 0350-702-0226, 0350-702-0235, 0350-702-0249

24 Volt, Length 22.50, Lead length 61.00, Lead length 2 37.50, Height 35.00, Thickness 10.00



### 140829 Brush Set

Replacing: 2660-071-00X7

Servicing: 0350-552-0311, 0350-552-0328, 0350-552-0338, 0350-552-0367, 0350-602-0092, 0350-602-0118

24 Volt, Length 20.00, Lead length 39.50, Height 28.00, Thickness 10.00

## Bushings

Pkg. 10



### 140520 Bushing

Replacing: 2602-000-00X0, 2620-011-00X0

ID 19.00, OD 23.00, Length 19.00, Material Copper, Pin w/o

## Bearings

### Needle Bearings

Pkg. 5



### 140136 FAG Needle Bearing

Replacing: 6206-002-00X0, 6206-002-20X0

Servicing: 20SI, 27SI TYPE 200, 0201-102-1011, 0201-102-1111, 0201-102-1210, 0201-102-1221, 0201-102-1310, 0201-102-1410

ID 17.00, OD 23.80, Height 32.00

Closed end.



## Brush Sets



**140574** Brush Set

Replacing: IM0006

12 Volt, Length 15.00,

Lead length 35.00, Height 10.00,

Thickness 7.00



## Brush Sets



### 141210 Brush Set

Servicing: 33835

12 Volt, Length 16.80,  
Lead length 35.00, Lead length 2 41.45,  
Height 9.50, Thickness 6.30



### 141211 Brush Set

Replacing: 32572

12 Volt, Length 14.20,  
Lead length 51.00, Height 9.40,  
Thickness 7.90



## C.E. Brackets



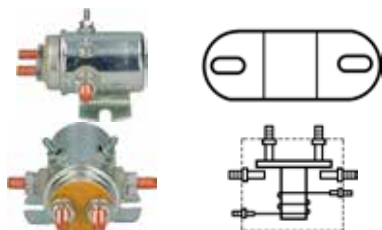
### 231004 C.E. Bracket

**Replacing:** 1819740CP30SM, 2136140C930SM, 5668640C930SM, 566864CP30SM, CP18197A3  
**Servicing:** 1819140M030SM, 4733040M030SM, 56666440M030SM, 5666640M030SM

12 V. w/ brushes.

## Solenoids

12 V



### 138068 Solenoid

**Replacing:** SO51189

12 Volt, 200 Amp, Intermittent load 900 Amp., B+ 5/16" UNF, OD 42.00, Total length 89.35, Height/B+ 12.00, Terminal 50 10-32 UNF, Coil bolt 5/16" UNF, Coil bolt 2 12.00, Seconds 5, No./mount. holes 2, Fork lever w/o Silver contact.

## Drives



### 135400 Drive

**Replacing:** 1801940, 1801940DV30SM, 7017540, 7017540DV30SM, DV18019, DV70175

**Servicing:** 0139940M030SM, 0228940M030SM, 0246540M030SM, 0246640M030SM, 0319940M030SM, 0996340M030SM

ID 12.85, OD 31.75, Total length 36.75, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o Bronze.



### 135402 Drive

**Replacing:** 0815440DV30SM, 4787140DV30SM, 7010440DV30SM, DV08154, DV47871, DV70104

**Servicing:** 0814240M030SM, 4820440M030SM, 4820540M030SM, 4886540M030SM, 5275640M030SM, 5672740M030SM, SM08142  
 ID 12.15, OD 27.00, Total length 35.65, No./teeth 8, Rotation CCW, Key spline w/o, Lock w/o Bronze.



### 135403 Drive

**Replacing:** 0255740DV30SM, DV02557

**Servicing:** 0996140M030SM, SMH12B37, SM09961, SMH12B31

ID 12.15, OD 29.00, OD/housing 41.75, Total length 35.00, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 135404 Drive

**Replacing:** 2034640DV30SM, DV20346

**Servicing:** 1122940-M030SM, 1574440M030SM, 1574540M030SM, 1799640M030SM, 5059240M030SM, 5071240M030SM, SM002610

ID 13.00, OD 36.55, OD/housing 41.80, Total length 35.50, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 135408 Drive

**Replacing:** 1820040DV30SM, DV18200

**Servicing:** 1819040-M030SM, 1819040M030SM, 1819140M030SM, 2134940-M030SM, 2134940M030SM, 5213140-M030SM

ID 12.15, OD 29.00, OD/housing 41.50, Total length 36.55, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o Bronze.



### 135409 Drive

**Replacing:** 4733840DV30SM, 5695340KT30SM, 5695KT30SM, DV47338, DV551067, DV551067A, DV551067AS

**Servicing:** 0599440-M030SM, 0599540M030SM, 1635340-M030SM, 4733040M030SM, 5129640M030SM, 5666140M030SM

ID 10.45, OD 32.25, Total length 28.00, No./teeth 10, Rotation CCW, Key spline w/o, Lock w/o



### 230399 Drive Kit

**Replacing:** 6024140GE30SM

**Servicing:** 6013840M030SM, 6019440M030SM  
 OD 40.00, Total length 19.50, No./teeth 16

## Brush Sets



### 140714 Brush Set

**Replacing:** 1090040, 1090040KT30SM, 2024940KT30SM, 4793640KT30SM, 5265440KT30SM, 5716740KT30SM, 6073540KT30SM

**Servicing:** 0139940M030SM, 0196540M030SM, 0203740SM30SM, 0228940M030SM, 0246540M030SM, 0246640M030SM

12 Volt, Length 11.10, Lead length 70.00, Lead length 2 34.44, Height 12.70, Thickness 7.90 w/ bushings: HC-CARGO 140747.



### 140747 Brush Set

**Servicing:** SMH12A102

12 Volt, Length 11.10, Lead length 73.50, Lead length 2 37.00, Height 12.70, Thickness 7.90





**140749** Brush Set  
 Replacing: 2136840KT30SM, 4760140KT30SM, KT21368, KT47601  
 Servicing: 1819140M030SM, 2134940M030SM, 4367340M030SM, 5082740M030SM, 5129640M030SM, 5213240M030SM  
 12 Volt, Length 11.10, Lead length 73.00, Lead length 2 37.00, Height 12.70, Thickness 7.90



**141053** Brush Set  
 Replacing: 391705  
 12 Volt, Length 14.90, Lead length 43.50, Height 9.40, Thickness 6.20



## Armatures

12 V



### 131813 Armature

Replacing: 101581, 102380, NE053

Servicing: D9E100, D9E101, D9E108, D9E123, D9E124, D9E125, D9E127, D9E129, D9E137, D9E138, D9E200, D9E237

12 Volt, 1.05/1.2 kW, Bar dist. 3.00, Bar cross dist. 42.45, Shaft dia. 19.00, Shaft length 188.70, Bar length 4.80, Height/bar 6.75, Core thickness 60.00, No./bars 19, No./splines 9, Rotation CW



### 132486 Armature

Replacing: TM200B01601B

Servicing: MG122423, TM000A06101, HK988300, MG120413, MG120445, MG122404, MG122433, TM000A06901, TM000A14901

12 Volt, 2.0 kW, Bar dist. 2.25, Bar cross dist. 38.35, Shaft length 152.00, Bar length 4.35, Height/bar 4.25, Height/bar lane 22.60, Core thickness 53.20, No./bars 25, No./teeth 9, Rotation CW/CCW



### 133228 Armature

Replacing: 583249

Servicing: 534023A, 534029A, 534031A, 534032A, 534042A, 534042B, 534043A, 534044A, 534047A, 534057A

12 Volt, 0.8/1/1.2 kW, Bar dist. 2.90, Bar cross dist. 47.20, Shaft length 189.00, Bar length 4.75, Height/bar 8.00, Core thickness 60.20, No./bars 19, No./splines 9, Rotation CW



### 134513 Armature

Replacing: 594526

Servicing: D6RA10, D6RA11, D6RA12, D6RA13, D6RA133, D6RA15, D6RA16, D6RA162, D6RA165, D6RA17, D6RA18, D6RA19

12 Volt, 1.1 kW, Bar dist. 3.30, Bar cross dist. 38.60, Shaft length 111.90, Bar length 3.20, Height/bar 3.65, Core thickness 44.20, No./bars 23, No./teeth 13, Rotation CW/CCW



### 134513Q Armature

Servicing: 7700113627, 7711134297, 8200143045, D6RA105, D6RA115

12 Volt, 1.1 kW, Bar dist. 3.30, Bar cross dist. 38.60, Shaft length 111.90, Bar length 3.20, Height/bar 3.65, Core thickness 44.20, No./bars 23, No./teeth 13, Rotation CW/CCW



### 134736 Armature

Replacing: 2EM0689H

Servicing: M000A01901, TM000A27601, M000A0240Z, M35216, M39376, M39646, M43196, MC107023, MC108024, MC109015

12 Volt, 0.8 kW, Bar dist. 2.30, Bar cross dist. 32.15, Shaft length 183.10, Bar length 5.00, Height/bar 5.00, Height/bar lane 18.45, Core thickness 60.00, No./bars 21, No./splines 8, Rotation CW



### 135387 Armature

Replacing: 182591, 594112, 594278, 594344, NE824

Servicing: D7R1, D7R11, D7R12, D7R13, D7R14, D7R15, D7R151, D7R16, D7R17, D7R18, D7R19, D7R2, D7R20, D7R22

12 Volt, 1.4-2.7 kW, Bar dist. 2.80, Bar cross dist. 30.60, Shaft length 141.00, Bar length 5.65, Height/bar 5.10, Height/bar lane 21.00, Core thickness 50.00, No./bars 19, No./teeth 16, Rotation CW/CCW



### 139434 Armature

Replacing: 594519

Servicing: 105119C, D7E1, D7E15, D7E18, D7E27, D7E29, D7E30, D7E31, D7E32, D7E4, D7E47, D7E6, D7E8, D7ED28

12 Volt, 0.85/1 kW, Bar dist. 2.15, Bar cross dist. 28.00, Shaft length 155.50, Bar length 3.70, Height/bar 6.00, Height/bar lane 12.40, Core thickness 50.00, No./bars 21, No./splines 10  
Can only be used w/ drive: HC-CARGO 139477.


### 139593 Armature

Replacing: 594529, 594531

Servicing: D6RA137, D6RA168, D6RA185, D6RA187, D6RA188, D6RA63, D6RA721, D6RA83, D6RA84, D6RA85, D6RA87

12 Volt, 1.1 kW, Bar dist. 3.30, Bar cross dist. 38.60, Shaft length 111.92, Bar length 3.20, Height/bar 3.65, Core thickness 44.30, No./bars 23, No./teeth 8, Rotation CW





### 230250 Armature

Replacing: 594528, 594530

Servicing: D6RA167, D6RA180, D6RA181, D6RA67, D6RA76, D6RA77, D6RA78, D6RA79, D6RA80, D6RA81, D6RA91, D6RA100

12 Volt, 1.1 kW, Bar dist. 3.30, Bar cross dist. 38.60, Shaft length 112.00, Bar length 3.20, Height/bar 3.65, Core thickness 44.00, No./bars 23, No./teeth 7



### 233767 Armature

Manufacturer: Valeo

Replacing: 594518

Servicing: 105119C, D7E1, D7E16, D7E19, D7E20, D7E22, D7E23, D7E26, D7E27, D7E32, D7E39, D7E47, D7E52, D7E18

12 Volt, 0.85 kW, Bar dist. 2.15, Bar cross dist. 28.00, Shaft dia. 17.00, Shaft length 155.50, Bar length 3.70, Height/bar 6.00, Height/bar lane 12.40, Core thickness 50.00, No./bars 21, No./splines 10, Rotation CW

Can only be used w/ drive: HC-CARGO 239359.

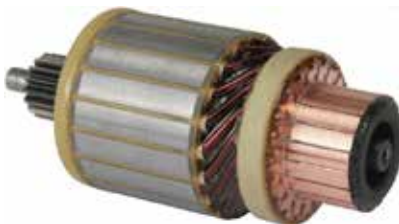


### 236271 Armature

Replacing: 594471, 594621

Servicing: D7G11, D7G4, 190895, D7G3, D7G6, D7GS17, D7GS7, TS18E7

12 Volt, 2.0 kW, Bar dist. 2.75, Bar cross dist. 32.75, Shaft length 118.60, Bar length 5.45, Height/bar lane 18.20, Core thickness 49.72, No./teeth 13



### 236358 Armature

Replacing: 594683, 594781

Servicing: D7G15, TS18ER20, TS22E20, TS22E45, TS22ER12, TS22ER13, TS24E13, TS24E2, TS24E6, TS24E7, 191335

12 Volt, 2.0 kW, Bar dist. 2.75, Bar cross dist. 32.75, Shaft length 118.55, Bar length 5.45, Height/bar lane 18.20, Core thickness 49.65, No./bars 19, No./teeth 16, Rotation CW/CCW



### 236611# Armature

Replacing: 594673, 595610

Servicing: D6GS11, D6GS12, D6GS12M, TS12ER20, TS12ER19, TS12ER22

12 Volt, 1.0 kW, Shaft length 111.85, Core thickness 44.30, No./teeth 13, Rotation CW



### 236796 Armature

Replacing: 594650

Servicing: TS12E9, D6G1, D6G32, D6G321, D6G332, D6GS11, D6GS12M, D6GS19, TS12E200, TS12E30, TS12E901, TS12E902

12 Volt, 1.3 kW, Shaft length 111.90, Core thickness 44.25, No./bars 23, No./teeth 10, Rotation CW



### 237085 Armature

Servicing: HQ808670, MG122202, MG122433, TM000A18601, TM000A23601, TM000V23601

12 Volt, 2.2 kW, Bar dist. 2.91, Bar cross dist. 38.61, Shaft dia. 17.50, Shaft length 152.00, Bar length 4.88, Height/bar 5.55, Height/bar lane 25.43, Core thickness 53.50, No./bars 25, No./splines 9



### 238767 Armature

Replacing: 594721

Servicing: TS10E1, TS10E11, TS10E3, TS10E4, TS10E5, TS8E1, TS8E2, TS8E3, TS8E4, TS8E5, TS8E6

12 Volt, Bar dist. 2.15, Bar cross dist. 28.00, Shaft length 155.50, Bar length 3.70, Height/bar 6.00, Height/bar lane 12.40, Core thickness 50.00, No./splines 10, Rotation CW



### 333779# Armature

Servicing: 36100-2A300

12 Volt, 1.7 kW, Shaft length 108.80, Height/bar lane 18.00, Core thickness 53.70, No./bars 25, No./splines 8

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### 335708 Armature

Servicing: ESW22-11

12 Volt, Shaft length 145.50, Core thickness 49.70, No./bars 19, No./teeth 16



### 335712 Armature

Servicing: TS22E28

12 Volt, Shaft length 118.90, Height/bar lane 19.50, Core thickness 50.00, No./bars 19, No./teeth 16





### 335716 Armature

Servicing: ESW10-12

12 Volt, Shaft length 164.00, Height/bar lane 13.50, Core thickness 50.00, No./bars 21, No./splines 8, Rotation CW

### 24 V



### 133034 Armature

Replacing: M106X29371

Servicing: MG232415

24 Volt, 3.2 kW, Bar dist. 2.25, Bar cross dist. 38.35, Shaft length 151.40, Bar length 4.35, Height/bar 4.25, Height/bar lane 22.60, Core thickness 53.60, No./bars 25, No./teeth 9, Rotation CW/CCW



### 233697# Armature

Replacing: 594219

Servicing: D13HP605, D13HP607, D13HP608, D13HP609, D13HP613

24 Volt, 6.6 kW, Bar dist. 3.25, Bar cross dist. 58.90, Shaft dia. 21.75, Shaft length 397.00, Bar length 12.00, Height/bar 8.10, Height/bar lane 28.70, Core thickness 84.80, No./bars 27, No./splines 19



### 233697# Armature

Replacing: 594219, NE936

Servicing: D13HP605, D13HP607, D13HP608, D13HP609, D13HP613, D13HP601

24 Volt, 6.6 kW, Bar dist. 3.25, Bar cross dist. 58.90, Shaft dia. 21.75, Shaft length 397.00, Bar length 12.00, Height/bar 8.10, Height/bar lane 28.70, Core thickness 84.80, No./bars 27, No./splines 19

## Yokes

### 12 V



### 133079 Gear Set

Replacing: 594015, 594019, 594021, 594105, 594151, 594207, 594232, 594234, 594237

12 Volt, 1.1 kW, Oil seals No, Waterproof No

Outer gear plate: HC-CARGO 133954.



### 137399 Yoke

Replacing: 594534, 594535

Servicing: D6RA10, D6RA12, D6RA13, D6RA133, D6RA141, D6RA15, D6RA16, D6RA161, D6RA162, D6RA165, D6RA168

12 Volt, 1.1 kW, ID 44.75, OD/middle 63.55, Length 96.25, Brush gear w/o, Magnets w/, O-ring w/o



### 230020 Yoke (A.C.R.)

Servicing: D6RA42, D6RA43

12 Volt, ID 60.00, OD/middle 63.40, Length 90.50, Rotation CCW, Brush gear w/o, Magnets w/, O-ring w/o



### 236364 Yoke

Replacing: 594680

Servicing: TS18ER121, 458389, D7GS10, D7GS8, D7GS9, TS18E1, TS18E3, TS18ER123, TS18ER20, TS18ER22

12 Volt, 2.0 kW, ID 51.00, OD/middle 74.50, Length 38.00, Rotation CCW, Brush gear w/o



### 333472 Field Case

Servicing: TM000A27301, TM000A27601

12 Volt, 0.9 kW, ID 72.00, Length 102.80, OD/middle 76.00, Rotation CW, Magnets w/

## Field Cases



### 135392 Field Case

Manufacturer: Valeo

Replacing: 594115, 594276, 594305, NE845

Servicing: D7R1, D7R11, D7R13, D7R15, D7R151, D7R16, D7R17, D7R2, D7R24, D7R25, D7R26, D7R3, D7R34, D7R35

12 Volt, 1.4/1.7 kW, ID 51.00, OD/middle 76.30, Length 119.35, Lead length 51.60, Brush gear w/, Magnets w/o, O-ring w/o  
Field coil: HC-CARGO 138857.



### 136938 Field Case

Replacing: M800X43574

Servicing: MG232415

24 Volt, 3.2 kW, ID 53.10, OD/middle 81.00, Length 85.00, Lead length 114.90, Brush gear w/o, Magnets w/o, O-ring w/o  
Brush set: HC-CARGO 141273.



### 139985 Field Case

Manufacturer: Valeo

Replacing: 594277, 594354

Servicing: 188839, D7R19, D7R40, D7R28, D7R36, D7R37, D7R43, D7R46, D7R23, D7R281, D7R34, D7R48, D7R49, D7R61

12 Volt, 2.0/2.2 kW, ID 48.00, OD/middle 76.20, Length 116.15, Lead length 58.70, Brush gear w/, Magnets w/o, O-ring w/o  
Field coil: HC-CARGO 233853.





### 231476 Field Case

Replacing: 594477, 594478, 594522, 594523

Servicing: 105119C, D7E15, D7E18, D7E19, D7E20, D7E22, D7E4, D7E6, D7E8, D7ED28, ESW10E40, D7E23, D7E52

12 Volt, 0.85/1.0 kW, ID 50.90, Length 44.50, OD/middle 78.30, Lead length 31.70, Brush gear w/, Magnets w/o, O-ring w/o  
Brush gear: HC-CARGO 139224. Brush set: HC-CARGO PSX1554.



### 234386 5+ Field Case

Manufacturer: Valeo

Replacing: 594394

Servicing: D7R47, D7RS29, D7RS30, D7RS31, D7RS129, D7RS130, D7RS131, D7RS301

12 Volt, 2.0 kW, ID 49.40, OD/middle 76.20, Length 116.50, Lead length 55.45, Rotation CCW, Brush gear w/, Magnets w/o, O-ring w/o

## Field Coils

### 12 V



### 137289 Field Coil

Replacing: 073315

Servicing: D11E118, D11E120, D11E158, D11E160

12 Volt, 2.6 kW, Height 101.50, Internal height 64.15, Inner width 26.15, Brush gear w/o



### 138857 Field Coil

Replacing: 182594

Servicing: D7R16, D7R24, TS18E13, D7R1, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, D7R17, D7R18, D7R2, D7R20

12 Volt, 1.4/1.7 kW, Lead length 111.00, Height 60.15, Internal height 31.15, Inner width 14.30, Brush gear w/o  
Yoke: HC-CARGO 135392.

### 24 V



### 230733 Field Coil

Replacing: 594221

Servicing: D13HP601, D13HP605, D13HP607, D13HP608, D13HP609, D13HP613

24 Volt, 6.6/7.2 kW, Height 145.00, Internal height 89.30, Inner width 29.15, Brush gear w/o



### 230733 Field Coil

Replacing: 594221

Servicing: D13HP601, D13HP605, D13HP607, D13HP608, D13HP609, D13HP613

24 Volt, 6.6/7.2 kW, Height 145.00, Internal height 89.30, Inner width 29.15, Brush gear w/o

## C.E. Brackets



### 137219 C.E. Bracket

Replacing: M644B10601, TM009C02001Z

Servicing: MG232415, TM000A06101, MG120413, MG122404, MG122433, TM000A06901

ID 76.50, OD 80.00, Height 44.00



### 230032 5+ C.E. Bracket

Manufacturer: Valeo

Replacing: 594129, 594130, 594253

Servicing: D6RA110, D6RA12, D6RA13, D6RA141, D6RA15, D6RA17, D6RA19, D6RA21, D6RA22, D6RA23, D6RA25, D6RA26

ID 62.30, OD 64.40, Height 25.00  
Contains: Brush set: HC-CARGO PSX144-145K. Brush gear: HC-CARGO 133647. Gasket: HC-CARGO 134106.



### 231354 C.E. Bracket

Servicing: D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RAD183, D6RADP359, D6RAP229, D6RAP404, 626002, D6RA10



### 235187 C.E. Bracket

Servicing: 105119C, D7E27, D7E32, D7E39, D7E47, D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23

ID 74.00, OD 78.10, Height 41.30



### 337368 C.E. Bracket

Servicing: 36100-03300, ESM18E8

ID 12.00, OD 70.70, Height 15.25

## D.E. Brackets



### 231238 D.E. Bracket

Replacing: 594579

Servicing: D6RA132, D6RA162, D6RA249, D6RA32, D6RA62, D6RA163, D6RA293, D6RA93

Type Closed



### 231537 D.E. Bracket

Replacing: 594569

Servicing: D6RA133, D6RA33, D6RA46, D6RA56, D6RA61, D6RA72, D6RA73

Type Closed





**231849** D.E. Bracket  
Replacing: 100234  
Type Closed



**233318** D.E. Bracket  
Replacing: 594487  
Servicing: D7R12, D7R20, D7R24, D7R26, D7R27, D8R27, D8R29, D7R127, D7R2, D7R32, D7R4, D7R8  
Type Closed



**234390** D.E. Bracket  
Manufacturer: Valeo  
Replacing: 594501  
Servicing: D7RS30, D7RS130, D7RS301  
Type Open



**234391** D.E. Bracket  
Replacing: 594502  
Servicing: D7RS31, D7RS131  
Type Open



**236805** D.E. Bracket  
Replacing: 594597  
Servicing: D6RA105, D6RA115  
Type Closed

## I.M. Brackets



**139139** I.M. Bracket  
Servicing: D9R, D9R112, D9R116, D9R118, D9R119, D9R121, D9R122, D9R142, D9R144, D9R149, D9R73, D9R84, D9R89, D9R90  
Bushing: HC-CARGO 140258. Needle bearing: HC-CARGO 140375.



**231196** I.M. Bracket  
Replacing: TM008B00601Z  
Servicing: TM000A06101, HK988300, MG120413, MG120445, TM000A14901

## Solenoids

### 12 V



**131007** Solenoid  
Replacing: 682244  
Servicing: 532016A, 532016B  
12 Volt, B+ M8, OD 45.90, OD/cover 50.40, Total length 116.75, Height/B+ 13.15, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.30, No./mount. holes 2, No./terminals 3



**131009** Solenoid  
Replacing: 680559, NE355, NE361  
Servicing: 532026A, 6020E, 6020EF, 6020F, 6035F, 6081E, 6081F  
12 Volt, B+ M8, OD 46.00, OD/cover 47.80, Total length 107.80, Height/B+ 16.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 8.55, No./mount. holes 2, No./terminals 3



**131010** Solenoid  
Replacing: 681411  
Servicing: 532005A, 532021A, 532023A, 6045A, 6139B, 6139C, 6155H, 6155J, 6155K, 6155L  
12 Volt, B+ M8, OD 45.80, OD/cover 47.55, Total length 106.60, Height/B+ 12.35, Terminal 30H M5, Terminal 30H/width 13.00, Terminal 50 6.30, No./mount. holes 2, No./terminals 4

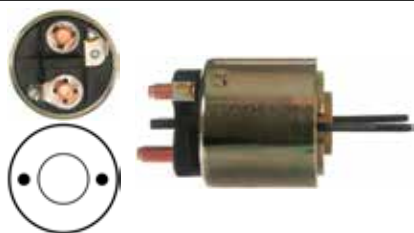


**131013** Solenoid  
Replacing: 583036  
Servicing: 532009A, 532009B, 532018A, 533002A, 532004C  
12 Volt, B+ M8, OD 46.00, OD/cover 48.35, Total length 119.25, Height/B+ 18.60, Terminal 50 M5, Coil bolt M8, Coil bolt 2 10.85, No./mount. holes 4, No./terminals 3



**131071** Solenoid  
Replacing: 073302, 074764, 094795, 095759, 182438, CED501, CED502, CED510, CED512, CED539  
Servicing: D10E47, D10E48, D10E54, D10E63, D10E64, D10E73, D10E80, D10E84, D11E118, D11E119, D11E119T, D11E120  
12 Volt, B+ M8, OD 54.35, OD/cover 60.80, Total length 163.50, Height/B+ 14.70, Terminal 50 M5, Coil bolt M8, Coil bolt 2 11.35, No./mount. holes 4, No./terminals 3  
Cap: HC-CARGO 134401.





### 131171 Solenoid

Replacing: 102217, 182461, CED529  
 Servicing: D9E108, D9E56, D9E66, D10E88, D10E881, D10E882, D10E89, D10E90, D9E102, D9E127, D9E38, D9E48, D9E49  
 12 Volt, B+ M8, OD 53.90, OD/cover 47.00, Total length 113.15, Height/B+ 15.40, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 2, No./terminals 3  
 Cap: HC-CARGO 132033.



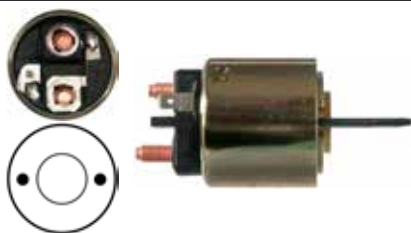
### 131208 Solenoid

Replacing: 077265, 583159  
 Servicing: 6099C, 6099D  
 12 Volt, B+ M8, OD 45.80, OD/cover 47.75, Total length 127.65, Height/B+ 16.70, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.80, No./mount. holes 2, No./terminals 3



### 131431 Solenoid

Replacing: 442911  
 12 Volt, B+ M8, OD 52.15, OD/cover 44.35, Length 60.15, Total length 125.55, Height/B+ 18.70, Terminal 50 9.40, No./mount. holes 2, No./terminals 3  
 Cap: HC-CARGO 134620. Moving contact: HC-CARGO 139853.



### 131584 Solenoid

Replacing: 102849, 103489, 103794, 105489, CED533, CED538, CED544, NE138  
 Servicing: D9R105, D9R1050, D9R106, D9R118, D9R135, D9R142, D9R73, D9R84, D9R89, D9R99, D9E86, D10E88, D10E881  
 12 Volt, B+ M8, ID/cover 25.15, OD 54.00, OD/cover 44.25, Total length 112.20, Height/B+ 15.35, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.70, No./mount. holes 2, No./terminals 3  
 Cap: HC-CARGO 132826. Moving Contact: HC-CARGO 132037.



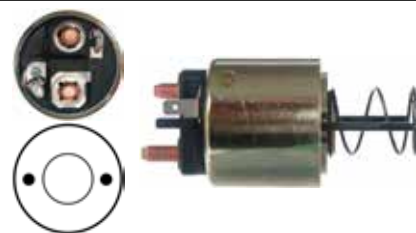
### 131798 Solenoid

Replacing: 077770, 092322, 094782, 095374, 095823, 096053, 098065, 098396, 098800, 099217, 099444, 100111  
 Servicing: D8E148, D9E27, D10E66, D10E72, D10E74, D10E79, D10E96, D8E107, D8E112, D8E115, D8E117, D8E120  
 12 Volt, B+ M8, ID/cover 20.15, OD 46.75, OD/cover 51.35, Total length 158.50, Height/B+ 19.00, Terminal 15A/width 10.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 14.55, No./mount. holes 3, No./terminals 4



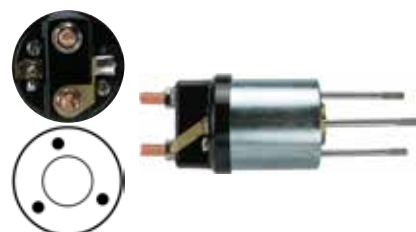
### 132024 Solenoid

Replacing: 181404, CED550  
 Servicing: D9E104, D9E40, D9R90, D9R96, D9R97  
 12 Volt, B+ M8, ID/cover 25.10, OD 54.00, OD/cover 45.20, Total length 112.10, Height/B+ 16.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.15, No./mount. holes 2, No./terminals 3  
 Cap: HC-CARGO 132826.



### 132025 Solenoid

Replacing: 100462, 181069, 594098, 594156, CED549, CED568  
 Servicing: D9R121, D9R122, D9R126, D9R84, D9R89  
 12 Volt, B+ M8, ID/cover 25.15, OD 54.00, OD/cover 48.65, Total length 112.25, Height/B+ 15.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.60, No./mount. holes 2, No./terminals 3  
 Cap: HC-CARGO 132826.



### 132268 Solenoid

Replacing: 096666, 098048, 102197, 182452, 300752, CED511, CED514, NE129  
 Servicing: D11E163, D11E164, D11E169, D11E172, D11E173, D11E176, D11E177, D11E178, D11E187, D11E272  
 12 Volt, B+ M8, ID/cover 25.10, OD 54.30, OD/cover 59.50, Total length 164.40, Height/B+ 22.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.35, No./mount. holes 3, No./terminals 3



### 132976 Solenoid

Replacing: 594045, 594113, 594145, 594178, 594267, 594268, 594269, 594273, 594275, 594319, 594322, 594325  
 Servicing: D6RA10, D6RA12, D6RA13, D6RA15, D6RA20, D6RA42, D6RA5, D6RA7, D7R7, D6RA210, D6RA46, D6RA56, D6RA49  
 12 Volt, B+ M8, ID/cover 25.30, OD 54.15, OD/cover 46.15, Total length 80.60, Height/B+ 16.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 3, No./terminals 3  
 Cap: HC-CARGO 132826.





### 132977 Solenoid

**Replacing:** 182563, 594047, 594087, 594117, 594119, 594188, 594189, CED563, CED564, CED569, CES569, NE139

**Servicing:** D6RA44, D6RA8, D6RA17, D6RA18, D6RA19, D6RA22, D6RA23, D6RA27, D6RA29, D6RA34

12 Volt, B+ M8, ID/cover 25.00, OD 54.00, OD/cover 48.85, Total length 80.45, Height/B+ 15.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.60, No./mount. holes 3, No./terminals 3

Cap: HC-CARGO 134402.

Alternative no.: 335389



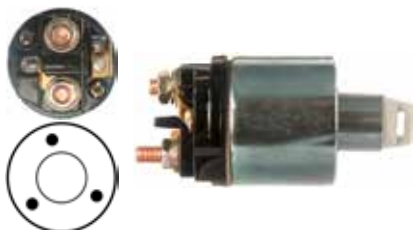
### 133050 Solenoid

**Replacing:** TM400B08301

**Servicing:** TM000A06101

12 Volt, B+ M8, ID/eye 6.15, OD 55.15, OD/cover 48.60, Total length 144.00, Height/B+ 27.65, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 19.40, No./mount. holes 2, No./terminals 3, Fork lever w/

Cap: HC-CARGO 133286.



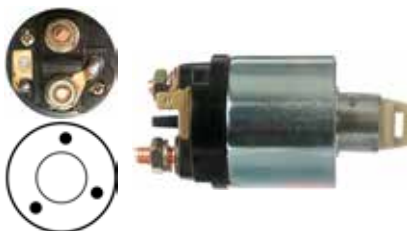
### 133120 Solenoid

**Replacing:** 583331, NE347

**Servicing:** 532025A, 532025B, 534032A, 534047A, 534051A, 534052A

12 Volt, B+ M8, ID/cover 23.15, OD 50.90, OD/cover 51.55, Length 42.00, Total length 96.85, Height/B+ 16.15, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.15, No./mount. holes 3, No./terminals 3

Cap: HC-CARGO 132274.



### 133122 Solenoid

**Replacing:** 583333, NE348

**Servicing:** 534029A, 534031A, 534042A, 534042B, 534043A

12 Volt, B+ M8, ID/cover 23.25, OD 50.75, OD/cover 51.65, Length 42.00, Total length 97.00, Height/B+ 15.85, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.10, No./mount. holes 3, No./terminals 3



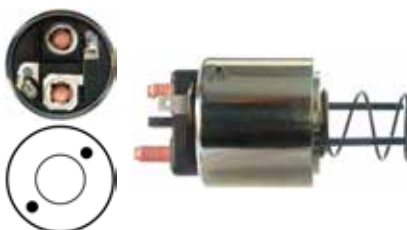
### 133128 Solenoid

**Replacing:** 099932, 182464, 182520, 504047, 594155, 594355, CED518, CED565, NE785, NE815

**Servicing:** 105119C, D9E36, D9E54, D7E4, D7E6, TS10E5, D7E19, D7E26, D9E101, D9E38, D9E62, D9R119, D9R122

12 Volt, B+ M8, ID/cover 25.20, OD 54.15, OD/cover 44.35, Total length 111.15, Height/B+ 15.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.00, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 134402.



### 133163 Solenoid

**Replacing:** 104604, 182459, CED540

**Servicing:** D9E137, D9E138, D9E237, D9E238, D9E276, D9E39, D9E52, D9E76, D9E77, D9E771, D9E40

12 Volt, B+ M8, ID/cover 25.30, OD 53.90, OD/cover 44.50, Total length 112.00, Height/B+ 15.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.00, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 132826.



### 133166 Solenoid

**Replacing:** 102190, 108458, 182463, CED528

**Servicing:** D9E278, D9E46, D9E68, D9E78, D9E79

12 Volt, B+ M8, ID/cover 25.00, OD 53.90, OD/cover 48.35, Total length 118.00, Height/B+ 20.35, Terminal 50 M5, Coil bolt M8, Coil bolt 2 19.60, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 134402.



### 133169 5★ Solenoid

**Manufacturer:** Valeo

**Replacing:** 182442

**Servicing:** D11E101, D11E144, D11E43, D11E57, D11E58, D11E62, D11E67, D11E71, D11E73, D11E74, D11E74T, D11E77

12 Volt, B+ M8, OD 47.70, OD/cover 53.30, Total length 154.00, Height/B+ 15.90, Coil bolt M8, Coil bolt 2 15.20, No./mount. holes 4, No./terminals 3



### 133169 5★ Solenoid

**Manufacturer:** Valeo

**Replacing:** 053459, 076870, 182442, CED402, CED406, CED41, CED416, CED429

**Servicing:** D11E144, D11E58, D11E69, D11E75, D11E78, D11E84, D11E85, D8E104, D8E106, D8E111, D8E113, D8E116

12 Volt, B+ M8, OD 47.70, OD/cover 53.30, Total length 154.00, Height/B+ 15.90, Coil bolt M8, Coil bolt 2 15.20, No./mount. holes 4, No./terminals 3





### 133178 Solenoid

Replacing: 612459

Servicing: 6160D, 6160E, 6160F, 6160G, 6169A, 6169B

12 Volt, B+ M8, OD 46.30, OD/cover 51.15, Total length 122.00, Height/B+ 19.60, Terminal 50 M5, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 4, No./terminals 3  
Cap: HC-CARGO 131323.



### 133532 Solenoid

Replacing: 104594, CED541, NE159

Servicing: D9E46, D9E55, D9E68, D9E78, D9E79, D9E278

12 Volt, B+ M8, ID/cover 25.20, OD 54.00, OD/cover 48.20, Total length 112.25, Height/B+ 15.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.30, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 132826.

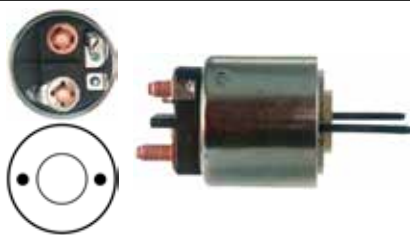


### 133533 Solenoid

Replacing: 106142, 106143, 182460, 594053, CED537, CED546, CED548, NE141, NE142

Servicing: D10E85, D10E92, D10E921, D10E922, D9E113, D9E114, D9E45, D9E772, D9E773, D9E776, D9R112, D9E137

12 Volt, B+ M8, ID/cover 25.30, OD 54.00, OD/cover 48.00, Total length 112.25, Height/B+ 15.30, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.50, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 132826.



### 133534 Solenoid

Replacing: 105254, 182462, CED543, NE134, NE140

Servicing: D10E87, D9E100, D9E200, D9E300, D9E81, D9E87, D9E95, D9E140

12 Volt, B+ M8, ID/cover 25.00, OD 54.00, OD/cover 48.00, Total length 112.00, Height/B+ 15.25, Terminal 15A/width 14.95, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.45, No./mount. holes 2, No./terminals 4



### 135390 Solenoid

Replacing: 594118, 594140, 594365, 594426

Servicing: TM000A27601, D6RA572, D6RA100, D7R1, D7R11, D7R15, D7R151, D7R3, D6RA42, D6RA43, D7R45

12 Volt, B+ M8, ID/cover 25.25, OD 53.90, OD/cover 47.85, Total length 80.30, Height/B+ 16.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 11.25, No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 132034.

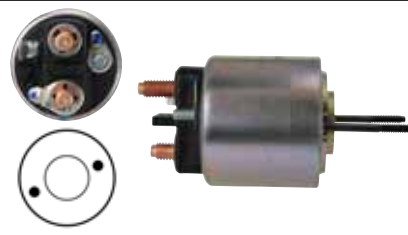


### 136255 Solenoid

Replacing: 182717, 594271, 594280, 594607, 594704

Servicing: D6RA138, D6RA32, D7R46, D6RA17, D6RA18, D6RA19, D6RA22, D6RA27, D6RA29, D6RA34, D6RA40, D6RA50

12 Volt, B+ M8, ID/cover 25.15, OD 53.90, OD/cover 45.65, Total length 91.60, Height/B+ 27.25, Terminal 50 M6, Coil bolt M8, Coil bolt 2 11.20, No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 136367.



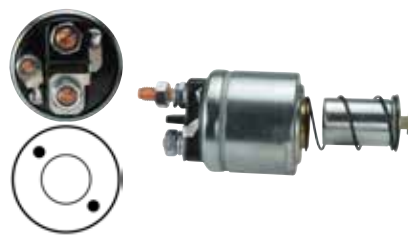
### 137300 Solenoid

Replacing: 594054

Servicing: D9R116, D9R144

12 Volt, B+ M8, ID/cover 25.30, OD 53.85, OD/cover 44.30, Total length 111.80, Height/B+ 15.20, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.60, No./mount. holes 2, No./terminals 4

Insulated return. Cap: HC-CARGO 232010.



### 139476 Solenoid

Replacing: 594347, 594421, 594447, 594452, CED5033

Servicing: D7E4, D7E8, D7E4, D7E8, D7E29, D7E30, D7E31, TS8E3, TS8E4, D7E32, D7E18, D7E38, D7E40

12 Volt, B+ M8, ID/cover 25.00, OD 53.75, OD/cover 45.75, Total length 80.70, Height/B+ 15.30, Terminal 50 M6, Coil bolt M8, Coil bolt 2 11.10, No./mount. holes 2, No./terminals 3  
Cap: HC-CARGO 231268.



### 231163 Solenoid

Replacing: 594362

Servicing: D6RA81, D6RA181, D6RA59, D6RA91

12 Volt, 1.0 kW, B+ M8, ID/cover 17.60, OD 54.00, OD/cover 51.90, Total length 89.30, Switch dim. 7.50, Height/B+ 29.50, Terminal 50 M6, No./mount. holes 3, No./terminals 3, Bracket type Crimp





### 231610 Solenoid

Replacing: 594181

Servicing: D6RA37, D6RA50, D6RA51, D6RA511, D6RA57, D6RA571

12 Volt, B+ M8, ID/cover 25.00, OD 54.00, OD/cover 45.40, Total length 91.00, Height/B+ 19.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 14.70, No./mount. holes 3, No./terminals 3

Cap: HC-CARGO 231765.



### 231718 Solenoid

Replacing: 594208

Servicing: D6RA133, D6RA141, D6RA33, D6RA41, D6RA45, D6RA53, D6RA63, D6RA46, D6RA61

12 Volt, 1.0 kW, B+ M8, ID/cover 25.20, OD 54.00, OD/cover 44.50, Length 48.50, Total length 80.15, Height/B+ 15.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.35, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o

Cap: HC-CARGO 132826.



### 232011# Solenoid

Replacing: 182458

Servicing: D9E55

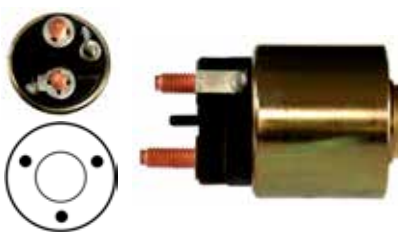
12 Volt, B+ M8, ID/cover 25.20, OD 54.00, OD/cover 44.50, Total length 112.30, Height/B+ 15.00, Terminal 15A/width 8.80, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.40, No./mount. holes 2, No./terminals 3



### 232011# Solenoid

Replacing: 102295, 182458, CED530, NE421

12 Volt, B+ M8, ID/cover 25.20, OD 54.00, OD/cover 44.50, Total length 112.30, Height/B+ 15.00, Terminal 15A/width 8.80, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.40, No./mount. holes 2, No./terminals 3



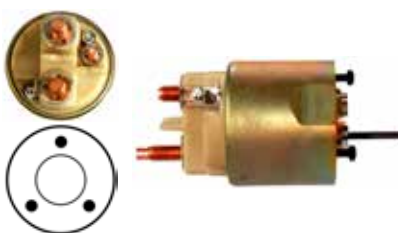
### 232012 Solenoid

Replacing: 594048, 594183, NE898

Servicing: D8R29, D6RA12, D6RA16, D6RA161, D6RA38, D6RA66, D6RA661, D6RA72

12 Volt, B+ M8, ID/cover 25.25, OD 53.85, OD/cover 45.40, Total length 91.40, Height/B+ 19.70, Terminal 50 M5, Coil bolt M8, Coil bolt 2 14.65, No./mount. holes 3, No./terminals 3

Cap: HC-CARGO 231766.



### 232041 Solenoid

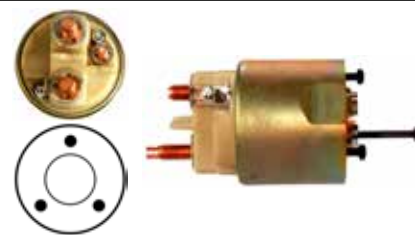
Manufacturer: Valeo

Replacing: 594411

Servicing: D7R44

12 Volt, B+ M8, ID/cover 25.25, OD 54.00, OD/cover 45.85, Total length 91.00, Height/B+ 19.45, Terminal 50 M5, Coil bolt M8, Coil bolt 2 9.35, No./mount. holes 3, No./terminals 3

Alternative no.: 335192



### 232041 Solenoid

Manufacturer: Valeo

Replacing: 594411, 594638

Servicing: D7R47, D7R49, D6RA105, D6RA115, D7R44, D8R49

12 Volt, B+ M8, ID/cover 25.25, OD 54.00, OD/cover 45.85, Total length 91.00, Height/B+ 19.45, Terminal 50 M5, Coil bolt M8, Coil bolt 2 9.35, No./mount. holes 3, No./terminals 3

Alternative no.: 335192



### 233708 Solenoid

Replacing: 594266

Servicing: D9R149

12 Volt, B+ M8, ID/cover 39.35, OD 54.00, OD/cover 51.85, Total length 119.00, Height/B+ 15.58, Terminal 50 M6, Coil bolt M8, Coil bolt 2 10.85, No./mount. holes 2, No./terminals 3, Fork lever w/o

Cap: HC-CARGO 136367.



### 233795 Solenoid

Replacing: 594380, 594413, 594454

Servicing: D7ES2, D7ES4, D7ES5, TS18E7, D7ES1

12 Volt, B+ M8, ID/cover 28.45, OD 54.20, OD/cover 48.80, Length 48.65, Total length 108.50, Height/B+ 18.20, Coil bolt M8, Coil bolt 2 15.25, No./mount. holes 2, No./terminals 3, Fork lever w/o

Cap: HC-CARGO 233076.





### 234153 Solenoid

Replacing: 594401

Servicing: D6RA83, D6RAP229, D6RA293, D6RA92, D6RA93

12 Volt, B+ M8, ID/cover 25.30, OD 54.00, OD/cover 45.85, Total length 79.65, Height/B+ 15.40, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.20, No./mount. holes 3, No./terminals 3

Cap: HC-CARGO 231268. Moving contact: HC-CARGO 132037.



### 234388 Solenoid

Replacing: 594391

Servicing: D7RS29, D7RS30, D7RS129, D7RS130, D7RS301

12 Volt, B+ M8, ID/cover 25.00, OD 54.00, OD/cover 49.10, Total length 95.25, Height/B+ 20.40, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 8.85, No./mount. holes 3

Cap: HC-CARGO 233076. Moving contact: HC-CARGO 132037.

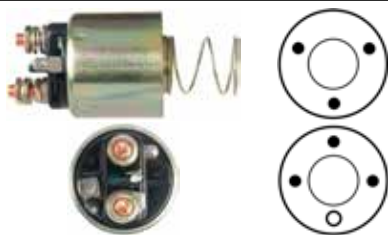


### 234389 Solenoid

Replacing: 594392

Servicing: D7RS31, D7RS131

12 Volt, B+ M8, ID/cover 24.40, OD 54.40, OD/cover 48.40, Total length 90.90, Height/B+ 25.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.30, No./mount. holes 3, No./terminals 3



### 234579 Solenoid

Replacing: 594046, CED580

Servicing: D6RA21, D6RA6, D6RA61, D6RA133, D6RA56, D6RA73, D7R35

12 Volt, 1.1 kW, B+ M8, ID/cover 24.80, OD 54.10, Height/B+ 20.60, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 15.00, No./mount. holes 3, No./terminals 3, Bracket type Crimp

Cap: HC-CARGO 132826.



### 234778 Solenoid

Replacing: 594288

Servicing: D7E1, TS8E1

12 Volt, B+ M8, ID/cover 25.20, OD 54.00, OD/cover 47.50, Total length 83.45, Height/B+ 20.40, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 9.30, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 132033.



### 234846 5★ Solenoid

Manufacturer: Valeo

Replacing: 594463

Servicing: D7ED28, D7ED281

12 Volt, B+ M8, ID/cover 23.80, OD 51.00, OD/cover 45.15, Total length 119.00, Height/B+ 20.80, Terminal 50 M6, Coil bolt M8, Coil bolt 2 9.65, No./mount. holes 2, No./terminals 3



### 234944 Solenoid

Replacing: 594449

Servicing: D6RA110, D6RA101, D6RA104

12 Volt, 1.1 kW, B+ M8, OD 54.00, OD/cover 52.00, Total length 88.00, Height/B+ 16.50, Terminal 50 M5, No./mount. holes 3, No./terminals 3, Bracket type Crimp

Moving contact: HC-CARGO 132037.



### 234969 Solenoid

Replacing: 594407

Servicing: D7E15, D7E20, 1250128, TM000A34101, TM000A36101

12 Volt, B+ M8, ID/cover 25.20, OD 54.00, OD/cover 45.60, Total length 80.85, Height/B+ 15.55, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.80, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 132826.



### 235077 Solenoid

Servicing: TM000V23601, HQ808670, MG122202, MG122433, TM000A18601, TM000A23601

12 Volt, B+ M8, OD 55.30, Total length 111.50, Height/B+ 14.50, Terminal 50 6.30, No./terminals 3, Bracket type Crimp

Cap: HC-CARGO 134626.



### 235106 Solenoid

Replacing: 594348

Servicing: D6G3, D7E16, D7E23, TS10E1, TS8E2, D7E2, D7E25, D7E5

12 Volt, B+ M8, OD 54.00, Total length 81.50, Height/B+ 16.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 11.50, No./mount. holes 3, No./terminals 3





### 235268 Solenoid

Replacing: 594474

Servicing: D7RS150, D7RS50

12 Volt, B+ M8, OD 54.17, OD/cover 51.76, Length 48.35, Total length 145.42, Height/B+ 60.00, Terminal 15A/width 30.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 6.76, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 235416 Solenoid

Replacing: 594431

Servicing: D7R48

12 Volt, B+ M8, OD 54.00, Total length 75.40, Height/B+ 16.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.00, No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 132826.



### 235869 Solenoid

Replacing: 594610

Servicing: D7E27, D7E47

12 Volt, B+ M8, OD 53.80, Length 48.80, Total length 94.20, Height/B+ 24.42, Terminal 50 M5, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Bracket, Fork lever w/o



### 236239 Solenoid

Replacing: 594467

Servicing: D7G4

12 Volt, B+ M8, OD 53.75, OD/cover 44.30, Length 48.75, Total length 136.00, Height/B+ 16.00, Terminal 50 M6, Coil bolt M8, No./mount. holes 2, No./terminals 4, Bracket type Crimp, Fork lever w/o



### 236258 Solenoid

Replacing: 594438

Servicing: 105119C, D7E19, D7E22, D7E26, D7E6, TS10E3, TS10E4, TS10E5

12 Volt, B+ M8, OD 54.15, Total length 74.70, Height/B+ 15.00, Terminal 50 M5, Coil bolt M8, Coil bolt 2 9.00, No./mount. holes 2, No./terminals 3, Bracket type Crimp



### 236269 Solenoid

Replacing: 594658

Servicing: D7G11, TS2232, TS22E5, TS22E5B, TS22E8, TS22E9, TS24E2

12 Volt, 2.0 kW, B+ M8, OD 54.00, OD/cover 45.50, Total length 89.00, Height/B+ 19.50, Terminal 50 M5, Coil bolt M8, No./mount. holes 2, No./terminals 3, Bracket type Crimp



### 236626 Solenoid

Replacing: 594617, 594743, 595617, 595726

Servicing: D6GS11, ESW20ER121, TS18E1, 191335, 458389, D6GS12, D6GS12M, D6GS13, D6GS14, D6GS19, D7GS10, D7GS8

12 Volt, 1.0 kW, B+ M8, OD 54.00, Total length 100.30, Height/B+ 19.50, Terminal 50 Plug, Coil bolt M8, Coil bolt 2 9.45, No./mount. holes 2, No./terminals 3

Cap: HC-CARGO 236627.



### 236801 Solenoid

Replacing: 594646

Servicing: D6G1, D6G32, D6G321

12 Volt, OD 54.00, No./terminals 3



### 236975 Solenoid

Replacing: 594414

Servicing: D6RA137, D6RA138, D6RA187, D6RA188, D6RA87

12 Volt, B+ M8, OD 54.00, OD/cover 46.00, Total length 89.30, Height/B+ 17.50, Terminal 50 M6, Coil bolt M8, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o



### 236980 Solenoid

Servicing: TM000A31201

12 Volt, B+ M8, OD 52.51, OD/cover 49.10, Length 43.29, Total length 118.10, Switch dim. 7.83, Height/B+ 13.90, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 13.00, No./mount. holes 4, No./terminals 3, Fork lever w/o



### 237686 Solenoid

Servicing: D7E39, TS8E6

12 Volt, B+ M8, OD 54.00, Total length 59.00, Height/B+ 14.50, Terminal 50 M5, No./mount. holes 2, No./terminals 3



### 238193 Solenoid

Replacing: 594632, 595731

Servicing: D7E55, TS22E26, 190895, D7G26, D7G3, TS18E13

12 Volt, 2.2 kW, B+ M8, OD 54.10, Total length 88.75, Height/B+ 16.10, Terminal 50 M5, Coil bolt M8, Coil bolt 2 9.30, No./mount. holes 2, No./terminals 3





### 239966 Solenoid

Replacing: 594459

Servicing: D7E52

12 Volt, B+ M8, OD 54.00,  
Total length 97.07, Height/B+ 18.00,  
No./mount. holes 3, No./terminals 2



### 330427 Solenoid

Servicing: TM000A38001

12 Volt, B+ M8, OD 49.76,  
Length 43.34, Total length 125.00,  
Height/B+ 15.00, Terminal 50 Plug,  
Coil bolt M8, Coil bolt 2 13.00,  
No./mount. holes 2, No./terminals 3,  
Bracket type Crimp, Fork lever w/o



### 330549 Solenoid

Replacing: 2EM0588F, 330549

Servicing: TM000A37201

12 Volt, B+ M8, OD 49.70, Length 43.30,  
Total length 120.20, Height/B+ 14.50,  
Terminal 50 6.30, Coil bolt M8,  
Coil bolt 2 12.80, No./mount. holes 2



### 330689 Solenoid

Manufacturer: Valeo

Replacing: 594724

Servicing: D6G5

12 Volt, B+ M8, OD 54.29,  
Total length 89.46, Height/B+ 20.80,  
Terminal 50 M6, Coil bolt M8,  
Coil bolt 2 9.32, No./mount. holes 2,  
No./terminals 3, Bracket type Crimp



### 331640 Solenoid

Replacing: 594731

Servicing: D7G14

12 Volt, 1.7 kW, B+ M8, OD 54.23,  
Length 48.54, Total length 89.49,  
Height/B+ 20.70, Terminal 50 M6,  
Coil bolt M8, Coil bolt 2 9.07,  
No./mount. holes 3, No./terminals 3,  
Bracket type Crimp, Fork lever w/o



### 331697 Solenoid

Servicing: M56290, TM000A31001

12 Volt, B+ M8, OD 49.30, OD/cover 46.50,  
Length 43.30, Total length 120.00,  
Switch dim. 8.00, Height/B+ 15.50,  
Terminal 50 6.30, Coil bolt M8,  
Coil bolt 2 12.70, No./mount. holes 2,  
No./terminals 3, Fork lever w/o



### 332103 Solenoid

Replacing: 594773, 594779

Servicing: D6G33, D6G332, TS18E33, TS18E331

12 Volt, 1.1 kW, B+ M8, OD 54.00,  
Length 43.96, Total length 79.80,  
Height/B+ 15.21, Terminal 50 M6, Coil bolt M8,  
Coil bolt 2 9.45, No./mount. holes 2,  
No./terminals 3, Bracket type Crimp



### 332118 Solenoid

Servicing: 1250303, S0001250303

12 Volt, B+ M8, OD 49.90,  
Length 42.90, Total length 125.00,  
Height/B+ 15.00, Terminal 50 Plug,  
Coil bolt M8, Coil bolt 2 13.50,  
No./mount. holes 2, No./terminals 3,  
Bracket type Crimp, Fork lever w/o



### 332529 Solenoid

Servicing: TS14E110

12 Volt, B+ M8, OD 54.00, OD/cover 51.95,  
Total length 91.25, Switch dim. 6.70,  
Height/B+ 15.50, Terminal 50 M5,  
Coil bolt M8, Coil bolt 2 10.00,  
No./mount. holes 2, No./terminals 3



### 332536# Solenoid

Servicing: M60082

12 Volt, B+ M8, OD 49.70, OD/cover 47.45,  
Length 43.10, Total length 118.50,  
Switch dim. 9.50, Height/B+ 14.00,  
Terminal 50 6.30, Coil bolt M8,  
Coil bolt 2 12.50, No./mount. holes 2,  
No./terminals 3



### 332681 Solenoid

Replacing: 594610

Servicing: TS12E9

12 Volt, B+ M8, OD 54.00,  
OD/cover 52.00, Total length 91.35,  
Switch dim. 6.60, Height/B+ 19.00,  
Terminal 50 M5, Coil bolt M8,  
Coil bolt 2 9.50, No./mount. holes 2,  
No./terminals 3



### 333722 Solenoid

12 Volt, B+ M8, OD 43.25,  
OD/cover 38.30, Total length 101.50,  
Height/B+ 13.60, Coil bolt M6,  
No./mount. holes 2, No./terminals 3,  
Bracket type Crimp, Fork lever w/o





**333964** Solenoid  
12 Volt, B+ M8, ID/eye 8.30, OD 43.20, OD/cover 38.50, Total length 98.00, Height/B+ 14.50, Coil bolt M6, Coil bolt 2 13.80, No./mount. holes 2, No./terminals 3, Bracket type Crimp, Fork lever w/o



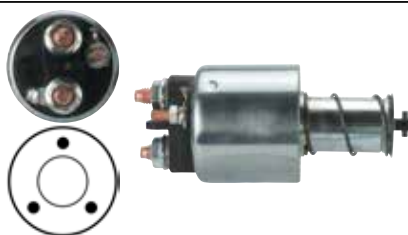
**334128** Solenoid  
Servicing: 1195239  
12 Volt, 0.9 kW, B+ M8, OD 43.20, Total length 96.70, Height/B+ 15.00, Terminal 50 6.30, Coil bolt M6, Coil bolt 2 12.50, No./mount. holes 2



**334146** Solenoid  
Replacing: 594784  
Servicing: TS24E3, TS24E30  
12 Volt, B+ M8, OD 53.80, OD/cover 52.10, Switch dim. 6.50, Height/B+ 13.00, Terminal 50 4.70, Coil bolt M8, Coil bolt 2 8.50, No./mount. holes 2, No./terminals 3, Fork lever w/



**334304** Solenoid  
Servicing: TM000A37001  
12 Volt, B+ M8, OD 52.00, Length 43.20, Height/B+ 14.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.00, No./mount. holes 2, No./terminals 3, Fork lever w/o



**335192** Solenoid  
Replacing: 594411, 594638  
Servicing: D6RA105, D6RA115, D7R44, D7R47, D7R49, D8R49  
12 Volt, B+ M8, OD 54.00, OD/cover 44.50, Length 48.50, Total length 122.00, Height/B+ 15.50, Terminal 50 M5, Coil bolt M8, Coil bolt 2 11.50, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o  
Alternative no.: 232041



**335389** Solenoid  
Replacing: 594047, 594087, 594117  
12 Volt, B+ M8, OD 54.00, OD/cover 45.50, Total length 76.00, Height/B+ 15.00, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 10.60, No./mount. holes 3, No./terminals 3, Bracket type Crimp, Fork lever w/o  
Alternative no.: 132977

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**335710** Solenoid  
Servicing: ESW22-11  
12 Volt, B+ M8, OD 54.00, Total length 86.00, Terminal 50 M5, Coil bolt M8, No./mount. holes 2, No./terminals 3



**335714** Solenoid  
Servicing: TS22E28  
12 Volt, B+ M8, OD 54.00, Total length 84.00, Terminal 30H M8, Terminal 30H/width 11.00, Terminal 50 M6, No./mount. holes 2, No./terminals 3, Fork lever w/o



**335718** Solenoid  
Servicing: ESW10-12  
12 Volt, B+ M8, OD 54.00, Total length 96.50, Height/B+ 15.00, Terminal 50 M5, Coil bolt M6, Coil bolt 2 10.00, No./mount. holes 2, No./terminals 3

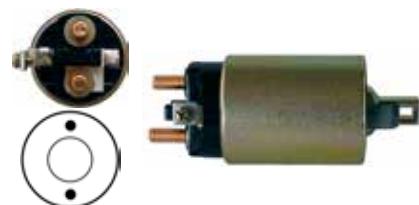
**NEW PRODUCT**  
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**336105** Solenoid  
Servicing: ESW10E7  
12 Volt, B+ M8, OD 54.05, Total length 101.30, Height/B+ 15.00, Terminal 50 M5, Coil bolt M6, Coil bolt 2 10.50, No./mount. holes 2, No./terminals 3

**NEW PRODUCT**  
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**337334** Solenoid  
Servicing: FS10M3  
12 Volt, B+ M8, OD 43.10, Total length 96.50, Height/B+ 13.00, Terminal 50 M5, Coil bolt M6, Coil bolt 2 13.00, No./mount. holes 2, No./terminals 3

**24 V**



**132591** Solenoid  
Replacing: M372X10171  
Servicing: MG232415  
24 Volt, B+ M8, ID/eye 6.15, OD 55.15, OD/cover 48.75, Total length 138.40, Height/B+ 22.00, Terminal 50 9.40, Coil bolt M8, Coil bolt 2 17.10, No./mount. holes 2, No./terminals 3, Fork lever w/



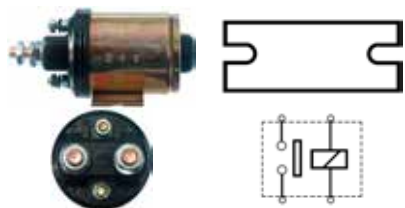


### 132968 Solenoid

Replacing: 101091, 181142, 182432, CED621

Servicing: D13E107TE, D13E109TE, D13E110TE, D13E117TE, D13E118TE, D13E123TE, D13E76, D13E77, D13E77T, D13E86TE

24 Volt, B+ M10, OD 68.20, OD/cover 69.85, Total length 228.70, Height/B+ 28.85, Terminal 50 M5, Coil bolt M10, Coil bolt 2 17.55, No./mount. holes 3, No./terminals 3  
Cap: HC-CARGO 136005.



### 133697 Solenoid

Replacing: 098932, CEZ113

24 Volt, 100 Amp, Intermittent load 500 Amp., B+ M8, OD 47.65, OD/cover 52.35, Total length 106.25, Height/B+ 19.00, Terminal 15A/width 13.85, Terminal 50 M5, Coil bolt M8, Coil bolt 2 19.00, Seconds 5, No./mount. holes 2, No./terminals 4  
Universal.



### 235151 Solenoid

Servicing: M000A0301

24 Volt, B+ M10, OD 64.11, Total length 213.00, Height/B+ 18.16, Terminal 50 M5, Coil bolt M10, Coil bolt 2 17.79, No./mount. holes 4, No./terminals 3, Fork lever w/o

## Safety Switches

24 V



### 235150 Safety Switch

Servicing: M000A0301

24 Volt, OD 34.50, Total length 76.70, Terminal 50 M4, No./mount. holes 2

## Solenoid Parts

### Solenoid Caps



### 131330 Solenoid Cap

Servicing: CED401, CED403, CED404, CED407, CED408, CED409, CED41, CED410, CED413, CED42, D11E188, D11E192

ID 41.20, OD 52.15, Coil bolt M8, Coil bolt 2 11.35, No./terminals 3

Pkg. 5



### 132033 Solenoid Cap

Servicing: 102217, 594047, 594048, 594119, 594288, CED529, D6RA30, D6RA40, D6RA47, D7E1, D9E101, D9E108, D9E36

ID 38.55, OD 51.60, Coil bolt M8, Coil bolt 2 10.60, No./terminals 3, Bracket type Crimp  
HC-CARGO 131171.

Pkg. 5



### 132034 Solenoid Cap

Servicing: 101062, TS14E110, 188839, CED521, D6RA100, D6RA101, D6RA104, D6RA37, D6RA42, D6RA43, D6RA51

ID 38.00, OD 51.35, Coil bolt M8, Coil bolt 2 11.35, No./terminals 3, Bracket type Crimp  
HC-CARGO 135390.

Pkg. 5



### 132826 Solenoid Cap

Servicing: 102849, 103794, 104594, 104604, 105489, 106142, 106143, D9E86, 1250128, CED533, CED537, CED538

ID 38.85, OD 51.35, Coil bolt M8, Coil bolt 2 10.75, No./terminals 3, Bracket type Crimp  
HC-CARGO 131584, 132024, 132025, 132976, 133163, 133532, 133533, 234579.



### 133155 Solenoid Cap

Servicing: CED5, CED506, CED519, CED53, CED58, D11E109, D11E142, D11E159, D11E172, D11E272

ID 49.15, OD 60.00, Coil bolt M8, Coil bolt 2 12.85, No./terminals 3

Pkg. 5



### 133287 Solenoid Cap

Servicing: M62957, TM000A14401, 1250300, 1250302, M000A0240Z, M04686, M39646, M42373, M43196, M52100, M53486

ID 37.45, OD 49.45, Coil bolt M8, Coil bolt 2 14.10, No./terminals 3, Bracket type Crimp  
HC-CARGO 132917, 133052, 133288, 138618, 139408, 231977.



### 133620 Solenoid Cap

Servicing: 074764, CED502, CED504, CED510, CED512, D10E48, D10E63, D10E80, D11E120, D11E131, D11E156, D11E158

ID 43.00, OD 60.65, Coil bolt M8, Coil bolt 2 14.95, No./terminals 3



### 134401 Solenoid Cap

Servicing: 073302, 182438, CED501, CED539, D11E119, D11E119T, D11E120, D11E126, D11E131, D11E137, D11E154

ID 43.00, OD 60.60, Coil bolt M8, Coil bolt 2 15.00, No./terminals 3  
HC-CARGO 131071.





### 134402 Solenoid Cap

**Servicing:** 105119C, D6RA105, D6RA115, D7E27, D7E39, D7E47, D8R28, D8R49, 182458, 594438, 626002, D6RA114  
ID 38.45, OD 51.90, Coil bolt M8, Coil bolt 2 18.45, No./terminals 3, Bracket type Crimp  
HC-CARGO 132977, 133128, 133166, 232011.



### 134626 Solenoid Cap

**Servicing:** MG120413, MG122404, MG232415, TM000A06901  
ID 43.80, OD 53.55, Coil bolt M8, Coil bolt 2 13.15, No./terminals 3, Bracket type Crimp  
HC-CARGO 235077, 231981.



### 136005 Solenoid Cap

**Replacing:** 182148  
**Servicing:** D13E107TE, D13E109TE, D13E110TE, D13E76, D13E77, D13E77T, D13E86TE, D13E87TE, D13E93TE, D13E94TE  
ID 59.15, OD 70.25, Coil bolt M10, Coil bolt 2 26.50, No./terminals 3  
HC-CARGO 132968.



### 136367 Solenoid Cap

**Servicing:** D6G332, D6G33, D6RA132, D6RA162, D6RA163, D6RA167, D6RA249, D6RA32, D6RA62, D6RA65, D6RA67, D7EP12  
ID 39.35, OD 51.85, Coil bolt M8, Coil bolt 2 10.85, No./terminals 3, Bracket type Crimp  
HC-CARGO 136255, 233708.



### 138172 Solenoid Cap

**Servicing:** 182428, CED67, D11E122, D11E122T  
ID 58.55, OD 69.65, Coil bolt M10, Coil bolt 2 17.00, No./terminals 3



### 231268 Solenoid Cap

**Servicing:** D6RAP229, D7E32, 594347, 594401, CED5033, D6RA181, D6RA293, D6RA59, D6RA81, D6RA83, D6RA91, D6RA92  
ID 39.15, OD 51.75, Coil bolt M8, Coil bolt 2 10.80, No./terminals 3, Bracket type Crimp  
HC-CARGO 139476, 234153.



### 231765 Solenoid Cap

**Servicing:** 190895, TS18E13, 594181, D6G3, D6RA110, D6RA37, D6RA51, D6RA511, D6RA57, D6RA571, D7E16, D7E2  
ID 39.40, OD 51.50, Coil bolt M8, Coil bolt 2 14.80, No./terminals 3, Bracket type Crimp  
HC-CARGO 231610.



### 231766 Solenoid Cap

**Servicing:** 594181, D8R27, D8R29  
ID 39.45, OD 51.50, Coil bolt M8, Coil bolt 2 14.00, No./terminals 3, Bracket type Crimp  
HC-CARGO 232012.



### 232010 Solenoid Cap

**Servicing:** 594054, D9R116, D9R144  
ID 38.70, OD 51.55, Switch dim. 7.30, Coil bolt M8, Coil bolt 2 10.50, No./terminals 4, Bracket type Crimp  
HC-CARGO 137300.



### 233076 Solenoid Cap

**Servicing:** 594380, 594391, D7ES1, D7ES2, D7ES4, D7ES5, D7RS129, D7RS130, D7RS29, D7RS30, D7RS301  
ID 38.00, OD 52.00, Coil bolt M8, Coil bolt 2 8.80, No./terminals 3  
HC-CARGO 233795, 234388.



### 235384 Solenoid Cap

**Servicing:** TM000A27601, TM000A37201  
ID 37.45, OD 47.16, Switch dim. 10.80, Coil bolt M8, Coil bolt 2 13.27, No./terminals 3, Bracket type Crimp  
HC-CARGO 235210.



### 235826 Solenoid Cap

ID 20.90, OD 49.50, Switch dim. 8.90, Coil bolt M8/15.00, No./terminals 2

Pkg. 5

Pkg. 5

Pkg. 5

Pkg. 5

Pkg. 5

Pkg. 5

Pkg. 5





Pkg. 5

### 236240 Solenoid Cap

Servicing: D7G4

OD 51.80, Switch dim. 6.50,  
Coil bolt M8, Coil bolt 2 12.00,  
No./terminals 4, Bracket type Crimp


Pkg. 5

### 236627 Solenoid Cap

Servicing: 191335, D6GS12, D6GS13,  
D6GS14, D7GS10, D7GS8, TS18E3, TS18ER20,  
ESW20ER25, TS22ER13, TS18ER22

OD 51.85, Switch dim. 6.20,  
Coil bolt M8, Coil bolt 2 11.50,  
No./terminals 3


Pkg. 5

### 236802 Solenoid Cap

Servicing: D6G1, D6G321, D6G32, D7E52,  
G6G32

OD 52.00, Switch dim. 6.00,  
Coil bolt M8, Coil bolt 2 10.00,  
No./terminals 2

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### 237964 Solenoid Cap

OD 52.60, Switch dim. 7.00,  
No./terminals 3


Pkg. 5

### 332682 Solenoid Cap

Servicing: D7E48, TS12E9

OD 52.00, Switch dim. 6.50,  
Coil bolt M8, Coil bolt 2 10.50,  
No./terminals 3

### Moving Contacts



Pkg. 5

### 132037 Moving Contact

Servicing: 103794, 104594, 104694,  
105119C, D7E27, CED538, CED541, CED546,  
D6G332, D6RAP229, D7E39, D7E47

OD 2 5.85, Length 33.20,  
Shaft dim. 28.00, Thickness 2.50,  
Width 14.00, Material Steel, Shaft w/  
Alternative no.: B132037


Pkg. 5

### 132124 Moving Contact

Servicing: 099378, 099932, 101062, 102190,  
102849, 104327, 105119C, 190895, D6G1,  
D6G321, D6G332, D6RA105

OD 2 5.85, Length 28.30,  
Shaft dim. 27.80, Thickness 2.50,  
Width 14.00, Material Copper, Shaft w/


Pkg. 10

### 133275 Moving Contact

Servicing: 1250300, 1250302, M000A0240Z,  
M39376, M39646, M42373, M43168, M43196,  
M53486, MC107023, MC108024

OD 2 6.00, Length 26.00, Thickness 2.60,  
Shaft dim. 26.00, Width 16.00/11.00,  
Material Copper, Shaft w/


Pkg. 5

### 135363 Contact Plate

ID 8.00, Length 33.35, Thickness 3.00,  
Width 15.00, Material Copper, Shaft w/o


Pkg. 100

### B132037 Moving Contact

Servicing: 190895, D6G1, D6G321, D6RA105,  
D6RA115, D7E32, D7E39, D7G3, D8R49,  
D9E86, TS14E110, TS18E13

OD 2 5.85, Length 33.20,  
Shaft dim. 28.00, Thickness 2.50,  
Width 14.00, Shaft w/  
Alternative no.: 132037

### Fixed Contacts



Pkg. 10

### 134152 Fixed Contact

Servicing: D6G1, D6G321, D7E27, D7E47,  
D6RA91, TS22E45

Total length 47.65, Length/rear collar 42.00,  
Thread length 36.20, Thread size M8,  
Shaft w/, Washer w/o


Pkg. 125

### 134153 Fixed Contact

Servicing: D6G1, D6G321, D7E27, D7E47,  
D9E140, ESW10E40, ESW20E26, TS18ER20,  
TS22E45, ESW20ER25, TS22ER13

Total length 28.50, Length/rear collar 23.50,  
Thread length 15.85, Thread size M8,  
Shaft w/, Washer w/o  
Alternative no.: 335920



Pkg. 10



### 134154 Fixed Contact

Servicing: D6RA105, D6RA115, D9E140, TS14E110, D6RA110, D7E22, ESW10E40, ESW20E26, TS18ER20, ESW20ER25  
Total length 37.50, Length/rear collar 32.00, Thread length 22.70, Thread size M8, Shaft w/, Washer w/o

## Drives



### 130424 Drive

Replacing: 681378  
Servicing: 532021A, 532023A  
ID 12.00, OD 25.20, OD/housing 46.20, Total length 59.50, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 130425 Drive

Replacing: 060991  
Servicing: 6139B, 6139C  
ID 12.00, OD 29.00, OD/housing 46.00, Total length 59.85, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 130432 Drive

Replacing: 076651, 078862, 092079, 093297, 096118, 612355  
Servicing: 532005A, 532007A, 532020A, 532020B, 532026A, 533000A, 533002A, 533003A, 533004A, 534003A, 534003B  
ID 12.00, OD 25.25, OD/housing 46.20, Total length 68.05, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130434 Drive

Replacing: 079692, 681380  
Servicing: 532001B, 532017A  
ID 12.00, OD 25.30, OD/housing 46.45, Total length 61.70, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130456 Drive

Replacing: 055105, 070672  
Servicing: 182442, D11E142, D11E143, D11E109, D11E159  
ID 14.00, OD 29.00, OD/housing 59.20, Total length 76.15, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130461 Drive

Replacing: 059058, 073684, 075162, 075165, 078265, 092179, 093509, 093670, 096859, 097298, NE185, NE485  
Servicing: D10E48, D10E63, D10E80, D8E104, D8E122, D8E124, D8E76, D8E96  
ID 12.00, OD 25.30, OD/housing 46.90, Total length 69.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130463 Drive

Replacing: 077776, 078861, 079011, 092181, 092448, 093321, 095381  
Servicing: D8E107, D8E115, D8E117, D8E129, D8E133, D8E134, D8E137, D8E139, D8E147, D8E151, D8E54, D9E11, D9E18  
ID 12.00, OD 25.30, OD/housing 46.85, Total length 66.40, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130757 Drive

Replacing: 053770, 075679, NE160  
Servicing: D11E93, D11E126  
ID 14.00, OD 36.10, OD/housing 53.15, Total length 75.75, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130759 Drive

Replacing: 076980, 093623, 097062, NE184  
Servicing: D8E121, D8E142, D8E152, D8E81, D9E12, D9E20, D9E22, D9E26, D9E34, D9E35, D9E37, D9E41, D8E21  
ID 12.00, OD 25.25, OD/housing 46.30, Total length 59.45, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130761 Drive

Replacing: 095956, 095958  
Servicing: D11E156, D11E161, D11E180  
ID 14.00, OD 36.00, OD/housing 54.34, Total length 77.55, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 130762 Drive

Replacing: 095990  
Servicing: D11E159, D11E165, D11E142  
ID 14.00, OD 29.20, OD/housing 54.25, Total length 76.00, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o





### 130948 Drive

Replacing: 098896, 106009

Servicing: D9E31, D9E32, D9E40, D9E45, D9E53, D9E64, D9E75, D9E82, D9E87, D9E95  
ID 12.00, OD 25.30, OD/housing 46.25, Total length 69.20, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131068 Drive

Replacing: 095442

Servicing: D11E153, D11E153T

ID 14.00, OD 36.25, OD/housing 65.55, Total length 75.80, Splines A 12, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131111 Drive

Replacing: 013610, 099931, 181804, 99931, NE197

Servicing: D9E100, D9E101, D9E109, D9E110, D9E113, D9E114, D9E124, D9E125, D9E127, D9E129, D9E136, D9E137

ID 12.00, OD 26.00, OD/housing 46.80, Total length 55.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



### 131170 Drive

Replacing: 099738

Servicing: D11E172, D11E272

ID 12.00, OD 27.75, OD/housing 46.00, Total length 61.60, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 131188 Drive

Replacing: 075593, 078863, 092081, 093625, 096119, 611734

Servicing: 532011A, 533001A, 6155H, 6155J, 6155K, 6155L

ID 12.00, OD 25.30, OD/housing 47.05, Total length 67.80, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/



### 131343 Drive

Replacing: 059390, 589173, NE155

Servicing: D15E29, D15E29TE, D15E30, D15E30TE

ID 20.00, OD 46.80, OD/housing 65.25, Total length 151.70, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o



### 131481 Drive

Replacing: 600033

Servicing: 37MT,

ID 14.35, OD 46.35, OD/housing 60.00, Total length 99.55, Shaft length 98.00, Splines A 3, No./teeth 12, Rotation CW, Key spline w/o, Lock w/  
Alternative no.: 335646



### 131769 Drive

Replacing: 600061

Servicing: 30MT,

ID 14.30, OD 29.30, OD/housing 60.10, Total length 95.20, Splines A 3, No./teeth 9, Rotation CW, Key spline w/o, Lock w/



### 131771 Drive

Replacing: 570904

ID 12.10, OD 25.88, OD/housing 47.00, Total length 108.00, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o, Lock w/o



### 131999 Drive

Replacing: 105538, 182047, 185182, 594245, NE209, NE883

Servicing: D9R73, D9R134

ID 12.00, OD 31.80, OD/housing 54.00, Total length 61.50, No./teeth 12, Rotation CW, Key spline w/o, Lock w/o



### 132020 Drive

Replacing: 105540

Servicing: D9R121, D9R84

ID 12.00, OD 27.70, OD/housing 54.00, Total length 61.50, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o



### 132021 Drive

Replacing: 180826, 181277, 182177

Servicing: D9R90

ID 12.00, OD 34.40, OD/housing 54.50, Total length 76.50, No./teeth 11, Rotation CW, Key spline w/o, Lock w/o





**132022** Drive  
 Replacing: 181068, 594040  
 Servicing: D9R105, D9R1050, D9R91  
 ID 12.00, OD 36.50, OD/housing 54.00,  
 Total length 61.50, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o



**132078** Drive  
 Replacing: 681398  
 Servicing: 6056H, 6056J, 6109F, 6109G,  
 6109H, 6109K, 6109L, 6160D, 6160E, 6160F,  
 6160G  
 ID 14.00, OD 29.30, OD/housing 60.50,  
 Total length 73.38, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o



**132170** Drive  
 Replacing: 079646  
 ID 14.00, OD 39.75, OD/housing 60.00,  
 Total length 84.75, No./teeth 10,  
 Rotation CW, Key spline w/o, Lock w/o



**132181** Drive  
 Replacing: 106140, 583289, 583336  
 Servicing: 534023A, 534029A, 534031A,  
 534032A, 534042A, 534042B, 534043A,  
 534044A, 534047A, 534039A, 534054D  
 ID 12.00, OD 25.25, OD/housing 46.25,  
 Total length 53.00, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o  
 w/ lever.



**132200** Drive  
 Replacing: 105325, 105332  
 Servicing: D11E191, D11E192  
 ID 12.00, OD 27.15, OD/  
 housing 46.55, Total length 78.55,  
 No./teeth 10, Drive type Steel,  
 Rotation CW, Key spline w/o, Lock w/o



**132899** Drive  
 Replacing: 075379  
 Servicing: D11E120, D11E131, D11E158  
 ID 14.00, OD 34.25, OD/housing 65.55,  
 Total length 75.75, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o



**132962** Drive  
 Replacing: 079333, 092718, 094635,  
 101598, 589074, NE195, NE515, NE575  
 Servicing: D13E107TE, D13E109TE,  
 D13E110TE, D13E77, D13E77T, D13E86TE,  
 D13E87TE, D13E94TE, D13E96TE, D13E110  
 ID 16.00, OD 46.85, OD/housing 65.35,  
 Total length 150.50, No./teeth 12,  
 Rotation CW, Key spline w/o, Lock w/o  
 For wet clutch.



**132974** Drive  
 Replacing: 184448, 594029, 594031, NE778,  
 NE784  
 Servicing: D6RA10, D6RA12, D6RA16,  
 D6RA18, D6RA20, D6RA23, D6RA26, D6RA37,  
 D6RA38, D6RA41, D6RA45, D6RA46  
 ID 12.00, OD 25.80, OD/housing 46.00,  
 Total length 51.00, No./teeth 9,  
 Key spline w/o, Lock w/o



**132975** Drive  
 Replacing: 184488, 594032  
 Servicing: D6RA13  
 ID 12.00, OD 29.30, OD/housing 48.00,  
 Total length 51.00, No./teeth 9,  
 Rotation CW, Key spline w/o, Lock w/o



**133712** Drive  
 Replacing: 074515  
 ID 12.55, OD 28.00, OD/housing 47.00,  
 Total length 59.55, Splines A 10,  
 No./teeth 8, Rotation CW,  
 Key spline w/o, Lock w/o



**133897** Drive  
 Replacing: 180827, 182176, 184530,  
 186456, 594042, NE776  
 Servicing: D9R112, D9R118, D9R122,  
 D9R135, D9R89, D9R99, D9R149, D9R119,  
 D9RP160, D9RP256  
 ID 12.00, OD 29.15, OD/housing 46.15,  
 Total length 61.55, No./teeth 11,  
 Rotation CW, Key spline w/o, Lock w/o



**134615** Drive  
 Replacing: 095976  
 Servicing: D11E158  
 ID 14.00, OD 34.25, OD/housing 65.60,  
 Total length 76.00, Splines A 12,  
 No./teeth 9, Rotation CW,  
 Key spline w/o, Lock w/o





### 135083 Drive

Replacing: 185441, 186020, 594108, NE830  
Servicing: D6RA32, D6RA33, D6RA39, D6RA48, D6RA49, D6RA59, D6RA61  
ID 12.00, OD 27.70, OD/housing 46.00,  
Total length 51.45, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 135084 Drive

Replacing: 185290, 188256, 594136, 594368, NE831  
Servicing: D7R1, D7R11, D7R15, D7R151, D7R2, D7R24, D7R3, D7R33, D7R4, D7R45, D7R64  
ID 12.00, OD 27.65, OD/housing 54.00,  
Total length 54.50, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 335403



### 135085 Drive

Replacing: 594163  
Servicing: D6RA46  
ID 12.00, OD 25.25, OD/housing 46.50,  
Total length 55.45, Splines A 10,  
No./teeth 9, Rotation CCW,  
Key spline w/o, Lock w/o  
Alternative no.: 333203 ★



### 135282 Drive

Replacing: 184194  
Servicing: D9R116, D9R144  
ID 12.00, OD 42.00, OD/housing 53.00,  
Total length 83.85, No./teeth 11,  
Rotation CW, Key spline w/o, Lock w/o  
Gear shaft: HC-CARGO 230963.



### 135389 Drive

Replacing: 185915, 549185, 594185  
Servicing: 188839, D7R51, D7R19, D7R28, D8R29, D7R12, D7R13, D7R16, D7R18, D7R20, D7R25, D7R26, D7R27, D7R35  
ID 12.00, OD 29.00, OD/housing 54.00,  
Total length 54.50, No./teeth 11,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 335230



### 135647 Drive

Replacing: 186867, 186938, 594214  
Servicing: D6RA137, D6RA138, D6RA141, D6RA161, D6RA165, D6RA185, D6RA187, D6RA188, D6RA511, D6RA53, D6RA571  
ID 12.00, OD 25.30, OD/housing 46.30,  
Total length 51.60, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 136426 Drive

Replacing: 056328, 074658, NE483, NE484  
Servicing: D11E92, D11E92T, D11E119, D11E119T, D11E129, D11E129T, D11E137, D11E141, D11E154, D11E155  
ID 16.00, OD 40.00, OD/housing 65.65,  
Total length 82.65, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 136642 Drive

Replacing: 097394, 099394  
Servicing: D11E167T, D11E202  
ID 14.10, OD 35.50, OD/housing 60.00,  
Total length 83.70, Splines A 12,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 137271 Drive

Replacing: 101910  
Servicing: D9E51  
ID 12.00, OD 40.15, OD/housing 47.65,  
Total length 70.25, No./teeth 13,  
Rotation CCW, Key spline w/o,  
Lock w/o



### 137733 Drive

Replacing: 594177, 594252, 594419  
Servicing: D6RA133, D6RA162, D6RA249, D6RA56, D6RA62, D6RA73, D6RA82, D6RA83, D6RAP229, D6RA100  
ID 12.00, OD 27.75, OD/housing 46.35,  
Total length 51.70, Splines A 10,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o



### 138113 Drive

Replacing: 187077, 594247  
Servicing: D6RA76, D6RA77, D6RA78, D6RA79  
ID 12.10, OD 27.85, OD/housing 47.55,  
Total length 51.45, Splines A 10,  
No./teeth 8, Rotation CW,  
Key spline w/o, Lock w/o



### 139318 Drive

Replacing: 184795, 594034  
Servicing: D6RA17, D6RA19, D6RA27, D6RA29, D6RA34, D6RA50, D6RA54, D6RA60  
ID 12.00, OD 29.65, OD/housing 47.65,  
Total length 66.70, No./teeth 9,  
Rotation CCW, Key spline w/o, Lock w/o





### 139320 Drive

Replacing: 187428

Servicing: D7E2

ID 11.00, OD 25.00, OD/housing 46.00,  
Total length 43.00, Splines A 5,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 139473 Drive

Replacing: 187336, 187863, 187996,  
188251, 492828, 594287, NE949

Servicing: D7E1, D7E16, D7E23, D7E26,  
D7E52, TS8E6, D7E39, D7E5

ID 11.00, OD 25.30, OD/housing 46.00,  
Total length 41.00, Splines A 5,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 335234



### 139477 Drive

Replacing: 182848, 187788, 594345, NE971  
Servicing: 105119C, D7E15, D7E18, D7E4,  
D7E6, D7E8, D7ED28, D7E27, D7E47, D7E19,  
D7E20, D7E38, D7EP12

ID 11.00, OD 23.80, OD/housing 46.00,  
Total length 44.00, No./teeth 8,  
Rotation CW, Key spline w/o, Lock w/o  
Drive: HC-CARGO 139477 can only be used  
w/ Armature: HC-CARGO 139434.  
Alternative no.: 335404



### 139478 Drive

Replacing: 059427, 187528, 594279

Servicing: D7R19, D7R28, D7R12, D7R127,  
D7R27, D7R281, D7R32, D7RP123

ID 12.00, OD 29.00, OD/housing 54.00,  
Total length 54.00, Splines A 10,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 230354 Drive

Replacing: 187983, 594324, NE966

Servicing: D7R22, D7R23

ID 12.00, OD 31.85, OD/housing 54.00,  
Total length 54.75, Splines A 10,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o



### 230963 Drive

Manufacturer: Valeo

Replacing: 594043

Servicing: D9R116, D9R144

OD 68.60, OD/teeth 42.00,  
Total length 152.30, No./teeth 11,  
Rotation CW

Drive: HC-CARGO 135282.



### 231073 Drive

Replacing: 594361

Servicing: D6RA181, D6RA81

ID 11.80, OD 29.00, OD/housing 48.00,  
Total length 68.90, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 231093 Drive

Replacing: 594389

Servicing: D7RS29, D7RS30, D7RS31,  
D7RS129, D7RS130, D7RS131, D7RS301

ID 16.25, OD 28.80, OD/housing 53.00,  
Total length 91.20, No./teeth 11,  
Rotation CCW, Key spline w/o,  
Lock w/o



### 231413 Drive

Replacing: 187449, 594295, NE955

Servicing: D13HP601

ID 19.00, OD 41.30, Total length 114.50,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 231932 Drive

Replacing: 594410

Servicing: D7R34

ID 12.10, OD 32.00, OD/housing 53.60,  
Total length 55.00, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 333863



### 231932 Drive

Replacing: 0809042, 188993, 594410

Servicing: D7R56, D7RP204, TM000A34101,  
TM000A36101, D7R34, D7R53, D8R1

ID 12.10, OD 32.00, OD/housing 53.60,  
Total length 55.00, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 333863



### 232632 Drive

Replacing: 103066

Servicing: D13E117TE, D13E118TE,  
D13E119TE, D13E120TE, D13E121TE,  
D13E122TE, D13E123TE, D13HP605,  
D13HP607

ID 19.00, OD 46.30, OD/housing 58.00,  
Total length 118.45, No./teeth 12,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 333858





### 233496 Drive

Replacing: 594291

Servicing: D13HP613, D13HP709

ID 19.00, OD 56.20, Total length 118.50,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 233496 Drive

Replacing: 594291

Servicing: D13HP613, D13HP709

ID 19.00, OD 56.20, Total length 118.50,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 233996 Drive

Replacing: 594378

Servicing: D7ES2, D7ES4, D7ES1

ID 11.20, OD 23.20, OD/housing 46.50,  
Total length 74.90, Splines A 10,  
No./teeth 8, Rotation CCW,  
Key spline w/o, Lock w/o



### 234086 Drive

Replacing: 188595, 594382

Servicing: D6RA101, D6RA104, D6RA105,  
D6RA110, D6RA115

ID 12.00, OD 29.40, OD/housing 47.00,  
Total length 50.80, Splines A 5,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o



### 234088 Drive

Replacing: 187084, 594308

Servicing: D7R14

ID 12.00, OD 32.70, OD/housing 54.00,  
Total length 69.45, Splines A 10,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o



### 234231Z Drive

Replacing: 594436

ID 11.00, OD 23.65, OD/housing 46.20,  
OD/teeth 23.65, Total length 41.05,  
No./teeth 8, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o



### 234819 Drive

Manufacturer: Valeo

Replacing: 594631, 595575

Servicing: 190895, D7G26, D7G3, TS12E901  
ID 12.00, OD 28.90, OD/housing 50.00,  
Total length 45.00, Splines A 10,  
No./teeth 11, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 332530



### 234918 Drive

Replacing: 594248

Servicing: D6RA168, D6RA68

ID 12.10, OD 25.15, OD/housing 47.65,  
Total length 57.30, Splines A 10,  
No./teeth 9, Rotation CW,  
Key spline w/o, Lock w/o



### 234996 Drive

Replacing: 594451

Servicing: D7E29, D7E30, D7E31, D7E32,  
D7E42

ID 11.00, OD 27.00, OD/housing 47.00,  
Total length 44.20, Splines A 5,  
No./teeth 8, Rotation CW,  
Key spline w/o, Lock w/o



### 235086 Drive

Replacing: 054174, NE152

Servicing: D11E70, D11E75

ID 14.00, OD 34.39, OD/housing 57.66,  
Total length 76.28, No./teeth 9,  
Rotation CW, Key spline w/o, Lock w/o



### 235087 Drive

Replacing: 054335, NE153

Servicing: D11E111, D11E140, D11E144,  
D11E74, D11E74T, D11E84

ID 14.17, OD 39.75, OD/housing 57.71,  
Total length 76.04, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o



### 235088 Drive

Replacing: NE305, NE306

ID 14.00, OD 40.00, OD/housing 57.80,  
Total length 75.15, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o





**235179** Drive  
 Replacing: 594314, 594356  
 Servicing: D6RA167, D6RA67, D6RA91, D6RA180, D6RA80  
 ID 12.00, OD 29.60, OD/housing 47.00, Total length 65.95, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**235252** Drive  
 Replacing: 594472  
 Servicing: D7RS150, D7RS50  
 ID 12.00, OD 29.00, OD/housing 53.15, Total length 92.80, No./teeth 11, Rotation CCW, Key spline w/o, Lock w/o



**236238** Drive  
 Replacing: 594465  
 Servicing: D7G4, TS18E7  
 ID 12.00, OD 31.50, OD/housing 49.85, Total length 55.00, Splines A 10, No./teeth 10, Rotation CW



**236270** Drive  
 Replacing: 594657  
 Servicing: D7G11  
 ID 12.00, OD 32.40, OD/housing 49.15, Total length 45.40, Splines A 10, No./teeth 10, Rotation CW, Key spline w/o, Lock w/o  
 Alternative no.: 333864



**236359** Drive  
 Replacing: 594678  
 Servicing: D7GS10  
 OD 29.00, OD/housing 49.80, Total length 90.00, No./teeth 11, Rotation CCW



**236477** Drive  
 Servicing: 191335, D7GS8  
 ID 16.20, OD 29.50, OD/housing 48.65, Total length 82.00, No./teeth 11, Rotation CCW, Key spline w/o, Lock w/o



**236607** Drive  
 OD 29.00, Total length 93.50, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**236609** Drive  
 Replacing: 594665  
 Servicing: D6GS11, D6GS12, D6GS12M, D6GS13  
 ID 12.00, OD 28.40, OD/housing 54.00, Total length 81.75, Splines A 10, No./teeth 10, Drive type Steel, Rotation CCW, Key spline w/o, Lock w/o



**236797** Drive  
 Replacing: 191601, 192978, 236797, 594644  
 Servicing: D6G1, D6G321, D6G332, D6G3, D6G32, D6G33, D6G5  
 ID 12.00, OD 25.30, OD/housing 47.95, OD/teeth 25.30, Total length 45.45, Splines A 10, No./teeth 9, Rotation CW, Key spline w/o  
 Alternative no.: 333870



**236896** Drive  
 Replacing: 594453  
 Servicing: D7ES5, TS10E26  
 ID 10.00, OD 25.30, OD/housing 46.00, Total length 75.20, Splines A 10, No./teeth 9, Rotation CCW, Key spline w/o



**236985** Drive  
 Servicing: TM000A31201  
 ID 12.02, OD 29.10, OD/housing 29.14, Total length 51.30, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o



**237291** Drive  
 Servicing: D7GS9  
 ID 12.10, OD 29.10, OD/housing 48.69, Total length 82.00, No./teeth 9, Rotation CW, Key spline w/o, Lock w/o





### 237776 Drive

Replacing: 192651, 594725

Servicing: D7E2, D7E25, D7E32, D7E7, TS8E3, TS8E4, TS8E5

ID 11.02, OD 26.90, OD/housing 46.00, Total length 41.60, Splines A 5, No./teeth 8, Drive type Steel, Rotation CW



### 239359 Drive

Replacing: 188440, 190993, 191769, 239359

Servicing: D7E27, D7E47, D7E19, D7E22, D7E38, D7E4, D7E6, D7ED281, TS10E3, D7E8, TS10E4, TS10E5

ID 11.00, OD 23.60, OD/housing 47.10, OD/teeth 23.60, Total length 41.20, Splines A 5, No./teeth 8, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o  
Drive: HC-CARGO 239359 can only be used w/ Armature: HC-CARGO 233767.



### 330104 Drive

Replacing: 594747

Servicing: TS2232, TS22E5, TS22E5B, TS22E8, TS22E9

ID 12.05, OD 32.20, OD/housing 48.65, Total length 45.47, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 330452 Drive

Replacing: 193512, 594726

Servicing: TS8E1, TS8E2, TS8E6

ID 11.05, OD 25.38, OD/housing 46.20, OD/teeth 25.38, Total length 41.20, No./teeth 9, Drive type Steel, Rotation CW



### 330533 Drive

Replacing: 194440, 194480

Servicing: TS10E1

ID 11.05, OD 45.00, OD/housing 44.45, OD/teeth 27.15, Total length 44.45, Splines A 5, No./teeth 8, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 330568 Drive

Servicing: 1250128

ID 12.00, OD 33.35, OD/housing 56.00, Total length 110.00, No./teeth 10, Rotation CW



### 330800 Drive

Servicing: TS18E13, TS22E26

ID 12.09, OD 28.85, OD/housing 49.88, OD/teeth 28.85, Total length 45.55, No./teeth 11, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 331628 Drive

Servicing: TS12E10, TS12E9, TS14E11

ID 12.07, OD 27.93, OD/housing 48.40, Total length 45.81, Splines A 10, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o



### 331650 Drive

Replacing: 193462

Servicing: D7G18, D7G22

ID 12.26, OD 28.11, OD/housing 49.94, Total length 72.68, No./teeth 10, Drive type Steel, Rotation CW, Key spline w/o, Lock w/o

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### 332193 Drive

Replacing: 594666

Servicing: D6GS14, TS12ER20, TS12ER25

ID 16.30, OD 28.40, OD/housing 49.79, OD/teeth 28.40, Total length 88.95, Splines A 10, No./teeth 10, Drive type Steel, Rotation CCW, Key spline w/o, Lock w/o



### 332207 Drive

Replacing: 192750

Servicing: TS18E1

ID 14.00, OD 29.00, OD/housing 50.00, Total length 81.65, No./teeth 11, Rotation CCW



### 332530 Drive

Replacing: 595575

Servicing: TS14E110

ID 12.00, OD 29.35, OD/housing 48.40, Total length 45.60, Splines A 10, No./teeth 11, Drive type Steel, Rotation CW

Alternative no.: 234819





### 332562 Drive

Servicing: TS18ER123, TS18ER20, TS18ER22  
ID 13.99, OD 29.25, OD/housing 49.84,  
OD/teeth 29.25, Total length 87.37,  
No./teeth 12, Drive type Steel,  
Rotation CCW, Key spline w/o, Lock w/



### 332614 Drive

Replacing: 194372, 195356, 594777  
Servicing: TS18E33, TS18E331  
ID 12.00, OD 28.00, OD/housing 49.90,  
OD/teeth 28.00, Total length 45.35,  
No./teeth 10, Drive type Steel,  
Rotation CW



### 333203 Drive

Manufacturer: Bosch  
Replacing: 594163  
ID 12.00, OD 25.25, OD/housing 46.50,  
Total length 55.45, Splines A 10,  
No./teeth 9, Drive type Steel,  
Rotation CCW, Key spline w/o,  
Lock w/o  
Alternative no.: 135085



### 333479 Drive

ID 12.06, OD 28.20, OD/housing 45.30,  
OD/teeth 28.20, Total length 45.15,  
No./teeth 8, Rotation CW



### 333720 Drive

Replacing: 1L22B  
Servicing: 1195411, 1195921, 1195922,  
1196230  
ID 12.00, OD 28.05, OD/housing 46.00,  
OD/teeth 28.05, Total length 43.95,  
No./teeth 8, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o



### 333721 Drive

Replacing: 2H08  
Servicing: 1201942  
ID 12.00, OD 27.90, OD/housing 45.50,  
OD/teeth 27.90, Total length 56.00,  
No./teeth 10, Drive type Steel



### 333858 Drive

Replacing: 103066  
Servicing: D13E117TE, D13E118TE, D13E120TE,  
D13E123, D13E1231TE, D13E123TE,  
D13HP605, D13HP607, D13HP702  
ID 19.00, OD 46.30, OD/housing 58.00,  
Total length 118.45, No./teeth 12,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 232632



### 333863 Drive

Replacing: 188993, 594410  
Servicing: D7R34, D7R53, D7R56, D7RP204,  
TM000A34101, TM000A36101  
ID 12.10, OD 32.00, OD/housing 54.00,  
OD/teeth 32.00, Total length 55.00,  
No./teeth 10, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 231932



### 333864 Drive

Replacing: 594657  
Servicing: D7G11  
ID 12.00, OD 32.40, OD/housing 49.15,  
Total length 45.40, Splines A 10,  
No./teeth 10, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 236270



### 333869 Drive

Replacing: 1201728  
Servicing: FS10B3, FS10E3  
ID 10.00, OD 23.90, OD/housing 45.90,  
OD/teeth 23.90, Total length 41.20,  
No./teeth 8, Drive type Steel,  
Rotation CW



### 333870 Drive

Replacing: 191601, 192978, 594644  
Servicing: D6G3, D6G32, D6G33, D6G5,  
TS12E902  
ID 12.00, OD 25.30, OD/housing 47.95,  
OD/teeth 25.30, Total length 45.45,  
Splines A 10, No./teeth 9,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o  
Alternative no.: 236797



### 333879 Drive

Replacing: 594284  
ID 12.00, OD 25.50, OD/housing 47.50,  
OD/teeth 25.50, Total length 61.40,  
No./teeth 9, Drive type Steel,  
Rotation CCW





### 333929 Drive

Replacing: 198159

OD 34.25, OD/housing 48.40,  
OD/teeth 34.25, Total length 87.50,  
No./teeth 13, Drive type Steel,  
Rotation CCW



### 333934 Drive

Replacing: 194039, 195041, 195334

ID 12.00, OD 28.30, OD/housing 49.00,  
OD/teeth 28.30, Total length 45.20,  
Splines A 10, No./teeth 10,  
Drive type Steel, Rotation CW



### 334279 Drive

Servicing: ESW10E40

ID 12.00, OD 34.60, OD/housing 50.00,  
OD/teeth 34.60, Total length 45.00,  
Splines A 8, No./teeth 11, Rotation CW



### 335230 Drive

Replacing: 185915, 549185, 594185

Servicing: D7R127, D7R13, D7R16, D7R18,  
D7R19, D7R20, D7R25, D7R26, D7R28,  
D7R281, D7R32, D7R43, D7R44, D7R46  
ID 12.00, OD 29.40, OD/housing 52.65,  
Total length 54.50, No./teeth 11,  
Drive type Steel, Rotation CW  
Alternative no.: 135389



### 335234 Drive

Replacing: 187336, 187863, 187996,  
188251, 492828, 594287, NE949

Servicing: D7E1, D7E16, D7E2, D7E23,  
D7E25, D7E26, D7E5, D7E52, D7E7

ID 11.00, OD 25.30, OD/housing 46.00,  
Total length 41.00, Splines A 5,  
No./teeth 9, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o  
Alternative no.: 139473



### 335403 Drive

Replacing: 185290, 188256, 594136, NE831

ID 12.00, OD 28.00, OD/housing 52.75,  
Total length 54.50, No./teeth 10,  
Drive type Steel, Rotation CW  
Alternative no.: 135084



### 335404 Drive

Replacing: 182848, 187788, 594345, NE971

Servicing: D7E18

ID 11.00, OD 23.60, OD/housing 46.25,  
Total length 44.00, No./teeth 8,  
Drive type Steel, Rotation CW  
Alternative no.: 139477



### 335574 Drive

Replacing: 69-74-63, SD9166S

ID 12.00, OD 28.20, OD/housing 47.00,  
Total length 40.00, Splines A 8,  
No./teeth 8, Drive type Steel,  
Rotation CW, Key spline w/o, Lock w/o



### 335617 Drive

Servicing: D7R71

ID 12.00, OD 38.90, OD/housing 53.20,  
Total length 63.00, No./teeth 12,  
Drive type Steel, Rotation CW



### 335618 Drive

Replacing: 595712

Servicing: TS12E36

ID 12.00, OD 29.60, OD/housing 48.90,  
OD/teeth 29.60, Total length 45.80,  
Splines A 10, No./teeth 9,  
Drive type Steel, Rotation CW



### 335627 Drive

Replacing: 188225, 200421, 595641

Servicing: TS18E3, D7GS10

ID 12.02, OD 29.10, OD/housing 49.00,  
Total length 87.75, No./teeth 11,  
Drive type Steel, Rotation CCW,  
Key spline w/o, Lock w/o



### 335664 Drive

Replacing: 595683

Servicing: TS22ER12, TS22ER13

OD 37.60, OD/housing 48.50,  
Total length 87.30, Splines A 4,  
Splines B 33, No./teeth 12, Rotation CW,  
Lock w/



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**335707** Drive  
 Replacing: 198847  
 Servicing: ESW22-11  
 ID 12.00, OD 37.20, OD/housing 50.20,  
 Total length 45.00, Splines A 8,  
 No./teeth 12, Rotation CW



**335711** Drive  
 Replacing: 201263  
 Servicing: TS22E28, TS22-29, TS2229  
 ID 12.00, OD 37.00, OD/housing 50.00,  
 Total length 55.00, Splines A 8,  
 No./teeth 12, Drive type Steel,  
 Rotation CW



**335715** Drive  
 Replacing: 209098  
 Servicing: ESW10-12  
 ID 12.00, OD 29.30, OD/housing 50.50,  
 Total length 45.00, Splines A 8,  
 No./teeth 11, Drive type Steel,  
 Rotation CW



**335826** Drive  
 Servicing: ESM18E8  
 ID 12.00, OD 37.50, OD/housing 50.00,  
 Total length 43.00, Splines A 8,  
 No./teeth 15, Drive type Steel,  
 Rotation CW



**336034** Drive  
 Servicing: 36100-03200  
 ID 12.00, OD 28.15, OD/housing 43.00,  
 OD/teeth 28.15, Total length 49.40,  
 Splines A 12, No./teeth 8, Rotation CW



### Drive Parts

#### Caps



**134162** Drive Cap  
 ID 46.10, OD 47.10, Height 19.10



**134254** Drive Cap  
 Servicing: FS10E3  
 ID 44.90, OD 46.25, Height 15.85



**134271** Drive Cap  
 ID 65.02, OD 66.90, Height 4.35

#### Rollers



**134212** Roller  
 Servicing: ESW10E40, ESW10E7, ESW20E26,  
 ESW20ER123, ESW20ER123HE, TS18ER20,  
 TS22E45, ESW20ER25, ESW20E11  
 OD 5.95, Length 9.80

**134222** Roller  
 OD 6.00, Length 8.80



**134244** Roller  
 OD 6.35, Length 9.35



**139590** Roller  
 OD 5.90, Length 8.00



**333759** Roller  
 OD 6.05, Length 9.80



### Springs



**134218** Dp Springs  
 Length 13.70, Height 9.65, Width 4.65,  
 Material Steel

Pkg. 500

Pkg. 1000

Pkg. 100

Pkg. 500

Pkg. 500

Pkg. 1000





Pkg. 500

**134220** Dp Springs  
Length 14.15, Height 6.60, Width 3.50,  
Material Steel



Pkg. 1250

**134263** Dp Springs  
Length 14.15, Height 7.45, Width 3.50,  
Material Steel



Pkg. 2000

**134264** Dp Springs  
Servicing: TS22E45  
Length 12.35, Height 3.85, Width 8.95,  
Material Steel

### Pinion



Pkg. 10

**134234** Pinion  
ID 12.00, OD 25.20, Height 26.70,  
No./teeth 9, Bushing w/



Pkg. 5

**135867** Gear Wheel  
Servicing: 182175, D9R112, D9R116,  
D9R118, D9R119, D9R121, D9R122, D9R142,  
D9R144, D9R149, D9R73, D9R84, D9R89  
ID 10.00, OD 21.10, Height 34.40,  
Height/collar 21.00, No./teeth 15, Bushing w/o



**139953** Pinion  
Servicing: HK988300, MG120413, MG120445,  
TM000A14901  
ID 13.25, OD 32.55, Height 18.25,  
No./splines 19, No./teeth 10, Bushing w/o



**237086** Pinion  
Servicing: HQ808670, MG122202,  
MG122433, TM000A18601  
ID 13.74, OD 39.51, Height 18.27,  
Height/collar 1.93, No./splines 19,  
No./teeth 13, Bushing w/o



**330887** Pinion  
Servicing: 1250449  
ID 15.80, OD 46.28, Height 16.69,  
No./splines 22, No./teeth 33, Bushing w/o



**331677** Pinion  
ID 12.00, OD 28.10, Height 54.10,  
Height/collar 9.95, Bushing w/o

### Various



Pkg. 10

**236360** Plug  
Servicing: 458389, D6GS11, D6GS12M,  
D6GS19, D7GS9, TS12ER20, TS18E1,  
TS18ER121, TS18ER123, D7RS31, TS18ER20  
OD 16.55, OD/collar 18.00, Length 4.10,  
Height/collar 0.90, Material Steel, Pin w/o

## Planet Gears



**135081** 5★ Planet Gear  
Manufacturer: Valeo  
Replacing: 594538  
Servicing: D6RA10, D6RA12, D6RA13,  
D6RA16, D6RA18, D6RA20, D6RA22, D6RA26,  
D6RA30, D6RA32, D6RA33, D6RA37  
Shaft dia./front 12.00,  
Total length 113.40, No./splines 9  
Outer gear: HC-CARGO 133954.



**135388** 5★ Planet Gear  
Manufacturer: Valeo  
Replacing: 594141  
Servicing: D7R1, D7R2, D7R3, D7R4, D7R5,  
D7R7, D7R45  
Shaft dia./front 11.90,  
Total length 126.70, No./splines 9



**135598** Planet Gear  
Manufacturer: Bosch  
Replacing: 1006200012  
Servicing: AD165320Q  
Shaft dia./front 11.90, Total length 160.95,  
No./splines 10, Rotation CCW



**138151** 5★ Planet Gear  
Manufacturer: Valeo  
Replacing: 594187, 594373  
Servicing: 188839, D7R11, D7R12, D7R13,  
D7R15, D7R151, D7R16, D7R18, D7R19,  
D7R20, D7R24, D7R25, D7R26, D7R27  
Shaft dia./front 11.90, Total length 90.00,  
No./splines 9





### 233994 Planet Gear

Replacing: 594283

Servicing: D7R17, D7R19, D7R22, D7R23, D7R28, D7R12, D7R127, D7R27, D7R281, D7R32, D7R42, D7RP123, D7RP82

Shaft dia./front 12.00, Total length 119.70, No./splines 10



### 235706 Planet Gear

Manufacturer: Valeo

Replacing: 594541

Servicing: D6RA138, D6RA141, D6RA161, D6RA511, D6RA53, D6RA56, D6RA571, D6RA572, D6RA661, D6RA74, D6RA163

Shaft dia./front 11.95, Total length 111.50, No./splines 10, No./teeth 15, Rotation CW



### 235707 Planet Gear

Manufacturer: Valeo

Replacing: 594542

Servicing: D6RA133, D6RA162, D6RA249, D6RA62, D6RA73, D6RA93

Shaft dia./front 18.00, Total length 112.90, No./splines 10, No./teeth 22, Rotation CW



### 330108 Planet Gear

Servicing: 28100-YV020, 9662854080, TS18E13, TS18E33, TS18E331, TS2232, TS22E26, TS22E5, TS22E5B, TS22E8

Shaft dia./front 12.01, Total length 116.08, No./splines 8, Rotation CW

## Gear Parts

### Gear Shafts



### 235498 Gear Shaft

Replacing: 594152

Servicing: D9R105, D9R112, D9R118, D9R119, D9R121, D9R122, D9R142, D9R149, D9R73, D9R84, D9R89

OD/shaft 9.95, Total length 129.55, No./splines 9, Rotation CW

### Outer Gear



### 133954 Outer Gear

Servicing: 594538, 594541, 594542, D6RA15, D6RA30, D6RA42, D6RA43, D6RA47, D6RA7

ID 18.00, OD 80.15, Height 24.60, No./teeth 59, Bushing w/ Cap: HC-CARGO 233460.



### 233592 Outer Gear

Servicing: D6RA168, D6RA40, D6RA63, D6RA68

OD 55.10, No./teeth 37



### 234891 Outer Gear

Servicing: 594470

ID 20.00, OD 67.50, No./teeth 59, Bushing w/



### 333036 Outer Gear

ID 53.60, OD 67.60, Height 35.60, No./teeth 56, Bushing w/



### 333037 Outer Gear

Servicing: ESW20ER123, ESW20ER123HE, ESW20ER25

ID 53.60, OD 67.60, Height 35.40, No./teeth 56, Bushing w/

### Gear Covers

Pkg. 10



### 233460 Gear Plate

ID 15.60, OD 49.43, Thickness 3.95, Material Steel



### 331011 Gear Plate

Servicing: D6RA181, D6RA68, D6RA81  
ID 14.00, OD 50.80, Height 4.10

### Gear Wheels

Pkg. 10



### 135325 Gear Wheel

Servicing: 594019

ID 4.00, OD 18.30, Height 7.40, No./teeth 22, Bushing w/o  
Bushings: HC-CARGO 140952.



## Various

Pkg. 10



### 135326 Steel Pin

**Servicing:** 594019, 626002, D6RA100, D6RA114, D6RA15, D6RA167, D6RA168, D6RA181, D6RA42, D6RA43, D6RA47, D6RA63  
**OD** 4.00, **Length** 13.90

Pkg. 10



### 230088 Steel Pin

**Servicing:** 594187, D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RAD183, D6RADP359, D6RAP229, D6RAP404, D8R28  
**OD** 5.00, **Length** 18.00

Pkg. 10



### 236215 Washer

**Servicing:** D9R105, D9R112, D9R116, D9R118, D9R119, D9R122, D9R142, D9R144, D9R149, D9R73, D9R89, D9R90, D9R91  
**ID** 18.00, **OD** 29.70, **Thickness** 1.10, **Type** Flat washer, **Material** Fiber, **Bushing** w/o

## Levers

Pkg. 5



### 134105 Lever

**Servicing:** D6RA10, D6RA100, D6RA12, D6RA13, D6RA132, D6RA15, D6RA16, D6RA162, D6RA163, D6RA18, D6RA20, D6RA22  
**Dist.** 25.80, **ID** 5.30, **Length** 75.20, **Plunger** w/o

Pkg. 5



### 134866 Lever

**Servicing:** D9E86, D9E100, D9E101, D9E108, D9E131, D9E132, D9E136, D9E137, D9E138, D9E200, D9E237, D9E238  
**Dist.** 25.60, **ID** 5.40, **Length** 90.65, **Plunger** w/o

Pkg. 5



### 135515 Lever

**Servicing:** D8R1, D8R28, D8R49, 1250128, 188839, D7R1, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, D7R16, D7R18  
**Dist.** 25.50, **ID** 5.30, **Length** 82.20, **Plunger** w/o  
**Lever w/ plunger:** HC-CARGO 139439.



### 136416 Lever

**Replacing:** M863C04871  
**Servicing:** MG232415  
**Dist.** 55.20, **ID** 4.90, **Length** 90.45, **Plunger** w/o



### 136620# Lever Kit

**Manufacturer:** Valeo  
**Replacing:** 098945, 182058  
**Servicing:** D10E86, D9E100, D9E101, D9E102, D9E103, D9E104, D9E107, D9E108, D9E109, D9E111, D9E113, D9E114  
**Dist.** 25.60, **ID** 5.40, **Length** 90.65, **Plunger** w/  
**Lever only:** HC-CARGO 134866.



### 137732 Lever Kit

**Manufacturer:** Valeo  
**Replacing:** 594255, 594259, 594374, 594422  
**Servicing:** D6RA101, D6RA104, D6RA110, D6RA133, D6RA137, D6RA141, D6RA161, D6RA167, D6RA180, D6RA181, D6RA185  
**Dist.** 22.35, **ID** 5.30, **Length** 73.25, **Plunger** w/  
**Lever only:** HC-CARGO 138854.



### 138112 Lever Kit

**Manufacturer:** Valeo  
**Replacing:** 182036, 593253, 594298  
**Servicing:** D13E117TE, D13E118TE, D13E119TE, D13E120TE, D13E121TE, D13E122TE, D13E123TE, D13HP605, D13HP607  
**Dist.** 37.00, **ID** 8.30, **Length** 121.40, **Plunger** w/o

Pkg. 5



### 138854 Lever

**Replacing:** 594460  
**Servicing:** D6RA105, D6RA110, D6RA115, D6RA138, D6RAD183, D6RADP359, D6RAP229, 626002, D6RA114, D6RA133  
**Dist.** 21.70, **ID** 5.35, **Length** 73.20, **Plunger** w/o  
**Lever only:** HC-CARGO 137732.



### 139439 Lever Kit

**Manufacturer:** Valeo  
**Replacing:** 594262, 594281, 594390  
**Servicing:** 188839, D7R1, D7R11, D7R12, D7R13, D7R14, D7R15, D7R151, D7R16, D7R18, D7R2, D7R20, D7R22, D7R23  
**Dist.** 24.40, **ID** 5.15, **Length** 82.30, **Plunger** w/  
**Lever only:** HC-CARGO 135515.



Pkg. 30



### 231148 Lever

**Servicing:** 105119C, D7E32, D7E39, D7E1, D7E16, D7E18, D7E19, D7E2, D7E22, D7E23, D7E25, D7E26, D7E30, D7E38

**Dist.** 19.00, **Length** 83.00, **Plunger** w/o

Pkg. 5



### 335124 Lever

**Replacing:** 36100-2G100FFF

**Dist.** 21.50, **Length** 75.00, **Plunger** w/o

## Clutches



### 231269 Clutch

**Servicing:** HK988300, HQ808670, MG120413, MG120445, MG122202, MG122433, TM000A14901, TM000A18601

**OD** 67.20, **Shaft OD/front** 18.65, **Shaft OD/rear** 14.00, **Total length** 131.00, **No./splines** 19



### 237115 Clutch

**Servicing:** TM000V23601, TM000A23601

**OD** 67.00, **Shaft OD/front** 18.65, **Shaft OD/rear** 14.00, **Total length** 132.00, **No./splines** 19

## Brush Gears



### 132475 Brush Gear

**Replacing:** M649T05071

**Servicing:** MG232415, HK988300, HQ808670, MG120413, MG120445, MG122202, MG122404, MG122433, TM000A06901

**12 Volt**, **ID** 32.00, **OD** 70.35, **Height** 22.00

**Brush set:** HC-CARGO 140387.



### 132812 Brush Gear

**Servicing:** D9E140, D9E100, D9E131, D9E138, D9E200, D9E238, D9E300, D9E40, D9E43, D9E44, D9E45, D9E46, D9E49

**ID** 20.65, **OD** 55.50, **Height** 21.80

**Brush set:** HC-CARGO PSX1304.

Pkg. 5



### 132995 Brush Gear

**Servicing:** D9E86, D9E101, D9E108, D9E123, D9E132, D9E136, D9E137, D9E237, D9E276, D9E278, D9E36, D9E38, D9E39

**ID** 20.20, **OD** 69.90, **Height** 21.30

**Brush set:** HC-CARGO PSX1332.



### 133646 Brush Gear

**Replacing:** 181961, 594072

**Servicing:** D6RA10, D6RA12, D6RA16, D6RA18, D6RA20, D6RA45, D6RA6, D6RA61, D6RA8, D6RA47, D6RA7

**ID** 15.75, **OD** 62.50, **Height** 18.50

**Spring and brush set:** HC-CARGO PSX146-147K.



### 133647 Brush Gear

**Replacing:** 183957, 186381, 594070

**Servicing:** D6RA10, D6RA110, D6RA8, D6RA105, D6RA107, D6RA115, D6RA12, D6RA138, D6RA16, D6RA18, D6RA20, D6RA45

**ID** 15.70, **OD** 61.75, **Height** 16.50

**Spring and brush set:** HC-CARGO PSX144-145K.



### 134642 Brush Gear

**Servicing:** D9R112, D9R116, D9R118, D9R121, D9R122, D9R142, D9R144, D9R73, D9R84, D9R89, D9R90, D9R91, D9R97

**ID** 36.45, **OD** 69.90, **Height** 23.30

**Brush set:** HC-CARGO PSX140-1414. **Brush spring:** HC-CARGO 135201.



### 135467 Brush Gear

**Replacing:** 3EM092301D

**Servicing:** M000A01901, M000A0240Z, M04686, M35216, M39376, M39646, M43196, MC107012, MC107023, MC108024

**12 Volt**, **ID** 34.25, **OD** 74.00,

**Height** 12.85

**Neg. brushes.** **Brush set:** HC-CARGO 140349.



### 136763 Brush Gear

**Replacing:** 594780

**Servicing:** 1250128, 188839, D7G14, D7G20, D7G26, D7R1, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, D7R16

**12 Volt**, **ID** 33.80, **OD** 77.00,

**Height** 21.15

**Brush set:** HC-CARGO PSX1584.





### 139224 Brush Gear

Replacing: 594290, 594351, 594479

Servicing: 105119C, D7E15, D7E18, D7E19, D7E20, D7E22, D7E4, D7E6, D7E8, D7ED28, TS10E3, TS10E4, TS10E5, D7E23

12 Volt, ID 29.50, OD 59.75,  
Lead length 31.45, Height 17.05  
Brush set: HC-CARGO PSX1554.



### 231841 Brush Gear

Replacing: 594381

Servicing: ACR, D7ES2, D7ES4, D7ES5, TS10E26, D7ES1

ID 8.20, OD 59.60, Lead length 7.10,  
Height 24.40



### 233771 Brush Gear

Servicing: D9R119, D9R149, D9RP160

ID 37.00, OD 84.60, Height 23.40  
Brush set: HC-CARGO PSX140-1414.



### 234119 Brush Gear

Replacing: 190097

Servicing: 190895, D7G11, D7G3, D7GS9, D7G4, TS18E44

12 Volt, ID 31.50, OD 67.55,  
Lead length 35.55, Height 21.00  
1.7 kW.



### 235390 Brush Gear

Servicing: TM000A27301, TM000A27601, TM000A31001, TM000A37001

12 Volt, ID 34.00, OD 64.00,  
Lead length 35.00, Height 15.00



### 239731 Brush Gear

Replacing: 190987, 191824, 193288, 239731

Servicing: 458389, TS18E1, TS18ER121, TS-18ER123, 191335, D7GS10, D7GS8, TS18E3, TS18ER20, TS18ER22

12 Volt



### 332467 Brush Gear

Servicing: M62957, TM000A14401

12 Volt, ID 31.39, OD 65.42,  
Lead length 57.12, Height 14.61



### 333317 5★ Brush Gear

Manufacturer: Valeo

Replacing: 195253, 594674

Servicing: D6GS11, D6GS12, D6GS12M, D6GS13, D6GS14, TS12ER20, TS12ER22M, TS14E110

12 Volt, ID 6.40, OD 60.25,  
Lead length 50.00, Height 26.40  
Alternative no.: 335009



### 333667 Brush gear

Servicing: 1250449, D7RS129, D7RS130, D7RS131, D7RS150, D7RS29, D7RS30, D7RS301, D7RS31, D7RS50

12 Volt, ID 32.00, OD 77.00,  
Height 16.00



### 334253 Brush Gear

12 Volt, OD 70.80, Lead length 36.00



### 335009 Brush Gear

Replacing: 594674

Servicing: D6GS12, D6GS12M, D6GS13, D6GS14, TS12ER20

12 Volt

Alternative no.: 333317 5★

NEW PRODUCT

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### 335709 Brush Gear

Servicing: ESW22-11

12 Volt, ID 34.00, OD 76.00



### 335713 Brush Gear

Servicing: TS22E28

ID 34.00, OD 77.00, Height 20.2



### 335717 Brush Gear

Servicing: ESW10-12

12 Volt, ID 30.00, OD 70.80,  
Lead length 86.00, Height 17.60



### 336299 Brush Gear

Replacing: 595585

Servicing: FS10E10, FS10E3

12 Volt, ID 8.00, OD 71.00,  
Lead length 26.50, Height 25.00



## NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)

**337333** Brush Gear  
Servicing: FS10M3  
OD 70.90, Lead length 27.00

### Brush Gear Parts

### Brush Springs



**132571** Brush Spring Set  
Servicing: D9E140, D9E86  
ID 6.00, OD 7.25, Length 29.70,  
Material Steel

Pkg. 10



**134902** Brush Spring  
Replacing: 300842  
Servicing: D10E 85, -87, -88, -89, -90,  
OD 11.90, Length 26.90, Material Steel

Pkg. 10



**135018** Brush Spring  
Replacing: 092528, 092533, 135018  
Servicing: D11E101, D11E102, D11E105,  
D11E107, D11E108, D11E109, D11E110,  
D11E111, D11E115, D11E123, D11E126  
OD 11.50, Length 23.90, Material Steel

Pkg. 10



**135422** Brush Spring  
Servicing: D7R..., D7RS..., 1250449, D7G14,  
D8R1, D8R28, D8R49, TS18E13, TS18E33,  
TS18E331, TS2232, TS22E5, TS22E5B, TS22E8  
ID 7.20, OD 8.55, Length 26.00,  
Material Steel

Pkg. 10



**135423** Spring Retainer  
Servicing: 1250449, D7G14, D8R1, D8R28,  
D8R49, TS18E13, TS18E33, TS18E331,  
TS2232, TS22E5, TS22E5B, TS22E8  
OD 18.10, Height 6.15

Pkg. 10



**233766** Brush Spring  
ID 9.75, OD 11.85, Length 33.50,  
Material Steel

Pkg. 10



**236615** Brush Spring  
Servicing: D6G1, D6G321, D6G332, D6GS11,  
D6GS12M, D6GS19, ESW20ER121, TS12ER20,  
TS14E11, TS14E110, D6G3, D6G32  
OD 7.90, Length 27.00

### Brush Sets



**140387** Brush Set  
Replacing: M648C15372/472  
Servicing: MG232415, HK988300, HQ808670,  
MG120413, MG120445, MG122202,  
MG122404, MG122433, TM000A06901  
12 Volt, Length 18.00, Lead length 34.50,  
Height 18.00, Thickness 6.80



**140851** Brush/Spring Kit  
Replacing: 182145  
Servicing: D11E122, D11E122T, D11E128,  
D11E128T, D11E130, D11E89, D11E89T,  
D11E89TE, D11E90, D11E90T, D11E98  
Length 17.00, Lead length 76.50,  
Height 25.00, Thickness 10.00  
Brush set only: HC-CARGO PSX83-844.  
Alternative no.: psx83-844



**141067** Brush Set  
Replacing: 594286  
Servicing: D13HP601, D13HP605, D13HP607,  
D13HP608, D13HP609, D13HP613, D13HP704  
24 Volt, Length 20.00,  
Lead length 69.50, Lead length 2 46.00,  
Height 25.00, Thickness 10.00



**141224** Brush Set  
12 Volt, Length 15.15,  
Lead length 61.00/93.00, Lead length 2 30.00,  
Height 11.85, Thickness 4.42



**141244** Brush Set  
Servicing: TM000A27301, TM000A27601,  
TM000A31001, TM000A37001  
12 Volt, Length 12.00, Lead length 27.00,  
Lead length 2 20.00/29.00,  
Height 12.00, Thickness 4.50





### 141274 Brush Set

Servicing: D6RA187, D6RA188

12 Volt, Length 21.10,  
Lead length 90.00, Lead length 2 22.00,  
Height 10.00, Thickness 7.45



### 142037 Brush Set

Servicing: 1195239, 1250303, S0001250303,  
TA000A37301, TM000A37001, TM000A37201,  
TM000A37301

12 Volt, Length 12.00,  
Lead length 33.00, Lead length 2 24.50,  
Height 10.60, Thickness 5.00



### 142039 Brush Set

Servicing: TM000A18001, TM000A23501,  
TM000A35301

12 Volt, Length 12.00,  
Lead length 32.50, Lead length 2 25.00,  
Height 12.00, Thickness 4.50



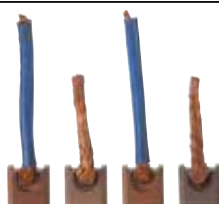
### 142058 Brush Set

12 Volt, Length 12.00,  
Lead length 30.00, Lead length 2 64.50,  
Height 12.00, Thickness 4.50



### 142088 Carbon Brush Set

12 Volt, Length 12.00,  
Lead length 25.00, Lead length 2 36.00,  
Height 12.50, Thickness 4.50, Terminals 1



### 142351 Brush Set

Length 14.00, Lead length 55.00,  
Lead length 2 37.00, Height 14.00,  
Thickness 7.00



### 332971 Brush Set

14 Volt, Length 12.00,  
Lead length 44.00, Lead length 2 24.00,  
Height 10.60, Thickness 5.00



### 334084 Brush Set

Servicing: ESW20E26, ESW20ER121, ESW20ER123,  
ESW20ER123HE, ESW20ER25, ESW20E11

12 Volt, Length 12.45,  
Lead length 33.50, Lead length 2 88.15,  
Height 11.00, Thickness 6.95



### PSX106-1072 Brush Set

Replacing: 078166, 182072

12 Volt, Length 14.00, Lead length 66.50,  
Height 15.00, Thickness 7.00



### PSX1124 Brush Set

Replacing: 078900, 180237, 182146

Servicing: D13E93TE, D13E94TE, D13E107TE,  
D13E109TE, D13E110TE, D13E76, D13E77,  
D13E77T, D13E86TE, D13E87TE

24 Volt, Length 17.00, Lead length 40.00,  
Height 18.00, Thickness 10.00



### PSX115-1162 Brush Set

Replacing: 075269, 075943, 092655,  
182064, PSX71-922

Servicing: D10E48, D10E54, D10E57,  
D10E63, D10E64, D10E65, D10E76, D10E80,  
D10E84, D8E104, D8E106, D8E108

12 Volt, Length 14.00,  
Lead length 66.00, Height 18.00,  
Thickness 6.90



### PSX119-1202 Brush Set

Replacing: 182070

Servicing: D8E107, D8E111, D8E116,  
D8E130, D8E131, D8E141, D8E148, D8E154,  
D8E74, D8E99, D8E54

12 Volt, Length 14.30,  
Lead length 65.00, Height 14.90,  
Thickness 6.90



### PSX122-123-124 Brush Set

Replacing: 182073

12 Volt, Length 15.10,  
Lead length 54.00, Lead length 2 34.00,  
Height 12.45, Thickness 4.50/8.90



### PSX1254 Brush Set

Replacing: 092744, PSX1254

12 Volt, Length 17.25,  
Lead length 73.00, Height 24.95,  
Thickness 9.95





### PSX1292/1P Brush Set

Replacing: 092878, 182065, 594065

Servicing: D9E100, D9E131, D9E138, D9E200, D9E238, D9E300, D9E31, D9E40, D9E43, D9E44, D9E45, D9E46, D9E49

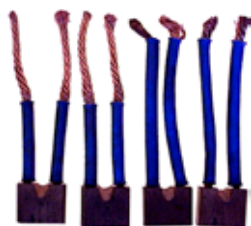
12 Volt, Length 15.00,  
Lead length 62.00, Lead length 2 42.00,  
Height 10.10, Thickness 6.50/9.60



### PSX1304 Brush Set

Replacing: 092883, 182068, 300687

12 Volt, Length 15.10,  
Lead length 64.00, Lead length 2 41.00,  
Height 10.05, Thickness 6.50/9.65



### PSX1324 Brush Set

Replacing: 075707, 092925, 182118

Servicing: D11E148, D11E156, D11E161, D11E172, D11E177, D11E184, D11E187, D11E188, D11E191, D11E192, D11E195

12 Volt, Length 14.05,  
Lead length 66.00, Height 17.90,  
Thickness 9.90

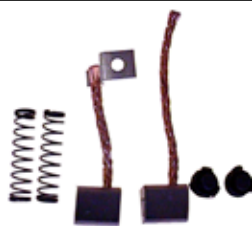


### PSX1332 Brush Set

Replacing: 092914, 182066, 182067, 594066

Servicing: D9E36, D9E38, D9E101, D9E107, D9E108, D9E109, D9E113, D9E114, D9E123, D9E124, D9E125, D9E127

12 Volt, Length 15.05,  
Lead length 66.00, Lead length 2 44.00,  
Height 11.80, Thickness 6.90/12.50



### PSX133K2 Brush Set

Replacing: 300706

12 Volt, Length 15.00,  
Lead length 43.00, Lead length 2 67.00,  
Height 11.85, Thickness 6.90/12.45



### PSX136-1374 Brush Set

Replacing: 300841

Servicing: D10E85, D10E87, D10E88, D10E881, D10E882, D10E89, D10E90, D10E92, D10E921, D10E922

12 Volt, Length 18.45,  
Lead length 44.50, Height 14.90,  
Thickness 6.85



### PSX138-1392 Brush Set

Replacing: PSX138-1392

12 Volt, Length 22.00,  
Lead length 41.00, Lead length 2 47.00,  
Height 17.90, Thickness 8.85



### PSX140-1414 Brush Set

Replacing: PSX140-1414

Servicing: D9R116, D9R126, D9R144

12 Volt, Length 21.95,  
Lead length 47.00, Height 17.90,  
Thickness 8.90



### PSX142-1434 Brush Set

Replacing: PSX142-1434

Servicing: D8R1, D8R49, 1250128, 1250449, 188839, D7G20, D7R1, D7R11, D7R12, D7R127, D7R13, D7R14, D7R15

12 Volt, Length 13.75,  
Lead length 35.50, Height 13.80,  
Thickness 6.85  
Alternative no.: PS142, PS143



### PSX142-1444 Brush Set

Replacing: 187778, 187779, PSX142-1444

Servicing: TS18E13, TS18E33, TS18E331, TS2232, TS22E5, TS22E5B, 188839, D7R40, TS22E8, TS22E9, D7G26, D7R1

12 Volt, Length 13.70,  
Lead length 56.00, Lead length 2 36.00,  
Height 14.00, Thickness 7.00  
2 component.



### PSX144-145K Brush Set

Replacing: 594060, 594062, 594063, 594127, 594317, 594386, PSX144-145K, PSX148-1494

Servicing: D6RA12, D6RA16, D6RA17, D6RA18, D6RA20, D6RA38, D6RA45, D6RA5, D6RA6, D6RA61, D6RADP359

12 Volt, Length 18.00, Lead length 86.00,  
Lead length 2 45.00/50.00,  
Height 11.00, Thickness 4.50/9.00



### PSX146-147K Brush Set

Replacing: 594061, 594064

Servicing: D6RA10, D6RA8, D6RA7

12 Volt, Length 14.00,  
Lead length 92.00, Lead length 2 47.00,  
Height 11.00, Thickness 4.50/9.00





### PSX148-157K Brush Set

Replacing: PSX148-157K

Servicing: D6RA25, D6RA13, D6RA15, D6RA17, D6RA19, D6RA21, D6RA22, D6RA23, D6RA26, D6RA28, D6RA29, D6RA30

12 Volt, Length 18.00,  
Lead length 56.00, Lead length 2 46.00,  
Height 11.00, Thickness 4.50/9.00  
2 component.



### PSX148-158K Brush Set

Replacing: PSX148-158K

Servicing: D6RA101, D6RA293, D6RA93

12 Volt, Length 18.00,  
Lead length 72.00, Lead length 2 45.00,  
Height 11.00, Thickness 4.50/9.00



### PSX148-159K Brush Set

Replacing: 594169, 594360, PSX148-159K

Servicing: D6RA133, D6RA33, D6RA37, D6RA47, D6RA51, D6RA511, D6RA57, D6RA571, D6RA180, D6RA181, D6RA67, D6RA78

12 Volt, Length 18.00,  
Lead length 41.00, Lead length 2 46.50,  
Height 11.00, Thickness 4.50/9.00



### PSX152-1538 Brush Set

Replacing: 182037

Servicing: D13E117TE, D13E118TE, D13E119TE, D13E120TE, D13E121TE, D13E122TE, D13E123TE, D13HP701, D13HP702

24 Volt, Length 17.00, Lead length 67.50,  
Height 18.00, Thickness 10.00



### PSX1554 Brush Set

Replacing: 187144, PSX1554

Servicing: D7E... 2 COMPONENT, D7E27, D7E32, D7E39, D7E47, ESW10E40, ESW10E7, TS10E26, D7E1, D7E15, D7E16, D7E18, D7E19, D7E2

12 Volt, Length 11.00, Lead length 31.50,  
Height 8.00, Thickness 6.40  
Alternative no.: PS155B



### PSX1564 Brush Set

Replacing: 187888, PSX1564

Servicing: ACR, 2 COMPONENT,

12 Volt, Length 11.00,  
Lead length 30.00, Height 8.00,  
Thickness 6.40



### PSX1584 Brush Set

Replacing: PSX1584

Servicing: D7R..., D7R48

12 Volt, Length 13.70,  
Lead length 56.00, Lead length 2 37.00,  
Height 14.00, Thickness 7.00



### PSX160-1644 Brush Set

Replacing: 190986, 191060, PSX160-1644

Servicing: D7G11, TS18ER20, 190895, 458389, D7G3, D7GS9, TS18E1, TS18ER121, TS18ER123, 191335, D7G4, D7GS10

12 Volt, Length 11.50,  
Lead length 28.00, Lead length 2 25.50,  
Height 13.00, Thickness 7.00,  
Terminals 1  
2 component.



### PSX1614 Brush Set

Replacing: PSX1614

Servicing: D8R...2 COMPONENT,  
12 Volt, Length 13.80/14.00,  
Lead length 36.00, Height 13.70,  
Thickness 7.00



### PSX166-1674 Brush Set

Replacing: 191771, 191849, PSX166-1674

Servicing: D6G2, D6G3, D6G5

12 Volt, Length 15.50,  
Lead length 38.50, Lead length 2 24.00,  
Height 10.00, Thickness 3.90/6.40  
2 component.



### PSX169-1704 Brush Set

Replacing: 191772, 191773, PSX169-1704

Servicing: ACR, D6GS11, D6GS12, D6GS13, TS14E11, TS12E9, TS12ER20, D6G3, D6G32, D6G33, D6G5, D6GS14, TS12E10

12 Volt, Length 15.50,  
Lead length 22.50, Lead length 2 39.00,  
Height 10.00, Thickness 3.90/6.40  
2 component. Overload protection.  
Alternative no.: PS169B, PS170B



### PSX54-692 Brush Set

Replacing: 072595, 182069

6 Volt, Length 14.50, Lead length 56.35,  
Height 18.00, Thickness 10.00





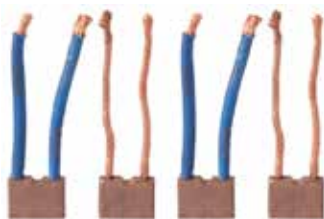
**PSX64-702** Brush Set  
 Replacing: 072591, 075452, 72591A  
 12 Volt, Length 17.00,  
 Lead length 60.00, Height 18.00,  
 Thickness 7.00



**PSX77-784** Brush Set  
 Replacing: 072619, 072632, 182112, 72632H  
 Servicing: D8E105, D11E58, D11E69,  
 D11E85, D11E84  
 12/24 Volt, Length 14.00, Lead length 65.00,  
 Height 18.00, Thickness 7.00



**PSX81-824** Brush Set  
 Replacing: 072631, 075093, 182114,  
 182115, 300679  
 Servicing: D11E118, D11E119, D11E119T,  
 D11E120, D11E129, D11E129T, D11E131,  
 D11E137, D11E141, D11E146, D11E153  
 12 Volt, Length 17.00, Lead length 73.50,  
 Height 25.00, Thickness 10.00



**PSX83-844** Brush Set  
 Replacing: 072630, 182132, 182153  
 Servicing: D13E111TE, D11E122, D11E122T,  
 D13E111  
 24 Volt, Length 17.00, Lead length 73.50,  
 Height 25.00, Thickness 10.00  
 Set w/ springs: HC-CARGO 140851.  
 Alternative no.: 140851

## Brushes

Pkg. 5



**142071** Brush  
 Servicing: 1250295, TM000A33401  
 12 Volt, Length 11.83, Lead length 30.50,  
 Height 16.07, Thickness 4.45  
 Cable length B+=50.50 mm.

Pkg. 100



**PS115** Brush  
 Replacing: PSX115-1162  
 12 Volt, Length 14.10, Lead length 65.50,  
 Height 17.95, Thickness 6.92  
 Alternative no.: PSX115-1162

Pkg. 100



**PS129A** Brush  
 Replacing: PSX1292/1P  
 Servicing: D9E140  
 12 Volt, Length 15.05, Lead length 68.00,  
 Height 10.15, Thickness 6.00/9.55  
 Alternative no.: PSX1292/1p

Pkg. 100



**PS129B** Brush  
 Replacing: PSX1292/1P  
 Servicing: D9E140  
 12 Volt, Length 15.00,  
 Lead length 41.50, Height 9.85,  
 Thickness 6.50/9.85  
 Alternative no.: PSX1292/1p

Pkg. 100



**PS133A** Brush  
 Replacing: PSX1332  
 Servicing: D9E86, D9E82  
 12 Volt, Length 15.00,  
 Lead length 63.50, Height 11.80,  
 Thickness 7.30/12.25  
 Alternative no.: PSX1332

Pkg. 10



**PS133B** Brush  
 Replacing: PSX1332  
 Servicing: D9E82  
 12 Volt, Length 15.00,  
 Lead length 48.00, Height 11.75,  
 Thickness 7.00/12.30  
 Alternative no.: PSX1332

Pkg. 100



**PS140/0** Brush  
 Replacing: PSX140-1414  
 12 Volt, Length 22.00,  
 Lead length 47.00, Height 17.90,  
 Thickness 8.85  
 Alternative no.: PSX140-1414

Pkg. 100



**PS141/S** Brush  
 Replacing: PSX140-1414  
 12 Volt, Length 22.00,  
 Lead length 45.00, Height 17.90,  
 Thickness 8.90  
 Alternative no.: PSX140-1414





Pkg. 100

### PS142 Brush

Replacng: PS142

Servicing: D7G14, D8R28, TS24E3, D7R40, D7R48, D7RP204, D8R49

12 Volt, Length 13.75, Lead length 35.50, Height 13.80, Thickness 6.85

Alternative no.: psx142-1434



Pkg. 100

### PS143 Brush

Replacng: PS143

Servicing: D7G14, D8R28, TS24E3, D7R40, D7R48, D7RP204, D8R49

12 Volt, Length 13.75, Lead length 35.50, Height 13.80, Thickness 6.85

Alternative no.: PSX142-1434



Pkg. 50

### PS144 Brush

Replacng: PS144

Servicing: D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RAD183, D6RADP359, D6RAP229, D6RAP404, D6RA91

12 Volt, Length 17.95, Lead length 46.00, Height 11.00, Thickness 4.50/9.05

Alternative no.: PSX144-145k



Pkg. 50

### PS145 Brush

Replacng: 188571

Servicing: D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RA91, D6RAD183, D6RADP359, D6RAP229, D6RAP404

12 Volt, Length 17.90, Lead length 86.00, Lead length 2 50.00, Height 11.00, Thickness 4.50/9.05

Alternative no.: PSX144-145k



Pkg. 100

### PS155B Brush

Replacng: 187144

Servicing: D7E... 2 COMPONENT, 105119C, D7E39, D7ED28, ESW10E7

12 Volt, Length 11.00, Lead length 31.50, Height 8.00, Thickness 6.40

Alternative no.: PSX1554



Pkg. 100

### PS169B Brush

Replacng: 191772, 191773, PS169B

Servicing: ACR, D6G1, D6G321, D6G332, D6GS12M, D6GS19, TS12ER20, TS14E110

12 Volt, Length 15.50, Lead length 22.50, Height 10.00, Thickness 3.90

2 component. Overload protection.

Alternative no.: PSX169-1704



Pkg. 100

### PS170B Brush

Replacng: 191772, 191773, PS170B

Servicing: ACR, D6G1, D6G321, D6G332, D6GS12M, D6GS19, TS12ER20, TS14E110

12 Volt, Length 15.50, Lead length 39.00, Height 10.00, Thickness 6.40

2 component. Overload protection.

Alternative no.: PSX169-1704

## Bushings



Pkg. 10

### 140038 Bushing

Replacng: 098888

ID 10.07, OD 13.05, Length 12.00,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140038



Pkg. 10

### 140043 Bushing

Replacng: 051914

Servicing: 532004C, D10E48, D10E59, D10E63, D10E72, D10E74, D10E75, D10E80, D10E81, D10E83, D10E85, D10E88

ID 12.10, OD 15.05, Length 15.00,

Material Copper, Pin w/o

Alternative no.: B140043



Pkg. 10

### 140064 Bushing

Replacng: 035070

Servicing: D10E66

ID 12.06, OD 15.07, Length 19.90,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140064



Pkg. 10

### 140065 Bushing

Replacng: 047852, 604521

Servicing: D11E109, D11E120, D11E131, D11E142, D11E155, D11E156, D11E158, D11E159, D11E167T

ID 14.07, OD 18.05, Length 20.15,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140065



Pkg. 10

### 140066 Bushing

Replacng: 030828, 072101

Servicing: D11E131, D11E155, D11E156, D11E167T

ID 16.00, OD 19.15, Length 15.00,

Type Standard, Material Copper, Pin w/o

Alternative no.: B140066



Pkg. 10



### 140067 Bushing

Replacing: 050488

Servicing: D11E120, D11E131, D11E156, D11E158, D11E163, D11E169, D11E172, D11E173, D11E176, D11E177, D11E187

ID 20.02, OD 24.06, Length 12.00, Type Standard, Material Copper, Pin w/o Alternative no.: B140067

Pkg. 10



### 140068 Bushing

Replacing: 047403

ID 17.05, OD 21.05, Length 20.00, Type Standard, Material Copper, Pin w/o

Pkg. 10



### 140119 Bushing

Replacing: 074952

Servicing: D10E48, D10E63, D10E66, D10E72, D10E74, D10E80, D10E85, D10E92, D10E921, D8E109, D8E126, D9E16

ID 16.00, OD 20.00, Length 10.00, Type Standard, Material Copper, Pin w/o Alternative no.: B140119

Pkg. 10



### 140258 Bushing

Replacing: 105464

Servicing: D9R112, D9R116, D9R118, D9R119, D9R121, D9R122, D9R142, D9R144, D9R149, D9R73, D9R84, D9R89, D9R90

ID 10.03, OD 13.04, Length 13.00, Type Standard, Material Copper, Pin w/o Alternative no.: B140258

Pkg. 10



### 140259 Bushing

Replacing: 105715

Servicing: D9R112, D9R116, D9R118, D9R119, D9R121, D9R122, D9R142, D9R144, D9R149, D9R73, D9R84, D9R89, D9R90

ID 10.06, OD 13.04, Length 16.00, Type Standard, Material Copper, Pin w/o Alternative no.: B140259

Pkg. 10



### 140496 Bushing

Servicing: D6G332, D6G3, D6G32, D6G33, D6G5, D6RA10, D6RA12, D6RA13, D6RA132, D6RA133, D6RA141, D6RA15, D6RA16

ID 12.06, OD 15.04, Length 10.00, Material Copper, Pin w/o Alternative no.: B140496

Pkg. 10



### 140497 Bushing

Servicing: D6RAP229, 626002, D6RA10, D6RA100, D6RA101, D6RA104, D6RA110, D6RA114, D6RA12, D6RA13, D6RA132

ID 6.05, OD 10.02, OD/collar 13.76, Length 8.30, Height/collar 2.10, Material Copper, Pin w/o Alternative no.: B140497

Pkg. 10



### 140498 Bushing

Servicing: 626002, D6RA100, D6RA101, D6RA104, D6RA114, D6RA132, D6RA15, D6RA162, D6RA163, D6RA167, D6RA168

ID 18.05, OD 22.04, Length 5.00, Material Copper, Pin w/o Alternative no.: B140498



### 140531 Bushing Kit

Replacing: 182061, NE003

Servicing: D10E59, D10E69, D10E75, D10E81, D10E83, D8E104, D8E105, D8E106, D8E107, D8E110, D8E111, D8E112



### 140533 Bushing Kit

Replacing: 182063, NE005, NE379

Servicing: 532001AB, 532001B, 532005A, 532007A, 532011A, 532012A, 532012B, 532017A, 532020A, 532020B, 532021A

ID 12.07, OD 15.07, Length 12.01, Type Standard, Material Copper, Pin w/o



### 140537 Bushing Kit

Replacing: 182136, NE008

Servicing: D11E108, D11E118, D11E119, D11E119T, D11E120, D11E131, D11E137, D11E139, D11E139T, D11E141, D11E144



### 140540 Bushing Kit

Replacing: 182139, NE011

Servicing: 182442, D11E142, D11E143, D11E153, D11E153T, D11E154, D11E155, D11E156, D11E158, D11E159, D11E160



### 140541 Bushing Kit

Replacing: 182140, NE012

Servicing: D11E163, D11E164, D11E169, D11E172, D11E173, D11E176, D11E177, D11E178, D11E187, D11E188, D11E192



**140615** Bushing

Servicing: D6RA110, D6RA132, D6RA133, D6RA161, D6RA162, D6RA163, D6RA249, D6RA30, D6RA32, D6RA33, D6RA45  
ID 6.00, OD 10.20, OD/collar 13.76, Length 8.20, Height/collar 1.55,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140615

Pkg. 10

**140676** Bushing

Replacing: 095654  
Servicing: D11E155, D11E167T  
ID 20.04, OD 24.05, Length 16.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140676

Pkg. 10

**140679** Bushing

Replacing: 048499  
ID 20.10, OD 24.02, Length 18.00,  
Material Copper, Pin w/o  
Alternative no.: B140679

Pkg. 10

**140680** Bushing

Replacing: 055330, 074322  
Servicing: D13HP601, D13HP605, D13HP607, D13HP702, D13HP703, D13HP709  
ID 17.08, OD 21.05, Length 24.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140680

Pkg. 10

**140684** Bushing

Replacing: 096485  
Servicing: D11E163  
ID 14.05, OD 18.03, Length 16.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140684

Pkg. 10

**140734** Bushing

Servicing: D7G11, D7G26, D7GS10, D7R13, D7R16, D7R17, D7R18, D7R2, D7R20, D7R22, D7R23, D7R25, D7R26, D7R34  
ID 7.02, OD 10.00, Length 6.10,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140734

Pkg. 10

**140735** Bushing

Servicing: D7G11, D7G26, D7GS10, D7R13, D7R16, D7R17, D7R18, D7R2, D7R20, D7R22, D7R23, D7R25, D7R26, D7R34  
ID 20.02, OD 24.03, Length 5.00,  
Material Copper, Pin w/o  
Alternative no.: B140735

Pkg. 10

**140952** Bushing

Servicing: D6RA15, D6RA168, D6RA42, D6RA43, D6RA47, D6RA63, D6RA68, D6RA7  
ID 4.00, OD 7.00, Length 7.40,  
Material Copper, Pin w/o

Pkg. 10

**140959** Bushing

Replacing: 103063  
Servicing: D13HP601, D13HP605, D13HP607, D13HP702, D13HP703, D13HP709  
ID 19.00, OD 23.02, Length 25.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140959

Pkg. 10

**141097** Bushing

Servicing: D13HP601, D13HP605, D13HP607, D13HP702, D13HP703, D13HP709  
ID 21.92, OD 28.05, Length 18.00,  
Type Standard, Material Copper, Pin w/o

Pkg. 10

**141145** Bushing

Servicing: M52100, M53486, MP112033, MP112040, MP112042, TM000A07901, TM000A08401  
ID 8.10, OD 11.55, Length 11.63,  
Material Copper, Pin w/o

Pkg. 10

**141146** Bushing

ID 10.12, OD 14.00, Length 12.00,  
Material Copper, Pin w/o

Pkg. 10

**141160** Bushing

Servicing: D6RA165, D6RA185, D6RA85  
ID 18.08, OD 22.06, Length 4.95,  
Material Copper, Pin w/o

Pkg. 10



 <p><b>141221</b> Bushing Servicing: 594436 ID 11.08, OD 12.10, Length 15.30, Material Copper, Pin w/o</p>	 <p><b>142076</b> Bushing Servicing: 1250449 ID 10.00, OD 13.05, Length 9.99, Type Standard, Pin w/o</p>	 <p><b>B140066#</b> Bushing Replacing: 030828, 072101 ID 16.00, OD 19.15, Length 15.00, Material Copper, Pin w/o Alternative no.: 140066</p>
 <p><b>141252</b> Bushing Servicing: 1195239, 1250303, S0001250303, TM000A27301, M56290, TM000A31001, TM000A37001, TM000A37201 ID 12.02, OD 16.00, OD/collar 19.66, Length 10.96, Height/collar 2.06, Material Copper</p>	 <p><b>B140038</b> Bushing Replacing: 098888 ID 10.07, OD 13.05, Length 12.00, Material Copper, Pin w/o Alternative no.: 140038</p>	 <p><b>B140067</b> Bushing Replacing: 050488 ID 20.02, OD 24.06, Length 12.00, Material Copper, Pin w/o Alternative no.: 140067</p>
 <p><b>141264</b> Bushing Servicing: TM000A31201 ID 19.00, OD 23.50, Length 10.00, Material Copper, Pin w/o</p>	 <p><b>B140043</b> Bushing Replacing: 051914 ID 12.10, OD 15.05, Length 15.00, Material Copper, Pin w/o Alternative no.: 140043</p>	 <p><b>B140119</b> Bushing Replacing: 074952 ID 16.00, OD 20.00, Length 10.00, Material Copper, Pin w/o Alternative no.: 140119</p>
 <p><b>142009</b> Bushing Servicing: 594631 ID 12.09, OD 14.03, Length 14.00, Type Standard, Material Copper, Pin w/o</p>	 <p><b>B140064</b> Bushing Replacing: 035070 ID 12.06, OD 15.07, Length 19.90, Material Copper, Pin w/o Alternative no.: 140064</p>	 <p><b>B140258</b> Bushing Replacing: 105464 ID 10.03, OD 13.04, Length 13.00, Material Copper, Pin w/o Alternative no.: 140258</p>
 <p><b>142027</b> Bushing Servicing: TS18ER20, TS18ER22 ID 12.00, OD 15.40, Length 10.00, Material Copper</p>	 <p><b>B140065</b> Bushing Replacing: 047852, 604521 ID 14.07, OD 18.05, Length 20.15, Material Copper, Pin w/o Alternative no.: 140065</p>	 <p><b>B140259</b> Bushing Replacing: 105715 ID 10.06, OD 13.04, Length 16.00, Material Copper, Pin w/o Alternative no.: 140259</p>





Pkg. 100

### B140333

Bushing

Replacing: B140333

ID 12.53, OD 15.50, Length 10.50,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: 140333


Pkg. 100

### B140496

Bushing

Servicing: D6G1, D6G321, D6RA138, TS12E9

ID 12.06, OD 15.04, Length 10.00,  
Material Copper, Pin w/o  
Alternative no.: 140496


Pkg. 100

### B140497

Bushing

Servicing: D6RA105, D6RA107, D6RA115,  
D6RA138, D6RA70, D6RAD183, D6RADP359,  
D6RAP404, D6RA110, D6RA91

ID 6.05, OD 10.02, OD/collar 13.76,  
Length 8.30, Height/collar 2.10,  
Material Copper, Pin w/o  
Alternative no.: 140497


Pkg. 100

### B140498

Bushing

ID 18.05, OD 22.04, Length 5.00,  
Material Copper, Pin w/o  
Alternative no.: 140498


Pkg. 100

### B140499

Bushing

Servicing: D6G1, D6G321, D6GS11,  
D6GS12M, D6GS19, TS14E110

ID 6.02, OD 9.04, Length 7.05,  
Material Copper, Pin w/o  
Alternative no.: 140499


Pkg. 100

### B140615

Bushing

ID 6.00, OD 10.20, OD/collar 13.76,  
Length 8.20, Height/collar 1.50,  
Material Copper, Pin w/o  
Alternative no.: 140615


Pkg. 100

### B140676

Bushing

Replacing: 095654

ID 20.04, OD 24.05, Length 16.00,  
Material Copper, Pin w/o  
Alternative no.: 140676


Pkg. 100

### B140679

Bushing

Replacing: 048499

ID 20.10, OD 24.02, Length 18.00,  
Material Copper, Pin w/o  
Alternative no.: 140679


Pkg. 100

### B140680

Bushing

Replacing: 055330, 074322

ID 17.08, OD 21.05, Length 24.00,  
Material Copper, Pin w/o  
Alternative no.: 140680


Pkg. 100

### B140684

Bushing

Replacing: 096485

ID 14.04, OD 18.03, Length 15.90,  
Material Copper, Pin w/o  
Alternative no.: 140684


Pkg. 100

### B140734

Bushing

Servicing: D7G26, TS22E45

ID 7.02, OD 10.00, Length 6.10,  
Material Copper, Pin w/o  
Alternative no.: 140734


Pkg. 100

### B140735

Bushing

Servicing: D7G26, ESW20ER123, ESW20ER-  
123HE, TS18ER20, TS22E45, ESW20ER25

ID 20.02, OD 24.03, Length 5.00,  
Material Copper, Pin w/o  
Alternative no.: 140735


Pkg. 100

### B140959

Bushing

Replacing: 103063

ID 19.00, OD 23.02, Length 25.00,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: 140959

## Bearings

### Ball Bearings



Pkg. 9

### 140412

M410X12971

Replacing: M410X12971

Servicing: MG232415, HK988300, HQ808670,  
MG120413, MG120445, MG122202,  
MG122433, TM000A06101, TM000A14901

ID 19.00, OD 37.00, Height 9.00,  
Bushing w/





Pkg. 10

### 140893 FAG

629-2RS1/C3

Replacing: 6292RS1C3

Servicing: MG232415, HK988300, HQ808670, MG120445, MG122202, MG122404, MG122433, TM000A06901, TM000A14901

ID 9.00, OD 26.00, Height 8.00

### NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)

### 334069

Servicing: ESW20ER121, ESW20ER123, ESW20ER123HE, ESW20ER25, TS22ER13

ID 22.00, OD 42.00, Height 12.00,

Lock ring w/o, Oil seals w/o,

Teflon ring w/o, Bushing w/o

### Needle Bearings

Pkg. 10



### 140482 FAG

Needle Bearing

Replacing: 1000917003

Servicing: D7R17, D7R19

ID 10.00, OD 14.00, Height 10.00

Pkg. 5



### 140919



Needle Bearing

Replacing: 186448

Servicing: D6RA107, D6RA110, D6RA138, D6RA167, D6RA187, D6RA188, D6RA67, D6RA70, D6RAD183, D6RADP359, D6RAP229

ID 10.00, OD 14.00, Height 14.00

Closed end.

Alternative no.: 335932



Pkg. 5

### 141001



Needle Bearing

Servicing: 188839, D7G11, D7R1, D7R13, D7R16, D7R17, D7R18, D7R2, D7R20, D7R25, D7R3, D7R4, D7R40, D7R45

ID 10.00, OD 14.00, Height 12.00

Pkg. 10



### 141168



Needle Bearing

Servicing: 626002, D6RA100, D6RA114, D6RA167, D6RA181, D6RA67, D6RA81, D6RA91

ID 4.00, OD 8.00, Height 7.90

Pkg. 10



### 141225

Needle Bearing

Servicing: 458389, D6GS11, D6GS12M, D6GS19, D7GS9, TS12ER20, TS18E1, TS18ER121, TS18ER123, 191335, D6GS12

ID 29.50, OD 36.70, Height 13.30

Pkg. 5



### 142003

Needle Bearing

Servicing: TS10E26, D7ES5

ID 26.10, OD 33.00, Height 13.70

### NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)

### 334070

Needle Bearing

Replacing: HK2010

Servicing: 02Z911021C, 02Z911024A, 02Z911024L, ESW20E26, ESW20ER121, ESW20ER123, ESW20ER123HE, ESW20ER25

ID 20.00, OD 26.00, Height 9.90,

No./rolls 22

Pkg. 5

### NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)

### 335932



Needle Bearing

Replacing: 186448

Servicing: D6RA107, D6RA110, D6RA138, D6RA167, D6RA187, D6RA188, D6RA67, D6RA70, D6RAD183, D6RADP359, D6RAP229

ID 10.00, OD 14.00, Height 14.00

Closed end.

Alternative no.: 140919

### Repair Kits



### 135635

Repair Kit

Servicing: D6RA10, D6RA12, D6RA8



### 135636

Repair Kit

Replacing: 594243

Servicing: D6RA100, D6RA101, D6RA104, D6RA105, D6RA107, D6RA110, D6RA115, D6RA16, D6RA18, D6RA20, D6RA6





### 136227 Repair Kit

Manufacturer: Valeo

Replacing: 182060

Servicing: D10E85, D10E87, D10E88, D10E881, D10E882, D10E89, D10E90, D10E92, D10E921, D10E922, D8E155, D8E157



### 231117 Repair Kit

Manufacturer: Valeo

Replacing: 182050

Servicing: D9R105, D9R1050, D9R106, D9R112, D9R116, D9R118, D9R119, D9R121, D9R122, D9R134, D9R135, D9R139



### 231117 Repair Kit

Manufacturer: Valeo

Replacing: 182050

Servicing: D9R105, D9R1050, D9R106, D9R112, D9R116, D9R118, D9R119, D9R121, D9R122, D9R126, D9R134, D9R135

## Sundry Parts

### Screws



### 234617 Screw

Servicing: 2181991C, 2518039C, 2541199B, 2541199D, 2181693, 2181761, 2181991, 2518039, 2522104, 2541199

Thread M5, Total length 57.50,  
Thread length 22.50, Shaft w/,  
Washer w/o

## Oil Seals

Pkg. 5



### 134481 Oil Seal

Servicing: 182178, D9R91

ID 18.30, OD 30.20, Height 6.95,  
Material Rubber, O-ring w/o

Pkg. 5



### 231573 Oil Seal

Servicing: D13HP601, D13HP605, D13HP607, D13HP702, D13HP703, D13HP709

ID 21.60, OD 32.15, Height 6.70,  
Material Rubber, O-ring w/o



### 232855 Oil Seal

Servicing: D7ES1, D7ES2, D7ES4

ID 31.85, OD 41.45, Height 5.65,  
Material Metal/Rubber, O-ring w/o

Pkg. 5



### 337435 Seal

Servicing: ESW20ER25, TS22ER13

ID 22.00, OD 28.10, Thickness 4.05

## O-rings

Pkg. 5



### 133598 O-ring

Replacing: S809P59201

Servicing: APR165AA, 567051, AD155326, AD160209, AD165202, AD165206, AD165320, AD165320Q, AD165321, AD165321Q  
ID 72.00, OD 76.00, Thickness 2.00,  
Colour Black

Pkg. 10



### 134488 O-ring

OD 40.00, Thickness 2.00, Colour Black

Pkg. 5



### 136431 O-ring

Replacing: 055578

Servicing: D11E131, D13HP601, D11E120, D11E122, D11E122T, D11E126, D11E137, D11E142, D11E154, D11E156, D11E158

ID 106.00, Thickness 4.50

Pkg. 10



### 137730 O-ring

Servicing: 2541738C, 2541117, 2541257, A13N157, A13N203

ID 13.00, Thickness 3.00, Colour Black

Pkg. 10



### 138193 O-ring

Servicing: D9R91

ID 71.00, Thickness 3.00, Colour Black

Pkg. 10



### 138193 O-ring

Servicing: D9R91

ID 71.00, Thickness 3.00, Colour Black



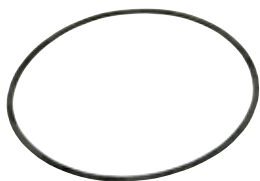
Pkg. 10



### 234941 O-ring

**Servicing:** 2542663, 2542664, 2542664A, 2542664B, 2542664C, 2542664D, 2542696, 2542696C, 2542818, 2542954  
**ID** 119.00, **OD** 126.80, **Height** 1.80, **Thickness** 3.90, **Colour** Black, **Material** Rubber

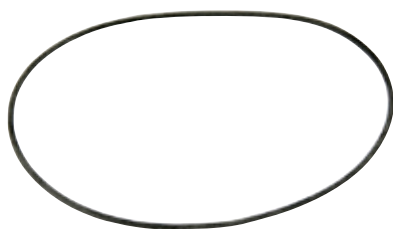
Pkg. 10



### 330047 O-ring

**Servicing:** 2542611, 2542611B, 2542613, 2542720, 2542720D, 2542720J, 2542783C, 2542783D, 2542784, 2542784A  
**ID** 136.00, **OD** 143.00, **Height** 1.60, **Thickness** 3.50, **Colour** Black, **Material** Rubber

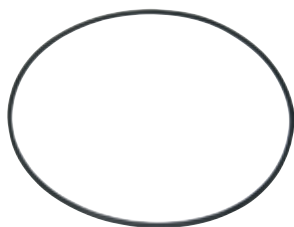
Pkg. 10



### 330318 O-ring

**Servicing:** 2542892, 2542966, 2542966B, 2542966D, 2542966E, 2542966F, 2542966G, 2543400, 2605547, 2605717  
**ID** 132.00, **OD** 136.60, **Height** 1.60, **Thickness** 2.30, **Colour** Black, **Material** Rubber

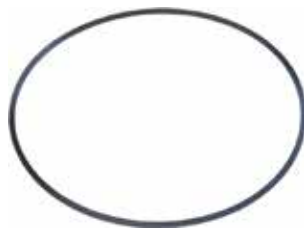
Pkg. 10



### 331675 O-ring

**Servicing:** 2543388, 2543398A, 2543597, 2605546, 2606272, 2606272A, 2607765A, 2608901A, 2608901C, TG14C020  
**ID** 133.80, **OD** 139.00, **Height** 1.80, **Thickness** 2.60, **Colour** Black

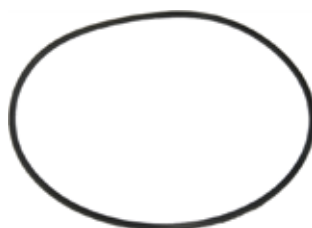
Pkg. 10



### 332113 O-ring

**Servicing:** 2542855, 2542855B, 2543207, 2543370, 2543370A, 2543426, 2543426A, 2543561, 2543561A, 2543563  
**ID** 126.50, **OD** 132.50, **Height** 1.40, **Thickness** 2.80

Pkg. 5



### 334026 O-ring

**Servicing:** 2543291, 2543469, 2543469A, 2543590, 2543590A, 2606005, 2606005A, TG11C048, TG11C056, TG11C057  
**ID** 122.50, **OD** 128.50, **Height** 1.60, **Thickness** 3.00

Pkg. 10



### 337372 O-ring

**Servicing:** 36100-03300, ESM18E8  
**ID** 26.00, **OD** 30.60, **Thickness** 0.15

## Covers

Pkg. 5



### 231495 Cover

**Servicing:** D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RAD183, D6RADP359, D6RAP229, D6RAP404, D6RA110  
**ID** 13.75, **OD** 14.30, **Height** 13.95

## Various

Pkg. 5



### 131618 Cover

**Replacing:** 075953  
**OD** 28.35, **Height** 18.10

Pkg. 5



### 131810 Cover

**Replacing:** 096473  
**OD** 32.35, **Height** 18.90

Pkg. 5



### 133388 Adaptor

**Servicing:** D9E131, D9E132, D9E43, D9E44, D9E83  
**Thread size** M8

Pkg. 5



### 134106 Rubber Seal

**Servicing:** D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RAD183, D6RADP359, D6RAP229, D6RAP404, D6RA110  
**ID** 51.50, **OD** 61.20, **Thickness** 5.60, **Material** Rubber

Pkg. 10



### 134107 Rubber Seal

**Servicing:** D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RAD183, D6RADP359, D6RAP229, D6RAP404, D6RA110  
**OD** 25.80, **Length** 34.00





Pkg. 25

### 134289 Insulator

Servicing: D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RAD183, D6RADP359, D6RAP229, D6RAP404, D6RA110  
ID 10.80, OD 13.80, Length 22.55



Pkg. 10

### 134756 Gasket

Servicing: D9E140, D9E86  
ID/mount. hole 5.00, Length 51.55, Thickness 0.40, Width 41.45, Mount. holes 2



Pkg. 10

### 134779 Plate

Length 9.10, Thickness 1.45, Width 9.10, Material Steel, Gasket w/o



Pkg. 10

### 135169 Terminal Cap

Servicing: 2541321E, 2541321H, 2541339E, 2541339I, 2541340F, 2541361A, 2541494A, 2541608E, 2541612A, 2541641D  
OD 19.55, Height 27.70



### 135317 Rubber Seal

Servicing: D9E140



Pkg. 10

### 135469 Rubber Seal

Servicing: 2541321E, 2541321H, 2541361A, 2541608E, 2541641D, 2541703B, 2541725A, 2541725B, 2541725H, 2541726B  
ID 18.00, OD 28.00, Thickness 4.00, Material Neoprene



Pkg. 10

### 135470 Rubber Seal

Servicing: 2541339E, 2541339I, 2541340F, 2541494A, 2541608E, 2541612A, 2541658A, 2541792B, 2541835A, 2541953B  
ID 18.00, OD 30.00, Thickness 4.00, Material Neoprene



Pkg. 10

### 135516 Cover

Servicing: D8R1, D8R28, D8R49, ES-W20ER121, D7R40, D7R48, D7RP204, ESW20E26, ESW20ER123, ESW20ER123HE  
OD 23.90, Height 15.80



Pkg. 10

### 135645 Screw

Replacing: 182041  
Servicing: 182442, D11E108, D11E118, D11E119, D11E119T, D11E120, D11E122, D11E122T, D11E128, D11E128T, D11E129  
Thread M10, Total length 16.00, Thread length 11.00, Shaft w/, Washer w/



Pkg. 10

### 135846 Retaining Ring

Servicing: 190895, D6G1, D6G321, D6RA107, D6RA138, D6RA70, D6RAD183, D6RADP359, D6RAP404, D7G14, D7G3, D8R1  
Stop collar: HC-CARGO 137742.



Pkg. 5

### 135879 Grommet

Servicing: D10E85, D10E92, D10E921, D9E100, D9E11, D9E123, D9E138, D9E200, D9E237, D9E276, D9E278, D9E300



Pkg. 10

### 135968 Grommet

Servicing: D7RP123, D7RS130, D7RS131, D7RS30, D7RS301, D7RS31, D9R121, D9R122, D9R142, D9R149, D9R73, D9R84  
Dim. A 25.40, Dim. B 22.40, Dim. D 8.00



Pkg. 25

### 136736 Insulator

ID 11.50, OD 16.60, Thickness 1.00, Bushing w/o



### 139174 Brake Washer

Manufacturer: Valeo

Replacing: 182197

Servicing: D13E100TE, D13E101TE, D13E104TE, D13E105, D13E107TE, D13E108TE, D13E109TE, D13E110TE, D13E111

ID 37.85, OD 54.00, Thickness 4.25, Bushing w/o



Pkg. 10

### 139380 Connection

Replacing: 079243

Servicing: D11E131

Mount hole 8.00,

Mount. hole 2 8.00, Total length 97.45





### 139535 Connection

Manufacturer: Valeo

Replacino: 182159

Servicing: D13E100TE, D13E101TE, D13E104TE, D13E105, D13E107TE, D13E108TE, D13E109TE, D13E110TE, D13E111

Mount hole 12.60,

Mount. hole 2 12.60, Total length 81.00

Pkg. 10



### 139801 Insulator

Servicing: 2541169, 2541171, 2541173, 2541180, 2541363, 2541366, 2541368, 2541445, 2541489, 2541490, 2541672

6.00x15.10x6.10 mm. B+.

Pkg. 10



### 139802 Insulator

Servicing: 2541624A, 2542514A, 2541142, 2541169, 2541173, 2541180, 2541181, 2541363, 2541367, 2541368, 2541445

ID 5.00, OD 13.25, Height 5.50 D+, W.

Pkg. 100



### 192405 Socket Screw

Replacino: 192405

Servicing: D6RA105, D6RA115, D6RA138, D6RAD183, D6RADP359, D6RAP229, D6RA110

Thread M5, Length 45.00,

Head type Unbrako, Colour Black,

Quality 12.9, Material Steel,

DIN norm 912, ISO norm 4762

Pkg. 5



### 230566 Retaining Ring

Servicing: 105119C, D7E27, D7E32, D7E39, D7E47, D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23

Thickness 1.20

Stop collar: HC-CARGO 230565.

Pkg. 5



### 233164 Drain Tube

Servicing: TM000V23601, HQ808670, MG122202, MG122433, MP112033, MP112040, MP112042, TM000A18601, TM000A23601

ID 7.70, OD 11.55, Length 9.90

Pkg. 10



### 233818 Washer

Servicing: 105119C, TS10E26, D7E1, D7E18, D7E38, D7E4, D7E6, D7E7, D7E8, D7ES1, D7ES2, D7ES4, D7ES5

ID 8.20, OD 15.95, Thickness 0.80,

Material Steel, Bushing w/o

Pkg. 5



### 234018 Key

Servicing: 2541895B, 2541895C, 2541920B, 2541928A, 2541953B, 2542225A, 2542225B, 2542232, 2542233A, 2542233C

Length 23.60

Pkg. 10



### 234888 Gasket

Servicing: 458389, D6GS11, D6GS12M, D7GS9, TS12ER20, TS18E1, TS18ER121, TS18ER123, 191335, D7GS10, D7GS8

ID 29.80, OD 36.70, Thickness 2.40

Pkg. 10



### 234965 Rubber Spacer

Servicing: 2542611, 2542611B, 2542613, 2542663, 2542664, 2542664A, 2542664B, 2542664C, 2542664D, 2542672

Length 42.00

Pkg. 10



### 234987 Washer

Servicing: D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RAD183, D6RADP359, D6RAP229, D6RAP404, D6RA110

ID 6.30, OD 15.50, OD/collar 12.70,

Height/collar 2.60, Thickness 1.00,

Material Metal

Pkg. 10



### 235158 Gasket

Servicing: TS10E26, D7ES1, D7ES2, D7ES4, D7ES5

ID 17.60, Length 40.50, Thickness 0.50, Width 23.50, Material Cardboard





Pkg. 10

**236094** Drain Tube  
Servicing: M52100, TM000A07901  
ID 8.50, OD 10.00, Length 10.00

Pkg. 10



**236711** Washer  
Servicing: D6RA105, D6RA115, D6RA138, D6RAP229, 626002, D6RA114, D6RA137, D6RA187, D6RA188, D6RA293, D6RA37  
ID 6.00, OD 12.00, Thickness 0.30, Type Flat washer

Pkg. 10



**236895** Gasket  
Servicing: TS10E26, D7ES5  
ID 25.83, OD 33.13, Thickness 1.88, Material Rubber

Pkg. 10



**239398** Drive plug  
Servicing: D7ES5  
ID 11.80, OD 13.45, Height 3.55

Pkg. 10



**332877** Bushing  
Servicing: TS10E26  
ID 8.07, OD 11.06, Length 9.50, Type Standard, Material Brass, Pin w/o



Pkg. 10

**336100** Gasket  
Servicing: ESW10E7  
Length 133.00, Thickness 10.50, Width 5.00, Material Plastics

Pkg. 10



**337337** Gasket  
Servicing: FS10M3  
Thickness 8.50

Pkg. 5

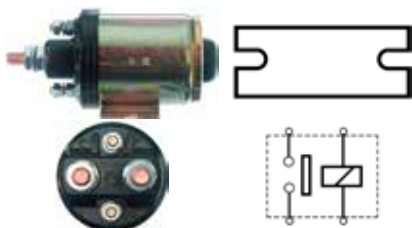


**337437** Retaining Ring  
Servicing: ESW20ER25, TS22ER13  
ID 17.00, OD 21.50



## Solenoids

12 V



### 133695 Solenoid

Replacing: 099845, CEY113

12 Volt, 100 Amp, Intermittent load 500 Amp.,  
B+ M8, OD 47.70, OD/cover 52.35,  
Total length 105.55, Height/B+ 18.85,  
Terminal 15A/width 13.90,  
Terminal 50 M5, Coil bolt M8,  
Coil bolt 2 19.35, Seconds 5,  
No./mount. holes 2, No./terminals 4  
Universal.

## Solenoid Parts

## Moving Contacts

Pkg. 100



### B235538 Moving Contact

OD 2 6.45, Length 36.00, Shaft dim. 31.60,  
Thickness 2.00, Width 15.00, Shaft w/  
Alternative no.: 235538

## Fixed Contacts



### 334144 Fixed Contact

Total length 45.00, Length/rear collar 35.00,  
Thread size M10

Pkg. 10



### 335920 Fixed Contact

Total length 28.50,  
Length/rear collar 23.50,  
Thread length 15.85, Thread size M8,  
Shaft w/, Washer w/o

## Drives



### 134722 Drive

Replacing: CT212-3708600, ST212-3708600B

ID 16.00, OD 36.10, OD/housing 68.00,  
Total length 107.60, No./teeth 10,  
Drive type Steel, Rotation CW,  
Key spline w/o, Lock w/o



### 134723 Drive

Replacing: 24.3708600, 3708600-3,  
CT352D-3708600-3

ID 16.00, OD 36.45, OD/housing 65.50,  
Total length 107.50, No./teeth 10,  
Rotation CW, Key spline w/o, Lock w/o

## Brush Sets



### 140408 Brush Set

12/24 Volt, Length 26.05, Lead length 37.50,  
Height 12.78, Thickness 8.92  
2 kW.



### 140410 Brush Set

12/24 Volt, Length 27.96, Lead length 47.50,  
Height 19.86, Thickness 8.90  
3 kW.



### 140872 Brush Set

Replacing: 24.3708025

12 Volt, Length 21.70, Lead length 74.00,  
Height 22.45, Thickness 17.50

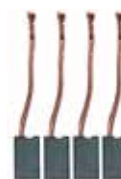


### 140918 Brush Set

Replacing: 2137014038, 16.770.295

Servicing: 0136352005, 0136355049,  
0136355050, 0136355057, 0136355058,  
0136355059, 0136355060, 0136355061

24 Volt, Length 25.50, Lead length 32.00,  
Height 25.85, Thickness 8.90  
1.5/2.5 kW.



### 141083 Brush Set

Servicing: Renault, Peugeot, Citroen, Elec-  
tric Power Steering

Length 21.15, Lead length 60.50,  
Height 12.25, Thickness 6.95



### 141193 Brush Set

24 Volt, Length 26.50, Lead length 55.00,  
Height 19.80, Thickness 9.95



### MOSX5-68 Brush Set

Replacing: MOSX5-68

12 Volt, Length 22.60, Lead length 66.00,  
Height 15.95, Thickness 11.00



### SVX52 Brush Set

Length 14.50, Lead length 48.55,  
Height 6.40, Thickness 4.50





**SVX72** Brush Set  
Servicing: 0081548902, 0101543902, 0111548202, 028903027L, 028903029M, 028903031A, 030903023E, 030903023H  
14-28 Volt, Length 14.50, Lead length 50.00, Height 6.40, Thickness 4.60



**SVX92** Brush Set  
Length 16.00, Lead length 49.70, Height 6.40, Thickness 4.50

Pkg. 10



**US60** Brush  
12 Volt, Length 14.88, Lead length 54.50, Height 14.95, Thickness 7.97



**USX50-512** Brush Set  
6/12 Volt, Length 13.00, Lead length 63.50, Height 19.00, Thickness 9.00



**USX50-514** Brush Set  
Servicing: 6127, 538000A, 538000ABC, 538000B, 538000C, 538002A, 538003A, 538005A, 538005D, 538006A, 6056H  
Length 13.00, Lead length 46.00, Height 19.00, Thickness 8.80



**USX64-652** Brush Set  
6 Volt, Length 15.00, Lead length 46.00, Height 15.00, Thickness 8.00



**USX682** Brush Set  
12 Volt, Length 15.00, Lead length 46.00, Height 15.00, Thickness 8.00



**USX73-852** Brush Set  
Servicing: 532000A, 532000AB, 532000B, 532001A, 532004B, 533001A, 536001A, 6035F, 6045A, 6045B, 6081EF, 6092B  
12 Volt, Length 15.00, Lead length 50.00, Height 15.00, Thickness 8.00



**USX76-77-78** Brush Set  
12 Volt, Length 15.00, Lead length 50.59, Height 15.00, Thickness 8.00



**USX91-922** Brush Set  
Servicing: 532012A, 532012B, 532016A, 532016B, 532021A, 532023A, 532024A, 532024B, 532025A, 532025B, 532026A  
12 Volt, Length 15.00, Lead length 61.00/45.00, Height 6.00/11.70, Thickness 13.00



**USX93-942/1** Brush Set  
Servicing: 532027A, 534027A, 534028A, 534035A, 534036A, 534056F  
12 Volt, Length 15.00/18.50, Lead length 50.00, Lead length 2 126.50, Height 5.50/8.20, Thickness 13.10

## Brushes

Pkg. 10



**SW126** Brush  
Length 6.23, Lead length 21.95, Height 10.92, Thickness 6.35

Pkg. 100



**US73/0#** Brush  
12 Volt, Length 14.95, Lead length 41.50, Height 14.90, Thickness 7.90  
Alternative no.: USX73-852

Pkg. 100



**US91/0** Brush  
12 Volt, Length 15.12, Lead length 42.70, Height 13.10, Thickness 10.85  
Alternative no.: USX91-922



## Bushings

Pkg. 10



**140499** Bushing  
 Replacing: 62-94201, SBU9026  
 Servicing: 02M911023M, 02T911023S,  
 02T911023T, 02Z911023G, 0AM911023B,  
 1539686, 1671515, 36100-2A300, 51823860  
 ID 6.02, OD 9.00, Length 7.10,  
 Material Copper, Pin w/o  
 Alternative no.: B140499

Pkg. 10



**141206** Bushing  
 Servicing: SIEMENS  
 ID 12.50, OD 16.00, OD/collar 18.00,  
 Length 20.00, Height/collar 2.00,  
 Type Standard, Material Copper, Pin w/o

Pkg. 5



**142047** Bushing  
 Servicing: 8000180, 36100-2A950, 8000675  
 ID 22.34, OD 26.70, Length 5.50,  
 Type Standard, Material Copper, Pin w/o



**142087** Bushing  
 ID 10.00, OD 14.00, Length 9.00

Pkg. 10

**NEW PRODUCT**  
[www.hc-cargo.com](http://www.hc-cargo.com)

**142216** Bushing  
 ID 8.07, OD 12.55, Length 10.00

## Sundry Parts

### Bracket Parts

### Mounting Bushings

Pkg. 100



**610052** Bushing  
 ID 16.50, OD 25.00, OD/collar 25.00,  
 Length 12.00, Height/collar 2.50,  
 Material Steel, Pin w/o

### Through Bolts

**NEW PRODUCT**  
[www.hc-cargo.com](http://www.hc-cargo.com)

**335655** Through Bolt  
 Thread M5, Length 113.50,  
 Total length 118.25, Thread length 17.50,  
 Head type Hex washer, Washer w/o  
 Alternative no.: 231683

### Screws

Pkg. 1000



**B230601** Screw  
 Servicing: 0081548202, 0081548302,  
 0081548402, 0091541902, 0091543002,  
 0091544302, 0091545802  
 Thread 3.20x17.50, Total length 20.35,  
 Thread length 11.00, Slot type Phillips,  
 Pozidriv, Shaft w/, Washer w/o  
 Alternative no.: 230601

### Nuts

Pkg. 200



**193502** Hex Flange Nut  
 Thread M5, OD 8, OD/washer 11.8,  
 Coating Galvanised, Washer w/

## Various

Pkg. 100



**335263** Dust Cover  
 Replacing: 2881D, SRS9100P  
 ID 16.10, OD 17.15, Height 3.00,  
 Rubber w/o

Pkg. 100



**335896** Lock Washer  
 ID/housing 8.30, OD/housing 14.70,  
 Thickness 1.20  
 Alternative no.: 135195



## Armatures



### 130338 Armature

Replacing: 2014003000, 2014003900,  
2014003902

Servicing: 0010300002, 0010300004,  
0010300100, 0010300101

12 Volt, 0.9 kW, Shaft dia. 19.75,  
Shaft length 230.60, Height/bar 4.20,  
Height/bar lane 23.10,  
Core thickness 60.00, No./bars 36  
11 A.



### 335584 Armature

Replacing: 74964941

Shaft length 249.00, Height/bar lane 20.60,  
Core thickness 57.60, No./bars 24

## Armature Parts

Pkg. 10



### 132324 Key

Replacing: 1900023008, 900.000.101

Servicing: 0010300100, 0010350009,  
0010350011, 0010350100, 0010350101,  
0010350102, 0101302027, 0101302028

Length 16.00, Thickness 4.00,  
Width 6.50

## Brush Sets



### 141266 Brush Set

12 Volt, Length 26.00,  
Lead length 38.00, Height 13.50,  
Thickness 5.50



## Armatures



### 130071 Armature

Replacing: 1104012042, 1104012949

Servicing: 0101201022, 0101209031, 0101209032, 0101209033, 0101209036

12 Volt, Shaft dia. 17.15,  
Shaft length 206.00, Height/bar 4.95,  
Height/bar lane 20.35,  
Core thickness 56.00, No./bars 30  
11 A.



### 130073 Armature

Replacing: 1104013431, 1104013434,  
1104013949, 1104013956

Servicing: 0101302067, 0101302068,  
0101302075, 0101302076, 0101302085,  
0101302086, 0101302111, 0101302112

12 Volt, Shaft dia. 17.10,  
Shaft length 260.00, Height/bar 5.20,  
Height/bar lane 25.80,  
Core thickness 65.00, No./bars 30  
30 A.



### 130309 Armature

Replacing: 1104013427, 1104013939,  
1104013942, 1104013943

Servicing: 0101302004, 0101302016,  
0101302021, 0101302022, 0101302023,  
0101302025, 0101302026, 0101302027

12 Volt, Shaft length 233.00,  
Height/bar 6.00, Height/bar lane 28.00,  
Core thickness 65.00, No./bars 30  
30 A.



### 130824 Armature

Replacing: 227271, 227693, 227987,  
26212754, 54213780, 54214237, 54214537,  
54217499, 54217859, UWB100, UWB102

Servicing: C40, 22705, 22754, 22700L,  
22700R, 22704L, 22704Q, 22705F, 22705L,  
22715, 22715E

12 Volt, Shaft length 216.00,  
Height/bar 5.85, Height/bar lane 23.00,  
Core thickness 60.00, No./bars 27  
22 A.



### 130826 Armature

Replacing: 54216228, 54216753, 54218417,  
UWB106, C5NF10027B

Servicing: C40T, 22700, 22755, 22755A,  
22755H, 22756, 22756A, 22756H, 22757,  
22757A, 22757H, 22758, 22758A, 22758E

12 Volt, Shaft dia. 17.00,  
Shaft length 238.00, Height/bar 4.00,  
Height/bar lane 25.00,  
Core thickness 60.00, No./bars 29  
11/22 A.



### 233502 Armature

Replacing: 1104012914

Servicing: 0101206064, 0101206116,  
0101206117

12 Volt, Shaft dia. 17.00,  
Shaft length 246.00, Height/bar 4.40,  
Height/bar lane 19.55,  
Core thickness 56.00, No./bars 30  
38 A.

## Field Coils

### 12 V



### 130076 Field Coil

Replacing: 1104103007, 1104103008

Servicing: 0101302111, 0101302112,  
0101302118

12 Volt, 30 Amp, Height 111.00,  
Internal height 72.00, Inner width 48.00



### 130189 Field Coil

Replacing: 227543, 229362, 54219374, UWB102

Servicing: C40, C40A, C40T, 22718H, 22718J,  
22719, 22719H, 22719J, 22732E, 22732J,  
22735H, 22735J, 22780, 22786A, 22700L

12 Volt, 22 Amp, Height 119.35,  
Internal height 59.75, Inner width 41.50



### 335159 Field Coil

Replacing: 1104102040, 1104102041,  
1104102043, 1104102044, 335159

12 Volt, 11 Amp, Height 107.00,  
Width 64.00, Internal height 63.00,  
Inner width 34.00, Brush gear w/o

## Sundry Parts

### Various

Pkg. 10



### 130818 Rivet

Replacing: 188739, 54150154

Servicing: C40, 22700, 22258, 22703,  
22703K, 22703M, 22704, 22704L, 22704Q,  
22705, 22705F, 22705L, 22715E, 22715K

OD 4.70, OD/collar 9.70, Length 20.00,  
Height/collar 1.65, Collar w/



Pkg. 10

**130819** Nut

Replacing: 198800

Servicing: C40

Thread 7/16" UNF, OD 11/16"/17.50,

Height 1/4"/6.50, Material Steel,

Lock nut w/o, Washer w/o

**130870** Terminal Kit

Replacing: 54216878

Servicing: C40, 22530D, 22700L, 22700R,  
22703K, 22703M, 22704L, 22704Q, 22705F,  
22705L, 22713J, 22713L, 22715E**132948** Tacho Gear

Replacing: 54215749, 54217725

Servicing: C40T, 22756, 22755A, 22755H,  
22756A, 22756H**133632** Terminal Kit

Replacing: 1107011515

Servicing: 0101206009, 0101206011,  
0101206012, 0101206024, 0101206029,  
0101206035, 0101206037, 0101206043**Bushings**

Pkg. 10

**140005** Bushing

Replacing: 1100301003

Servicing: 0101206024, 0101206035,  
0101206037, 0101206058, 0101206068,  
0101206070, 0101206075, 0101206076ID 15.10, OD 22.04, Length 12.70,  
Type Standard, Material Copper, Pin w/o

Pkg. 10

**140062** Bushing

Replacing: 227713, 227818

Servicing: C40, C40A, 22700L, 22700R,  
22703K, 22703M, 22704L, 22704Q, 22705F,  
22705L, 22713J, 22713L, 22715E, 22715KID 15.11, OD 18.20, Length 22.20,  
Type Standard, Material Copper, Pin w/o  
Alternative no.: B140062

Pkg. 10

**140068** Bushing

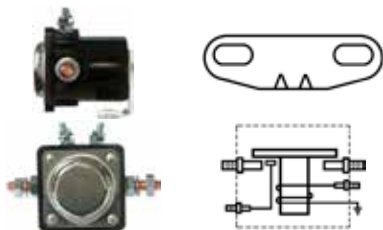
Replacing: 87880, 047403

ID 17.05, OD 21.05, Length 20.00,  
Type Standard, Material Copper, Pin w/o



## Solenoids

12 V



### 130493 Solenoid

Replacing: 2098360, 3225629, B6AZ11450A, BD7T11450A, BD7T11450T, C7AF11450A, D2DZ11450A, D9AZ11450A, SW03, 15-407, SAS-4211Y, F903

12 Volt, Intermittent load 150 Amp., B+ 5/16" UNF, OD 42.30, Total length 62.30, Height/B+ 15.00, Terminal 15A/width 12.75, Terminal 50 10-32 UNF, Coil bolt 5/16" UNF, Coil bolt 2 15.00, No./mount. holes 2, No./terminals 4



### 131080 Solenoid

Replacing: 19024764

12 Volt, 50 Amp, Intermittent load 500 Amp., B+ M8, OD 39.70, Total length 86.40, Height/B+ 12.25, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 12.25, Seconds 5, No./terminals 3



### 131253 Solenoid

Replacing: 19024762

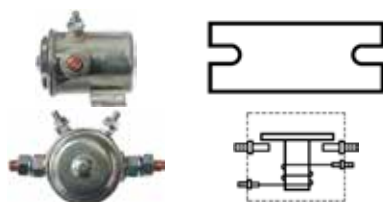
12 Volt, 60 Amp, Intermittent load 500 Amp., B+ M8, OD 39.65, Total length 85.75, Height/B+ 11.85, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 11.85, Seconds 5, No./terminals 4



### 131370 Solenoid

Replacing: 0333006004, 1986SE3741, 11.250.121, 11.250.142, ARD1133, 19024758  
Servicing: 0001108078, 0001108079, 0333006004

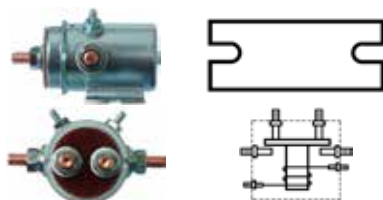
12 Volt, 80 Amp, Intermittent load 500 Amp., B+ M8, OD 52.10, OD/cover 45.20, Total length 101.75, Height/B+ 17.50, Terminal 50 6.30, Coil bolt M8, Coil bolt 2 17.50, Seconds 5, No./terminals 4  
Water proof. Silver contact. Insulated return.



### 132939 Solenoid

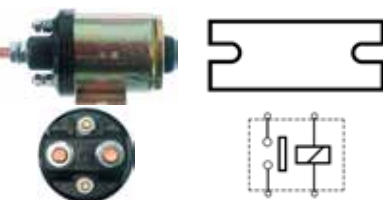
Replacing: 3740013

12 Volt, 80 Amp, Intermittent load 150 Amp., B+ M8-5/16", OD 41.85, Total length 64.50, Height/B+ 20.65, Terminal 50 M5-3/16", Coil bolt M8-5/16", Coil bolt 2 20.65, Seconds 5, No./mount. holes 2, No./terminals 4  
Insulated. Delivered with nuts



### 133616 Solenoid

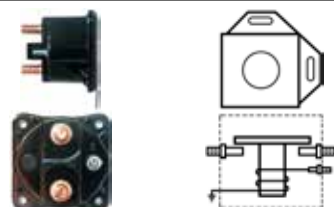
12 Volt, 80 Amp, Intermittent load 150 Amp., B+ M8, OD 41.85, Total length 89.65, Height/B+ 18.00, Terminal 15A/width 11.45, Terminal 50 M5, Coil bolt M8, Coil bolt 2 10.00, Seconds 5, No./mount. holes 2  
Insulated return. Silver contact.



### 133695 Solenoid

Replacing: 099845, CEY113

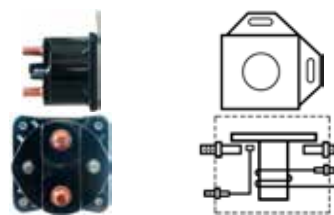
12 Volt, 100 Amp, Intermittent load 500 Amp., B+ M8, OD 47.70, OD/cover 52.35, Total length 105.55, Height/B+ 18.85, Terminal 15A/width 13.90, Terminal 50 M5, Coil bolt M8, Coil bolt 2 19.35, Seconds 5, No./mount. holes 2, No./terminals 4  
Universal.



### 133855 Solenoid

Replacing: 15-283, 15-298, 15-335, 15-365, 15-393, 15-471, 15-472, SAZ-4201AC, SAZ-4201AJ, SAZ-4201ANY

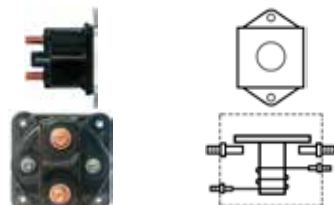
12 Volt, 100 Amp, Intermittent load 800 Amp., B+ M8, OD/cover 48.95, Height/B+ 14.25, Total length 54.30, Terminal 50 M5, Coil bolt M8, Coil bolt 2 14.10, No./mount. holes 2, No./terminals 3  
3.95-4.15 coil resistance.



### 133856 Solenoid

Replacing: 15-394, 15-3F, 15-411, 15-420, 15-444, 15-486, SAZ-4201BBY, SAZ-4201BU, SAZ-4201BW, SAZ-4201CJ, SW1162

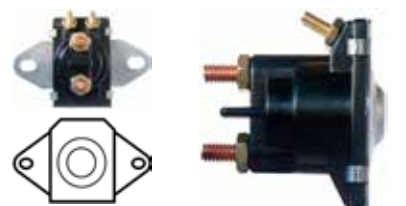
12 Volt, 100 Amp, Intermittent load 800 Amp., B+ M8, OD/cover 49.25, Total length 54.75, Height/B+ 14.20, Terminal 15A/width 9.85, Terminal 50 M5, Coil bolt M8, Coil bolt 2 14.20, No./terminals 4  
3.95-4.15 coil resistance.



### 133857 Solenoid

Replacing: 15-275, 15-351, 15-368, 15-400, 15-487, SAZ-4201AHY, SAZ-4201AP, SAZ-4201BC, SAZ-4201EY, SAZ-4201U

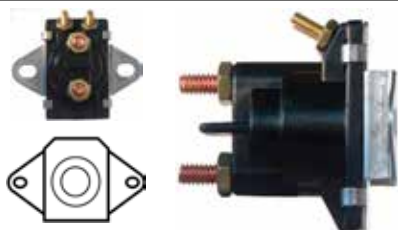
12 Volt, 100 Amp, Intermittent load 800 Amp., B+ M8, OD/cover 54.75, Height/B+ 14.45, Total length 55.50, Terminal 50 M5, Coil bolt M8, Coil bolt 2 14.30, No./mount. holes 2, No./terminals 4  
3.95-4.15 coil resistance.



### 139856 Solenoid

12 Volt, B+ M8, OD 56.00, Total length 55.80, Height/B+ 10.55, Terminal 15A/width 9.20, Terminal 50 M4, Coil bolt M8, Coil bolt 2 10.40, No./mount. holes 2, No./terminals 4





### 139857 Solenoid

12 Volt, B+ M8, OD 55.90,  
Total length 55.45, Height/B+ 10.70,  
Terminal 15A/width 9.65,  
Terminal 50 M4, Coil bolt M8,  
Coil bolt 2 10.65, No./mount. holes 2,  
No./terminals 4



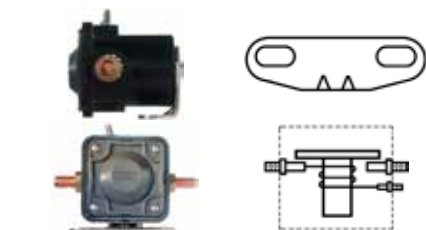
### 139858 Solenoid

Replacing: 1658883, 2095606, 15-288, 15-5C, 15-66, SAZ4201J, 1114206, 1114537  
12 Volt, 100 Amp, Intermittent load 600 Amp.,  
B+ M8, OD 41.90, Total length 63.45,  
Height/B+ 18.75, Terminal 50 M5,  
Coil bolt M8, Coil bolt 2 18.55,  
No./mount. holes 2, No./terminals 4  
*Insulated return.*



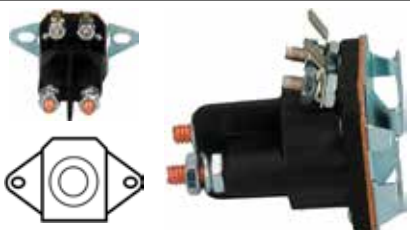
### 139859 Solenoid

12 Volt, B+ M8, OD 53.85,  
Total length 64.00, Height/B+ 12.30,  
Terminal 15A/width 8.25,  
Terminal 50 M5, Coil bolt M8,  
Coil bolt 2 12.15, No./terminals 4



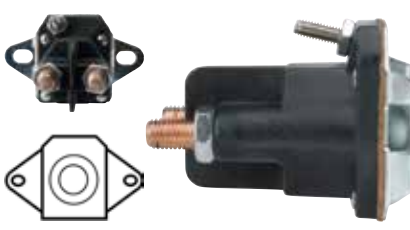
### 139860 Solenoid

12 Volt, OD 54.00, Total length 64.20,  
Height/B+ 13.25, Terminal 50 M5,  
Coil bolt 2 13.55, No./mount. holes 2,  
No./terminals 3



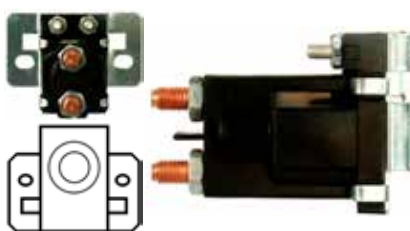
### 231525 Solenoid

12 Volt, 80 Amp, B+ 1/4"-20,  
Total length 66.45, Height/B+ 18.00,  
Terminal 50 10-32 UNF, Coil bolt 1/4"-20,  
Coil bolt 2 18.00, No./mount. holes 2,  
No./terminals 4  
*Insulated return.*



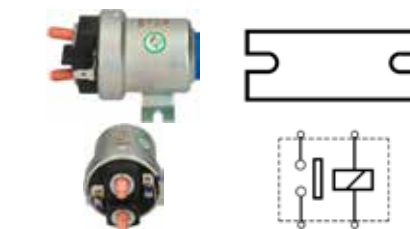
### 231526 Solenoid

12 Volt, 80 Amp, B+ 5/16"-24, OD 55.85,  
Total length 65.15, Height/B+ 9.50,  
Terminal 50 M4, Coil bolt 5/16"-24,  
Coil bolt 2 9.50, No./mount. holes 2,  
No./terminals 3  
*Relay w/ 1/4" B+: HC-CARGO 234070.*



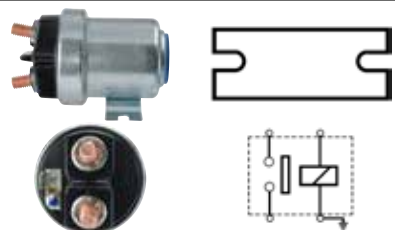
### 231527 Solenoid

12 Volt, 80 Amp, B+ 5/16"-24, OD 54.20,  
Total length 77.65, Height/B+ 11.55,  
Terminal 15A/width 7.00,  
Terminal 50 M5, Coil bolt 5/16"-24,  
Coil bolt 2 11.45, No./mount. holes 2,  
No./terminals 4



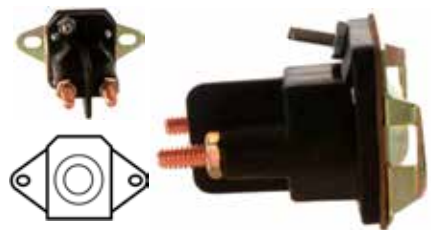
### 231807 Solenoid

12 Volt, 200 Amp, Intermittent load 800 Amp.,  
B+ M8, OD 45.00, OD/cover 47.55,  
Total length 105.00, Height/B+ 11.85,  
Terminal 15A/width 11.30,  
Terminal 50 6.30, Coil bolt M8,  
Coil bolt 2 11.90, Seconds 5,  
No./mount. holes 2, No./terminals 4



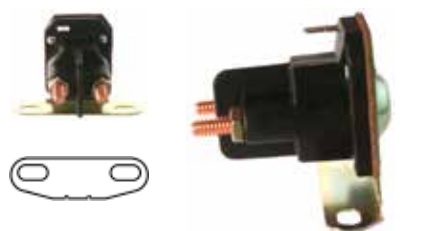
### 231809 Solenoid

12 Volt, 200 Amp, Intermittent load 800 Amp.,  
B+ M8, OD 45.00, OD/cover 47.30,  
Total length 104.65, Height/B+ 11.20,  
Terminal 50 6.30, Coil bolt M8,  
Coil bolt 2 11.50, Seconds 5,  
No./mount. holes 2, No./terminals 3



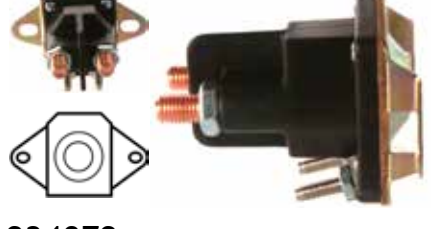
### 234070 Solenoid

12 Volt, 80 Amp, B+ 1/4"-20,  
Total length 66.40, Height/B+ 17.00,  
Terminal 50 M5, Coil bolt 1/4"-20,  
Coil bolt 2 17.00, No./mount. holes 2,  
No./terminals 3  
*Relay w/ 5/16" B+: HC-CARGO 231526.*



### 234071 Solenoid

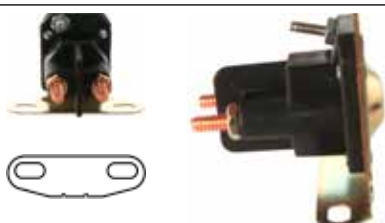
12 Volt, 80 Amp, B+ 5/16"-24,  
Total length 64.25, Height/B+ 16.70,  
Terminal 50 6.30, Coil bolt 5/16"-24,  
Coil bolt 2 16.70, No./mount. holes 2,  
No./terminals 3



### 234072 Solenoid

12 Volt, 80 Amp, B+ 5/16"-24,  
Total length 66.50, Height/B+ 16.90,  
Terminal 15A/width 15.30,  
Terminal 50 M5, Coil bolt 5/16"-24,  
Coil bolt 2 16.90, No./mount. holes 2,  
No./terminals 4  
*Insulated return.*





**234073** Solenoid  
12 Volt, 80 Amp, B+ 1/4"-20,  
Total length 64.15, Height/B+ 16.85,  
Terminal 50 M5, Coil bolt 1/4"-20,  
Coil bolt 2 16.85, No./mount. holes 2,  
No./terminals 3



**234860** Solenoid  
Servicing: HONDA MC  
12 Volt, OD 34.00, Total length 43.00  
15 A fuse.



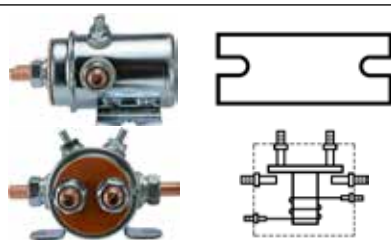
**235442** Solenoid  
Replacing: 1114208, 1114218  
12 Volt, 150 Amp, Intermittent load 300 Amp.,  
B+ M8, OD 41.04, Total length 65.86,  
Height/B+ 14.45, Seconds 5,  
No./mount. holes 2, No./terminals 4  
Silver contact. Insulated return.



**235595** Solenoid  
12 Volt, OD 34.00, Total length 43.00  
15 A fuse.



**235596** Solenoid  
12 Volt, B+ M6, OD 34.00,  
Total length 43.00, Coil bolt M6  
20 A fuses.



**333004** Solenoid  
12 Volt, 150 Amp, Intermittent load 300 Amp.,  
Total length 79.60, No./mount. holes 2  
Coil resistance 8.5 Ohms. N.C. contact:  
60/60 A.



**333006** Solenoid  
12 Volt, Intermittent load 120 Amp.,  
OD 31.00, Total length 65.00,  
No./mount. holes 2, No./terminals 4,  
Fork lever w/o

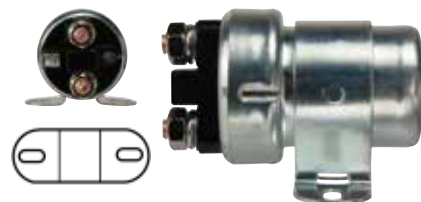


**333012** Solenoid  
12 Volt, 150 Amp, Intermittent load 300 Amp.,  
Total length 88.20, No./mount. holes 2,  
No./terminals 5  
Coil resistance 8.5 Ohms. N.C. contact: 60/60 A.



**333153** Solenoid  
Manufacturer: Bosch  
Replacing: 0333009004, 1986SE3744, 19024761  
12 Volt, 150 Amp, Intermittent load 800 Amp.,  
B+ M8, OD 51.75, OD/cover 44.00,  
Total length 100.15, Height/B+ 17.75,  
Coil bolt M8, Coil bolt 2 17.75,  
Seconds 5, No./mount. holes 2,  
No./terminals 4  
Silver contact. Insulated return.  
Alternative no.: 131373z

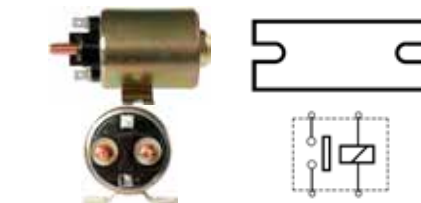
24 V



**130492** Solenoid  
Replacing: 19024765  
24 Volt, 50 Amp, Intermittent load 500 Amp.,  
B+ M8, OD 40.00,  
Total length 85.00, Height/B+ 11.30,  
Terminal 50 6.30, Coil bolt M8,  
Coil bolt 2 11.30, Seconds 5,  
No./mount. holes 2, No./terminals 3



**131254** Solenoid  
Replacing: 19024763  
24 Volt, 50 Amp, Intermittent load 500 Amp.,  
B+ M8, OD 39.70, Total length 86.30,  
Height/B+ 11.80, Terminal 50 6.30,  
Coil bolt M8, Coil bolt 2 11.80,  
Seconds 5, No./terminals 4

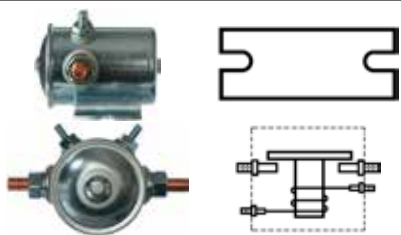


**131371** Solenoid  
Replacing: 0333006002, 0333006006,  
1986SE3742, 19024759  
Servicing: 0333006006  
24 Volt, 80 Amp, Intermittent load 500 Amp.,  
B+ M8, OD 51.70, OD/cover 43.45,  
Total length 99.60, Height/B+ 17.35,  
Coil bolt M8, Coil bolt 2 17.35, Seconds 5,  
No./mount. holes 2, No./terminals 4  
Silver contact. Insulated return.



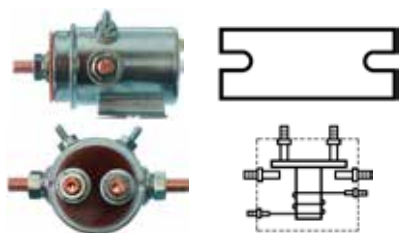
**131372Z** Solenoid  
Replacing: 0333009002, 0333009013, 1986SE3743  
24 Volt, 150 Amp, Intermittent load 800 Amp.,  
B+ M8, OD 45.00, OD/cover 54.80,  
Total length 98.70, Height/B+ 15.00,  
Terminal 50 6.30, Coil bolt M8,  
Seconds 5, No./terminals 4  
Alternative no.: 333152





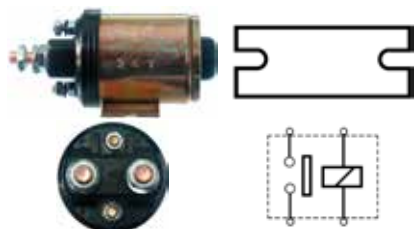
### 132940 Solenoid

24 Volt, 60 Amp, Intermittent load 100 Amp., B+ 5/16-24, OD 42.00, Total length 66.35, Height/B+ 20.40, Terminal 15A/width 12.50, Terminal 50 M5, Coil bolt 5/16-24, Coil bolt 2 20.40, Seconds 5, No./mount. holes 2, No./terminals 4 Insulated.



### 133617 Solenoid

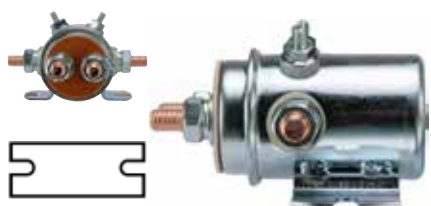
24 Volt, 50 Amp, Intermittent load 50 Amp., B+ M8, OD 41.70, Total length 88.85, Height/B+ 17.30, Terminal 15A/width 10.75, Terminal 50 M5, Coil bolt M8, Coil bolt 2 17.30, Seconds 5, No./mount. holes 2 Insulated return.



### 133697 Solenoid

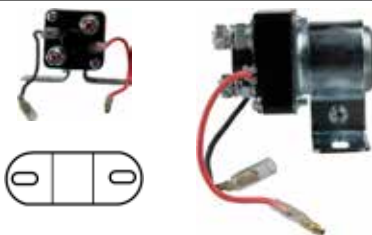
Replacing: 098932, CEZ113

24 Volt, 100 Amp, Intermittent load 500 Amp., B+ M8, OD 47.65, OD/cover 52.35, Total length 106.25, Height/B+ 19.00, Terminal 15A/width 13.85, Terminal 50 M5, Coil bolt M8, Coil bolt 2 19.00, Seconds 5, No./mount. holes 2, No./terminals 4 Universal.



### 333005 Solenoid

24 Volt, 75 Amp, Intermittent load 150 Amp., Total length 79.60, No./mount. holes 2 Coil resistance 16 Ohms. N.C. contact: 60/60 A.



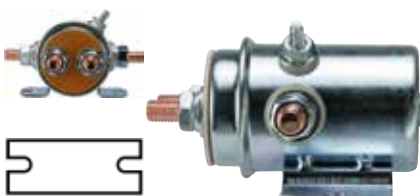
### 333007 Solenoid

24 Volt, OD 67.60, Total length 65.00, No./terminals 4



### 333013 Solenoid

24 Volt, Intermittent load 1000 Amp., B+ M8, OD 90.00, Total length 133.00, No./mount. holes 2, No./terminals 4



### 333015# Solenoid

24 Volt, 50 Amp, Intermittent load 50 Amp., Total length 86.70, No./mount. holes 2, No./terminals 5 Coil resistance 60 Ohms. N.C. contact: 30/30 A.



### 333152 Solenoid

Manufacturer: Bosch

Replacing: 0333006012, 0333009002, 0333009013, 1986SE3743, 19024760

24 Volt, 150 Amp, Intermittent load 800 Amp., B+ M8, OD 51.50, OD/cover 43.55, Total length 100.55, Height/B+ 17.85, Coil bolt M8, Coil bolt 2 17.85, Seconds 5, No./mount. holes 2, No./terminals 4 Silver contact. Insulated return. Alternative no.: 131372Z



### 333531 Solenoid

Manufacturer: Bosch

Replacing: 0333009011, 1986SE3747

24 Volt, 150 Amp, B+ M8, OD 50.00, Total length 100.00, Height/B+ 15.00, Terminal 15A/width 60.00, Terminal 50 6.30, No./mount. holes 2, No./terminals 4

### 36 V



### 235647 Solenoid

Replacing: 1636581

36 Volt, 60 Amp, Intermittent load 150 Amp., OD 42.00, Total length 66.50, Seconds 5, No./mount. holes 2, No./terminals 4 Insulated return.

### Sundry Parts

#### Various

Pkg. 10



### 132581 Insulator

Replacing: 343871, 42-3301

ID 5.00, OD 14.00, OD/collar 9.00, Height/collar 2.65, Thickness 1.55, Material Plastic, Bushing w/o

Pkg. 10



### 133370 Terminal Lead

Servicing: M8

ID 8.45, Length 23.10, Lead length 107.55, Width 14.00



Pkg. 10



**133371** Terminal Lead  
Servicing: M8  
ID 8.45, Length 23.15,  
Lead length 106.45, Width 14.10

Pkg. 10



**133372** Terminal Lead  
ID 8.45, Length 23.40,  
Lead length 106.75, Width 14.10  
M8.

Pkg. 10



**133390** Terminal Lead  
Servicing: M8  
ID 8.50, Length 26.45,  
Lead length 60.00, Width 14.65

Pkg. 10



**133505** Terminal Lead  
ID 8.40, Length 26.45,  
Lead length 39.50, Width 14.75  
M8.

Pkg. 10



**133506** Terminal Lead  
ID 8.50, Length 26.55,  
Lead length 52.65, Width 14.65  
M8.

Pkg. 10



**134064** Terminal Lead  
ID 8.40, Length 26.30,  
Lead length 53.00, Width 14.65  
M8.

Pkg. 10



**134921** Terminal Lead  
ID 10.35, Length 26.35,  
Lead length 68.20, Width 14.65  
M10.

Pkg. 10



**136766** Terminal Lead  
ID 8.45, Length 26.45,  
Lead length 67.25, Width 14.65  
M8.



**140398** Brush Leader  
Length 1000.00, Thickness 2.50



**140399** Brush Leader  
Length 1000.00, Thickness 6.00



**140400** Brush Leader  
Length 1000.00, Thickness 10.00



**140704** Brush Leader  
Length 1000.00, Thickness 16.00

Pkg. 500



**190360** Tapping Screw  
Replacing: 190333  
Dim. 3.5x9.5, Head type Pan head,  
Material Electro galvanized, Type no. 6,  
DIN norm 7981C, ISO norm 7049

Pkg. 200



**190361** Tapping Screw  
Dim. 3.5x16, Head type Pan head,  
Material Electro galvanized, Type no. 6,  
DIN norm 7981C, ISO norm 7049

Pkg. 200



**190362** Tapping Screw  
Dim. 3.5x19, Head type Pan head,  
Material Electro galvanized, Type no. 6,  
DIN norm 7981C, ISO norm 7049

Pkg. 200



**190366** Tapping Screw  
Replacing: 190339  
Dim. 4.2x9.5, Head type Pan head,  
Material Electro galvanized, Type no. 8,  
DIN norm 7981C, ISO norm 7049





Pkg. 200

### 190367 Tapping Screw

Replacing: F00M390002

Servicing: 0120000003, 0120000004, 0120000005, 0120000006, 0120000007, 0120000008, 0120000014, 0120000024

Dim. 4.2x16, Head type Pan head, Material Electro galvanized, Type no. 8, DIN norm 7981C, ISO norm 7049



Pkg. 200

### 190368 Tapping Screw

Replacing: 190341

Servicing: 63320124, 63320137, 63321424, 63321458, 63321492, 63321503, 99457074

Dim. 4.2x19, Head type Pan head, Material Electro galvanized, Type no. 8, DIN norm 7981C, ISO norm 7049



Pkg. 200

### 190371 Tapping Screw

Dim. 4.2x25, Head type Pan head, Material Electro galvanized, Type no. 8, DIN norm 7981C, ISO norm 7049



Pkg. 200

### 190372 Tapping Screw

Dim. 4.8x13, Head type Pan head, Material Electro galvanized, Type no. 10, DIN norm 7981C, ISO norm 7049



Pkg. 200

### 190373 Tapping Screw

Dim. 4.8x19, Head type Pan head, Material Electro galvanized, Type no. 10, DIN norm 7981C, ISO norm 7049



Pkg. 200

### 190469 Hex Screw

Servicing: 2541968B, 2542312, 2542312A, 46231650, SG15S010, 19024280

Thread M5, Spanner size 8.00, Length 16.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017



Pkg. 200

### 190470 Hex Screw

Replacing: A00715X05271, A715X01871, A715X05271

Servicing: A001T32084, A001T33076, A001T33576, A001T70676, A001T71076, A001T71176, A001T71276, A002T01384

Thread M5, Spanner size 8.00, Length 20.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017



Pkg. 200

### 190474 Hex Screw

Replacing: 1003450008, 949044-4270, 949047-3410

Servicing: 0001218123, 0001218137, 0001312101, 0001312103, 0001314005, 0001314028, 0001314029, 0001314030, 100211-1511, 100211-1511, 100211-1512, 100211-1512, 100211-1520, 100211-1520, 100211-1540

Thread M5, Spanner size 8.00, Length 40.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017



Pkg. 200

### 190477 Hex Screw

Servicing: 0001416079, 0051516401, 0061511501, 0061516901, 0061517001, 0124225053, 0124225054, 047200-8545

Thread M6, Spanner size 10.00, Length 16.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017



Pkg. 200

### 190478 Hex Screw

Replacing: 1333412001, 1333450021

Servicing: 0001115088, 0001125501, 0001125502, 0001125511, 0001125512, 0001139408, 0001147400, 0001147404, GR45/10, GR45/13, GR45/14, GR45/15, GR45/16, GR45/17, GR45/18, GR45/19, GR45/2, GR45/3, GR45/5

Thread M6, Spanner size 10.00, Length 20.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017



Pkg. 200

### 190479 Hex Screw

Replacing: 949047-1961

Servicing: 021000-0013, 021000-0041, 021000-0720, 021000-0740, 021000-0890, 021000-1480, 021000-1640

Thread M6, Spanner size 10.00, Length 25.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017



Pkg. 200

### 190480 Hex Screw

Replacing: 2114-5866, 7120632

Servicing: S108-85, S108-86, S108-91, S114-146, S114-160F, S114-161F, S114-162D, S114-164, S114-170E

Thread M6, Spanner size 10.00, Length 30.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017



Pkg. 200

### 190482 Hex Screw

Replacing: 2114-2867, 2114-5867, 2240-1801

Servicing: S114-256B, S114-257G, S114-257H, S114-338, S114-338A, S114-339A, S114-339C, S114-339D, S114-342

Thread M6, Spanner size 10.00, Length 40.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017



Pkg. 200



### 190492 Hex Screw

Replacing: 2911051237

Servicing: 0001410015, 0001410016, 0001410024, 0001410029, 0001410041, 0001410044, 0001410046, 0001410053, 047200-2920, 047200-3523, 047200-4033, 047200-6480, 047200-7030, 047200-7480, 047200-7501

Thread M8, Spanner size 13.00, Length 16.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017

Pkg. 200



### 190493 Hex Screw

Replacing: 85-1402

Thread M8, Spanner size 13.00, Length 20.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017

Pkg. 200



### 190494 Hex Screw

Servicing: 873F10300AAA

Thread M8, Spanner size 13.00, Length 25.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017

Pkg. 200



### 190495 Hex Screw

Servicing: 26025007A, 26925196A, 26925196B, 3819359M91, 3930504R1, 864F10K359AB, 864F10K359AF, 864F10K359F

Thread M8, Spanner size 13.00, Length 30.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017

Pkg. 200



### 190500 Hex Screw

Thread M8, Spanner size 13.00, Length 60.00, Coating Electro galvanized, Material Steel, DIN norm 931, ISO norm 4014

Pkg. 200



### 190506 Hex Screw

Replacing: 2916680035

Servicing: 9000143000, 9000143001, 9000143002, 9000143100, 9000143101, 9000143103, 9000143104, 9000143105

Thread M10, Spanner size 17.00, Length 30.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017

Pkg. 200



### 190508 Hex Screw

Servicing: 0K55218400A, 0K55218400

Thread M10, Spanner size 17.00, Length 40.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017

Pkg. 100



### 190510 Hex Screw

Replacing: 2003450040, 2911061301

Servicing: 0001410015, 0001410016, 0001410017, 0001410018, 0001410026, 0001410029, 0001410032, 0001410033

Thread M10x50, Spanner size 17.00, Length 50.00, Coating Electro galvanized, Material Steel, DIN norm 931, ISO norm 4014

Pkg. 200



### 190520 Hex Nut

Replacing: NU11-1T1

Thread M3, Spanner size 5.5, Coating Electro galvanized, Material Steel, DIN norm 934

Pkg. 200



### 190521 Hex Nut

Replacing: 2915010405

Servicing: 0120469559, 0120469566, 0120469659, 0120469660, 0120469713, 0120469754, 0120469891, 0120469899

Thread M4, Spanner size 7, Coating Electro galvanized, Material Steel, DIN norm 934

Pkg. 200



### 190524 Self-locking Hex Nut

Servicing: 0986034450, 36100-23150, 7700113627, 7711134297, 8200143045, D6RA105, D6RA107, D6RA110, D6RA115

Thread M5, Spanner size 8, Coating Electro galvanized, Material Steel, DIN norm 985-6 Self-locking w/ nylon ring.

Pkg. 200



### 190525 Self-locking Hex Nut

Servicing: 4052100

Thread M6, Spanner size 10, Coating Electro galvanized, Material Steel, DIN norm 985-6 Self-locking w/ nylon ring.





Pkg. 200

### 190527 Self-locking Hex Nut

Replacing: 2915061005

Servicing: 0001359031, 0001359035, 0001359050, 0001359051, 0001359054, 0001359059, 0001360023, 0001360052, YR8H19G405BA

Thread M8, Spanner size 13,  
Coating Electro galvanized,  
Material Steel, DIN norm 985-6  
Self-locking w/ nylon ring.



Pkg. 200

### 190528 Self-locking Hex Nut

Thread M10, Spanner size 17,  
Coating Electro galvanized,  
Material Steel, DIN norm 985-6  
Self-locking w/ nylon ring.



Pkg. 200

### 190531 Machine Screw

Thread M3, Length 10.00,  
Head type Pan head, Coating Electro  
galvanized, Material Steel,  
DIN norm 7985, ISO norm 7045



Pkg. 200

### 190536 Machine Screw

Replacing: 1003429008

Servicing: 0001106407, 0001106409, 0001106410, 0001107003, 0001107004, 0001107007, 0001107008, 0001107020, 028000-0197, 028000-1010, 028000-1011, 028000-1850, 028000-1970, 028000-1971, 028000-1972

Thread M4, Length 10.00,  
Head type Pan head, Coating Electro  
galvanized, Material Steel,  
DIN norm 7985, ISO norm 7045



Pkg. 200

### 190537 Machine Screw

Replacing: 949007-2590

Servicing: 028000-4050, 028000-4650, 028000-4651, 028000-4680, 028000-4681, 028000-4710, 028000-5334

Thread M4, Length 12.00,  
Head type Pan head, Coating Electro  
galvanized, Material Steel,  
DIN norm 7985, ISO norm 7045



Pkg. 200

### 190537 Machine Screw

Replacing: 2114-2835, 2114-3835

Servicing: S114-172E, S114-182G, S114-184, S114-225, S114-228, S114-229F, S114-230, S114-230A, S114-233A

Thread M4, Length 12.00,  
Head type Pan head, Coating Electro  
galvanized, Material Steel,  
DIN norm 7985, ISO norm 7045



Pkg. 200

### 190538 Machine Screw

Replacing: 2910012126

Servicing: 0120400722, 0120400723, 0120400771, 0120400772, 0120488178, 0120488179, 0120488180, 0120488242, 100210-3070, 100210-3190, 100210-3210, 100210-3380, 100210-3381, 100210-3410, 100210-3470

Thread M4, Length 16.00,  
Head type Pan head,  
Coating Electro galvanized,  
Material Steel, DIN norm 7985,  
ISO norm 7045



Pkg. 200

### 190539 Machine Screw

Replacing: 2910012130

Servicing: 0001121018, 0001121019, 0001121024, 0001121025, 0120488178, 0120488179, 0120488180, 0120689519, 100211-1520, 100211-1560, 100211-1570, 100211-1571, 100211-1620, 100211-4111, 100211-4112

Thread M4, Length 20.00,  
Head type Pan head,  
Coating Electro galvanized,  
Material Steel, DIN norm 7985,  
ISO norm 7045



Pkg. 200

### 190540 Machine Screw

Replacing: 2910012132

Servicing: 0001367017, 0120300568, 0120300569, 0120468007, 0120468008, 0120468057, 0120468058, 0120468059, 100211-1410, 100211-1411, 100211-4350, 100211-4351, 100211-5250, 100211-6420, 100211-6492

Thread M4, Length 25.00,  
Head type Pan head,  
Coating Electro galvanized,  
Material Steel, DIN norm 7985,  
ISO norm 7045



Pkg. 200

### 190541 Machine Screw

Servicing: 0986033090, 0986034430, 11.201.463, 1274480, 219235, 36100-03100, 4172113, 523161, 96289030

Thread M4, Length 30.00,  
Head type Pan head,  
Coating Electro galvanized,  
Material Steel, DIN norm 7985,  
ISO norm 7045



Pkg. 200



### 190542 Machine Screw

Replacing: 2910042138

Servicing: 0122469001, 0122469002, 0122469003, 0122469004, 0122469005

Thread M4, Length 40.00,

Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045

Pkg. 500



### 190544 Machine Screw

Replacing: 2912452152

Servicing: 0001231002, 0001231032, 0001231033, 0001231040, 0001231133, 0001241001, 0001241003, 0001241007

Thread M5, Length 10.00,

Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045

Pkg. 200



### 190545 Machine Screw

Replacing: 2003412001, 2910012154, 2911121152, 2912772152

Servicing: 0001230001, 0001230004, 0001230027, 0001231002, 0001231016, 0001231034, 0001231035, 0001231036

Thread M5, Length 12.00,

Head type Cheese head, Coating Electro galvanized, Material Steel, DIN norm 84A, ISO norm 1207

Pkg. 200



### 190546 Machine Screw

Replacing: 2910011157, 2910021157, 2911421158

Servicing: 0001362001, 0001362002, 0001362005, 0001362006, 0001362008, 0001362009, 0001362010, 0001362012

Thread M5, Length 16.00,

Head type Cheese head, Coating Electro galvanized, Material Steel, DIN norm 84A, ISO norm 1207

Pkg. 200



### 190547 Machine Screw

Servicing: 4152101, 4174626, 4474904

Thread M5, Length 20.00,

Head type Cheese head, Coating Electro galvanized, Material Steel, DIN norm 84A, ISO norm 1207

Pkg. 200



### 190549 Machine Screw

Replacing: NS209-14Z1

Servicing: 1320015, 1320023, 1320027, 1320029, 1320510, 1320513, 1320515, 1320F022, 1320F027, 1320F513, 128000-7002, 128000-7122, 128000-7390, 128000-7713, 128000-7714, 128000-8210, 128000-8220

Thread M5, Length 30.00,

Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045

Pkg. 200



### 190550 Machine Screw

Replacing: 2910022170

Servicing: 0120600515, 0120600521, 0120600525, 0120600527, 0120600538, 0120600539, 0120600540, 0120600543

Thread M5, Length 40.00,

Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045

Pkg. 200



### 190551 Machine Screw

Thread M5, Length 50.00,

Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045

Pkg. 200



### 190552 Machine Screw

Replacing: 2910001189, 2910012191, 2912452191

Servicing: 0001231002, 0001231032, 0001241001, 0001241003, 0001241007, 0001241014, 0001241015, 0001241019

Thread M6, Length 10.00,

Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045

Pkg. 200



### 190556 Machine Screw

Servicing: 0001417047, 02121-8025, 02121-8027, 02121-8070, 02121-8071, 02121-8073, 02121-8074, 0K05418300C

Thread M6, Length 25.00,

Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045

Pkg. 200



### 190558 Machine Screw

Replacing: 949006-1830, 949006-4880, 949006-6690, 949007-1970

Servicing: 028000-0197, 028000-0370, 028000-1010, 028000-1011, 028000-1850, 028000-1970, 028000-1971

Thread M6, Length 40.00,

Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045

Pkg. 200



### 190561 Machine Screw

Replacing: 854322

Servicing: A3024/20, A3024/29, A3024/30, A3024/33, A3024/40, A3024/41, A3024/42, A3024/43, A3524/10, A4024/10

Thread M4, Length 20.00,

Head type Flat head, Material Steel, DIN norm 965, ISO norm 7046





Pkg. 200

### 190577 Spring Lock Washer

Replacing: 5936-487

ID 3.10, OD 6.20, Thickness 0.70,  
Thread type Inches, Material Steel spring,  
DIN norm 128A


Pkg. 1000

### 190578 Spring Lock Washer

Replacing: 2916699081

Servicing: 0001305010, 0001316003,  
0001360010, 0001360038, 0001612004,  
0001613001, 0120400704, 0120400705

ID 4.11, OD 7.20, Thickness 0.85,  
Type Spring lock washer, Material Steel  
spring, DIN norm 128A


Pkg. 1000

### 190579 Spring Lock Washer

Replacing: 2916690004, 2916699082,  
2918740004, 2918750111, 5244-22

Servicing: 0001107100, 0001107101,  
0001107108, 0001116008, 0001138003,  
0001138005, 0001208038, 0001208039,  
BS612L-2, BS612L-40, BS612L-77, BS612L-  
M15, BS612L-M21, BS612L-M41, BS612L-M67,  
BS612L-M87

ID 5.40, OD 9.20, Thickness 1.00,  
Thread type Inches, Material Steel spring,  
DIN norm 128A


Pkg. 200

### 190580 Spring Lock Washer

Replacing: 2916690005, 2916699083,  
2918740005, 2918750112, 5001-10, 5001-48,  
90258-06001, 902580-6001

Servicing: 0001107049, 0001107064,  
0001108123, 0001108160, 0001139408,  
0001147400, 0001147404, 0001157021, 021000-  
4580, 021000-4900, 021000-5310, 021000-5380,  
021000-6832, 021000-7310, 021000-8610, SLW524-  
1, SLW524-2, SLW524-3, SLW5A24-1, SLW5A24-2,  
SLW5A24-3, S115A12-1, S115A12-10, S115A12-12

ID 6.10, OD 11.80, Thickness 1.30,  
Thread type Inches, Material Steel spring,  
DIN norm 128A


Pkg. 1000

### 190582 Spring Lock Washer

Replacing: 2916060013, 2916063013,  
2916691007, 2916693007, 2916699085,  
2918740007, 5001-31, 5001-53, 5001-74,  
5936-102

Servicing: 00010DB98E, 0001105205,  
0001106001, 0001106002, 0001106004,  
0001106011, 0001106012, BS612L-2,  
BS612L-40, BS612L-77, BS612L-M15, BS612L-  
M21, BS612L-M41, BS612L-M67, BS612L-M87,  
021000-0351, 021000-0814, 021000-2991,  
021000-3040, 021000-3061, 021000-4570,  
021000-5450

ID 8.10, OD 14.80, Thickness 1.60,  
Thread type Inches, Material Steel spring,  
DIN norm 128A


Pkg. 200

### 190583 Spring Lock Washer

Replacing: 2916069086, 2916699086,  
2918740008, 5001-26

Servicing: 0001223500, 0001223501,  
0001223502, 0001223503, 0001223504,  
0001223505, 0001223506, 0001223507,  
1286010, 1286510, 1286560, 1286570,  
BS612L-2, BS612L-40, BS612L-77, BS612L-  
M15, BS612L-M21

12 Volt, ID 10.2, OD 18.1,  
Thickness 1.8, Capacity 1 ml/min.,  
Type Spring lock washer, Quality HD,  
Material Steel spring, DIN norm 128A


Pkg. 200

### 190584 Spring Lock Washer

Replacing: 2918750134, 5001-43

Servicing: 0001231002, 0001241004,  
0001330011, 0001370001, 0001370003,  
0001370004, 0001371001, 0001371010,  
1286010, 1286510, 1286560, 1286570,  
1403010, AC203RA, S115HD24-2, ZGS002,  
ZGS003

ID 12.2, OD 18.1, Thickness 2.1,  
Thread type Inches, Material Steel spring,  
DIN norm 128A


Pkg. 200

### 190588 Flat Washer

Replacing: 2916069081

Servicing: 0001208203, 0001208205,  
0001362103, 0001362325, 0001362326,  
0001362327, 0001362328, 0001362329

ID 4.30, OD 9.50, Thickness 0.80,  
Thread type mm, Coating Electro  
galvanized, Material Steel


Pkg. 200

### 190589 Flat Washer

Replacing: 2916011012

Servicing: 0001106012, 0001106017, 0001106022,  
0001208019, 0001208020, 0001208027,  
0001208028, 0001208030, 101210-0870,  
101210-0871, 101210-0940, 101210-0950,  
101210-0951, 101210-0970, 101210-0971

ID 5.50, OD 12.70, Thickness 1.00,  
Thread type mm, Coating Electro  
galvanized, Material Steel


Pkg. 200

### 190590 Flat Washer

Replacing: 2000500089

Servicing: 0001410109, 0001410113,  
0001417022, 0001417023, 0001417033,  
0001510030, 0001510034, 0001510035

ID 6.80, OD 16.00, Thickness 1.10,  
Thread type mm, Coating Electro  
galvanized, Material Steel


Pkg. 200

### 190592 Flat Washer

Servicing: 04868429AB, 120, 23300-BN700,  
23300-BN701, 23300-BN70A, 2541640,  
2541768, 26025007A, 26925196A

ID 8.40, OD 18.00, Thickness 1.25,  
Thread type mm, Coating Electro  
galvanized, Material Steel



Pkg. 100



### 190593 Flat Washer

**Replacing:** 2918750132, 5936-495M  
**Servicing:** 0001230001, 0001230027, 0001231002, 0001231014, 0001231034, 0001231035, 0001250003, 0001251003, 1286010, 1286510, 1286560, 1286570, 1327471, 1327A620, AC203RA, S11524-7X, S115A24-23  
**ID** 10.00, **OD** 21.00, **Thickness** 1.25, **Thread type** mm, **Coating** Electro galvanized, **Material** Steel

Pkg. 100



### 190594 Flat Washer

**Replacing:** 2916012020, 5936-495N  
**Servicing:** 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 1286010, 1286510, 1286560, 1286570, AC203RA  
**ID** 13.00, **OD** 24.00, **Thickness** 2.50, **Thread type** mm, **Coating** Electro galvanized, **Material** Steel

Pkg. 200



### 190598 Chamfered Washer

**Replacing:** 2916012014  
**Servicing:** 0001359111, 0001402008, 0001402018, 0001414003, 0001414010, 0001415002, 0001416022, 0001416024  
**ID** 6.40, **OD** 12.00, **Thickness** 1.60, **Thread type** mm, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 125B, **ISO norm** 7090

Pkg. 200



### 190599 Chamfered Washer

**Replacing:** 2916022013  
**Servicing:** 0120469028, 0120469029, 0120469936, 0120469937, 0120469940, 0120689519, 0120689529, 0120689536  
**ID** 8.40, **OD** 16.00, **Thickness** 1.60, **Thread type** mm, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 125B, **ISO norm** 7090

Pkg. 200



### 190603 Flat Washer

**Servicing:** 0986034450, 23100-71J00, 23100-71J10, 24450, 3819359M91, 3930504R1, 86AB10300EA, YLE10067  
**ID** 5.30, **OD** 15.00, **Thickness** 1.20, **Type** Fender washer, **Thread type** mm, **Coating** Electro galvanized, **DIN norm** 9021A, **ISO norm** 7093

Pkg. 200



### 190604 Flat Washer

**ID** 6.40, **OD** 18.00, **Thickness** 1.60, **Type** Fender washer, **Thread type** mm, **Coating** Electro galvanized, **DIN norm** 9021A, **ISO norm** 7093

Pkg. 200



### 190605 Flat Washer

**ID** 8.40, **OD** 24.00, **Thickness** 2.00, **Type** Fender washer, **Thread type** mm, **Coating** Electro galvanized, **DIN norm** 9021A, **ISO norm** 7093

Pkg. 200



### 190608 Serrated Washer

**ID** M6, **Type** Lock washer, **Thread type** Inches, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6798J  
*Internal serrated.*

Pkg. 200



### 190610 Serrated Washer

**ID** M10, **Type** Lock washer, **Thread type** Inches, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6798J  
*Internal serrated.*

Pkg. 200



### 190612 Serrated Washer

**Servicing:** HC-Cargo 192136, 192137  
**ID** M5, **Type** Lock washer, **Thread type** Inches, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6798A  
*Externally serrated.*

Pkg. 200



### 190613 Serrated Washer

**Servicing:** 0986031941  
**ID** M6, **Type** Lock washer, **Thread type** Inches, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6798A  
*Externally serrated.*

Pkg. 200



### 190614 Serrated Washer

**ID** M8, **Type** Lock washer, **Thread type** Inches, **Material** Steel, **DIN norm** 6798A  
*Externally serrated.*

Pkg. 200



### 190616 Serrated Washer

**ID** M4, **Type** Lock washer, **Thread type** Inches, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6798A  
*Externally serrated.*





### 190632 Split Pin

**Servicing:** 2100-3708000, 2101-3708000, 221-3708000, 3101-3708000, 3708000, 46231508, 4807373, 63201000

**OD** 2.00, **Length** 32.00, **Material** Steel, **DIN norm** 94

Pkg. 100



### 190633 Split Pin

**Servicing:** 07640, 46231600, 63217201, 63217225, 63220537, 63221302, 63221303, 63221333, 63221500, 63221530

**OD** 2.00, **Length** 40.00, **Material** Steel, **DIN norm** 94

Pkg. 100



### 190634 Split Pin

**Servicing:** 4198600, 4198601, 46231525, 46231530, 63220701, 63220721, 63220901, 63221300, 63221330, 63221400

**OD** 2.50, **Length** 25.00, **Material** Steel, **DIN norm** 94

Pkg. 100



### 190638 Split Pin

**Servicing:** 0001112024, 46231526, 46231535, 46231550, 63220536, 63220538, 63220704, 63220724, 63220734

**OD** 3.20, **Length** 32.00, **Material** Steel, **DIN norm** 94

Pkg. 100



### 190779 Hex Nut

**Replacing:** 2915010406, 2915012006, NU11-3T1

**Servicing:** 0001106012, 0001106017, 0001106022, 0001108066, 0001108069, 0001108104, 0001108997, 0001108999, S115A12-1, S115A12-10, S115A12-12, S115A12-15M, S115A12-9, S115A24-1, S115A24-11M, S115A24-12

**Thread** M5, **Spanner size** 8, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 934

Pkg. 200



### 190780 Hex Nut

**Replacing:** 2123315000, 2915010007, 2915010407, 2915011007, 2915012007, 251726, 252035

**Servicing:** 0001157006, 0001157015, 0001157023, 0001157025, 0001157026, 0001157027, 0001157028, 0001157029

**Thread** M6, **Spanner size** 10, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 934

Pkg. 200



### 190781 Hex Nut

**Thread** M7, **Spanner size** 11, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 934

Pkg. 200



### 190782 Hex Nut

**Replacing:** 2003300015

**Servicing:** 0001107440, 0001107441, 0001113001, 0001113002, 0001362092, 0001362321, 0001362331, 0001362601, 021000-0351, 021000-0814, 021000-2991, 021000-3040, 021000-3061, 021000-4570, 021000-5450

**Thread** M8, **Spanner size** 13, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 934

Pkg. 200



### 190783 Hex Nut

**Replacing:** 2915010410, 2915051108

**Servicing:** 0001223500, 0001223501, 0001223502, 0001223503, 0001223504, 0001223505, 0001223506, 0001223507

**Thread** M10, **Spanner size** 17, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 934

Pkg. 200



### 190807 Sealing Ring

**ID** 12.00, **OD** 16.00, **Thickness** 1.50, **Type** Alu. ring, **Thread type** mm, **Material** Aluminium, **DIN norm** 7603

Pkg. 100



### 190808 Sealing Ring

**ID** 12.00, **OD** 16.00, **Thickness** 1.50, **Type** Copper ring, **Thread type** mm, **Material** Copper, **DIN norm** 7603

Pkg. 100



### 190809 Sealing Ring

**ID** 12.00, **OD** 18.00, **Thickness** 1.50, **Type** Copper ring, **Thread type** mm, **Material** Copper, **DIN norm** 7603














Pkg. 100



### 190810 Sealing Ring

**ID** 13.00, **OD** 18.00, **Thickness** 1.50, **Type** Copper ring, **Thread type** mm, **Material** Copper, **DIN norm** 7603



 <p><b>190811</b> Sealing Ring ID 14.00, OD 18.00, Thickness 1.50, Type Alu. ring, Thread type mm, Material Aluminium, DIN norm 7603</p>	 <p><b>190816</b> Sealing Ring ID 16.00, OD 20.00, Thickness 1.00, Type Copper ring, Thread type mm, Material Copper, DIN norm 7603</p>	 <p><b>190823</b> Sealing Ring ID 6.00, OD 10.00, Thickness 1.00, Type Copper ring, Thread type mm, Material Copper, DIN norm 7603</p>
 <p><b>190812</b> Sealing Ring ID 14.00, OD 18.00, Thickness 1.50, Type Copper ring, Thread type mm, Material Copper, DIN norm 7603</p>	 <p><b>190817</b> Sealing Ring ID 16.00, OD 20.00, Thickness 1.50, Type Copper ring, Thread type mm, Material Copper, DIN norm 7603</p>	 <p><b>190824</b> Sealing Ring Servicing: 10517C, 44720-09897, 699300, 699800, 6SEU12C, 7SEU16C, 813157, 813657, 8FK351316-141, A0012303211 ID 6.30, OD 12.00, Thickness 1.00, Type Copper ring, Thread type mm, Material Copper, DIN norm 7603</p>
 <p><b>190813</b> Sealing Ring ID 14.00, OD 20.00, Thickness 1.50, Type Alu. ring, Thread type mm, Material Aluminium, DIN norm 7603</p>	 <p><b>190819</b> Sealing Ring ID 18.00, OD 22.00, Thickness 1.50, Type Copper ring, Thread type mm, Material Copper, DIN norm 7603</p>	 <p><b>190826</b> Sealing Ring Replacing: 2916710604 Servicing: 0001362092, 0001362321, 0001362331, 0001362601, 0001363120, 0001363122, 0001363128, 0001363130, 047200-2920, 047200-3523, 047200-4033, 047200-6370, 047200-6480, 047200-7030, 047200-7480 ID 8.20, OD 12.00, Thickness 1.00, Type Copper ring, Thread type mm, Material Copper, DIN norm 7603</p>
 <p><b>190815</b> Sealing Ring Replacing: 081135-0020, 29313-46010 Servicing: 021000-0013, 021000-0041, 021000-0720, 021000-0740, 021000-0890, 021000-1480, 021000-1640, LR160-107, LR225-65, LR160-67, LR160-107B, LR160- 67B, LR160-67C, LR160-67E, LR160-67G, LR160-67H ID 14.00, OD 20.00, Thickness 1.50, Type Copper ring, Thread type mm, Material Copper, DIN norm 7603</p>	 <p><b>190821</b> Sealing Ring ID 20.00, OD 26.00, Thickness 1.50, Type Copper ring, Thread type mm, Material Copper, DIN norm 7603</p>	 <p><b>190828</b> Sealing Ring Servicing: 8600889 ID 8.00, OD 14.00, Thickness 1.00, Type Copper ring, Thread type mm, Material Copper, DIN norm 7603</p>
	 <p><b>190822</b> Sealing Ring ID 22.00, OD 27.00, Thickness 1.50, Type Copper ring, Thread type mm, Material Copper, DIN norm 7603</p>	





### 191265 Flat Washer

**Servicing:** 1204158, 31100-PLZ-D00, 6204140, 6204284, 93175799, 97189113, 97326180, 98VB10300BC, LR1100-502A  
**ID** 17.00, **OD** 34.00, **Thickness** 2.00, **Thread type** mm, **Coating** Electro galvanized, **Material** Steel w/ key slot.

Pkg. 100



### 191266 Machine Screw

**Replacing:** NS200-4T1  
**Thread** M3, **Length** 5.00, **Head type** Pan head, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 7985, **ISO norm** 7045

Pkg. 200



### 191267 Machine Screw

**Replacing:** A414X12771, A414X12871, A414X18271, A414X22871, F00M990166  
**Servicing:** 0120000023, 0120469502, 0120469503, 0120469504, 0120469505, 0120469524, 0120469525, 0120469528, A001T02871, A001T03476, A001T21377, A001T22074, A001T22581, A001T23377, A001T24371, A001T24471  
**Thread** M5, **Length** 60.00, **Head type** Pan head, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 7985, **ISO norm** 7045

Pkg. 200



### 191270 Lock Ring

**Replacing:** 2916560001, 90557-15000  
**Servicing:** 0120400708, 0120400835, 0120469617, 0120469618, 0120469619, 0120469782, 0120469838  
**ID/housing** 13.63, **OD/housing** 17.00, **Thickness** 0.95, **Gap** 0.85, **Material** Steel spring, **Position** External, **DIN norm** 471

Pkg. 100



### 191271 Lock Ring

**Servicing:** 428000-6360, 428000-6760, 428000-4490, 428000-9140, 438000-0494, 428000-3372, 438000-0474  
**OD/housing** 18, **Material** Steel spring, **Position** External, **DIN norm** 471

Pkg. 100



### 191272 Lock Ring

**OD/housing** 20, **Material** Steel spring, **Position** External, **DIN norm** 471

Pkg. 100



### 191273 Lock Ring

**Replacing:** 0505D  
**OD/housing** 21, **Material** Steel spring, **Position** External, **DIN norm** 471

Pkg. 100



### 191274 Lock Ring

**Replacing:** 6211-168, NM1-9  
**Servicing:** CA45012-Y95M, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16, CA45D12-18, CA45D12-1M, CA45D12-2  
**OD/housing** 22, **Material** Steel spring, **Position** External, **DIN norm** 471

Pkg. 100



### 191275 Lock Ring

**OD/housing** 24, **Material** Steel spring, **Position** External, **DIN norm** 471



### 191276 Lock Ring

**Replacing:** 5886-200C  
**OD/housing** 25, **Material** Steel spring, **Position** External, **DIN norm** 471

Pkg. 100



### 191277 Lock Ring

**Servicing:** 0001157001, 0001157002, 0001157003, 0001157004, 0001207001, 0001207005, 0001207016, 0001207017  
**OD/housing** 3.2, **Type** E-clips, **Material** Steel spring, **DIN norm** 6799  
*For shaft.*

Pkg. 100



### 191278 Lock Ring

**Servicing:** D6RA37, D6RA57, M001T72981, M001T72981A, M001T72985, M001T72985A, M001T90281, M002T10171  
**OD/housing** 6, **Type** E-clips, **Material** Steel spring, **DIN norm** 6799  
*For shaft.*

Pkg. 100



### 191279 Lock Ring

**Servicing:** 0001420003, 0001420004, 0001420009, 0001420013, 11.130.346, AZF3531  
**OD/housing** 8, **Type** E-clips, **Material** Steel spring, **DIN norm** 6799  
*For shaft.*

Pkg. 100



Pkg. 100



**191280** Lock Ring  
OD/housing 9, Type E-clips,  
Material Steel spring, DIN norm 6799  
For shaft.

Pkg. 200



**191287** Spring Lock Washer  
Replacing: 54142360  
Servicing: NAB300, NAB301, NAB302,  
NAB303, NAB304, NAB305, NAB306, NAB307,  
NAB900, NAB901, NAB902, NAB903  
ID 14.20, OD 24.10, Thickness 2.40,  
Type Spring lock washer, Material Steel  
spring, DIN norm 128A

Pkg. 200



**191288** Spring Lock Washer  
Replacing: 90258-14001, 949015-0720  
Servicing: 021000-0351, 021000-0430,  
021000-0814, 021000-2840, 021000-2991,  
021000-3040, 021000-3061  
ID 16.20, OD 27.40, Thickness 2.80,  
Type Spring lock washer, Material Steel  
spring, DIN norm 128A

Pkg. 200



**191289** Flat Washer  
ID 4.30, OD 12.00, Thickness 1.00,  
Type Fender washer, Thread type mm,  
Coating Electro galvanized,  
DIN norm 9021A, ISO norm 7093

Pkg. 200



**191290** Flat Washer  
Replacing: 1190100029, 2916011013, 5936-  
482C, NW1-14Z1  
Servicing: 0001218004, 0001218005, 0001218017,  
0001218109, 0001218160, 0001307009,  
0001308100, 0001310006, BS612L-2,  
BS612L-40, BS612L-77, BS612L-M15, BS612L-  
M21, BS612L-M41, BS612L-M67, BS612L-M87  
ID 6.50, OD 13.00, Thickness 1.00,  
Thread type mm, Coating Electro  
galvanized, Material Steel

Pkg. 200



**191291** Flat Washer  
Servicing: 0001416079, 06D911023,  
1250449, 1810A011, 1810A050R, 228000-  
2961, 228000-4980, 228000-4981  
ID 8.40, OD 15.00, Thickness 1.60,  
Type Fender washer, Thread type mm,  
Coating Electro galvanized, DIN norm 433,  
ISO norm 7092

Pkg. 200



**191294** Hex Screw  
Servicing: 063320023000, 46231650,  
46231657, 46231658, 46231659, 46231660,  
4799364, 4808500, 4808502, 63320124  
Thread M6, Spanner size 10.00,  
Length 80.00, Coating Electro galvanized,  
Material Steel, DIN norm 931, ISO norm 4014

Pkg. 200



**191297** Hex Nut  
Servicing: 4052100, 4152101, 4174626,  
4376714, 4474904  
Thread M12-1.25, Spanner size 19,  
Coating Electro galvanized,  
Material Steel, DIN norm 934

Pkg. 200



**191302** Hex Nut  
Servicing: 0051516401, 0061511501,  
0061516901, 0061517001, 0986033841,  
0986033950, 0986042051, 11.203.051  
Thread M5, Spanner size 8,  
Coating Electro galvanized,  
Material Steel, DIN norm 439B,  
ISO norm 4035

Pkg. 500



**191303** Hex Nut  
Replacing: 1123300500, 2915051106,  
2915059106, 2916011007  
Servicing: 0001107032, 0001107049,  
0001107064, 0001108123, 0001108160,  
0001115088, 0001124018, 0001124019  
Thread M6, Spanner size 10,  
Coating Electro galvanized,  
Material Steel, DIN norm 439B,  
ISO norm 4035

Pkg. 200



**191304** Hex Nut  
Replacing: 1000300004, 1003300005,  
2915010409, 2915051107, 2915052107,  
2915059107, 2915059180, F00M990014,  
10471917, 10488150, 10498156  
Servicing: 00010DB98E, 0001105205,  
0001106001, 0001106002, 0001106004,  
0001106011, 0001106012  
Thread M8, Spanner size 13,  
Coating Electro galvanized,  
Material Steel, DIN norm 439B,  
ISO norm 4035





Pkg. 200

### 191305 Hex Nut

**Replacing:** 2915011010, 2915011039, 2915050408, 2915059108, NU11-7T1, 90170-10061, 949056-4480

**Servicing:** 0001109026, 0001223500, 0001223501, 0001223502, 0001223504, 0001223505, 0001223506, 0001230002, 1286010, 1286510, 1286560, 1286570, 1403010, AC203RA, S115HD24-2, ZGS002, ZGS003, 028000-3290, 028000-3291, 028000-3292, 028000-4800, 028000-5300, 028000-5301

**Thread** M10, **Spanner size** 17,  
**Coating** Electro galvanized, **Material** Steel,  
**DIN norm** 439B, **ISO norm** 4035



Pkg. 200

### 191306 Hex Flange Nut

**Servicing:** 0-33000-2200, 0-33000-2280, 0-33000-2281, 0-33000-2290, 0-33000-3450, 0-33000-3500, 0001112024

**Thread** M4, **Spanner size** 7,  
**Coating** Electro galvanized, **Material** Steel  
**Alternative no.:** B191306



Pkg. 200

### 191307 Hex Flange Nut

**Replacing:** 1123314008, 949056-0990, 949056-2480, 949056-2481, 949056-4910, B354-144, L170-2910, 1989649

**Servicing:** CS121, -130, 0001147400, 0001147404, 0120465031, 012046503B, 0120485029, 0120485030, 0120485048, 012048504J, 021000-4110, 021000-4510, 021000-4550, 021000-4730, 021000-5040, 021000-5051, 021000-5380, LR1100-503D, LR1100-507D, LR1100-724C, LR1110-502A, LR1110-502E, LR1110-502I, LR1110-502J, 00219091, 00219099, 10479949, 10480000, 10480073, 1101199, 1101551, 12564089, 8200138, 96109301

**Thread** M5-0.8, **Spanner size** 8,  
**Coating** Electro galvanized, **Material** Steel  
**Alternative no.:** B191307



Pkg. 200

### 191308 Hex Flange Nut

**Replacing:** 2003315012, F00M990150, 6010-177, 949056-0750, 949056-1001, 949056-1130, 949056-3080

**Servicing:** 0001109069, 0001109302, 0001109303, 0001125601, 0001362034, 0001362035, 0001362036, 0001362038, 1321F880, 1321F888, CA45F24-Y88, 021000-4110, 021000-4510, 021000-4550, 021000-5040, 021000-5051, 021000-6271, 021000-6570

**Thread** M6, **Spanner size** 10,  
**Coating** Electro galvanized, **Material** Steel  
**Alternative no.:** B191308



Pkg. 200

### 191317 Machine Screw

**Servicing:** 04868429AB, 101210-0162, 101210-1090, 101210-1390, 101210-1391, 102211-8642, 104210-2750

**Thread** M4, **Length** 14.00,  
**Head type** Pan head,  
**Coating** Electro galvanized,  
**Material** Steel, **DIN norm** 7985,  
**ISO norm** 7045



Pkg. 200

### 191318 Machine Screw

**Replacing:** 1123433001, F00M990011, F00M990136, F00M990139, F00M990151, F00M990164, F00M990180

**Servicing:** 0120000001, 0120000002, 0120000013, 0120000018, 0120000019, 0120000023

**Thread** M4, **Length** 18.00,  
**Head type** Pan head,  
**Coating** Electro galvanized,  
**Material** Steel, **DIN norm** 7985,  
**ISO norm** 7045



Pkg. 200

### 191319 Machine Screw

**Replacing:** 2910021150, 949006-6401

**Servicing:** 0001357003, 0001362073, 0001402018, 0001600002, 0001600003, 0001600005, 0001600007, 0001600010, 100210-3380, 100210-3381, 100210-3470, 100210-3480, 100210-3700, 100210-3780, 100211-5031

**Thread** M5, **Length** 6.00, **Head type** Pan head, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 7985, **ISO norm** 7045



Pkg. 200

### 191320 Machine Screw

**Replacing:** 2910012150

**Servicing:** 0001360022, 0001360037, 0001360052, 0001360065, 0001416012, 0001416074, 0120600515, 0120600525

**Thread** M5, **Length** 8.00,  
**Head type** Cheese head, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 84A, **ISO norm** 1207



Pkg. 200

### 191321# Machine Screw

**Replacing:** 9001333451, 5335-960, NS212-ZZ1

**Servicing:** 0001230001, 0001230027, 0001231002, 0001231016, 0001231034, 0001231035, 0001231502, 0001263501, S115A12-1, S115A12-10, S115A12-12, S115A12-15M, S115A12-9, S115A24-1, S115A24-12, S115A24-14

**Thread** M6, **Length** 12.00,  
**Head type** Cheese head, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 84A, **ISO norm** 1207



Pkg. 200



### 191322 Machine Screw

**Servicing:** 0091549902, 0101540002, 0101548902, 0101549202, 0111548902, 0131547102, 6033GB3027, A0091549902

**Thread** M4, **Length** 25.00, **Head type** Flat head, **DIN norm** 965, **ISO norm** 7046

Pkg. 200



### 191323 Machine Screw

**Servicing:** 0071549202, 0071549902, 0101542002, 081769686, 0986043480, 11170011, 1178511, 1298995, 1350515

**Thread** M4, **Length** 30.00, **Head type** Flat head, **DIN norm** 965, **ISO norm** 7046

Pkg. 200



### 191325 Hex Flange Screw

**Servicing:** 101210-0961, 102211-8281, 102211-8730, 102211-8731, 104210-4521, 13256932, 1525795, 1673520

**Thread** M4, **Spanner size** 7.00, **Length** 8.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6921  
**Alternative no.:** B191325

Pkg. 200



### 191326 Hex Flange Screw

**Replacing:** 1003429002, 1003429009, F00M990165, 949047-5440, 2240-6801

**Servicing:** 00010DB98E, 0001105205, 0001106014, 0001106016, 0001106018, 0001106020, 0001106403, 0001106404, 228000-0230, 228000-0231, 228000-0900, 228000-0971, 228000-1130, 228000-1131, 228000-1132, S114-569A, S114-808C, S114-808D, S114-875, S114-925A, S114-925B, S13-105A, S13-122, S13-126

**Thread** M4, **Spanner size** 7, **Length** 10.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6921  
**Alternative no.:** B191326

Pkg. 200



### 191327 Hex Flange Screw

**Replacing:** 949007-3660, 949007-7450

**Servicing:** 028000-5730, 028000-9900, 028000-9901, 028000-9902, 101210-0160, 101210-0161, 101210-0162

**Thread** M4, **Spanner size** 7.00, **Length** 12.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6921  
**Alternative no.:** B191327

Pkg. 200



### 191329 Hex Flange Screw

**Replacing:** 2914502010, 949007-3120

**Servicing:** 0120300577, 0120300578, 0120339506, 0120339521, 0120400762, 0120400763, 0120400771, 0120400772, 100211-1000, 100211-1001, 100211-1010, 100211-1011, 100211-1020, 100211-1021, 100211-1030

**Thread** M4, **Spanner size** 7.00, **Length** 16.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6921  
**Alternative no.:** B191329

Pkg. 200



### 191330 Hex Flange Screw

**Replacing:** 1123433007

**Servicing:** 0120300519, 0120300530, 0120300531, 0120300537, 0120300539, 0120300586, 0120339502, 0120339503, 102211-1461

**Thread** M4, **Spanner size** 7.00, **Length** 18.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6921  
**Alternative no.:** B191330

Pkg. 100



### 191335# Flat Washer

**Replacing:** 85-4905

**ID** 14.00, **OD** 26.00, **Thickness** 0.50, **Thread type** mm, **Coating** Electro galvanized, **Material** Steel

Pkg. 100



### 191336 Waved Washer

**Servicing:** 0724403000, 101210-0940, 102211-8221, 102211-8460, 102211-8471, 102211-8560, 119, 12311726897

**ID/housing** 17.00, **OD/housing** 30.00, **Thickness** 1.60, **Type** Mounting bracket

Pkg. 100



### 191337 Flat Washer

**Replacing:** 2000550003, 2916060008, 2916062008, 2916063008, 2916069084, 2916069161

**Servicing:** 0001106001, 0001106002, 0001106004, 0001107041, 0001107088, 0001107094, 0001107095, 0001108001

**ID** 10.00, **OD** 16.00, **Thickness** 0.50, **Coating** Electro galvanized, **Material** Steel

Pkg. 100



### 191344 Insulator Washer

**ID** 6.00, **OD** 10.00, **Thickness** 1.00, **Thread type** mm, **Material** Red fiber





Pkg. 100

### 191345 Insulator Washer

Servicing: 0986033090, 0986041840, 1177063, 1178607, 46231684, 46231687, 98424452, 98424453

ID 8.00, OD 20.00, Thickness 2.00, Thread type mm, Material Red fiber



Pkg. 100

### 191346 Insulator Washer

ID 4.00, OD 13.00, Thickness 1.00, Thread type mm, Material Red fiber



Pkg. 100

### 191348 Insulator Washer

ID 12.20, OD 22.00, Thickness 1.00, Thread type mm, Material Red fiber



Pkg. 100

### 191349 Insulator Washer

Servicing: 0001223504, 3282554, 4198600, 4198601, 46231525, 46429594, 46434037, 46813064, 504060771, 63102000A

ID 10.00, OD 16.00, Thickness 1.00, Thread type mm, Material Red fiber



Pkg. 100

### 191350 Insulator Washer

Replacing: 2000210042, 949010-2000

Servicing: 0001203008, 0001203010, 0001204002, 0001204005, 0001308001, 0001308006, 0001308007, 0001308100, 021000-0351, 021000-0812, 021000-0813, 021000-0814, 021000-1083, 021000-1242, 021000-1602

ID 6.00, OD 18.00, Thickness 1.50, Thread type mm, Material Red fiber



Pkg. 100

### 191351 Insulator Washer

Replacing: 66-2757

Servicing: 23100-69T05, 3282554, 504060771, 6033GB4009

ID 5.00, OD 12.00, Thickness 1.00, Thread type mm, Material Red fiber



Pkg. 100

### 191352 Insulator Washer

Servicing: 0001223504, 0986033090, 0986041940, 11.201.463, 3282554, 504060771, 9516591, 98417133, 98417134

ID 5.00, OD 16.00, Thickness 1.00, Thread type mm, Material Red fiber



Pkg. 100

### 191353 Insulator Washer

Servicing: 0001139408, 0001147400, 0001147404, 36100-2A300, 36100-38090, AL81438, M001T80681, M1T80681

ID 8.00, OD 12.00, Thickness 0.50, Thread type mm, Material Red fiber



Pkg. 100

### 191354 Insulator Washer

Servicing: TS18E33, TS18E331

ID 45.00, OD 51.00, Thickness 1.00, Thread type mm, Material Red fiber



Pkg. 100

### 191355 Insulator Washer

ID 20.50, OD 35.00, Thickness 1.50, Thread type mm, Material Red fiber



Pkg. 100

### 191364 Protection Cap

ID/cone 3.20/4.00, OD/cone 4.80/5.50, Height 5.70, Colour Red, Material Polyethylen, Type no. 3



Pkg. 100

### 191365 Protection Cap

ID/cone 4.50/5.30, OD/cone 6.00/6.70, Height 5.90, Colour Red, Material Polyethylen, Type no. 5


















Pkg. 100

### 191366 Protection Cap

ID/cone 5.00/5.60, OD/cone 6.80/7.40, Height 6.80, Colour Red, Material Polyethylen, Type no. 6



 <p><b>191367</b> Protection Cap Servicing: 105119C ID/cone 6.00/7.10, OD/cone 7.60/8.50, Height 8.00, Colour Red, Material Polyethylen, Type no. 8</p>	 <p><b>191372</b> Protection Cap ID/cone 11.50/13.00, OD/cone 13.10/14.50, Height 11.10, Colour Red, Material Polyethylen, Type no. 18</p>	 <p><b>191390</b> Protection Tube ID 16.40, OD 18.40, Length 17.00, Material Cardboard</p>
 <p><b>191368</b> Protection Cap ID/cone 6.90/7.90, OD/cone 8.30/9.40, Height 9.00, Colour Red, Material Polyethylen, Type no. 10</p>	 <p><b>191373</b> Protection Cap ID/cone 12.40/14.00, OD/cone 13.90/15.40, Height 12, Colour Red, Material Polyethylen, Type no. 20</p>	 <p><b>191391</b> Protection Tube Replacing: 1120407011 Servicing: 0986033841, 0986042051, 6033GB3027 ID 19.50, OD 22.40, Length 14.00, Material Cardboard</p>
 <p><b>191369</b> Protection Cap ID/cone 8.20/9.50, OD/cone 10.10/11.00, Height 9.90, Colour Red, Material Polyethylen, Type no. 12</p>	 <p><b>191374</b> Protection Cap ID/cone 13.00/14.70, OD/cone 14.20/15.70, Height 12.80, Colour Red, Material Polyethylen, Type no. 25</p>	 <p><b>191392</b> Protection Tube Servicing: 1204158, 1204618, 31100-PLZ-D00, 6204042, 6204046, 6204106, 6204140, 6204183, 6204197, 6204198 ID 10.00, OD 14.00, Length 10.10, Colour Transparent, Material Plastic</p>
 <p><b>191370</b> Protection Cap ID/cone 9.00/10.80, OD/cone 10.80/12.50, Height 9.60, Colour Red, Material Polyethylen, Type no. 15</p>	 <p><b>191375</b> Protection Cap ID/cone 14.00/15.50, OD/cone 14.90/16.80, Height 12.80, Colour Red, Material Polyethylen, Type no. 27</p>	 <p><b>191430</b> Insulator Washer ID 14.50, OD 29.00, Thickness 1.00, Thread type mm, Material Red fiber</p>
 <p><b>191371</b> Protection Cap ID/cone 10.10/11.30, OD/cone 11.40/12.80, Height 9.80, Colour Red, Material Polyethylen, Type no. 16</p>	 <p><b>191376</b> Protection Cap ID/cone 16.40/18.80, OD/cone 18.20/20.20, Height 13.90, Colour Red, Material Polyethylen, Type no. 35</p>	 <p><b>191435</b> Machine Screw Thread M5, Length 35.00, Head type Flat head, DIN norm 965, ISO norm 7046</p>

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.

\* Available while stock last, \* Program development.





Pkg. 200

### 191439 Hex Nut

**Replacing:** 2915051119, NU11-10T1

**Servicing:** 0001330006, 0001370003, 0001370004, 0001371001, 0001371004, 0001371005, 0001371006, 0001371007, 1286010, 1286510, 1286560, 1286570, 1403010, AC203RA, S115HD24-2, ZGS002, ZGS003

**Thread** M12, **Spanner size** 19, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 439B, **ISO norm** 4035



Pkg. 100

### 191442# Insulator Washer

**Servicing:** 0021543802, 0021544002, 0031541002, 0986030150, 0986033841, 120, 2181991C, 2541199B, 2541199D

**ID** 7.50, **OD** 14.00, **Thickness** 3.00, **Thread type** mm, **Material** Red fiber



Pkg. 100

### 191457 Flat Washer

**Servicing:** 0001116009, 23300-1F700, 800264, 96289430

**ID** 13.00, **OD** 19.00, **Thickness** 0.50, **Thread type** mm, **Coating** Electro galvanized, **Material** Steel



Pkg. 100

### 191458 Rivet

**Servicing:** 1204618, 6204183, 6204197, 6204198, 6204199, 6204200, 6204251, 6204252, 8973554981, 93189495

**OD** 4.00, **Length** 10.00, **Grip range** 5.00-6.50, **Material** Alu/Steel, **DIN norm** 7337A  
w/ big flange.



Pkg. 100

### 191459 Rivet

**Servicing:** 0986033950, 1695614M91, 24450, 864F10K359AB, 864F10K359AF, 864F10K359F, 864F10K359GC, 864F10K359GD

**OD** 4.00, **Length** 16.00, **Grip range** 8.50-12.00, **Material** Alu/Alu, **DIN norm** 7337A



Pkg. 200

### 191477 Hex Nut

**Servicing:** LR1190-915B, M009T20171, M9T20171

**Thread** M12, **Spanner size** 19, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 934



Pkg. 100

### 191478 Machine Screw

**Replacing:** 1123433005, 1123433032, 1123433033, F00M990062, 91310-04251

**Servicing:** 0120000016, 0120000036, 0120300530, 0120300531, 0120300535, 0120300536, 0120300537, 0120300538, 02131-9212, 100210-3380, 100211-2030, 100211-2031, 100211-3160, 100211-4530, 100211-6110

**Thread** M4, **Length** 25.00, **Head type** Pan head, **Coating** Electro galvanized, **Material** Steel  
w/ waved washer.

**Alternative no.:** B191478



Pkg. 100

### 191480 Protection Cap

**ID/cone** 15.80/17.60, **OD/cone** 17.20/18.90, **Height** 14.00, **Colour** Red, **Material** Polyethylen, **Type no.** 30



Pkg. 100

### 191490 Sealing Ring

**Servicing:** 021000-9851, 021000-9930, 0K55318300B, 100210-2210, 100210-2250, 100210-2251, 100210-2340

**ID** 18.00, **OD** 26.00, **Thickness** 1.50, **Type** Copper ring, **Thread type** mm, **Material** Copper, **DIN norm** 7603



Pkg. 200

### 191502 Flat Washer

**Replacing:** 5936-482D

**Servicing:** S115A12-1, S115A12-10, S115A12-12, S115A12-15M, S115A12-9, S115A24-1, S115A24-11M, S115A24-12

**ID** 5.30, **OD** 9.00, **Thickness** 1.00, **Thread type** mm, **Coating** Electro galvanized, **Material** Steel



Pkg. 200

### 191505 Machine Screw

**Servicing:** 0091545902, 0101545502, 030903023E, 030903023F, 037903023G, 037903023Q, 10297421, 12311735743

**Thread** M5, **Length** 14.00, **Head type** Cheese head, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 84A, **ISO norm** 1207



Pkg. 200

### 191506 Flat Washer

**Replacing:** 2916012012

**Servicing:** 0001211525, 0001211526, 0001211529, 0001211530, 0001418016, 0120400786, 0120400787, 0120400847

**ID** 5.30, **OD** 10.00, **Thickness** 1.00, **Thread type** mm, **Coating** Electro galvanized, **Material** Steel



Pkg. 200



### 191513 Hex Flange Nut

**Replacing:** 90190-08651, 901900-8651, 949056-1370, 949056-2360, 949056-3300, 949056-3460, F00M990127, F00M990181

**Servicing:** 0001105205, 0001106011, 0001106012, 0001106014, 0001106016, 0001106017, 0001106022, 0001106023, 02131-9262, 028000-0197, 028000-0370, 028000-1010, 028000-1011, 028000-1850, 028000-1970

**Thread** M8, **Spanner size** 13, **Coating** Electro galvanized, **Material** Steel  
**Alternative no.:** B191513

Pkg. 20



### 191528 Through Bolt

**Replacing:** 1123429202, 1123429216, F00M390013, 949042-2960, L150-28011, L160-3801, L160-5801

**Servicing:** 0120000003, 0120000004, 0120000005, 0120000007, 0120000008, 0120000014, 0120000024, 0120000025, 100210-3580, 100210-3770, 100210-3820, 100210-3821, 100210-3871, 100213-0260, 100213-0280, LR140-130P, LR140-402, LR140-408, LR140-415B, LR140-419T, LR140-421, LR140-421T, LR140-422E

**Thread** M5, **Length** 95.00, **Head type** Cheese head, **Colour** Black, **Material** Steel

Pkg. 10



### 191531 Through Bolt

**Replacing:** 949006-5080, M901X01571

**Servicing:** 02131-9261, 02131-9262, 028000-4800, 028000-5660, 028000-5661, 028000-5860, 028000-5861, M003T24481, M003T24482A, M003T25783, M3T24481, M3T24482A, M3T24485, M3T25783

**Total length** 89.40, **Length/rear collar** 85.10, **Thread length** 25.30, **Thread size** M6

Pkg. 100



### 191532 Insulator Washer

**ID** 14.00, **OD** 34.00, **Thickness** 2.00, **Head type** mm, **Material** Red fiber

Pkg. 200



### 191533 Machine Screw

**Replacing:** 1123421008, F00M990053

**Servicing:** 0120000002, 0120000016, 0120000036, 0120450018, 0120465003, 0120465004

**Thread** M4, **Length** 22.00, **Head type** Flat head, **DIN norm** 965, **ISO norm** 7046  
**Alternative no.:** B191533

Pkg. 100



### 191538 Flat Washer

**ID** 15.00, **OD** 22.00, **Thickness** 1.00, **Head type** mm, **Coating** Electro galvanized, **Material** Steel

Pkg. 20



### 191539 Through Bolt

**Replacing:** 949042-3950

**Servicing:** 102211-0750, 104210-2180, 104210-3290, 104210-3291, 104210-3292, 104210-3293, 104210-3410

**Thread** M5, **Length** 75.00, **Head length** 25.00, **Colour** Black, **Quality** 12.9, **Material** Steel

Pkg. 100



### 191545 Hex Flange Screw

**Replacing:** 91050-05081, 949007-6850, 949047-4440, 949047-7870, W500200S437, 9439738

**Servicing:** 021000-0812, 021000-0813, 021000-1083, 021000-1242, 021000-1602, 021000-1608, 021000-2490, 1001869, 1015821, 1032139, 1053656, 1066407, 1071383, 1074633, 1079312, 1090085, 1097304, 1097305, 042, 1107587, 1108696, 1109064, 1109422, 1109534, 1109559, 1109562, 1109563, 1113652, 1113683

**Thread** M5, **Spanner size** 8.00, **Length** 12.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6921

Pkg. 100



### 191546 Hex Flange Screw

**Replacing:** 028903-5040, 128950-0400, 128960-0040, 949047-2130

**Servicing:** 021000-3630, 021000-3641, 021000-3950, 021000-5020, 021000-5040, 021000-5046, 021000-5060

**Thread** M5, **Spanner size** 8.00, **Length** 16.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6921

Pkg. 100



### 191548 Flat Washer

**ID** 15.00, **OD** 22.00, **Thickness** 0.50, **Thread type** mm, **Coating** Electro galvanized, **Material** Steel

Pkg. 100



### 191552 Tube Rivet

**Servicing:** 219235, 96289030

**OD** 6.00, **Length** 25.00, **Height/collar** 0.40, **Material** Brass





Pkg. 200

### 191554 Machine Screw

Replacing: 949007-4100, 1989233

Servicing: 02131-9212, 028000-3290, 028000-3291, 028000-3292, 028000-5860, 028000-5861, 028000-5862

Thread M5, Length 8.00, Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045



Pkg. 100

### 191560 Flat Washer

Servicing: 0124515121, 028903028E, 028903030, 028903030A, 038903024F, 0986038351, 102211-1960, 157TBC

ID 17.00, OD 24.00, Thickness 1.50, Thread type mm, Coating Electro galvanized, Material Steel



Pkg. 100

### 191573 Lock Ring

Replacing: 11505767

Servicing: 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018

OD/housing 7, Type E-clips, Material Steel spring, DIN norm 6799 For shaft.



Pkg. 100

### 191575 Split Pin

Servicing: 028000-3290, 028000-3291, 028000-3292, 26125, 26126, 26156, 26163, 26165, 26373, 4109803, 4111220

OD 1.60, Length 16.00, Material Steel, DIN norm 94



Pkg. 100

### 191577 Split Pin

OD 4.00, Length 36.00, Material Steel, DIN norm 94



Pkg. 100

### 191579 Chamfered Washer

Replacing: 2916022014

Servicing: 0001330004, 0001330007, 0120689529, 0120689536, 0120689537, 0120689544, 0120689547, 0120689554

ID 10.50, OD 20.00, Thickness 2.00, Thread type mm, Coating Electro galvanized, Material Steel, DIN norm 125B, ISO norm 7090



Pkg. 100

### 191580 Threaded Spacer

Dim. A 7.00, Dim. B M4x9, Dim. C M4x8, Dim. L 12.00, Thread type Inner & Outer, Coating Electro galvanized, Material Steel



Pkg. 20

### 191582 Through Bolt

Replacing: 1123410076, 1123429133, 1123429211, 1123429233

Servicing: 0120400669, 0120400670, 0120400719, 0120400721, 0120400724, 0120400726, 0120400727, 0120400740

Thread M5, Length 100.00, Thread length 60.00, Head type Cheese head, Colour Black, Material Steel Alternative no.: B191582



Pkg. 20

### 191584 Through Bolt

Replacing: 1003450040, 1003450047, 1123429207, 1123429231, M981570101, 2114-58005, 10475057

Servicing: 0001106012, 0001106014, 0001106017, 0001106022, 0001106023, 0001106024, 0001107094S114-254C, S114-254D, S114-255A, S114-257G, S114-257H, S114-264, S114-320, S114-338, S114-338A, 10455506, 177, 3471177, 96569440

Thread M5, Length 125.00, Thread length 60.00, Head type Cheese head, Colour Black, Coating Electro galvanized, Material Steel



Pkg. 20

### 191585 Through Bolt

Replacing: 1003410115, 1003450010, 1003450013, 1003450048, 1003450049, 1004450013, 1123429203, 949042-1840, M981D73205

Servicing: 0001107032, 0001107034, 0001107037, 0001107045, 0001107048, 0001107056

Total length 138.70, Length/rear collar 134.80, Thread length 61.20, Thread size M5



Pkg. 200

### 191586 Machine Screw

Replacing: 2910001116, 2910022118, 858649, 949006-5460, 949006-5470, 949007-2850, 949007-3370, 949007-3930, 949007-6280, A414X24271, A414X24671

Servicing: 0001203009, 0001204002, 0001204005, 0001204006, 0001207016, 0001207017, 0001207018, 0001207019, GR45/10, GR45/13, GR45/14, GR45/15, GR45/16, GR45/17, GR45/18, GR45/19, GR45/2, GR45/3, GR45/5, 021000-8810, 021000-8820, 021000-8850, 021000-8860, 021000-9400, 021000-9430, 021000-9660, A003TJ1181, A003TX0481, A2TJ0281ZE, A2TJ0591, A2TJ0681A, A2TJ1291ZE, A3TJ0191, A3TJ0191A, A3TJ0291A

Thread M4, Length 6.00, Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045



Pkg. 100



### 191613 Socket Screw

Servicing: 0124325171, 93190138  
Thread M5, Length 20.00,  
Head type Unbrako,  
Colour Black, Quality 12.9,  
Material Steel, DIN norm 912,  
ISO norm 4762

Pkg. 200



### 191615 Hex Screw

Servicing: 2542704A, 9151095080  
Thread M5, Spanner size 8.00, Length 50.00, Coating Electro galvanized,  
Material Steel, DIN norm 933,  
ISO norm 4017

Pkg. 10



### 191625 Threaded Spacer

Servicing: 021903026L, 028903029M, 030903023D, 030903023E, 030903023F, 036903024H, 037903023G, 037903023Q  
Dim. A 8.00, Dim. C M5x10, Dim. L 40.00, Thread type External, Coating Electro galvanized, Material Steel

Pkg. 100



### 191642 Protection Cap

Replacing: 191642  
ID/cone 10.60/12.10, OD/cone 12.00/13.80, Height 11.10, Colour Red, Material Polyethylen, Type no. 17

Pkg. 200



### 191643 Machine Screw

Replacing: 1123421002  
Servicing: 0120000023, 0120000033, 0120335006, 0120335007, 0120335008, 0120335010, 0120335011, 0120335012  
Thread M4, Length 18.00, Head type Flat head, DIN norm 965, ISO norm 7046  
Alternative no.: B191643

Pkg. 200



### 191644 Hex Screw

Thread M6, Spanner size 10.00, Length 10.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017

Pkg. 200



### 191645 Hex Screw

Replacing: 9121333305  
Servicing: 6033G4011B, 6033GB5001, 6033GB5007, 6033GB4018, 6033GB4020, 6033GB4021, 9120334633, 9120334634  
Thread M6, Spanner size 10.00, Length 65.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017

Pkg. 200



### 191645 Hex Screw

Replacing: 0-0274-06652  
Servicing: 0-33000-2200, 0-33000-2280, 0-33000-2281, 0-33000-2290, 0-33000-2330, 0-33000-3300, 0-33000-3450  
Thread M6, Spanner size 10.00, Length 65.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017

Pkg. 10



### 191648 Insulator Washer

Servicing: 0001231007, 0986041940, 1329201080, 9516591, 98417133, 98417134  
ID 10.00, OD 25.00, Thickness 2.00, Thread type mm, Material Red fiber

Pkg. 200



### 191658 Machine Screw

Servicing: 104210-3430, 104210-3431, 104210-4101, 104210-4102, 104210-5150, 104210-5591, 27060-0N020  
Thread M4, Length 6.00, Head type Pan head, Flange w/ Eco-fix.

Pkg. 200



### 191660 Machine Screw

Replacing: 949007-6530  
Servicing: 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532  
Thread M5, Length 8.00, Head type Pan head, Flange w/ Eco-fix.

Pkg. 200



### 191661 Machine Screw

Servicing: 12417788680, 36100-26800, 428000-0660, 63280071, 699298, 7SEU16C, 813157, 813657, A0012303211  
Thread M5, Length 10.00, Head type Pan head, Flange w/ Eco-fix.





Pkg. 200

### 191677 Machine Screw

**Servicing:** 102211-0750, 27060-28070, 28100-21061, 28100-21062, 428000-0022, 428000-0023, 428000-0024

**Thread** M4, **Length** 8.00, **Head type** Pan head, **Flange** w/ *Eco-fix*.



Pkg. 200

### 191678 Machine Screw

**Replacing:** 190563, 85-1310, PALK100, S-3801

**Servicing:** 0124515034, 021903026L, 028903029D, 028903029R, 028903029T, 030903023H, 030903023J, 030903023M

**Thread** M5, **Length** 16.00, **Head type** Flat head, **DIN norm** 965, **ISO norm** 7046



Pkg. 200

### 191753 Tapping Screw

**Dim.** 2.9x16, **Head type** Pan head, **Material** Electro galvanized, **Type no.** 4, **DIN norm** 7981C, **ISO norm** 7049



Pkg. 200

### 191762 Machine Screw

**Servicing:** 2542736, TG9C013

**Thread** M5, **Length** 45.00, **Head type** Pan head, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 7985, **ISO norm** 7045



Pkg. 200

### 191770 Machine Screw

**Replacing:** 1003429004, 1003429006, 2910001118, 2910012118, 9001333411, 858650

**Servicing:** 0001106011, 0001106012, 0001106014, 0001106015, 0001106016

**Thread** M4, **Length** 8.00, **Head type** Pan head, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 7985, **ISO norm** 7045



Pkg. 100

### 191772 Hex Flange Screw

**Servicing:** 0-23000-6510, 0001501750, 0001502450, 0001502550, 0120400712, 0120400713, 063321165010, 0SL2118300G

**Thread** M5, **Spanner size** 7.00, **Length** 25.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 6921



Pkg. 200

### 191789 Hex Screw

**Replacing:** A00715X05371, A715X01971, A715X05371

**Servicing:** A002T82378, A002T82899, A002T82899A, A002TN0299, A002TN0399, A002TN0499, A002TN1199, A002TN1199AT

**Thread** M5, **Spanner size** 8.00, **Length** 14.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 933, **ISO norm** 4017



Pkg. 200

### 191798 Tapping Screw

**Dim.** 2.9x19, **Head type** Pan head, **Material** Electro galvanized, **Type no.** 4, **DIN norm** 7981C, **ISO norm** 7049



Pkg. 100

### 191805 Cable Eyelet

**Replacing:** 01282

**ID** 4.30, **OD** 7.20, **Height** 3.60, **Material** Brass



Pkg. 100

### 191816 Lock Ring

**Servicing:** 428000-6200

**OD/housing** 17, **Material** Steel spring, **Position** External, **DIN norm** 471



Pkg. 200

### 191854 Hex Screw

**Replacing:** 2911011213

**Servicing:** 0001359012, 0001359027, 0001359046, 0001359078, 9120144601, 9120144602, 9120144603, 9120144604

**Thread** M6, **Spanner size** 10.00, **Length** 50.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 933, **ISO norm** 4017



Pkg. 100

### 191857 Protection Plug

**Thread** M8-1, **Thread type** External, **Colour** Red, **Material** Polyethylen





Pkg. 100

**191858** Protection Plug  
Thread M10-1, Thread type External,  
Colour Red, Material Polyethylen



Pkg. 100

**191859** Protection Plug  
Thread M12-1, Thread type External,  
Colour Red, Material Polyethylen



Pkg. 100

**191860** Protection Plug  
Thread M12-1.5, Thread type External,  
Colour Red, Material Polyethylen



Pkg. 100

**191861** Protection Plug  
Thread M14-1.5, Thread type External,  
Colour Red, Material Polyethylen



Pkg. 100

**191862** Protection Cap  
Thread M8-1, Height 10.00,  
Thread type Internal, Colour Red,  
Material Polyethylen



Pkg. 100

**191863** Protection Cap  
Thread M10-1, Height 10.00,  
Thread type Internal, Colour Red,  
Material Polyethylen



Pkg. 100

**191864** Protection Cap  
Thread M12-1, Height 12.00,  
Thread type Internal, Colour Red,  
Material Polyethylen



Pkg. 100

**191865** Protection Cap  
Thread M12-1.5, Height 12.00,  
Thread type Internal, Colour Red,  
Material Polyethylen



Pkg. 100

**191866** Protection Cap  
Thread M14-1.5, Height 11.90,  
Thread type Internal, Colour Yellow,  
Material Polyethylen



Pkg. 100

**191869** Insulator Washer  
ID 15.00, OD 24.00, Thickness 0.50,  
Thread type mm, Material Red fiber



Pkg. 20

**191873** Through Bolt  
Replacing: 1123429206, 2114-68005,  
M981D73202

Servicing: 0001112003, 0001112004,  
0001211257, 0001211258, 0120468004,  
0120468005, 0120468006, 0120468037,  
S108-63, S108-85, S108-86, S108-89, S108-  
91, S114-229F, S114-252F, S114-253B, S114-  
256B, S114-258C, 1810A011, M000T21671,  
M000T22471, M000T60081, M000T60081A,  
M000T60181, M000T60181A, M000T70281

Thread M5, Length 120.00,  
Thread length 60.00, Head type Cheese  
head, Colour Black, Coating Electro  
galvanized, Material Steel

Pkg. 25



**191898** Hex Nut

Replacing: 1123300020

Servicing: 0001241003, 0001241007,  
0001241014, 0001241019, 0120335011,  
0120335012, 012033501C, 0120468131

Thread M10, Spanner size 14,  
Coating Electro galvanized,  
Material Steel, DIN norm 934

Pkg. 20



**191899** Through Bolt

Replacing: 1123429214

Servicing: 0120300518, 0120300519,  
0120300522, 0120300523, 0120300528,  
0120300529, 0120300530, 0120300531

Thread M5, Length 90.00,  
Thread length 35.00, Head type Cheese  
head, Colour Black, Coating Electro  
galvanized, Material Steel





Pkg. 200

### 191900 Hex Screw

Replacing: 2911432156

Servicing: 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009

Thread M5, Spanner size 8.00, Length 16.00, Coating Electro galvanized, Material Steel, DIN norm 933, ISO norm 4017  
w/ ESLOK thread fastener.


Pkg. 100

### 191901 Flat Washer

Servicing: 101210-1410, 102211-8740, 102211-8741, 104210-5790, 157TBC, 2542234A, 2542841, 2542850, 2542850C

ID 17.00, OD 24.00, Thickness 0.50, Thread type mm, Coating Electro galvanized, Material Steel



Pkg. 100

### 191913 Waved Washer

Replacing: 1120150008

Servicing: 0120000017, 0120000019, 0120000023, 0120300568, 0120300569, 0120335006, 0120335007, 0120335008

ID/housing 16.30, OD/housing 24.00, Thickness 1.50, Type Mounting bracket



Pkg. 100

### 191987 Hex Flange Screw

Thread M8, Spanner size 13.00, Length 16.00, Coating Electro galvanized, Material Steel, DIN norm 6921



Pkg. 100

### 191988 Hex Tapping Screw

Dim. 6.3x19, Spanner size 10, Material Electro galvanized, Flange w/, DIN norm 7976C



Pkg. 200

### 192046 Machine Screw

Servicing: 11.203.051, 11.204.254, 11.204.276, 1182691, 2541768, 37300-22600, 37300-33100, 37300-33101

Thread M5, Length 20.00, Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045



Pkg. 200

### 192065 Machine Screw

Replacing: 2910002158, 2910011158, NS209-10ZI, 948007-0010, A414X01471, A414X06771

Servicing: 0001362003, 0001362004, 0001362027, 0001362028, 0001362060, 0001362601, 0001368304, 0001410037, 1268580, 1268590, 1268600M, 1268610, 1268650, 1268660, 1268690, AC5RS-24, 021000-0351, 021000-0814, 021000-2522, 021000-2532, 021000-2542, 021000-2840, 021000-2991, A001T02871, A001T22581, A001T24371, A001T24471, A001T32471, A002T14472, A002T24371, A002T24971

Thread M5, Length 16.00, Head type Pan head, Coating Electro galvanized, Material Steel, DIN norm 7985, ISO norm 7045



Pkg. 200

### 192072 Hex Nut

Thread M8, Spanner size 13.00, Height 24.00, Coating Electro galvanized, Material Steel  
w/ internal thread.


Pkg. 100

### 192073 Socket Screw

Servicing: 047903017, 24041, 2542689, 9120144605, 9120144606, 9517241, 9517413, D6RA100, D6RA107, D6RA12

Thread M5, Length 55.00, Thread length 22.00, Colour Black, Quality 12.9, Material Steel



Pkg. 200

### 192123 Tapping Screw

Dim. 4.8x16, Head type Flat head, Colour Black, Material Zinc plated, Gimlet point w/, Type no. 8, DIN norm 7982, ISO norm 7050



Pkg. 100

### 192131 Protection Cap

ID/cone 6.20/7.60, OD/cone 5.00/5.90, Height 9.50, Colour Red, Material Polyethylen, Type no. 7



Pkg. 200

### 192143 Self-locking Hex Nut

Thread M12, Spanner size 19, Coating Electro galvanized, Material Steel, DIN norm 985-6  
Self-locking w/ nylon ring.





Pkg. 200

### 192145 Machine Screw

**Replacing:** 2910641154, 5334-476, NS230-7T1, 91418-05141, L150-28001

**Servicing:** 0001410015, 0001410016, 0001410024, 0001410041, 0001410046, 0001410088, 0001410116, 0001411008, S115A12-1, S115A12-10, S115A12-12, S115A12-15M, S115A12-9, S115A24-1, S115A24-11M, S115A24-12, 028000-5860, 028000-5861, 028000-5862, 028000-5863, 028000-5864, 100211-5250, 100213-1900, LR1100-702, LR1100-724, LR1100-724B, LR1100-724C, LR1110-701, LR1110-701B, LR1110-703B, LR1110-704

**Thread** M5, **Length** 12.00, **Head type** Pan head, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 7985, **ISO norm** 7045



Pkg. 200

### 192216 Machine Screw

**Servicing:** 0021543802, 0021544002, 0031541002, 0986030150, 36100-03200, 37300-42010, 37300-42452, 37300-42454

**Thread** M5, **Length** 25.00, **Head type** Pan head, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 7985, **ISO norm** 7045



Pkg. 100

### 192228 Hex Nut

**Replacing:** 949050-1080, 54134027

**Servicing:** 021000-0351, 021000-0430, 021000-0441, 021000-0812, 021000-0813, 021000-0814, 021000-1083, NAB300, NAB301, NAB302, NAB303, NAB304, NAB305, NAB306, NAB307, NAB900, NAB901, NAB902, NAB903

**Thread** M14-1.5, **Spanner size** 22, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 439B, **ISO norm** 4035



Pkg. 200

### 192248 Hex Screw

**Thread** M10, **Spanner size** 17.00, **Length** 50.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 933, **ISO norm** 4017



Pkg. 200

### 192249 Hex Screw

**Thread** M10, **Spanner size** 17.00, **Length** 70.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 931, **ISO norm** 4014



Pkg. 200

### 192251 Hex Screw

**Servicing:** AZF4195

**Thread** M8, **Spanner size** 13.00, **Length** 40.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 933, **ISO norm** 4017



Pkg. 200

### 192253 Hex Screw

**Thread** M8, **Spanner size** 13.00, **Length** 80.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 931, **ISO norm** 4014



Pkg. 200

### 192255 Hex Screw

**Replacing:** 85-1309

**Servicing:** 4172113

**Thread** M5, **Spanner size** 8.00, **Length** 12.00, **Coating** Electro galvanized, **Material** Steel, **DIN norm** 933, **ISO norm** 4017



Pkg. 100

### 192347 Machine Screw

**Replacing:** 9001140234

**Servicing:** 9000141100, 9000141103, 9000141111, 9000141112, 9000141113

**Thread** M6, **Length** 30.00, **Head type** Flat head, **DIN norm** 965, **ISO norm** 7046



Pkg. 100

### 192362 Flat Washer

**Replacing:** 84-4504

**ID** 10.00, **OD** 16.00, **Thickness** 1.00, **Thread type** mm, **Coating** Electro galvanized, **Material** Steel



Pkg. 200

### 192364 Machine Screw

**Servicing:** 0001112017, 02M911024A, 02T911024B, 02T911024N, 02Z911021C, 02Z911023P, 02Z911024A, 02Z911024L

**Thread** M4, **Length** 35.00, **Head type** Cheese head, **Coating** Electro galvanized, **Material** Steel, **ISO norm** 7048



Pkg. 100



### 192405 Socket Screw

Replacing: 192405

Servicing: D6RA105, D6RA115, D6RA138, D6RAD183, D6RADP359, D6RAP229, D6RA110

Thread M5, Length 45.00,  
Head type Unbrako,  
Colour Black, Quality 12.9,  
Material Steel, DIN norm 912,  
ISO norm 4762

Pkg. 200



### 192407 Hex Screw

Thread M12, Spanner size 19.00,  
Length 50.00, Coating Electro galvanized,  
Material Steel, DIN norm 933,  
ISO norm 4017

Pkg. 100



### 192416 Hex Flange Screw

Thread M6, Spanner size 10.00,  
Length 10.00, Coating Electro galvanized,  
Material Steel, DIN norm 6921

Pkg. 200



### 192417 Hex Nut

Thread M6, Spanner size 10.00,  
Height 18.00, Coating Electro galvanized,  
Material Steel  
w/ internal thread.

Pkg. 200



### 192418 Hex Screw

Servicing: 0001501750, 0001502550,  
0061512101, 10480404, 10480408, 1327471,  
1327A620, 532011, 532021, 532023

Thread M6, Spanner size 10.00,  
Length 12.00, Total length 10.00,  
Coating Electro galvanized,  
Material Steel, DIN norm 933,  
ISO norm 4017

Pkg. 100



### 192425 Hex Flange Screw

Servicing: 1250449, 1810A050R, 8600889,  
914F10300AB

Thread M6, Spanner size 10.00,  
Length 20.00, Coating Electro galvanized,  
Material Steel, DIN norm 6921

Pkg. 100



### 192440 Socket Screw

Thread M5, Length 25.00,  
Head type Unbrako, Colour Black,  
Quality 12.9, Material Steel,  
DIN norm 912, ISO norm 4762

Pkg. 100



### 192441 Socket Screw

Servicing: 1800A222, 4172113, A003TB4981,  
A005TG0091, A005TG0091AE, A005T-  
G0091ZE, A3TB4981, A5TG0091

Thread M5, Length 60.00,  
Thread length 22.00, Head type Unbrako,  
Colour Black, Quality 12.9,  
Material Steel

Pkg. 100



### 192444 Machine Screw

Servicing: 04686045AB, 04686045AD, 19420-  
63012, 228000-7151, 228000-7640, 228000-  
7641, 228000-7680

Thread M5, Length 35.00, Head type Pan  
head, Coating Electro galvanized,  
Material Steel, DIN norm 7985, ISO norm 7045

Pkg. 500



### 192508 Hex Screw

Servicing: 100211-1401, 100211-1402,  
101210-0870, 101210-0871, 101210-1080,  
101210-1081, 101210-1100

Thread M4, Spanner size 7, Length 14,  
Coating Electro galvanized, Material Steel,  
DIN norm 933, ISO norm 4017

Pkg. 100



### 192550# Hex Screw

Servicing: 0120400870, 0120400871,  
0124525133, 0124525141, 021903026L,  
028903029D, 028903029R, 028903029T

Thread M5, Spanner size 7.00,  
Length 20.00, Coating Electro galvanized,  
Material Steel, Dri lock w/  
w/ ESLOK thread fastener.

Pkg. 200



### 192567 Hex Flange Screw

Servicing: 37300-4A110, 5010437730,  
7711135920, LR1130-702, LR1130-702B,  
LR1130-702C, LR170-756, LR170-756B

Thread M5, Spanner size 8.00,  
Length 12.00, Coating Electro  
galvanized, Material Steel, Dri lock w/  
DIN norm 6921  
w/ ESLOK thread fastener.



Pkg. 200



**192568** Hex Flange Screw  
**Servicing:** 2542749C, A5T20374  
**Thread** M5, **Spanner size** 8.00,  
**Length** 16.00, **Coating** Electro  
galvanized, **Material** Steel, **Dri lock** w/  
**DIN norm** 6921  
w/ *ESLOK thread fastener.*

Pkg. 100



**192569** Machine Screw  
**Replacing:** F00M390009, F00M990175  
**Servicing:** 0120000003, 0120000004,  
0120000005, 0120000006, 0120000007,  
0120000008, 0120000014, 0120000024  
**Thread** M4, **Length** 18.00,  
**Head type** Flat head countersunk,  
**Coating** Electro galvanized, **Material** Steel,  
**Dri lock** w/, **DIN norm** 965,  
**ISO norm** 7046  
w/ *ESLOK thread fastener.*  
**Alternative no.:** B192569

Pkg. 200



**192571** Machine Screw  
**Servicing:** 0101544602, 0123320044,  
0123335003, 0124515054, 9123369044  
**Thread** M4, **Length** 22.00,  
**Head type** Flat head, **Coating** Electro  
galvanized, **Material** Steel, **Dri lock** w/  
**DIN norm** 965, **ISO norm** 7046  
w/ *ESLOK thread fastener.*

Pkg. 10



**192578** Thread Insert  
**Servicing:** 0123510031, 1012463, 7387709,  
95VW10300EA, 95VW10300EB, 95VW10300EC  
**Total length** 10.00,  
**Thread size/external** M12-1  
*For Glow Plugs.*

Pkg. 200



**192586** Machine Screw  
**Replacing:** F002G91122, F00M390005,  
F00M990184, F00M990188, F00M990195  
**Servicing:** 0120000013, 0120000018,  
0120000030, 0120000032, 0120469108,  
0120469110, 0120469113, 0120488149  
**Thread** M4, **Length** 22.00, **Head type** Pan  
head, **Coating** Electro galvanized,  
**Material** Steel, **DIN norm** 7985,  
**ISO norm** 7045

Pkg. 100



**192591** Socket Head Screw  
**Replacing:** 5335-963E, N805481S36  
**Servicing:** AC203, 1286010, 1286510,  
1286560, 1286570, AC203RA, 1286000,  
1286500, 1286590  
**Thread** M6, **Length** 16.00,  
**Head type** Unbrako,  
**Colour** Black, **Quality** 12.9,  
**Material** Steel, **DIN norm** 912,  
**ISO norm** 4762

Pkg. 100



**192594** Socket Head Screw  
**Servicing:** 0K55218400A, 228000-4980,  
228000-4981, 228000-4982, 228000-5641,  
228000-7550, 228000-7551, 99432760  
**Thread** M6, **Length** 50.00,  
**Head type** Unbrako,  
**Colour** Black, **Quality** 12.9,  
**Material** Steel, **DIN norm** 912,  
**ISO norm** 4762

Pkg. 100



**192658** Cable Eyelet  
**ID** 5.00, **OD** 8.00, **Height** 3.60,  
**Material** Brass

Pkg. 100



**192663** Flat Washer  
**Servicing:** 102211-9100  
**ID** 17.00, **OD** 24.00, **Thickness** 1.00,  
**Thread type** mm, **Coating** Electro  
galvanized, **Material** Steel

Pkg. 200



**192667** Flat Washer  
**ID** 5.30, **OD** 12.00, **Thickness** 1.00,  
**Thread type** mm, **Coating** Electro  
galvanized, **Material** Steel

Pkg. 100



**192672** Socket Head Screw  
**Servicing:** 101210-1410, 102211-8740,  
102211-8741, 27060-0Q020, 27060-0Q021,  
27060-0Q130  
**Thread** M4, **Length** 10.00,  
**Head type** Unbrako,  
**Colour** Black, **Quality** 12.9,  
**Material** Steel, **DIN norm** 912,  
**ISO norm** 4762

Pkg. 200



**192678** Spring Lock Washer  
**Servicing:** 11.203.051, 11.204.254,  
11.204.276, 1182691, AAN5120, AAN5122,  
AAN8166  
**ID** 5.30, **OD** 10.00, **Thickness** 0.50,  
**Thread type** mm, **Coating** Electro  
galvanized, **Material** Steel  
spring, **DIN norm** 137A





Pkg. 200

### 192679 Spring Lock Washer

Replacing: 2916069091

ID 8.40, OD 15.00, Thickness 0.50,  
Thread type mm, Coating Electro  
galvanized, Material Steel spring, DIN norm 137A


Pkg. 200

### 192694 Flat Washer

ID 5.30, OD 20.00, Thickness 1.50,  
Type Fender washer, Thread type mm,  
Coating Electro galvanized,  
DIN norm 9021A, ISO norm 7093


Pkg. 200

### 192695 Flat Washer

ID 6.40, OD 25.00, Thickness 1.80,  
Type Fender washer, Thread type mm,  
Coating Electro galvanized, Material Steel


Pkg. 200

### 192696 Flat Washer

ID 8.40, OD 30.00, Thickness 2.00,  
Type Fender washer, Thread type mm,  
Coating Electro galvanized, Material Steel


Pkg. 100

### 192707 Lock Ring

Servicing: 36100-23150, 7700113627,  
7711134297, 8200143045, D6RA10, D6RA100,  
D6RA101, D6RA104, D6RA105  
OD/housing 4, Thickness 0.7, Type E-clips,  
Material Steel spring, DIN norm 6799  
For shaft.


Pkg. 200

### 192752 Bolt

Replacing: 2911051281

Servicing: 0001370003, 0001370004,  
0001371004, 0001371005, 0001371006,  
0001371007, 0001371008, 0001371009

Thread M10, Spanner size 17.00,  
Length 12.00, Coating Electro galvanized,  
Material Steel, DIN norm 933,  
ISO norm 4017


Pkg. 100

### 192754 Hex Screw

Servicing: 02Z911021C, 02Z911024A,  
02Z911024L, 28100-YV020, 36100-29000,  
9646972280, 9662854080, D7G14, D7G26

Thread M8, Length 12.00,  
Head type Flat head,  
Coating Electro galvanized,  
Material Steel, ISO norm 14581


### 192790 Socket Screw

Servicing: 228000-7550, 228000-7551,  
99486046

Thread M7, Length 50.00,  
Total length 57.00, Thread length 26.00,  
Slot type Hex, Quality 8.8, Material Steel,  
DIN norm 912, ISO norm 4762


Pkg. 100

### 192814 Spring Pin

Servicing: 37300-42452, 37300-42454,  
37300-42456, 37300-42457, 37300-42458,  
37300-42459, 37300-42471, AF175363

ID 8.50, OD 10.50, Length 14.00,  
Material Steel spring, Heavy duty No,  
DIN norm 7336, ISO norm 13337


Pkg. 100

### 192821 Flat Washer

Servicing: M001T80381, M1T80381

ID 18.00, OD 31.90, Thickness 0.50,  
Material Metal, Bushing w/o


Pkg. 100

### 193263 Rivet

OD 4.80, OD/collar 9.06-9.98,  
Length 17.20, Height/collar 1.40,  
Grip range 9.50-12.70, Material Alu/Steel,  
Collar w/, DIN norm 7337A


Pkg. 500

### 193374 Field Coil Tape

Length 500.00 m, Width 10.00,  
Material Polyester


Pkg. 100

### 193375 Field Coil Tape

Replacing: 0-528-00

Length 100.00 m, Width 20.00,  
Material Polyester


Pkg. 200

### 193502 Hex Flange Nut

Thread M5, OD 8, OD/washer 11.8,  
Coating Galvanised, Washer w/





**230793** Terminal Lead  
ID 8.50, Length 23.20,  
Lead length 106.80, Width 14.30, M8.

Pkg. 10



**332113** O-ring  
Servicing: 2542855, 2542855B, 2543207,  
2543370, 2543370A, 2543426, 2543426A,  
2543561, 2543561A, 2543563  
ID 126.50, OD 132.50, Height 1.40,  
Thickness 2.80

Pkg. 10



**B191306** Hex Flange Nut  
Replacing: 85-2201  
Servicing: 0002801V003, 0002801V004,  
0003250V007, 0071549202, 0071549902,  
0091549902, 0101540002, 0101548902  
Thread M4, Spanner size 7,  
Coating Electro galvanized, Material Steel  
Alternative no.: 191306

Pkg. 5000



**B191307** Hex Flange Nut  
Servicing: 0001109048, 0001147400,  
0001147404, 0002801V003, 0002801V004,  
0003250V007, 0003250V008, 0071549202  
Thread M5, Spanner size 8,  
Coating Electro galvanized, Material Steel  
Alternative no.: 191307

Pkg. 5000



**B191308** Hex Flange Nut  
Servicing: 0001108403, 0001123001,  
0001139408, 0001368311, 0001372005,  
0001416079, 0002801V003, 0002801V004  
Thread M6, Spanner size 10,  
Coating Electro galvanized, Material Steel  
Alternative no.: 191308

Pkg. 3000



**B191325** Hex Flange Screw  
Servicing: 0061514501, 0061514601,  
0091545902, 0101545502, 0124320002,  
030903023D, 0986031941, 0K05418300C  
Thread M4, Spanner size 7.00,  
Length 8.00, Coating Electro galvanized,  
Material Steel, DIN norm 6921  
Alternative no.: 191325

Pkg. 4000



**B191326** Hex Flange Screw  
Replacing: 85-1204  
Servicing: 0001106014, 0001106019,  
0001106023, 0001107076, 0001107080,  
0001107091, 0001107097, 0001107406  
Thread M4, Spanner size 7.00,  
Length 10.00, Coating Electro galvanized,  
Material Steel, DIN norm 6921  
Alternative no.: 191326

Pkg. 2000



**B191327** Hex Flange Screw  
Replacing: ARS1001, S-3915  
Servicing: 0001501750, 0121715001,  
0124525074, 0124525093, 0124525527,  
03C903023A, 0986030760, 0K01218300  
Thread M4, Spanner size 7.00,  
Length 12.00, Coating Electro galvanized,  
Material Steel, DIN norm 6921  
Alternative no.: 191327

Pkg. 2000



**B191328** Hex Flange Screw  
Servicing: 0002801V003, 0002801V004,  
0003250V007, 0003250V008, 04868430AB,  
04868430AC, 04868430AD, 04868430AE  
Thread M4, Spanner size 7.00,  
Length 14.00, Coating Electro galvanized,  
Material Steel, DIN norm 6921

Pkg. 2000



**B191329** Hex Flange Screw  
Replacing: 2910021128  
Servicing: 0120300524, 0120400706,  
0120400707, 0120400908, 0120400909,  
0120489584, 0120489599, 0120489647  
Thread M4, Spanner size 7.00,  
Length 16.00, Total length 20.20,  
Coating Electro galvanized,  
Material Steel, DIN norm 6921  
Alternative no.: 191329

Pkg. 2000



**B191330** Hex Flange Screw  
Servicing: 0051543402, 0061541602,  
0071549202, 0071549902, 0091540702,  
0091549902, 0101540002, 0101542002  
Thread M4, Spanner size 7.00,  
Length 18.00, Coating Electro galvanized,  
Material Steel, DIN norm 6921  
Alternative no.: 191330

Pkg. 2000



**B191478** Machine Screw  
Servicing: 0002801V004, 0071549202,  
0071549902, 0091549902, 0101540002,  
0101548902, 0101549202, 0111540602  
Thread M4, Length 25.00,  
Head type Pan head, Coating Electro  
galvanized, Material Steel  
w/ washer.  
Alternative no.: 191478

Pkg. 5000



**B191513** Hex Flange Nut  
Replacing: F00M990127, F00M990181  
Servicing: 0001106014, 0001106018,  
0001106019, 0001106023, 0001107076,  
0001107080, 0001107088, 0001107091  
Thread M8, Spanner size 13,  
Coating Electro galvanized, Material Steel  
Alternative no.: 191513

Pkg. 1000





Pkg. 4000

### B191514 Hex Flange Screw

Servicing: 0051543402, 0091540702, 0724403000, 0986033980, 3255439, 46430112, 51.26101-7144, 51.26101-7185

Thread M4, Spanner size 7.00, Length 28.00, Coating Electro galvanized, Material Steel, DIN norm 6921



Pkg. 2000

### B191792 Hex Flange Screw

Servicing: 0K01118300B, 0K01118300C, 0K01118300D, 0K20118300, 0K29T18300, 0SL2118300G, 1140138, 12311730261

Thread M5, Spanner size 8.00, Length 30.00, Coating Electro galvanized, Material Steel, DIN norm 6921



Pkg. 2000

### B191533 Machine Screw

Replacing: ARS0025

Servicing: 0081548202, 0081548302, 0081548402, 0091541902, 0091543002, 0091544302, 0091545802

Thread M4, Length 22.00, Head type Flat head, DIN norm 965, ISO norm 7046

Alternative no.: 191533



Pkg. 2000

### B191867 Hex Flange Screw

Servicing: 0124225051, 0124225053, 0124515034, 021903026L, 028903029R, 038903023S, 038903024G, 03C903023G

Thread M5, Spanner size 8.00, Length 20.00, Coating Electro galvanized, Material Steel, DIN norm 6921



Pkg. 100

### B191582 Through Bolt

Servicing: 0021543802, 0021544002, 0031541002, 0986030150, 0986031340, 0986034450, 12311726897, 12311730725

Thread M5, Length 100.00, Thread length 60.00, Head type Cheese head, Colour Black, Material Steel

Alternative no.: 191582



Pkg. 1000

### B192569 Machine Screw

Servicing: 0121615121, 0123320002, 0124220008, 0124425096, 13308507, 1435647, 1455494, 37300-02570

Thread M4, Length 18.00, Head type Flat head countersunk, Coating Electro galvanized, Material Steel, Dri lock w/, DIN norm 965, ISO norm 7046 w/ ESLOK.

Alternative no.: 192569



Pkg. 2000

### B191643 Machine Screw

Replacing: ARS0024

Servicing: 0061541602, 0120489752, 0121542002, 0121542202, 0123510095, 0124225041, 0124325050, 0124325079

Thread M4, Length 18.00, Head type Flat head, DIN norm 965, ISO norm 7046

Alternative no.: 191643



Pkg. 100

### B230731 Through Bolt

Replacing: F00M990102

Servicing: 0120000001, 0120000002, 0120000013, 0120000019, 0120000033, 0120000035, 0123510095, 0123520023

Total length 65.30, Length/rear collar 60.20, Thread length 21.70, Thread size M5, Shaft w/

Alternative no.: 230731





# Survey

Bushings, Bearings, O-Rings,  
Washers and Oil Seals

Edition 2023-2025





## Bushings



ID	OD	Length	HC-CARGO
4.00	7.00	7.40	140952
40.12	48.04	10.50	140011
5.02	7.97	7.15	142015
5.20	9.00	9.00	141117
6.00	10.20	8.20	140615
6.00	8.79	11.65	142044
6.02	9.00	7.10	140499
6.04	9.81	7.04	140992
6.05	10.02	8.30	140497
6.05	12.00	11.07	142068
6.07	8.75	10.80	140939
6.10	10.00	6.85	141132
6.10	10.00	7.45	140787
6.10	10.05	10.40	141046
6.16	10.00	8.91	140993
6.84	11.00	8.00	140994
7.00	11.95	8.50	142014
7.02	10.00	6.10	140734
7.02	9.50	9.25	141249
7.06	11.99	10.00	140991
7.07	9.60	10.00	141105
7.09	9.51	11.20	140788
7.10	9.50	8.20	331981
7.12	9.60	8.10	140965
8.01	11.12	8.00	141118
8.02	11.50	9.98	140947
8.02	11.51	11.43	140916
8.07	11.06	9.50	332877
8.09	11.12	10.00	140250
8.10	11.12	8.00	140249
8.10	11.55	11.63	141145
8.10	11.90	9.10	140941
8.10	12.00	6.80	141047
8.10	12.00	8.75	140653
8.11	10.93	11.25	141148
8.12	11.55	9.00	141091
8.12	12.12	11.44	140970
8.12	12.45	10.00	140987
8.12	13.10	8.34	140648
8.15	11.00	8.25	141134
8.60	11.00	10.95	134772
9.05	13.00	8.50	142022
9.20	13.08	13.30	141133
9.35	11.98	12.46	237666
9.85	14.05	11.90	140915
9.90	16.60	8.05	140940
9.95	14.00	14.75	140691
10.00	11.62	14.15	142025#
10.00	13.95	8.55	141074
10.00	14.00	12.00	140319
10.00	14.05	9.35	141122
10.03	13.04	13.00	140258
10.03	14.00	10.00	141202
10.03	14.00	12.50	140555
10.03	16.02	10.00	140988
10.03	16.10	12.50	140911
10.03	16.55	10.35	140248
10.04	16.55	13.80	141061
10.05	16.55	11.50	140204
10.06	13.04	16.00	140259
10.06	14.05	13.00	140155
10.07	13.05	12.00	140038

ID	OD	Length	HC-CARGO
10.07	13.05	12.00	140038
10.07	13.97	10.00	140842
10.07	16.55	14.60	140563
10.08	14.02	13.50	140050
10.08	14.02	15.00	140047
10.08	14.03	13.60	140156
10.08	14.09	13.00	140014
10.10	12.80	12.50	141257
10.10	12.95	10.45	140731
10.10	12.98	12.00	332635
10.10	14.00	9.55	141119
10.10	14.04	9.60	140430
10.10	15.01	10.00	141032
10.10	15.50	10.40	140424
10.11	14.04	9.90	140208
10.12	14.00	12.00	141146
10.17	14.07	12.20	141025
10.75	12.35	21.00	140998
11.00	13.00	12.60	141150
11.00	13.00	17.55	140466
11.00	13.10	10.20	332325
11.00	13.60	13.80	140008
11.00	14.70	12.80	140425
11.02	14.00	13.00	140428
11.03	13.23	12.70	141153
11.03	13.54	9.00	140929
11.05	14.72	11.00	140427
11.05	14.72	8.00	140426
11.06	13.03	13.00	140320
11.07	14.02	9.00	141165
11.07	15.08	15.00	140314
11.08	12.10	15.30	141221
11.09	12.60	11.50	140853
11.10	12.60	11.50	140028
11.10	14.03	13.80	142033
11.14	14.34	9.00	141014
11.15	13.97	13.90	141092
11.15	14.70	9.80	141011
11.15	15.85	16.30	140056
11.17	15.85	12.60	140663#
11.18	15.85	18.85	140666#
11.20	15.85	12.35	140103
11.51	12.86	25.00	141271
11.52	15.08	13.00	140315
11.53	13.50	23.00	140690
11.55	15.10	14.00	140309
11.60	14.08	13.00	140435
11.97	15.24	19.05	140187
11.99	15.11	18.67	140186
12.00	13.17	12.75	140183
12.00	13.20	16.15	140621
12.00	14.00	11.90	140858
12.00	15.00	11.90	142041
12.00	15.00	12.00	140040
12.00	15.40	10.00	142027
12.00	16.00	10.05	141075
12.00	16.00	16.90	140046
12.00	16.00	19.40	140374
12.00	16.30	22.50	140307
12.01	13.11	15.60	140467
12.02	16.00	10.96	141252
12.02	16.00	9.50	140429
12.03	13.50	18.79	140625
12.03	14.00	20.85	140729
12.03	16.02	17.00	140269
12.04	13.20	18.30	141123
12.04	15.13	10.20	140844
12.04	15.56	5.50	140870
12.04	16.00	16.00	140436
12.05	13.18	18.40	140189
12.05	14.13	15.90	140730
12.05	15.10	7.80	140665
12.06	15.04	10.00	140496
12.06	15.07	19.90	140064
12.07	15.05	14.05	140662
12.07	15.07	12.01	140533
12.07	16.02	11.30	140270



ID	OD	Length	HC-CARGO	ID	OD	Length	HC-CARGO
12.07	16.02	14.00	140048	14.16	20.06	12.00	140202
12.08	14.09	13.90	140018	14.20	16.04	10.60	140908
12.08	15.07	16.90	140057	14.20	16.20	15.70	140323
12.08	15.55	5.50	332864	14.20	16.30	19.80	140330
12.09	14.03	14.00	142009	14.25	16.05	9.95	141161
12.09	16.00	12.00	140268	14.27	17.26	12.45	140321
12.09	16.11	14.00	140017	14.30	16.00	11.50	140033
12.10	13.50	11.50	140857#	14.30	16.00	13.70	140031
12.10	13.57	11.50	140854	14.30	16.03	16.90	140862
12.10	13.60	11.50	140030	14.31	19.10	12.50	142084
12.10	13.60	13.50	140029	14.32	17.62	22.20	140688
12.10	15.05	15.00	140043	14.33	18.05	18.00	140977
12.10	16.03	5.35	141198	14.34	16.04	20.39	140867
12.10	16.12	16.00	140009	14.35	17.26	12.50	141076
12.11	14.02	20.80	141095	14.35	17.55	19.00	140215
12.11	14.08	14.00	140036	14.36	16.02	10.00	140035
12.11	14.10	12.00	140500	14.36	16.02	23.50	140866
12.11	16.01	24.00	140049	14.36	19.17	19.10	140071
12.12	15.04	13.90	141031	14.37	16.03	16.40	140181
12.13	13.62	20.00	140782	14.37	19.17	24.60	140070
12.16	13.20	12.65	140262	14.39	16.00	18.00	140261
12.16	13.84	20.00	141056	14.43	17.31	13.20	141222
12.20	15.15	8.40	141115#	14.44	16.00	15.20	140865
12.23	14.36	15.70	140322#	14.52	18.00	17.00	140756
12.40	16.55	10.40	141237	15.00	18.50	11.20	140792
12.45	15.85	17.90	140996	15.00	20.00	19.85	140527
12.50	16.00	20.00	141206	15.03	19.02	19.90	140517
12.52	16.00	15.00	140310	15.03	20.00	16.00	140318
12.53	14.02	10.50	140583	15.10	22.04	12.70	140005
12.53	15.50	10.50	140333	15.11	18.20	22.20	140062
12.53	16.05	12.00	140311	15.18	18.12	11.90	140614
12.54	14.72	14.00	140326	15.72	19.58	9.80	140962
12.54	16.55	10.50	140328	15.90	17.50	14.20	140193
12.54	16.55	14.00	140325	15.90	19.10	15.20	140553
12.55	16.50	10.60	140423	15.95	19.13	18.00	140173
12.55	16.56	11.50	140003	15.95	19.15	14.00	140257
12.55	16.57	7.85	140984	15.96	19.11	11.90	140188
12.55	19.04	13.45	141077	15.97	19.20	21.90	140074
12.56	16.55	14.00	140012	15.99	19.15	18.90	140053
12.56	16.60	6.00	332820	16.00	19.15	15.00	140066
12.57	16.54	9.80	140856	16.00	20.00	10.00	140119
12.57	16.55	15.80	140016	16.00	22.30	17.05	141028
12.58	16.03	11.90	141135	16.05	21.10	16.90	140489
12.59	16.55	18.00	140010	16.09	18.00	22.00	140221#
12.60	14.00	19.00	141136	16.12	22.00	19.00	140109
12.62	14.00	19.30	140584	16.27	19.15	15.00	140264
12.63	14.10	10.50	140645	16.50	20.00	8.00	141013#
12.73	15.91	19.80	140217	16.67	19.60	19.00	140140
12.74	15.85	19.00	140052	17.00	19.00	19.70	140777
12.75	14.30	19.85	140185	17.00	20.00	8.00	140505
12.75	19.14	14.00	140656	17.05	21.05	20.00	140068
12.76	15.84	12.70	140054	17.07	21.05	22.00	140658
12.76	15.91	16.50	140144	17.08	21.05	24.00	140680
12.80	15.95	14.00	140657	17.50	22.35	28.50	140478
13.00	16.00	15.90	141127	17.60	20.90	7.40	142057
13.03	16.00	16.00	140519	17.60	21.60	9.40	140027
13.04	15.05	14.50	140042	17.93	22.10	7.05	141099
13.04	15.05	21.00	141243	18.00	20.08	25.95	142061#
13.80	19.20	20.15	140308	18.00	21.00	8.90	142011
13.98	18.00	16.40	140464	18.00	22.10	8.00	140251
13.99	18.03	19.90	140316	18.01	22.24	5.93	140928
14.00	17.00	15.00	140485	18.02	22.04	5.90	140711
14.00	17.00	16.00	140906	18.03	22.10	6.00	140252
14.00	18.00	17.00	140313	18.03	22.10	7.00	141096
14.03	17.00	16.20	140601	18.03	23.00	9.20	141017
14.03	17.50	19.00	140521	18.04	20.95	9.00	142083
14.04	16.02	16.00	141128	18.05	22.04	5.00	140498
14.04	20.02	10.00	140006	18.08	22.06	4.95	141160
14.05	18.03	16.00	140684	18.08	23.05	9.30	141197
14.06	17.06	19.70	140058	18.12	22.04	6.79	140927
14.06	18.03	14.00	140019	18.12	22.10	7.10	140869
14.07	18.05	20.15	140065	18.16	23.05	7.43	140654
14.08	17.58	15.00	140004	18.19	20.98	9.00	142034
14.08	20.03	17.00	140203	18.21	22.05	7.00	141139#
14.10	20.05	10.00	140855	18.80	20.00	11.00	140484

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



ID	OD	Length	HC-CARGO
18.98	23.01	19.80	140449
19.00	22.00	18.00	140776
19.00	22.30	6.30	140843
19.00	23.00	19.00	140520
19.00	23.02	25.00	140959
19.00	23.50	10.00	141264
19.03	22.05	9.00	140846
19.05	25.40	19.50	140403
19.06	22.55	14.00	140758
19.06	22.55	14.00	140758
19.10	22.25	20.50	140661
19.10	23.10	13.00	140026
19.10	25.45	19.00	141143
19.11	20.70	17.90	140059
19.11	23.08	9.80	140025
19.12	25.10	12.80	140151
19.13	23.05	13.20	140859
19.13	25.09	10.00	140020
19.15	22.20	20.35	140102
19.15	31.85	10.29	140404
19.30	22.60	19.25	140406
19.35	20.60	9.50	140944
20.02	24.03	5.00	140735
20.02	24.06	12.00	140067
20.04	24.05	16.00	140676
20.10	24.02	18.00	140679
20.10	24.02	18.00	B140679
20.12	25.12	9.25	140995
20.20	25.10	10.65	141138
20.31	24.00	13.90	140201
20.35	26.50	12.50	140317
20.50	26.55	11.90	141141
21.03	25.00	11.80	141212
21.24	24.50	31.70	140477
21.30	24.40	25.00	140206
21.92	28.05	18.00	141097
22.00	26.00	11.95	140949
22.05	26.05	28.00	140170
22.07	26.00	5.19	141082
22.14	28.07	11.20	140111
22.22	28.60	31.75	140402
22.25	28.65	29.90	141144
22.34	26.70	5.50	142047
22.34	28.65	9.00	141048#
22.35	25.50	33.60	140746
22.35	26.70	9.00	140942
22.53	25.67	25.40	140214
23.05	28.50	3.95	141155
23.10	27.05	20.00	140397
23.55	27.00	5.85	140698#
23.90	29.30	5.95	140697
24.20	29.00	18.00	140452
24.90	32.00	17.85	140745
25.47	28.65	21.60	140212
25.50	28.66	17.30	140594
26.10	30.40	11.35	140256
26.10	32.10	11.60	140692
28.30	33.00	26.35	140154
28.35	32.25	10.00	140850
28.56	31.77	13.00	140659
30.10	35.00	22.95	140778
35.80	39.50	47.80	141003
			140104
			140528
			140531
			140537
			140540
			140541
			140590
			140592
			140593
			140646
			140827

## Mounting Bushings



### Type B



ID	OD	Length	HC-CARGO
8.00	13.50	20.00	136461
8.60	15.30	15.30	134278
12.30	18.08	22.00	137343
12.50	21.20	25.00	138240
12.70	22.23	20.30	232737
13.40	21.30	27.00	139968

### Type C



ID	OD	Length	HC-CARGO
8.40	14.00	13.00	135216
8.00	11.00	10.25	142089
10.00	12.85	11.50	142092
10.10	16.60	16.00	134676
10.50	15.50	18.30	234825
11.00	14.00/21.50	8.10	138089
11.00	18.60	26.00	234713

### Type D



ID	OD	Length	HC-CARGO
	18.00	21.00	233574
10.00	16.00	21.00	137497
10.35	18.00/21.90	21.10	138091
10.60	18.00	20.00	138244

### Type F



ID	OD	Length	HC-CARGO
	18.00	40.00	236539
	18.02	20.00	137575
M10	18.00	19.00	235788



### Type G



ID	OD	Length	HC-CARGO
.....	18.50	21.00	234835

### Type H



ID	OD	Length	HC-CARGO
.....	21.00	32.00	138087

### Type J



ID	OD	Length	HC-CARGO
10.50	18.00	13.00	136932
10.50	18.00	16.00	134792

### For French Alternators - Steel Bushings



ID	OD	Length	HC-CARGO
10.20	16.50	12.00	610060
16.50	25.00	12.00	610052

### Mounting Bushing Kit



ID	OD	Length	HC-CARGO
8.00	10.80	8.00	132573
8.00	15.00	25.00	131820
8.15	15.00	56.00	133641
8.20	15.00	51.00	131821
10.40	18.50	12.20	137756
10.50	18.30	14.90	137757
M10	16.60	12.00	131606



## Needle Bearings

Bosch

Pkg. 10



### 140197 FAG Needle Bearing

Replacing: 2000910002, 2000910009

Servicing: 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023

ID 18.00, OD 24.00, Height 16.00

Pkg. 5



### 140198 FAG Needle Bearing

Replacing: 2000910005

Servicing: 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023

ID 34.00, OD 48.00, Height 15.00

Pkg. 10



### 140242 FAG Needle Bearing

Replacing: 9001140384, C6VF11135A, C6VY11135A, D6AF11448AA, D6AZ11135A, E4FZ11135A, MC189A, 83222270, 9440923, MC189A

Servicing: PMGR SERIES, M78, M79, 00010DB98E, 0001107037, 0001107048, 0001107056, 0001107100, 0001107101, 0001107108, 0001107112, 1027772, 1057652, 1057654, 1057661, 1058429, 1061267, 1061272, 1073093, 1076141, 1085273, 1087280, 63112003, 63113001, 63223538, 63280071, 63293538, 944280166000, 63111006, 63111023, 63111043, 00E091, 09000794, 09000801, 10455506, 10461334, 110397, 110566, 111089, 112161, 112847, 113136

ID 12.00, OD 16.00, Height 10.00

Pkg. 10



### 140375 5★ Needle Bearing

Replacing: 9003330902

Servicing: 9000331201, 9000331203

ID 18.00, OD 24.00, Height 12.00

Pkg. 10



### 140482 FAG Needle Bearing

Replacing: 0399C74008, 1000917003

Servicing: 0001106023, 0001106024, 0001107030, 0001107032, 0001107059, 0001107064, 0001107075, 0001107078, D7R17, D7R19

ID 10.00, OD 14.00, Height 10.00

Pkg. 10



### 140494 FAG Needle Bearing

Replacing: 6033AC0093

Servicing: 0001223003, 0001223007, 0001223024

ID 12.00, OD 18.00, Height 12.00

Pkg. 5



### 140617 5★ Needle Bearing

Replacing: 9001140359

Servicing: 0001107072, 0001109001, 0001109002, 0001110003, 0001110005, 0001110017, 0001110025, 0001110026

ID 5.00, OD 9.00, Height 8.84

Pkg. 10



### 140620 FAG Needle Bearing

Replacing: 1000917001, E90F11448BA

Servicing: 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106022, 0001106023, 1008838, 1011331, 1018883, 1030151, 1057652, 1057654, 1057661, 1063999, 1064000, 1067622, 1076141

ID 6.00, OD 10.00, Height 8.00, Lock ring w/o, Oil seals w/o, Teflon ring w/o

Pkg. 5



### 140717 5★ Needle Bearing

Replacing: 2000910004

Servicing: 0001510001, 0001510002, 0001510003, 0001510004, 0001510005, 0001510006, 0001510008, 0001510009

ID 19.05, OD 25.05, Height 15.88

Pkg. 5



### 140733 5★ Needle Bearing

Servicing: 0001420001, 0001420012

ID 22.00, OD 28.00, Height 20.00

Pkg. 5



### 140903 5★ Needle Bearing

Replacing: 9003330901

Servicing: 9000331201

ID 10.00, OD 17.00, Height 12.00



Pkg. 10



**140904** ★ Needle Bearing  
**Replacing:** 6033AC0105, 9003330903  
**Servicing:** 0001218157, 0001218757, 0001223001, 0001223009, 0001223010, 0001223014, 0001223021, 0001230002  
**ID 12.00, OD 18.00, Height 16.00**

Pkg. 5



**140935** ★ Needle Bearing  
**Replacing:** 1000917006  
**Servicing:** 0001107031, 0001107032, 0001107049, 0001107415, 0001107429, 0001107431, 0001107432, 0001107437  
**ID 9.00, OD 13.00, Height 10.00**



**140971** ★ Needle Bearing  
**Replacing:** 2000910013  
**Servicing:** 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009  
**ID 15.88, OD 23.88, Height 21.88**  
*Closed end.*

Pkg. 5



**140972** **FAG** Needle Bearing  
**Replacing:** 2000910012, 9000910012, 2114-1411  
**Servicing:** 0001370001, 0001370002, 0001370003, 0001370004, 0001371001, 0001371004, 0001371005, 0001371006  
**ID 22.00, OD 28.00, Height 16.00**

Pkg. 5



**141015#** ★ Needle Bearing  
**Replacing:** 2000910011  
**Servicing:** 0001370001, 0001370002, 0001371001, 9000453029, 9000453064, 9000453065, 9000453066, 9000453067  
**ID 15.88, OD 20.64, Height 19.05**

Pkg. 5



**141040** ★ Needle Bearing  
**Replacing:** 6033AC0352  
**Servicing:** 0001330001, 0001330003, 0001330004, 0001330005, 0001330006, 0001330007, 0001330008, 0001330011  
**ID 30.00, OD 37.00, Height 16.00**

Pkg. 5



**141054** ★ Needle Bearing  
**Replacing:** 1000917000, 1000917005  
**Servicing:** 0001105205, 0001107070, 0001107071, 0001108113, 0001108114, 0001108133, 0001108174, 0001108175  
**ID 12.00, OD 16.00, Height 14.00**  
**Alternative no.: 335930**

Pkg. 5



**141084** ★ Needle Bearing  
**Replacing:** 1000917007  
**Servicing:** 0001121022, 0001121023, 0001124020, 0001124021, 0001125016, 0001125017, 0001125018, 0001125019  
**ID 30.50, OD 37.00, Height 15.90**

Pkg. 10



**141256** ★ Needle Bearing  
**Replacing:** 1000917008, 141256  
**Servicing:** 0001107404, 0001107405, 0001107410, 0001107418, 0001107429, 0001107435, 0001107437, 0001107501  
**ID 5.50, OD 8.50, Height 6.85**

Pkg. 10



**142019** ★ Needle Bearing  
**Replacing:** 6033AC5059, HK2512  
**Servicing:** 0001241001, 0001241003, 0001241007, 0001241014, 0001241015, 6033AC5060  
**ID 25.00, OD 32.00, Height 12.00**

**NEW PRODUCT**  
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**142124** Needle Bearing  
**Replacing:** 0399C74005, 1000917009, 1000917010, 1000917012  
**Servicing:** 0001120402, 0001120403, 0001121402, 0001121403, 0001121408, 0001121409, 0001121416, 0001121417  
**Bushing w/o**

Pkg. 5

**NEW PRODUCT**  
[www.hc-cargo.com](http://www.hc-cargo.com)

**335930** Needle Bearing  
**Replacing:** 1000917000, 1000917005  
**Servicing:** 0001109315, 0001109324, 0001115088, 0001105205, 0001107070, 0001107071, 0001108113, 0001108114  
**ID 12.00, OD 16.00, Height 14.00**  
**Alternative no.: 141054** ★



## Chrysler

Pkg. 10

**140240 FAG** Needle Bearing

**Replacing:** UMB115, UMB129, CN1467, 9433301, 9437211, 9437221, 9437222

**Servicing:** 10DN SERIES, A127 W/ VACUUM PUMP, 24188A, 24188C, 24230A, 24230B, 24264A, 24246A, 24256A, 24256C, 24273A, 24274A, 24277A, 24294A, 1100619, 1100653, 1100654, 1100721, 1100722, 1100732, 1100735, 1100773, 1100806, 1100821, 1100822

ID 17.00, OD 23.80, Height 17.40  
Open end.

Pkg. 5

**140241** Needle Bearing

**Replacing:** 78625, 1975322, 3874074

**Servicing:** 15SI, 1100183, 1100184, 1100187, 1100190, 1100192, 1100193, 1100194, 1100195, 1100219, 1100223, 1100224

ID 17.00, OD 23.80, Height 20.60  
Closed end.

## Delco Eur.

Pkg. 5

**140115 FAG** Needle Bearing

**Replacing:** 3472455, 7982870

**Servicing:** 014, 018, 022, 023, 024, 026, 027, 028, 032, 033, 035, 037, 038, 042, 048, 049, 050, 051, 052, 053

ID 11.00, OD 17.50, Height 16.50  
Closed end.

Pkg. 10

**140242 FAG** Needle Bearing

**Replacing:** 9001140384, C6VF11135A, C6VY11135A, D6AF11448AA, D6AZ11135A, E4FZ11135A, MC189A, 83222270, 9440923, MC189A

**Servicing:** PMGR SERIES, M78, M79, 00010DB98E, 0001107037, 0001107048, 0001107056, 0001107100, 0001107101, 0001107108, 0001107112, 1027772, 1057652, 1057654, 1057661, 1058429, 1061267, 1061272, 1073093, 1076141, 1085273, 1087280, 63112003, 63113001, 63223538, 63280071, 63293538, 944280166000, 63111006, 63111023, 63111043, 00E091, 09000794, 09000801, 10455506, 10461334, 110397, 110566, 111089, 112161, 112847, 113136

ID 12.00, OD 16.00, Height 10.00

Pkg. 5

**140468 5+** Needle Bearing

**Replacing:** 9003330906, HK0810, TLA810Z

**Servicing:** 0001230006, 0001230012, 0001230014, 0001231002, 0001231008, 0001231011, 0001231013, 0001231017, 9000719, 9000735, 9000751, 9000756, 9000758, 9000762, 9000763, 9000773, 9000796, 21020892, 21020893

ID 8.00, OD 12.00, Height 10.00

Pkg. 5

**140751 5+** Needle Bearing

**Replacing:** 9441510

**Servicing:** PG100, -150, 09000756, 21020892, 21020893, 21021366, 21021648, 9000751, 9000756, 9000758, 96208782, 9000772

ID 8.00, OD 12.00, Height 7.88

## Delco Kor.

Pkg. 10

**141247** Needle Bearing

**Servicing:** 110397, 112161

ID 9.00, OD 13.00, Height 8.00

## Delco US

Pkg. 10

**140120 FAG** Needle Bearing

**Replacing:** 2095037, 2098512, 3755184, D20Z10A304A, 58734, 54160827, 54207267, UMB113, 1957004, 7451326, 7451763, 7451931, 7454763, 9418076, 9424225, 9427225, 9432068, 9436831, 9437305

**Servicing:** 10SI, 12SI, 15SI, 17SI, 27SI, A127, 0724403000, 1012257, 1100711, 86AB10300EA, 86VB10300A2, 86VB10300A2A, 873F10300AAA, 92VB10300BA, 24169A, 54022053, 54022057, 54022142, 54022147, 54022148, 54022178, 54022183, 54022238, 54022264, 10479823, 10479825, 10479826, 10479827, 10479832, 10479833, 10479834, 10479858, 10479860, 10479862

ID 17.00, OD 23.80, Height 17.40  
Closed end.

Pkg. 5

**140136 FAG** Needle Bearing

**Replacing:** 23120-Z9013, 1-09202-0070, 6206-002-00X0, 6206-002-20X0

**Servicing:** 20SI, 27SI TYPE 200, 0-35000-3000, 0-35000-3013, 0-35000-3020, 0-35000-3050, 0-35000-3070, 0-35000-3150, 0-35000-3180, 1100056, 1100057, 1100061, 1100062, 1100066, 1100067, 1100071, 1100072, 1100073, 1100075, 1100076, 0201-102-1011, 0201-102-1111, 0201-102-1210, 0201-102-1221, 0201-102-1310, 0201-102-1410

ID 17.00, OD 23.80, Height 32.00  
Closed end.

Pkg. 5

**140228** Needle Bearing

**Replacing:** 9436064

**Servicing:** 25SI, 27SI, 10459002, 10459003, 10459004, 10459005, 10459006, 10459007, 10459008, 10459009, 10459010, 1100094

ID 22.20, OD 30.20, Height 20.50



Pkg. 10



### 140240 **FAG** Needle Bearing

Replacing: CN1467, UMB115, UMB129, 9433301, 9437211, 9437221, 9437222

Servicing: 10DN SERIES, A127 W/ VACUUM PUMP, 24188A, 24188C, 24230A, 24230B, 24264A, 24246A, 24256A, 24256C, 24273A, 24274A, 24277A, 24294A, 1100619, 1100653, 1100654, 1100721, 1100722, 1100732, 1100735, 1100773, 1100806, 1100821, 1100822

ID 17.00, OD 23.80, Height 17.40  
Open end.

Pkg. 5



### 140241 Needle Bearing

Replacing: 1975322, 3874074, 78625

Servicing: 15SI, 1100183, 1100184, 1100187, 1100190, 1100192, 1100193, 1100194, 1100195, 1100219, 1100223, 1100224

ID 17.00, OD 23.80, Height 20.60  
Closed end.

Pkg. 5



### 140751 Needle Bearing

Replacing: 9441510

Servicing: PG100, -150, 09000756, 21020892, 21020893, 21021366, 21021648, 9000751, 9000756, 9000758, 96208782, 9000772

ID 8.00, OD 12.00, Height 7.88

Pkg. 5



### 140772 Needle Bearing

Replacing: 10472936, 9439542, 101414

Servicing: 15SI/116, 21SI, 10479924, 10479925, 10479926, 10479927, 10479929, 10479930, 1101194, 1101205, 1101439, 1101440

ID 17.00, OD 23.80, Height 22.00  
w/ double seal. w/ closed end.

## Ford US

Pkg. 10



### 140120 **FAG** Needle Bearing

Replacing: 2095037, 2098512, 3755184, D20Z10A304A, 58734, 54160827, 54207267, UMB113, 1957004, 7451326, 7451763, 7451931, 7454763, 9418076, 9424225, 9427225, 9432068, 9436831, 9437305

Servicing: 10SI, 12SI, 15SI, 17SI, 27SI, A127, 0724403000, 1012257, 1100711, 86AB10300EA, 86VB10300A2, 86VB10300A2A, 873F10300AAA, 92VB-10300BA, 24169A, 54022053, 54022057, 54022142, 54022147, 54022148, 54022178, 54022183, 54022238, 54022264, 10479823, 10479825, 10479826, 10479827, 10479832, 10479833, 10479834, 10479858, 10479860, 10479862

ID 17.00, OD 23.80, Height 17.40  
Closed end.

Pkg. 10



### 140620 **FAG** Needle Bearing

Replacing: 1000917001, E90F11448BA

Servicing: 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106022, 0001106023, 1008838, 1011331, 1018883, 1030151, 1057652, 1057654, 1057661, 1063999, 1064000, 1067622, 1076141

ID 6.00, OD 10.00, Height 8.00,  
Lock ring w/o, Oil seals w/o, Teflon ring w/o

Pkg. 5



### 140920 **FAG** Needle Bearing

Replacing: F8RU11000AA, SCE116

Servicing: M001T80381, M1T80381, M002T80582, M2T80582, 1810A062, 1810A143, M000T86081, M001T30271, M002T84771

ID 17.46, OD 22.23, Height 9.40

Alternative no.: 335934 **FAG**

Pkg. 10



### 141209 **FAG** Needle Bearing

Servicing: 1120215, 1140110, 1151641, 1197912, 1209193, 357T11000AC, 357T11000AD, 1214371, 1233277, 1386127

ID 14.29, OD 19.05, Height 12.70

Pkg. 5

## NEW PRODUCT

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### 335934 **FAG** Needle Bearing

Replacing: SCE116

Servicing: M002T80582, M2T80582

ID 17.46, OD 22.23, Height 9.40

## Hitachi

Pkg. 5



### 140381 Needle Bearing

Replacing: 324592000000, 324592003

Servicing: 443115142740, 83355051, 9142700, 9142702, 9142704, 9142708, 9142709, 9142720, 9142722, 9142723

ID 22.00, OD 28.00, Height 12.00

Pkg. 5



### 140457 **FAG** Needle Bearing

Replacing: 2130-3451

Servicing: S13-49A

ID 20.00, OD 26.00, Height 12.00

Pkg. 5



### 140495 **FAG** Needle Bearing

Replacing: 2250-1451

Servicing: S13-33, S13-33A, S13-33B, S13-37, S13-37B, S13-38B, S13-41, S13-41A, S13-45A, S13-45B, S13-68

ID 15.00, OD 21.00, Height 12.00

Pkg. 5



### 140972 **FAG** Needle Bearing

Replacing: 2000910012, 9000910012, 2114-1411

Servicing: 0001370001, 0001370002, 0001370003, 0001370004, 0001371001, 0001371004, 0001371005, 0001371006

ID 22.00, OD 28.00, Height 16.00



## Leece Neville

Pkg. 5

**140241** Needle Bearing

Replacing: 1975322, 3874074, 78625

Servicing: 15SI, 1100183, 1100184, 1100187, 1100190, 1100192, 1100193, 1100194, 1100195, 1100219, 1100223, 1100224

ID 17.00, OD 23.80, Height 20.60  
Closed end.

## Lucas

Pkg. 10

**140120 FAG** Needle Bearing

Replacing: 2095037, 2098512, 3755184, D20Z10A304A, 58734, 54160827, 54207267, UMB113, 1957004, 7451326, 7451763, 7451931, 7454763, 9418076, 9424225, 9427225, 9432068, 9436831, 9437305

Servicing: 10SI, 12SI, 15SI, 17SI, 27SI, A127, 0724403000, 1012257, 1100711, 86AB10300EA, 86VB10300A2, 86VB10300A2A, 873F10300AAA, 92VB10300BA, 24169A, 54022053, 54022057, 54022142, 54022147, 54022148, 54022178, 54022183, 54022238, 54022264, 10479823, 10479825, 10479826, 10479827, 10479832, 10479833, 10479834, 10479858, 10479860, 10479862

ID 17.00, OD 23.80, Height 17.40  
Closed end.

Pkg. 10

**140240 FAG** Needle Bearing

Replacing: CN1467, UMB115, UMB129, 9433301, 9437211, 9437221, 9437222

Servicing: 10DN SERIES, A127 W/ VACUUM PUMP, 24188A, 24188C, 24230A, 24230B, 24264A, 24246A, 24256A, 24256C, 24273A, 24274A, 24277A, 24294A, 1100619, 1100653, 1100654, 1100721, 1100722, 1100732, 1100735, 1100773, 1100806, 1100821, 1100822

ID 17.00, OD 23.80, Height 17.40  
Open end.

## Magneti Marelli

Pkg. 10

**140242 FAG** Needle Bearing

Replacing: 9001140384, C6VF11135A, C6VY11135A, D6AF11448AA, D6AZ11135A, E4FZ11135A, MC189A, 83222270, 9440923, MC189A

Servicing: PMGR SERIES, M78, M79, 00010DB98E, 0001107037, 0001107048, 0001107056, 0001107100, 0001107101, 0001107108, 0001107112, 1027772, 1057652, 1057654, 1057661, 1058429, 1061267, 1061272, 1073093, 1076141, 1085273, 1087280, 63112003, 63113001, 63223538, 63280071, 63293538, 944280166000, 63111006, 63111023, 63111043, 00E091, 09000794, 09000801, 10455506, 10461334, 110397, 110566, 111089, 112161, 112847, 113136

ID 12.00, OD 16.00, Height 10.00



Pkg. 5

**140483** Needle Bearing

Servicing: 50246416, 63221801, 63221831, 63222000, 63222001, 63222030, 63222031, 63222034, 63222036, 63222038

ID 12.00, OD 18.00, Height 14.00



Pkg. 10

**140738** Needle Bearing

Replacing: S933P70605, S933P70669

Servicing: M001T90081, M002T24081, M002T25083, M002T25281, M002T25282, M002T25481, M002T25581, M002T25681

ID 10.00, OD 15.00, Height 15.00  
Closed end. w/ rubber seal.

## Mitsuba

Pkg. 5

**140457 FAG** Needle Bearing

Replacing: 2130-3451

Servicing: S13-49A

ID 20.00, OD 26.00, Height 12.00

Pkg. 5

**140468** Needle Bearing

Replacing: 9003330906, HK0810, TLA810Z

Servicing: 0001230006, 0001230012, 0001230014, 0001231002, 0001231008, 0001231011, 0001231013, 0001231017, 9000719, 9000735, 9000751, 9000756, 9000758, 9000762, 9000763, 9000773, 9000796, 21020892, 21020893

ID 8.00, OD 12.00, Height 10.00

Pkg. 5

**140768** High Performance Needle Bearing

Replacing: 949105-0110

Servicing: 028000-6490, 028000-6491, 028000-6492, 028000-6493, 028000-6494, 028000-6495, 028000-7091

ID 12.48, OD 17.02, Height 17.00

## Mitsubishi

Pkg. 5

**140514** Needle Bearing

Replacing: S933P65270

Servicing: M002T92071, M002T92071A, M002T92171, M002T92172, M002T92172A, M2T92071, M2T92071A, M2T92171

ID 12.00, OD 17.00, Height 12.00

Pkg. 5

**140876** Needle Bearing

Replacing: TLA141912ZE01

Servicing: M002T66873, M002T67884, M2T66873, M2T67884, M002T61071, M002T61072, M002T61171, M002T62271

ID 14.00, OD 18.72, Height 12.00



Pkg. 5



### 140920 **FAG** Needle Bearing

Replacing: F8RU11000AA, SCE116

Servicing: M001T80381, M1T80381, M002T80582, M2T80582, 1810A062, 1810A143, M000T86081, M001T30271, M002T84771

ID 17.46, OD 22.23, Height 9.40

Alternative no.: 335934 **FAG**



### 141065 Needle Bearing

Servicing: M008T62671, M008T75074ZT, M8T62671, M8T75074ZT, M008T50071, M008T50072, M008T70371, M008T71571

ID 20.50, OD 27.00, Height 9.50

Pkg. 5



### 141090 Needle Bearing

Servicing: M002T85271, M002T87271, M002T87271ZT, M002T88372, M002T88471, M002T88472, M002T88473, M002T88971

ID 10.00, OD 15.05, Height 11.60x15.40  
Closed end.

Pkg. 5



### 331936 Needle Bearing

Manufacturer: IDA

Servicing: M001T93071, M001T93371ZC, M001T93571, M1T93071, M1T93171, M1T93371ZC, M1T93571, M001T93171ZC

ID 14.00, OD 20.00, Height 13.90

Pkg. 5

## NEW PRODUCT

[www.hc-cargo.com](http://www.hc-cargo.com)

### 335934 **FAG** Needle Bearing

Replacing: SCE116

Servicing: M002T80582, M2T80582

ID 17.46, OD 22.23, Height 9.40

Paris Rhone/Valeo

Pkg. 5



### 140919 Needle Bearing

Replacing: 186448

Servicing: D6RA107, D6RA110, D6RA138, D6RA167, D6RA187, D6RA188, D6RA67, D6RA70, D6RAD183, D6RADP359, D6RAP229

ID 10.00, OD 14.00, Height 14.00  
Closed end.

Alternative no.: 335932

Pkg. 5



### 141001 Needle Bearing

Servicing: 188839, D7G11, D7R1, D7R13, D7R16, D7R17, D7R18, D7R2, D7R20, D7R25, D7R3, D7R4, D7R40, D7R45

ID 10.00, OD 14.00, Height 12.00

Pkg. 10



### 141168 Needle Bearing

Servicing: 626002, D6RA100, D6RA114, D6RA167, D6RA181, D6RA67, D6RA81, D6RA91

ID 4.00, OD 8.00, Height 7.90

Pkg. 10



### 141225 Needle Bearing

Servicing: 458389, D6GS11, D6GS12M, D6GS19, D7GS9, TS12ER20, TS18E1, TS18ER121, TS18ER123, 191335, D6GS12

ID 29.50, OD 36.70, Height 13.30

Pkg. 5



### 142003 Needle Bearing

Servicing: TS10E26, D7E55

ID 26.10, OD 33.00, Height 13.70

Pkg. 5

### 335932 Needle Bearing

Replacing: 186448

Servicing: D6RA107, D6RA110, D6RA138, D6RA167, D6RA187, D6RA188, D6RA67, D6RA70, D6RAD183, D6RADP359, D6RAP229

ID 10.00, OD 14.00, Height 14.00  
Closed end.

Alternative no.: 140919

Sawafuji

Pkg. 5



### 140136 **FAG** Needle Bearing

Replacing: 1-09202-0070, 23120-Z9013, 7451782, 9437171, 6206-002-00X0, 6206-002-20X0

Servicing: 20SI, 27SI TYPE 200, 0-35000-3000, 0-35000-3013, 0-35000-3020, 0-35000-3050, 0-35000-3070, 0-35000-3150, 0-35000-3180, 1100056, 1100057, 1100061, 1100062, 1100066, 1100067, 1100071, 1100072, 1100073, 1100075, 1100076, 0201-102-1011, 0201-102-1111, 0201-102-1210, 0201-102-1221, 0201-102-1310, 0201-102-1410

ID 17.00, OD 23.80, Height 32.00  
Closed end.



## Needle Bearings

ID	OD	Height	HC-CARGO
4.00	8.00	7.90	141168
5.00	9.00	8.84	140617
5.50	8.50	6.85	141256
6.00	10.00	9.00	140619
6.00	10.00	8.00	140620
8.00	12.00	10.00	140468
8.00	12.00	7.88	140751
9.00	13.00	10.00	140935
9.00	13.00	8.00	141247
10.00	14.00	10.00	140482
10.00	15.00	15.00	140738
10.00	17.00	12.00	140903
10.00	14.00	14.00	140919
10.00	14.00	12.00	141001
10.00	15.05	11.60x15.40	141090
10.00	14.00	14.00	335932
11.00	17.50	16.50	140115
11.00	15.50	14.30	140767
12.00	16.00	10.00	140242
12.00	18.00	14.00	140483
12.00	18.00	12.00	140494
12.00	17.00	12.00	140514
12.00	18.00	16.00	140904
12.00	16.00	14.00	141054
12.00	16.00	14.00	142065
12.00	16.00	14.00	335930
12.48	17.02	17.00	140768
14.00	20.00	12.00	140503
14.00	18.72	12.00	140876
14.00	20.00	13.90	331936
14.29	19.05	12.70	141209
15.00	21.00	12.00	140495
15.88	23.88	21.88	140971
15.88	20.64	19.05	141015#
17.00	23.80	17.40	140120
17.00	23.80	32.00	140136
17.00	23.80	17.40	140240
17.00	23.80	20.60	140241
17.00	23.80	22.00	140772
17.00	23.80	17.00	140773
17.00	24.00	20.00	141086
17.46	22.23	9.40	140920
17.46	22.23	9.40	335934
18.00	24.00	16.00	140197
18.00	24.00	12.00	140375
18.00	24.00	16.00	140902
19.05	25.05	15.88	140717
20.00	26.00	12.00	140457
20.50	27.00	9.50	141065
22.00	28.00	12.00	140381
22.00	28.00	20.00	140733
22.00	28.00	20.00	140901
22.00	28.00	16.00	140972
22.20	30.20	20.50	140228
25.00	32.00	12.00	142019
25.50	32.02	14.70	335319
26.10	33.00	13.70	142003
29.50	36.70	13.30	141225
30.00	37.00	16.00	141040
30.50	37.00	15.90	141084
34.00	48.00	15.00	140198



## O-rings



ID	Thickness	HC-CARGO	Pkg.
3.70	1.80	230378	10
4.00	2.00	134485	10
5.00	2.00	134484	10
5.70	1.55	233057	10
8.00	2.00	134486	10
8.00	2.50	135498	10
8.65	1.75	233048	10
10.00	2.00	134487	10
13.00	3.00	137730	10
25.00	2.00	132660	5
26.00	2.00	137038	10
28.00	2.00	135357	10
32.00	2.00	138007	10
32.00	4.00	135399	10
34.00	1.70	139737	5
34.65	1.75	233712	10
35.00	2.00	134612	10
38.00	2.50	136681	5
40.00	2.50	230634	10
43.00	2.00	134489	10
43.00	2.50	132893	10
47.30	2.60	134716	10
48.00	2.50	132891	10
52.50	4.85	139205	10
53.50	1.95	232432	5
56.00	2.00	133040	10
61.00	2.00	132659	5
62.00	2.00	134490	10
63.50	1.60	133717	5
64.00	2.50	133597	5
67.50	2.15	330643	10
69.00	2.00	132892	10
70.00	1.50	138433	10
70.00	2.00	137717	10
70.00	2.50	137154	5
71.00	2.00	132900	10
71.00	3.00	138193	10
72.00	2.00	133598	5
72.00	2.40	235757	10
80.00	1.50	230147	5
83.00	3.00	136690	5
86.90	1.50	133965	5
92.00	3.00	136630	5
95.00	2.50	233084	10
100.00	2.00	134965	10
105.00	2.00	230447	10
105.00	4.00	136340	10
106.00	4.50	136431	5
119.00	3.90	234941	10
122.50	3.00	334026	5
123.00	3.00	136691	5
132.00	2.30	330318	10
132.00	3.50	335736	10
133.80	2.60	331675	10
136.00	3.50	330047	10
155.00	2.30	234669	5
	2.00	134488	10
	2.00	237603	5
	3.00	134613	10



## Washers

### Sealing Rings



HC-CARGO	ID	OD	Thickness	Material
190823	6.00	10.00	1.00	Copper
190824	6.30	12.00	1.00	Copper
190828	8.00	14.00	1.00	Copper
190826	8.20	12.00	1.00	Copper
190807	12.00	16.00	1.50	Aluminium
190808	12.00	16.00	1.50	Copper
190809	12.00	18.00	1.50	Copper
190810	13.00	18.00	1.50	Copper
190811	14.00	18.00	1.50	Aluminium
190812	14.00	18.00	1.50	Copper
190815	14.00	20.00	1.50	Copper
190813	14.00	20.00	1.50	Aluminium
190816	16.00	20.00	1.00	Copper
190817	16.00	20.00	1.50	Copper
190819	18.00	22.00	1.50	Copper
191490	18.00	26.00	1.50	Copper
190821	20.00	26.00	1.50	Copper
190822	22.00	27.00	1.50	Copper
134769	22.30	27.20	1.60	Fiber

### Various Washers



HC-CARGO	ID	OD	Thickness	Material
132581	5.00	14.00	1.55	Plastic
132582	6.35	15.15	3.55	Plastic
135634	15.50	23.00	2.10	
134708	18.00	28.00	4.00	Rubber
135469	18.00	28.00	4.00	Neoprene
135470	18.00	30.00	4.00	Neoprene
134709	27.85	58.80	1.60	Rubber

### Insulator Washers



HC-CARGO	ID	OD	Thickness	Material
191346	4.00	13.00	1.00	Red fiber
191351	5.00	12.00	1.00	Red fiber
191352	5.00	16.00	1.00	Red fiber
191344	6.00	10.00	1.00	Red fiber
191350	6.00	18.00	1.50	Red fiber
191442#	7.50	14.00	3.00	Red fiber
191353	8.00	12.00	0.50	Red fiber
191345	8.00	20.00	2.00	Red fiber
191349	10.00	16.00	1.00	Red fiber
191648	10.00	25.00	2.00	Red fiber
191348	12.20	22.00	1.00	Red fiber
191532	14.00	34.00	2.00	Red fiber
191430	14.50	29.00	1.00	Red fiber
134764	18.50	23.50	1.60	Fiber
134770	20.50	25.80	1.60	Fiber
191355	20.50	35.00	1.50	Red fiber
191354	45.00	51.00	1.00	Red fiber



## Oil Seals



HC-CARGO	ID	OD	Height	Pkg.
138369	11.00	28.00	7.50	5
132663	11.50/11.50	25.40/25.40	4.50/5.00	1
133513	14.00	30.00	7.00	5
137803	14.00	30.00	7.00	1
132664	14.00/14.00	30.20/30.30	5.00/4.50	1
132662	14.80	30.00	5.00	1
132297	14.80	32.15	6.55	5
132549	15.50	30.10	7.00	10
237688	15.80	30.00	7.00	10
133524	17.00	30.00/37.00	8.00	10
132682	17.46	34.80	6.35	10
134481	18.30	30.20	6.95	5
132382	18.50	34.90	9.50	10
135940#	18.50	42.15	6.50	10
233591	18.75	34.20	4.90	1
135575	19.00	27.00	6.00	5
133523	19.00	32.00	6.00	5
135579	19.00	32.00	7.00	5
135642	19.35	35.20	6.45	5
230448	20.09	32.00	6.30	1
230759	21.00	38.00	2.45	5
231573	21.60	32.15	6.70	5
136665	22.00	35.00	7.00	5
139895	22.20	28.60	3.80	5
236453	23.00	42.00	3.25	10
135199	24.30	35.10	5.90	10
132981	28.00	35.00	3.10	5
335738	28.00	38.00	2.50	10
133065	28.00	47.00	7.00	2
133065	28.00	47.00	7.00	2
235142	28.00	47.00	7.00	5
335737	29.00	40.00	2.50	10
230673	29.70	39.00	2.85	500
136857	30.00	38.00	2.60	10
135851	30.00	42.10	8.00	5
133066	31.50	52.20	7.30	1
232855	31.85	41.45	5.65	1
131448	33.00	45.00	7.00	10
135372	35.00	47.00	7.00	5









# Assortments

Edition 2023-2025





## Assortment Box and Inserts

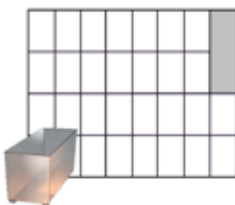


**200663** Std pkg 6  
Prof Service Case, empty.  
Can be divided using inserts.  
Dim.: 340.00x265.00x57.00 mm.  
Polypropylene (Unbreakable).

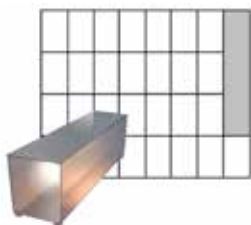
### INSERTS FOR ASSORTMENT BOXES Polypropylene (Unbreakable)



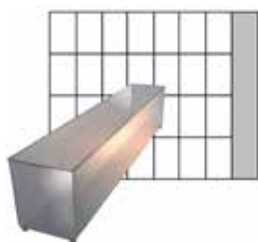
**200664** Std pkg 96  
Dim.: 55.00x40.00x45.00 mm.



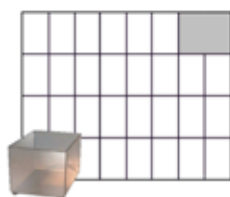
**200665** Std pkg 48  
Dim.: 110.00x40.00x45.00 mm.



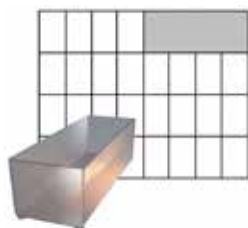
**200666** Std pkg 30  
Dim.: 165.00x40.00x45.00 mm.



**200667** Std pkg 24  
Dim.: 220.00x40.00x45.00 mm.



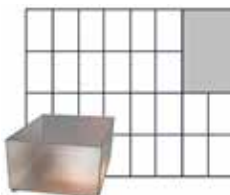
**200668** Std pkg 48  
Dim.: 55.00x80.00x45.00 mm.



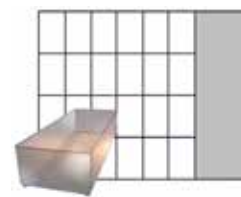
**200669** Std pkg 24  
Dim.: 55.00x160.00x45.00 mm.



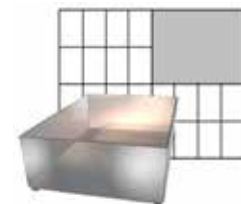
**200670** Std pkg 15  
Dim.: 55.00x240.00x45.00 mm.



**200671** Std pkg 24  
Dim.: 110.00x80.00x45.00 mm.



**200672** Std pkg 12  
Dim.: 220.00x80.00x45.00 mm.



**200673** Std pkg 12  
Dim.: 110.00x160.00x45.00 mm.



**200676**  
Display for 4 Profi Service Cases.  
Dim.: 330.00x360.00x200.00 mm



**200693**  
Display for 4 Profi service cases.  
Dim.: 313.00x373.00x265.00 mm  
Can be assembled horizontally or vertically.



## Solenoid Parts / Denso

803004

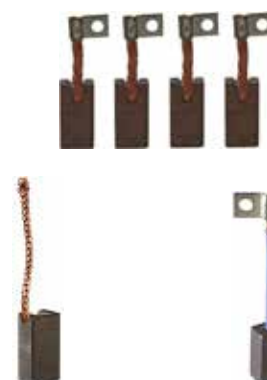
HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.
131830	..... Copper Contact Kit .....	2	139047	..... Contact Kit .....	2
131831	..... Copper Contact Kit .....	2	139494	..... Contact Kit .....	2
131832	..... Copper Contact Kit .....	2	139532	..... Contact Kit .....	2
131833	..... Copper Contact Kit .....	2	139046	..... Contact Kit .....	2
132563	..... Plunger .....	1			
132565	..... Contact Kit .....	2			
132567	..... Contact Kit .....	2			
132568	..... Contact Kit .....	2			
132570	..... Plunger .....	1			
133602	..... Contact Kit .....	2			
133634	..... Contact Kit .....	2			
133635	..... Contact Kit .....	2			
135384	..... Contact Kit .....	2			
135385	..... Contact Kit .....	2			



## Various Brushes / DC Motors

803005

HC-CARGO	Item	Qty.
140164	..... Brush .....	10
140408	..... Brush Set .....	4
140410	..... Brush Set .....	4
H106	..... Brush .....	6
H26	..... Brush .....	10
H54	..... Brush .....	10
H56	..... Brush .....	10
H5-6	..... Brush .....	10
PL5	..... Brush .....	6
SW126	..... Brush .....	10



## Bushings / Bosch

803012

HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.
140003	..... Bushing .....	10	140028	..... Bushing .....	10	140500	..... Bushing .....	10
140004	..... Bushing .....	10	140029	..... Bushing .....	10	140563	..... Bushing .....	10
140008	..... Bushing .....	10	140030	..... Bushing .....	10	140645	..... Bushing .....	10
140009	..... Bushing .....	10	140035	..... Bushing .....	10	B140250	..... Bushing .....	10
140010	..... Bushing .....	10	140140	..... Bushing .....	5			
140012	..... Bushing .....	10	140151	..... Bushing .....	5			
140016	..... Bushing .....	10	140203	..... Bushing .....	5			
140017	..... Bushing .....	10	140204	..... Bushing .....	10			
140018	..... Bushing .....	10	140208	..... Bushing .....	10			
140019	..... Bushing .....	10	140249	..... Bushing .....	10			
140020	..... Bushing .....	5	140251	..... Bushing .....	10			
140025	..... Bushing .....	10	140252	..... Bushing .....	10			
140026	..... Bushing .....	5	140261	..... Bushing .....	10			
140027	..... Bushing .....	10	140423	..... Bushing .....	10			



## Brushes 12V / Bosch

803018

HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.
BSX124	..... Brush Set .....	2	BSX124F4	..... Brush Set .....	2
BSX754	..... Brush Set .....	2	BSX151S4	..... Brush Set .....	2
BSX964	..... Brush Set .....	2	BSX157-1584	.. Brush Set .....	2
BSX1024	..... Brush Set .....	2	BSX159-1604	.. Brush Set .....	2
BSX1044	..... Brush Set .....	2			
BSX764	..... Brush Set .....	2			
BSX134-1444	.. Brush Set .....	2			
BSX137-1434	.. Brush Set .....	2			
BSX1394	..... Brush Set .....	2			
BSX1404	..... Brush Set .....	2			
BSX175-1764	.. Brush Set .....	2			
BSX1494	..... Brush Set .....	2			
BSX97F4	..... Brush Set .....	2			
BSX98F4	..... Brush Set .....	2			





## Brushes / Denso

803029

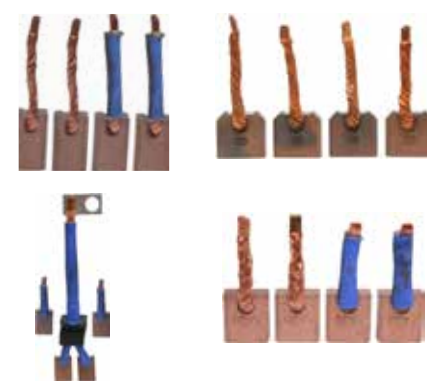
HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.
140356	..... Brush Set.....	2	140647	..... Brush Set.....	2
140357	..... Brush Set.....	2	140740	..... Brush Set.....	2
140358	..... Brush Set.....	2			
140359	..... Brush Set.....	2			
140360	..... Brush Set.....	2			
140361	..... Brush Set.....	2			
140362	..... Brush Set.....	2			
140363	..... Brush Set.....	2			
140364	..... Brush Set.....	2			
140393	..... Brush Set.....	2			
140396	..... Brush Set.....	2			
140566	..... Brush .....	2			
140570	..... Brush .....	2			
140602	..... Brush Set.....	2			



## Various Brushes / Japanese Starters

803038

HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.
140334	..... Brush Set.....	2	140567	..... Brush Set.....	2
140336	..... Brush Set.....	2	140708	..... Brush Set.....	2
140338	..... Brush Set.....	2			
140347	..... Brush Set.....	2			
140349	..... Brush Set.....	2			
140361	..... Brush Set.....	2			
140362	..... Brush Set.....	2			
140363	..... Brush Set.....	2			
140364	..... Brush Set.....	2			
140378	..... Brush Set.....	2			
140379	..... Brush Set.....	2			
140387	..... Brush Set.....	2			
140556	..... Brush Set.....	2			
140559	..... Brush Set.....	2			







# Cross reference list

OE no. - HC-CARGO no.

Edition 2023-2025





O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>AMC</b>		0331302061	135358	0331303040	130476	0331303132	133421
3207417	133864	0331302062	131790	0331303041	131586	0331303133	137175
3207524	133864	0331302063	130470	0331303042	333146	0331303134	137696
4486601	133864	0331302064	130468	0331303043	132827	0331303135	136371
8120193	133864	0331302066	130468	0331303043	333166	0331303140	138971
8933002708	137813	0331302067	130468	0331303045	132827	0331303140	333148
8983503655	137813	0331302070	130468	0331303045	333166	0331303142	137266
		0331302071	133141	0331303047	130474	0331303142	333150
<b>BOSCH</b>		0331302072	135358	0331303048	132258	0331303144	232420
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0331101016	333162	0331302570	130471	0331303076	133421	0331303530	130476
0331101019	130282	0331302571	133141	0331303078	131791	0331303540	138971
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0331302002	135871	0331303004	130474	0331303089	133419	0331303560	132267
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0331302004	135871	0331303006	131143	0331303090	333568	0331303562	136369
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0331302044	133636	0331303026	333147	0331303116	335489	0331303642	137266
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0331302052	136025	0331303032	131586	0331303121	136369	0331303654	333142
0331302053	135878	0331303032	333146	0331303122	132267	0331303662	233480
0331302054	130470	0331303033	131791	0331303122	333568	0331303665	135526
0331302056	133643	0331303034	132261	0331303124	133424	0331303668	139014
0331302058	135358	0331303035	135065	0331303125	133424	0331303670	230258
0331302059	131794	0331303038	130476	0331303126	136036	0331304001	138877
0331302060	233896	0331303039	136369	0331303126	335489	0331304001	333149



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
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0331400001	333839	0331402033	130301Z	0331402535	130301Z	1000301019	140033
0331400003	130300	0331402034	131141	0331402537	132361	1000301019	B140033
0331400006	130300	0331402035	130301	0331402537	333167	1000301021	140008
0331400007	130300	0331402035	130301Z	0331402539	130301	1000301021	B140008
0331400008	231975	0331402036	132254	0331402539	130301Z	1000301022	140027
0331400009	130300	0331402037	132361	0331402568	131141	1000301022	B140027
0331400011	130300	0331402037	333167	0331402570	131141	1000301023	140035
0331400014	130296	0331402039	130301	0331402606	138313	1000301023	B140035
0331400016	130296	0331402039	130301Z	0331402607	137232	1000301026	140029
0331400017	130296	0331402042	131141	0331402704	130301	1000301026	B140029
0331400022	130296	0331402043	131141	0331402704	130301Z	1000301027	140692
0331400023	130297	0331402044	131053	0331402705	130301	1000301029	134772
0331400024	130477	0331402046	335376	0331402705	130301Z	1000301031	140854
0331400068	231975	0331402051	130939	0331402706	130939	1000301031	B140854
0331401001	130297	0331402053	130939	0331402707	132294	1000301032	140853
0331401002	130477	0331402054	132363	0331402708	131053	1000301032	B140853
0331401003	130297	0331402055	132362	0331403003	139967	1000301034	140027
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0331401007	130296	0331402068	131141	0331403004	139967	1000301042	140016
0331401008	133398	0331402070	131141	0331403004	335227	1000301042	B140016
0331401009	137443	0331402073	130297	0331410002	136692	1000301046	140003
0331401011	130806	0331402074	130297	0331410003	136692	1000301046	B140003
0331401012	130297	0331402076	130296	0331410005	136692	1000301047	140012
0331401013	130806	0331402077	130300	0331410008	136692	1000301047	B140012
0331401015	130300	0331402081	130477	0331410010	136692	1000301053	140029
0331401016	137443	0331402087	130301	0331450001	130304	1000301053	B140029
0331401026	130806	0331402087	130301Z	0331450001	333155	1000301054	140249
0331401027	130300	0331402094	233734	0331450002	130305	1000301054	B140249
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0331401046	130297	0331402201	130303Z	0333006002	131371	1000301063	B140043
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0331402001	130301	0331402205	130301Z	0333009004	333153	1000301072	B140929
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0331402004	130301	0331402501	130301	1000103005	134223	1000301076	B140249
0331402004	130301Z	0331402501	130301Z	1000139015	134225	1000301077	140029
0331402005	131053	0331402502	130302	1000207001	134770	1000301077	B140029
0331402006	131141	0331402502	130302Z	1000207006	134764	1000301080	140984
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0331402008	132363	0331402503	130302Z	1000290013	231382	1000301082	B140030
0331402010	130303	0331402504	130301	1000290018	231833	1000301083	140319
0331402010	333138	0331402504	130301Z	1000290037	133470	1000301083	B140319
0331402010	333664	0331402505	131053	1000300004	191304	1000301087	141115
0331402010	130303Z	0331402507	233734	1000300029	237666	1000301088	140030
0331402011	137368	0331402508	132363	1000301000	140016	1000301088	B140030
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0331402013	131042	0331402510	130303	1000301001	140003	1000301106	140854
0331402015	132361	0331402510	333138	1000301001	B140003	1000301106	B140854
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0331402016	130806	0331402510	130303Z	1000301002	B140012	1000301114	141115
0331402017	132252	0331402513	131042	1000301003	140261	1000301600	335774
0331402019	130301	0331402515	132361	1000301003	B140261	1000301601	335775
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0331402028	131189	0331402524	132253	1000301010	B140645	1000322005	B140563
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# STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
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1000500084	136857	1004001033	132815	1004011077	132816	1004011902	136231
1000500091	335738	1004003125	130059	1004011077	335177	1004012011	130122
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1000505010	138856	1004003130	131663	1004011080	335078	1004012406	130061
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1000520045	139011	1004003137	138334	1004011084	233715	1004012420	132143
1000520049	139011	1004003138	131663	1004011085	132816	1004012421	132153
1000520068	139011	1004003139	132156	1004011086	134514	1004012422	132153
1000520070	139011	1004003142	131663	1004011086	333588	1004012426	132143
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1000917000	141054	1004003154	131839	1004011089	231065	1004012449	130122
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O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
1004336039	138320	1004336423	234475	1004336562	335205	1004336700	333552
1004336040	138320	1004336423	333285	1004336564	335207	1004336702	232700
1004336043	138320	1004336424	134658	1004336565	236867	1004336702	333967
1004336046	138320	1004336426	135235	1004336567	335512	1004336703	232700
1004336049	130684	1004336428	136557	1004336568	335213	1004336703	333967
1004336055	130685	1004336428	333286	1004336570	235406	1004336704	236867
1004336057	130688	1004336430	138900	1004336570	335176	1004336707	235832
1004336100	134103	1004336431	138900	1004336574	235741	1004336707	333566
1004336101	134103	1004336432	136557	1004336574	333657	1004336708	235459
1004336102	134104	1004336432	333286	1004336576	335480	1004336711	232700
1004336107	134103	1004336433	136418	1004336577	333093	1004336712	237366
1004336108	134103	1004336434	234475	1004336580	335206	1004336712	333659
1004336125	134658	1004336434	333285	1004336581	332155	1004336713	335490
1004336130	134658	1004336435	135015	1004336581	335221	1004336715	136557
1004336132	134658	1004336435	333287	1004336582	335212	1004336715	333286
1004336138	234475	1004336436	138326	1004336583	239781	1004336716	137618
1004336138	333285	1004336439	234475	1004336584	235401	1004336717	232183
1004336139	134659	1004336439	333285	1004336584	333304	1004336717	333969
1004336139	333595	1004336444	232183	1004336586	335212	1004336718	232700
1004336146	134658	1004336444	333969	1004336588	333923	1004336718	333967
1004336155	134659	1004336445	138900	1004336591	235401	1004336720	134660
1004336155	333595	1004336446	134659	1004336591	333304	1004336720	335495
1004336156	134659	1004336446	333595	1004336593	335486	1004336727	237366
1004336156	333595	1004336455	134659	1004336597	330531	1004336727	333659
1004336162	134658	1004336455	333595	1004336598	230182	1004336728	136557
1004336217	134868	1004336456	137703	1004336598	333968	1004336728	333286
1004336218	134661	1004336457	134658	1004336599	333414	1004336729	333306
1004336233	137703	1004336458	134660	1004336603	332155	1004336730	139638
1004336239	136557	1004336459	134659	1004336603	335221	1004336730	333559
1004336239	333286	1004336459	333595	1004336605	333307	1004336731	134660
1004336301	134660	1004336460	134660	1004336605	333971	1004336732	134659
1004336301	335495	1004336460	333305	1004336607	335206	1004336732	333595
1004336302	134868	1004336460	335222	1004336608	232700	1004336733	134658
1004336302	333643	1004336462	136557	1004336608	333967	1004336734	134660
1004336326	135015	1004336462	333286	1004336609	330495	1004336735	134660
1004336326	333287	1004336463	137703	1004336612	331995	1004336737	139428
1004336337	138326	1004336465	333983	1004336615	333415	1004336737	333288
1004336361	333305	1004336466	134659	1004336617	335490	1004336738	333306
1004336361	335222	1004336466	333595	1004336618	333414	1004336740	234475
1004336362	135235	1004336467	135235	1004336619	333655	1004336740	333285
1004336363	335544	1004336472	138900	1004336620	134659	1004336741	139638
1004336374	134658	1004336504	335205	1004336620	333595	1004336741	333559
1004336391	137618	1004336506	235531	1004336621	333307	1004336742	134660
1004336392	232183	1004336506	333292	1004336621	333971	1004336743	230182
1004336392	333969	1004336518	237670	1004336622	137703	1004336743	333968
1004336394	134660	1004336518	333970	1004336623	333536	1004336744	136557
1004336394	335495	1004336519	235531	1004336625	235406	1004336744	333286
1004336397	136557	1004336519	333292	1004336625	335176	1004336746	135015
1004336397	333286	1004336522	235401	1004336626	235406	1004336746	333287
1004336400	139638	1004336522	333304	1004336626	335176	1004336747	335211
1004336400	333559	1004336523	333123	1004336628	330531	1004336750	333655
1004336401	134660	1004336523	333552	1004336630	232700	1004336751	134659
1004336402	134659	1004336525	232700	1004336631	235832	1004336751	333595
1004336402	333595	1004336525	333967	1004336631	333566	1004336752	333307
1004336403	134658	1004336526	232700	1004336632	335486	1004336752	333971
1004336404	134659	1004336526	333967	1004336633	335207	1004336753	136418
1004336404	333595	1004336527	236867	1004336634	333235	1004336754	235401
1004336405	134659	1004336530	335832	1004336637	333292	1004336757	333536
1004336405	333595	1004336530	333566	1004336639	332071	1004336758	332070
1004336407	134660	1004336531	235459	1004336645	330495	1004336758	333660
1004336408	139428	1004336533	335337	1004336649	331995	1004336759	333123
1004336408	333288	1004336534	232700	1004336650	332070	1004336759	333552
1004336409	333306	1004336536	237366	1004336650	333660	1004336762	134658
1004336411	234475	1004336536	333659	1004336653	333123	1004336762	234475
1004336411	333285	1004336537	335490	1004336653	333552	1004336762	333285
1004336412	139638	1004336542	232700	1004336655	235531	1004336763	134658
1004336412	333559	1004336542	333967	1004336655	333292	1004336764	134660
1004336413	134660	1004336549	333655	1004336656	335480	1004336766	335205
1004336414	230182	1004336550	134659	1004336658	335208	1004336768	335207
1004336414	333968	1004336550	333595	1004336661	335519	1004336769	236867
1004336415	136557	1004336551	333307	1004336663	235401	1004336770	237366
1004336415	333286	1004336551	333971	1004336669	235529	1004336772	135235
1004336417	135015	1004336553	235401	1004336677	235401	1004336773	335213
1004336417	333287	1004336553	333425	1004336677	333425	1004336776	136557
1004336418	335211	1004336556	333536	1004336678	235401	1004336776	333286
1004336420	134658	1004336557	332070	1004336678	333304	1004336778	138900
1004336421	136557	1004336557	333660	1004336695	333356	1004336783	330531
1004336421	333286	1004336558	333123	1004336699	235024	1004336784	235741
1004336422	333306	1004336558	333552	1004336700	333123	1004336784	333657

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>BOSCH</b> <i>Continued</i>							
1004336785	335480	1004336879	333292	1004336958	134659	1004652007	134442
1004336789	335206	1004336881	138900	1004336958	333595	1005001808	235572
1004336791	239781	1004336884	134659	1004336959	134660	1005001812	235572
1004336796	333923	1004336884	333595	1004336960	134658	1005001826	137897
1004336798	235401	1004336885	333307	1004336961	134658	1005001832	139574
1004336798	333304	1004336885	333971	1004336963	134868	1005001843	137897
1004336800	134659	1004336886	235459	1004336963	333643	1005001878	230231
1004336800	333595	1004336888	237366	1004336964	136557	1005001903	137167
1004336801	136557	1004336888	333659	1004336964	333286	1005001904	233663
1004336801	333286	1004336890	235401	1004336965	134658	1005001915	137169
1004336802	137703	1004336890	333304	1004336968	134658	1005001923	137619
1004336803	134658	1004336894	237670	1004336969	138201	1005001924	137169
1004336804	139638	1004336894	333970	1004336970	136557	1005001931	137619
1004336804	333559	1004336896	235531	1004336970	333286	1005001937	137169
1004336806	331821	1004336896	333292	1004336971	138326	1005001938	230231
1004336807	134660	1004336897	332070	1004336973	138326	1005001942	138323
1004336809	136557	1004336897	333660	1004336974	134658	1005001943	137897
1004336809	333286	1004336898	335213	1004336975	136557	1005001946	139574
1004336810	135015	1004336899	235401	1004336975	333286	1005001948	137897
1004336810	333287	1004336899	333304	1004336976	134660	1005001949	137622
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1004336813	136557	1004336901	134104	1004336980	234475	1005001976	137622
1004336813	333286	1004336902	134658	1004336980	333285	1005001980	230232
1004336814	136557	1004336903	134658	1004336981	134660	1005001999	233572
1004336814	333286	1004336904	134658	1004336983	134659	1005321306	133467
1004336815	134868	1004336906	134659	1004336983	333595	1005821055	134677
1004336815	333643	1004336906	333595	1004336984	134660	1005821096	135915
1004336817	138899	1004336907	134658	1004336985	136557	1005821103	134864
1004336817	333301	1004336908	137703	1004336986	138326	1005821285	134677
1004336819	134660	1004336909	134660	1004336987	135015	1005821291	135892
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1004336820	333286	1004336913	134658	1004336989	232183	1005821300	131503
1004336821	135015	1004336914	134659	1004336989	333969	1005821303	132123
1004336821	333287	1004336914	333595	1004336990	139428	1005821306	133467
1004336822	139550	1004336915	134868	1004336990	333288	1005821307	131503
1004336823	138326	1004336915	333643	1004336991	134659	1005821308	133466
1004336824	230182	1004336916	134868	1004336991	333595	1005821312	135078
1004336824	333968	1004336916	333643	1004336992	134868	1005821313	135079
1004336827	136557	1004336917	138899	1004336993	138904	1005821321	138991
1004336827	333286	1004336917	333301	1004336994	134660	1005821328	135970
1004336829	138900	1004336918	134658	1004336996	138900	1005821333	139143
1004336831	135015	1004336919	135235	1004336997	134660	1005821336	139143
1004336831	333287	1004336922	138326	1004336997	335495	1005821352	133466
1004336832	138326	1004336923	135235	1004336998	134658	1005821362	135970
1004336833	232183	1004336924	134660	1004336999	134660	1005821480	135892
1004336833	333969	1004336925	134660	1004336999	335495	1005821702	137628
1004336834	134868	1004336926	134659	1004337002	335199	1005821755	138324
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1004336835	137703	1004336927	134659	1004337013	235090	1005821790	137911
1004336836	138900	1004336927	333595	1004337019	235091	1005821898	234083
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1004336841	134658	1004336931	134660	1004337042	235090	1005831144	135892
1004336842	136557	1004336933	134659	1004337140	236867	1005831169	137630
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1004336843	138904	1004336934	134658	1004337156	333356	1005831340	234847
1004336844	138899	1004336936	134658	1004337158	335507	1005831425	234847
1004336844	333301	1004336937	135015	1004337165	335116	1005831432	138324
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1004336846	138899	1004336939	137268	1004337193	335122	1006200005	133459
1004336846	333301	1004336939	333643	1004338102	335761	1006200006	133456
1004336847	134659	1004336940	138201	1004338126	335117	1006200010	133459
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1004336848	333305	1004336942	134660	1004338140	335117	1006200014	135069
1004336848	333559	1004336944	138326	1004338157	332155	1006200015	133457
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1004336859	134658	1004336947	333595	1004338170	337347	1006200027	230158
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1004336864	134660	1004336950	134658	1004450013	191585	1006200043	135601
1004336866	232700	1004336951	135015	1004601016	335202	1006200055	138920
1004336866	333967	1004336951	333287	1004611006	134548	1006200056	133459
1004336873	230182	1004336954	134658	1004611007	134937	1006200061	137755
1004336873	333968	1004336955	134660	1004611018	134279	1006200069	137328
1004336876	235401	1004336956	139638	1004611030	235818	1006200071	137755
1004336876	333304	1004336956	333559	1004615001	135004	1006200072	138916
1004336878	333655	1004336957	136557	1004652002	139119	1006200081	137755
1004336879	235531	1004336957	333286	1004652005	139119	1006200087	137921



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
1006200088	136855	1006209071	130390	1006209463	130396	1006209544	132216
1006200096	138325	1006209073	139503	1006209466	233842	1006209544	333174
1006200099	138325	1006209080	130401	1006209469	131101	1006209544	132216ZZ
1006200100	137886	1006209081	130402	1006209470	131101	1006209545	131433
1006200101	137884	1006209082	137299	1006209471	130396	1006209545	333172
1006200109	137886	1006209083	230159	1006209472	131097	1006209545	333548
1006200111	137755	1006209101	130406	1006209472	333233	1006209545	131433Z
1006200117	137464	1006209102	130027	1006209473	131101	1006209547	133362
1006200118	137886	1006209104	130027	1006209474	136912	1006209548	131104
1006200123	133459	1006209105	130390	1006209481	234807	1006209548	333176
1006200126	230830	1006209107	139503	1006209482	137279	1006209548	131104ZZ
1006200127	137328	1006209110	130390	1006209500	131102	1006209549	133362
1006200128	135601	1006209117	132193	1006209500	333220	1006209549	333201
1006200130	135068	1006209119	132193	1006209500	131102Z	1006209550	135164
1006200131	133459	1006209120	231884	1006209501	131432	1006209551	135714
1006200136	234085	1006209125	132163	1006209502	131150	1006209552	134371
1006200137	231202	1006209127	130406	1006209503	131104	1006209552	134371Z
1006200141	233580	1006209140	130390	1006209503	333176	1006209553	139850
1006200145	137921	1006209146	335114	1006209503	131104ZZ	1006209554	133362
1006200148	138916	1006209161	130027	1006209504	131104	1006209554	333201
1006200153	138916	1006209162	130404	1006209504	333176	1006209555	139336
1006200178	235579	1006209165	130406	1006209504	131104ZZ	1006209558	139850
1006200183	135598	1006209233	130027	1006209506	131104	1006209559	133362
1006200184	138920	1006209236	130396	1006209506	333176	1006209559	333201
1006200187	133456	1006209295	134371	1006209506	131104ZZ	1006209560	131434
1006200218	237668	1006209295	134371Z	1006209509	131104	1006209560	333548
1006200227	330127	1006209320	132193	1006209509	333176	1006209561	136888
1006200230	333405	1006209321	132193	1006209509	131104ZZ	1006209563	131104
1006200301	235399	1006209322	132193	1006209510	131433	1006209563	333176
1006200302	235399	1006209323	132193	1006209510	131433Z	1006209563	131104ZZ
1006200303	235025	1006209324	132193	1006209513	131104	1006209564	136925
1006200304	235025	1006209325	132193	1006209513	333176	1006209565	139850
1006200306	235025	1006209329	132193	1006209513	131104ZZ	1006209566	131433
1006200307	235025	1006209332	130406	1006209516	131433	1006209566	333172
1006200309	235025	1006209339	130027	1006209516	333172	1006209566	131433Z
1006200310	235399	1006209340	130396	1006209516	131433Z	1006209567	131104ZZ
1006200316	333550	1006209400	130405	1006209517	131432	1006209568	131433
1006200319	239780	1006209401	130393	1006209521	136723	1006209568	333172
1006200342	333464	1006209402	130401	1006209522	132168	1006209568	131433Z
1006200490	333405	1006209403	130405	1006209523	131995	1006209569	131434
1006200493	235399	1006209404	130396	1006209523	335648	1006209569	333548
1006200493	335801	1006209405	130405	1006209524	132079	1006209570	131104
1006200517	335591	1006209406	131097	1006209524	132079Z	1006209570	333176
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1006200910	135068	1006209412	130405	1006209528	131104	1006209572	333176
1006200929	333423	1006209414	130396	1006209528	333176	1006209572	131104ZZ
1006200972	235025	1006209416	130396	1006209528	131104ZZ	1006209573	131104
1006200984	133457	1006209417	130405	1006209530	131104	1006209573	333176
1006208280	131771	1006209418	133443	1006209530	333176	1006209573	131104ZZ
1006208450	131771	1006209419	230197	1006209530	131104ZZ	1006209574	137170
1006209012	132163	1006209420	138946	1006209531	131104	1006209576	132216
1006209014	132163	1006209422	133853	1006209531	333176	1006209576	333174
1006209017	132163	1006209423	130995	1006209531	131104ZZ	1006209576	132216ZZ
1006209029	130406	1006209424	130404	1006209532	132169	1006209578	135464
1006209030	130390	1006209425	132194	1006209533	136472	1006209579	135086
1006209031	130406	1006209427	130396	1006209534	133362	1006209579	135086Z
1006209032	130390	1006209428	131097	1006209535	136723	1006209580	135713
1006209033	130390	1006209428	333233	1006209535	335522	1006209581	135715Z
1006209034	130406	1006209429	130400	1006209536	131104	1006209582	131104
1006209039	130390	1006209431	130404	1006209536	333176	1006209582	333176
1006209040	130406	1006209432	137299	1006209536	131104ZZ	1006209582	131104ZZ
1006209047	130406	1006209433	230159	1006209537	131433	1006209583	139850
1006209049	130390	1006209436	131489	1006209537	333172	1006209584	135716
1006209050	231884	1006209439	130401	1006209537	131433Z	1006209584	333194
1006209051	130406	1006209440	234534	1006209538	132205	1006209585	135085
1006209052	130406	1006209444	130402	1006209538	333196	1006209585	333203
1006209053	130406	1006209445	130393	1006209538	132205Z	1006209587	137265
1006209054	231884	1006209447	130396	1006209539	132205	1006209588	138874
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O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
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1006209605	139013	1006209669	233829	1006209709	131104	1006209815	137481
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1006209925	234807	1006210143	135085	1007010039	136915	1123429207	191584
1006209927	137170	1006210143	333203	1007010045	132216	1123429212	191292
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O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
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2000301045	B140026	2003429063	132226	2004005073	130120	2004114295	131074
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2000301049	140859	2003429066	132226	2004005906	132904	2004115013	132905
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2000301140	140020	2003526006	135552	2004014028	231272	2004124006	231085
2000301140	B140020	2003526023	230730	2004014034	231493	2004125075	130131
2000500084	139339	2003526043	135552	2004014053	130117	2004125076	131312
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2004320173	142339	2005005201	139697	2005855368	136559	2006209304	131269
2004320173	BSX754	2005005201	333533	2005855371	136558	2006209305	135801
2004320272	142086	2005429055	138835	2005855372	133490	2006209306	132697
2004320273	142086	2005822015	236146	2005855376	137000	2006209311	130027
2004336026	132304	2005822023	231847	2005855377	136559	2006209330	130931
2004336027	131184	2005822333	136558	2005855378	136559	2006209331	130409
2004336027	333606	2005824383	135214	2005855379	133489	2006209332	130409
2004336028	132303	2005824389	230844	2005855381	133489	2006209333	131108
2004336031	131185	2005824549	134130	2005855382	133490	2006209335	235810
2004336031	333293	2005824570	132219	2005855383	133489	2006209336	131712
2004336041	132306	2005824666	132219	2005885073	133489	2006209339	135989
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2004336046	131185	2005824837	137632	2006202001	131768	2006209343	136285
2004336046	333293	2005824843	132219	2006202002	132732	2006209344	131269
2004336064	137137	2005824849	135214	2006202003	131768	2006209345	135801
2004336067	132303	2005824852	137161	2006202010	138308	2006209346	132697
2004336077	234118	2005824906	134362	2006202010	138308ZZ	2006209351	333990
2004336078	230843	2005824909	134318	2006202011	138308	2006209366	132367
2004336085	231084	2005824931	137161	2006202011	138308ZZ	2006209368	130416
2004336087	231084	2005825077	131454	2006203022	130416	2006209386	132367
2004336209	134658	2005825087	132049	2006208011	130415	2006209388	130416
2004336213	335494	2005825169	132049	2006208013	131713	2006209390	135664
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2004336215	135015	2005825226	132049	2006209022	130415	2006209401	131267
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2004336217	234475	2005834068	231728	2006209031	132365	2006209406	333227
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2004336219	135235	2005834197	134130	2006209043	130415	2006209410	131270
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2004336230	333595	2005854052	134093	2006209107	131267	2006209423	131270
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2004336235	333306	2005854094	133908	2006209118	136285	2006209426	335650
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2004336238	134659	2005854107	133908	2006209122	136285	2006209429	333126
2004336238	333595	2005854110	133908	2006209160	130027	2006209429	333862
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2004336239	335495	2005854136	134092	2006209162	130404	2006209432	138316
2004336240	139428	2005854143	133908	2006209163	130405	2006209434	231885
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2004336244	333983	2005854198	133908	2006209181	131713	2006209436	333227
2004336245	137703	2005854199	133908	2006209183	130415	2006209437	131711
2004336250	235883	2005854227	333750	2006209185	132365	2006209438	131270
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2004449088	137029	2005855166	133489	2006209229	132364	2006209447	131381
2004452001	139302	2005855173	133490	2006209233	135989	2006209448	130931
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2004652006	131499	2005855306	136559	2006209249	130409	2006209457	333606
2004652010	135460	2005855325	133489	2006209268	130416	2006209458	136509
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2004652036	132224	2005855333	136558	2006209282	231884	2006209461	234971
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2006209466	131344	2006209594	134371	2007010112	139502	2008109203	138308
2006209466	335644	2006209594	134371Z	2007010128	136692	2008109203	335502
2006209468	230789	2006209737	131711	2007010131	136692	2008109203	138308ZZ
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2006209469	333205	2006209901	132365	2007010133	231086	2008209008	131065Z
2006209470	130950	2006209902	131713	2007010150	333408	2008302003	135358
2006209470	333207	2006209903	231585	2007010160	333398	2009994110	131185
2006209471	130414	2006209904	130415	2007010160	333407	2009994110	333293
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2006209473	131108	2006209916	132367	2007014000	BSX524	2014003900	130338
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2006209500	333516	2006382018	130418	2007014051	BSX1004	2339303229	136852
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2006209501	230144Z	2006382020	130419Z	2007014054	BSX1044	2339303231	333146
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2339303408	131586	2339304040	137879	2339305078	330030	2339402120	130303Z
2339303408	333146	2339304040	333565	2339305080	335552	2339402121	130302
2339303411	137982	2339304046	137879	2339305081	236868	2339402121	130302Z
2339303412	134824	2339304046	333565	2339305084	330491	2339402124	233583
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2339303413	333572	2339304047	333163	2339305089	230356	2339402128	235871
2339303418	134824	2339304048	333922	2339305089	333157	2339402131	333744
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2339303428	336459	2339304050	333163	2339305100	234903	2339402132	230452
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2339303434	136852	2339304054	232188	2339305111	332894	2339402134	235871
2339303435	131586	2339304055	231203	2339305114	331985	2339402136	233852
2339303435	333146	2339304055	335000	2339305115	335356	2339402139	231711
2339303438	137982	2339304057	233577	2339305116	235535	2339402140	234287
2339303445	335535	2339304062	230848	2339305116	333996	2339402141	131141
2339303447	132258	2339304068	139075	2339305118	335093	2339402143	231223
2339303447	333142	2339304068	335514	2339305119	330030	2339402149	236645
2339303448	231653	2339304069	139075	2339305120	236868	2339402154	335693
2339303451	131791	2339304069	230356	2339305124	335056	2339402155	234129
2339303706	137613	2339304069	333157	2339305125	335355	2339402156	230904
2339303722	134824	2339304070	333395	2339305129	335099	2339402157	233852
2339303722	333145	2339304071	335334	2339305135	336799	2339402160	231711
2339303724	134824	2339304249	131791	2339305142	239841	2339402161	130303
2339303724	333145	2339304526	335336	2339305145	333780	2339402161	333138
2339303839	139069	2339305004	234903	2339305149	335353	2339402161	333664
2339303839	333601	2339305004	333998	2339305158	332069	2339402161	130303Z
2339303840	333842	2339305005	235138	2339305169	335096	2339402165	233583
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O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>BOSCH</b> <i>Continued</i>							
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2339402175	335390	2911421158	190546	9001066242	133362	9001338010	139499
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2339403509	139965	2916069084	191337	9001140339	132031	9002336237	335558
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2910960285	135645	9000910012	140972	9001336324	130396	9003334032	136784
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O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
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9003334039	333496	9330331510	333141	1986SE1622	333208	1986SE1668	139069
9003334314	134661	9330331513	133422	1986SE1623	137481	1986SE1668	333601
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9003334328	BS151	9330451063	131141	1986SE1624	230835	1986SE1670	233578
9003334343	134661	9330451070	138311	1986SE1624	333189	1986SE1670	333240
9003334355	134661	9330451071	138311	1986SE1625	137889	1986SE1671	137491
9003334361	BSX194-1954	9339991018	130282	1986SE1625	333199	1986SE1672	136717
9003334362	BSX194-1954	9900333089	140014	1986SE1626	233720	1986SE1673	137879
9003334363	139698	9900333089	B140014	1986SE1626	335810	1986SE1673	333565
9003334363	333300	0339D55002	335053	1986SE1627	233828	1986SE1674	230115
9003334368	234947	0399C74008	140482	1986SE1627	333193	1986SE1674	333999
9003334368	333574	0399D55002	335053	1986SE1628	137888	1986SE1675	333922
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9003336212	130390	1986SE1531	333182	1986SE1630	333186	1986SE1678	333149
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9003336283	131996	1986SE1571	132265	1986SE1635	234247Z	1986SE1685	239841
9003336284	131997	1986SE1571	335491	1986SE1636	330007	1986SE1686	333243
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9003336299	135074	1986SE1576	333148	1986SE1642	331504	1986SE1695	330030
9003337001	BSX15154	1986SE1577	139703	1986SE1643	335322	1986SE1696	235535
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9003337014	135073	1986SE1578	132816	1986SE1645	232623	1986SE1697	335093
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9330081066	133424	1986SE1593	237366	1986SE1658	335489	1986SE1759	333553
9330081068	134824	1986SE1593	333659	1986SE1659	136615	1986SE1761	132205
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9330331010	333141	1986SE1617	131104ZZ	1986SE1665	233716	1986SE1856	137284

# STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
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1986SE3561	138311	6033AD0025	331017	6033AD0409	BSX192-1934	6033AD4031	231223
1986SE3562	233584	6033AD0026	331017	6033AD0414	233719	6033AD4034	139056
1986SE3566	139965	6033AD0044	132079	6033AD0422	134434	6033AD4034	139056Z
1986SE3627	131495	6033AD0044	132079Z	6033AD0436	233475	6033AD4052	236130
1986SE3627	333515	6033AD0047	231649	6033AD0438	235755	6033AD4052	335232
1986SE3694	333917	6033AD0053	234396	6033AD04380	235755	6033AD4064	139697
1986SE3694	335533	6033AD0056	231650	6033AD0440	231267	6033AD4064	333533
1986SE3741	131370	6033AD0061	231898	6033AD0440	333282	6033AD4080	139657
1986SE3742	131371	6033AD0061	333509	6033AD0442	139056	6033AD4080	333496
1986SE3743	333152	6033AD0064	231651	6033AD0442	139056Z	6033AD4092	139697
1986SE3743	131372Z	6033AD0070	235839	6033AD0446	335081	6033AD4092	333533
1986SE3744	333153	6033AD0070	335488	6033AD0448	234376	6033AD4096	139697
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1986SE3752	333344	6033AD0076	234374	6033AD0462	139056Z	6033AD4107	333533
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1986SE3754	335497	6033AD0086	231267	6033AD0471	333300	6033AD4109	333533
1986SE3755	333358	6033AD0086	333282	6033AD0474	333835	6033AD4118	238845
1987AN0105	131364	6033AD0099	235799	6033AD1002	233835	6033AD4139	333343
1987AN0106	131364	6033AD0121	233585	6033AD1002	335233	6033AD4148	139056
1987AN0107	131349	6033AD0128	139697	6033AD1059	233475	6033AD4148	139056Z
1987BE2003	231800	6033AD0128	333533	6033AD1061	335081	6033AD4149	238845
1987BE2017	333845	6033AD0129	233722	6033AD1062	233947	6033AD4161	139698
1987MN0171	234403	6033AD0129	333500	6033AD1062	333212	6033AD4161	333300
1987MN0172	137483	6033AD0130	139698	6033AD1104	335081	6033AD4177	333597
1987MN0172	333191	6033AD0130	333300	6033AD1113	233578	6033AD4180	139698
1987MN0172	335818	6033AD0148	233837	6033AD1113	333240	6033AD4180	333300
1987MN0174	135085	6033AD0149	231357	6033AD1158	BSX192-1934	6033AD4194	235745
1987MN0174	333203	6033AD0151	139697	6033AD1159	BSX192-1934	6033AD4194	333658
1987MN0175	131270	6033AD0151	333533	6033AD1244	231648	6033AD4212	139698
1987MN0177	136743	6033AD0156	139698	6033AD1246	231648	6033AD4212	333300
1987MN0179	138332	6033AD0156	333300	6033AD1250	231648	6033AD4232	236130
1987MN0180	139954	6033AD0159	231648	6033AD1252	235883	6033AD4232	335232
1987MN0180	333208	6033AD0161	BSX192-1934	6033AD1255	BSX192-1934	6033AD4243	233722
1987MN0183	233837	6033AD0166	234947	6033AD1256	331704	6033AD4243	333500
1987MN0186	233835	6033AD0166	333574	6033AD1447	335172	6033AD5025	239092
200A209436	132273	6033AD0174	231593	6033AD2012	136743	6033AD5055	237752
200A209436	333227	6033AD0175	234221	6033AD3006	139056	6033AD5078	237752
6003AD0121	233585	6033AD0180	231357	6033AD3006	139056Z	6033AD5097	BSX206-2074
6004AH5018	335352	6033AD0184	231756	6033AD3018	233585	6033AD5098	BSX206-2074
6033A4093	139697	6033AD0184	333185	6033AD3022	234947	6033AD5126	BSX206-2074
6033A4093	333533	6033AD0184	335558	6033AD3022	333574	6033AD5127	BSX206-2074
6033A4096	139697	6033AD0190	333683	6033AD3106	233723	6033AD5138	239094
6033A4096	333533	6033AD0191	333683	6033AD3108	139056	6033AD5138	333830
6033A4098	139697	6033AD0198	235585	6033AD3108	139056Z	6033AD5139	239094
6033A4098	333533	6033AD0200	231756	6033AD3110	231756	6033AD5148	237748
6033AC0093	140494	6033AD0200	335558	6033AD3110	335558	6033AD5177	BSX216-2174
6033AC0105	140904	6033AD0204	333943	6033AD3111	139056	6033AD5178	BSX216-2174
6033AC0231	137744	6033AD0218	234168	6033AD3111	139056Z	6033AD5190	333794
6033AC0250	231647	6033AD0221	235883	6033AD3120	233837	6033AD5206	239094
6033AC0285	236644	6033AD0230	333942	6033AD3130	233837	6033AD5206	333830
6033AC0352	141040	6033AD0231	231593	6033AD3172	231593	6033AD5255	239094
6033AC0423	142054	6033AD0242	236130	6033AD3196	BSX194-1954	6033AD5255	333830
6033AC0424	239111	6033AD0242	335232	6033AD3197	BSX194-1954	6033AD5273	330257
6033AC1148	191292	6033AD0243	234087	6033AD3215	238849	6033AD5316	235745
6033AC1436	231647	6033AD0250	233948	6033AD3216	238849	6033AD5316	333658
6033AC1622	231647	6033AD0263	BSX202-2034	6033AD3242	233585	6033AD5320	235745
6033AC3116	230726	6033AD0267	233723	6033AD3244	139056	6033AD5320	333658
6033AC3200	235164	6033AD0275	333835	6033AD3244	139056Z	6033AD5334	237750
6033AC4002	139700	6033AD0280	234374	6033AD3283	330031	6033AD5355	237752
6033AC4017	231596	6033AD0285	139657	6033AD3306	333594	6033AD5356	237752
6033AC5015	237750	6033AD0285	333496	6033AD3310	333594	6033AD5359	333358
6033AC5028	237766	6033AD0304	236130	6033AD3328	234947	6033AD5395	237769
6033AC5050	142061	6033AD0304	335232	6033AD3328	333574	6033AD6084	333624
6033AC5059	142019	6033AD0306	234087	6033AD3334	231756	6033AD6153	239094
6033AC5149	237769	6033AD0307	234393	6033AD3334	333185	6033AD6153	333830
6033AC5186	237770	6033AD0312	231653	6033AD3334	335558	933A081030	130302
6033AC5246	237769	6033AD0329	333918	6033AD3336	235849	933A081039	130476
6033AC5322	237750	6033AD0368	231648	6033AD3336	335633	D001965593	136614
6033AC5394	237769	6033AD0370	234947	6033AD3850	139056	F000AL1001	132194
6033AC5394	333398	6033AD0370	333574	6033AD3850	139056Z	F000AL1005	140208
6033AD0004	233836	6033AD0374	234947	6033AD4013	139657	F000AL1040	131104
6033AD0004	333593	6033AD0374	333574	6033AD4013	333496	F000AL1040	333176
6033AD0010	233475	6033AD0380	139698	6033AD4016	235745	F000AL1040	131104ZZ
6033AD0011	BSX192-1934	6033AD0380	333300		333658	F000AL1055	134868



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
F000AL1055	333643	F00M990104	191304	850764	131767	<b>CAV</b>	
F000AL1074	139011	F00M990127	191513	851330	134108	521	130850
F000AL1100	230340	F00M990127	B191513	852506	134108	1828020	130332
F000AL1100	333215	F00M990136	191318	852529	134108	1828040	130332
F000AL1186	138875	F00M990139	191318	852758	131766	1828A040	130332
F000AL1186	138875Z	F00M990150	191308	852759	131767	267-2	130332
F000AL1200	139954	F00M990151	191318	852760	131768	267-4	130332
F000AL1200	333208	F00M990163	B230732	852762	131056	5001-10	190580
F000AL1209	230835	F00M990164	191318	852957	131766	5001-26	190583
F000AL1209	333189	F00M990165	191326	852958	131767	5001-31	190582
F000AL1238	333937	F00M990166	191267	852959	131768	5001-43	190584
F000AL1250	139954	F00M990175	192569	854322	190561	5001-48	190580
F000AL1250	333208	F00M990178	191304	855174	140402	5001-53	190582
F000AL1281	333940	F00M990180	191318	855248	132140	5001-74	190582
F000AL1483	136418	F00M990181	191513	855528	132140	5244-22	190579
F000AL1516	131104ZZ	F00M990181	B191513	856025	132140	5330-525	139723
F000AL1519	131433	F00M990184	192586	856121	132140	5334-476	192145
F000AL1519	333172	F00M990188	192586	856407	136400	5335-960	191321
F000AL1519	131433Z	F00M990195	192586	856412	140549	5335-963E	192591
F000AL1520	132168	F00MAL1100	230340	856416	140549	5549-306BJ	130417
F000AL1534	131104ZZ	F00MAL1100	333215	856476	140521	5549-306BS	131745
F000AL1679	333937	F00SH0125	137612	858639	190478	5549-306CH	130722
F000AL1680	333937	F00SH0131	137612	858649	191586	5549-306W	131747
F000AL1681	138875	F010AL1014	137893	858650	191770	5549-307	140170
F000AL1681	138875Z	F010SH0105	139498	859420	138984	5549-95	138391
F000AL1692	333937	F010SH0105	333592	860867	137766	5586-123	130328
F000AL1695	139954	HK2512	142019			5587-117	234428
F000AL1695	333208	XXX1069245	330515			5587-117A	234428
F000AL1698	131104			<b>CASE</b>		5886-200C	191276
F000AL1698	333176	<b>BRIGGS &amp; STRATTON</b>		83912208	131248	5933-336	139726
F000AL1698	131104ZZ	3886	139418	84038072	333717	5933-44	140154
F000AL1704	135086	4114	139395	3206518R2	131248	5933-603	140173
F000AL1709	333355	4114	335924	AR89421	130554	5933-603	B140173
F000AL1871	132194	280104	139395	C26525	234072	5933-83	132982
F000AL1881	131996	280104	335924	C33024	234072	5933-906	132981
F000AL1897	131065	391135	234211			5936-102	190582
F000AL1918	138904	391461	137278	<b>CATERPILLAR</b>		5936-264	139722
F000AL1919	138899	391791	141053	321507	130500	5936-482C	191290
F000AL1919	333301	393254	139417	329679	130540	5936-482D	191502
F000AL1921	235281	395537	234209	1P2508	130539	5936-487	190577
F000AL2034	138201	395538	139394	1P2508	130539Z	5936-495M	190593
F000AL2035	137268	396865	139418	1P9181	131364	5936-495N	190594
F000AL2050	139550	398003	234211	2F6678	132382	6010-127	130850
F000AL2051	139550	490421	139418	3A4900	132962	6010-148	130851
F000AL2281	333940	490467	139417	3E7857	230911	6010-177	191308
F000AL2814	333940	490771	139418	3E7857	230911Z	6010-240	130851
F000SH0102	134824	491836	230399	3E7859	230198	6010-246	230437
F000SH0102	333145	495877	139417	4H0507	130503	6068-1	ASX194
F000SH0108	133424	495878	139418	4H7869	232916	6068-10	ASX184
F000SH0120	134824	497603	234204	4M1812	131364	6068-18	ASX194
F000SH0120	333145	497605	230397	4M1831	135938	6068-2	ASX74
F000SH0123	139498	497606	230400	4M1839	130495	6068-20	ASX144
F000SH0123	333592	497608	141049	4M1846	130520	6068-28	ASX194
F000SH0124	133424	691293	230397	4N4517	131766	6068-29	ASX144
F000SH0125	137612	692024	234211	4N6938	134413	6068-34	ASX194
F000SH0127	335654	692034	234204	4N6942	135853	6068-42	ASX144
F000SH0131	137612	693059	139395	4N7477	133337	6068-43	141005
F000SH0133	134824	693059	335924	4N7523	132634	6068-47	ASX144
F000SH0133	333145	693713	235627	4N7527	135851	6068-8	ASX194
F000SH0136	134824	696539	139417	4R7057	131364	6211-134	230437
F000SH0136	333145	696540	139418	4Y0346	234875	6211-144	130137
F000SH0139	133424			5S6372	130542	6211-144B	130137
F000SH0145	133424	<b>BUTEC</b>		7L6586	131363	6211-168	191274
F000SH0180	131586	850137	139895	7M0324	130496	6211-175A	139662
F000SH0180	333146	850139	140402	7M0330	130523	6211-203	138784
F002G20278	132368	850141	140403	7M8651	130554	6211-225	130137
F002G91122	192586	850148	136415	7N8764	137485	6211-225A	130137
F005M10053	230835	850154	139896	8C9778	132570	6211-225B	130137
F005M10053	333189	850261	134108	8L5071	131364	6211-227A	139721
F00ASH0127	335654	850262	134108	9G5517	132641	6211-235	140154
F00M390002	190367	850363	131766	9M7623	130520	6211-26	130136
F00M390005	192586	850629	131768	9X0295	230744	6211-26B	130136
F00M390009	192569	850674	131767	9X0337	135853	6211-270	130136
F00M390013	191528	850686	132140	9X1275	138672	6211-289A	133018
F00M990011	191318	850689	132142	9X1282	230744	6211-303	140173
F00M990014	191304	850733	136412	9X1283	230744	6211-303	B140173
F00M990053	191533	850749	BUTSX44	9X1284	230744	6211-32	130851
F00M990061	137216	850758	131766	9X1285	230744	6211-33	130851
F00M990062	191478	850760	131768	9X1286	230744	6211-372	139715

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>CAV Continued</b>							
6211-375.....	130940	5006626.....	133428	028062-0640.....	137592	028099-6200.....	133354
6211-375B.....	131752	5206626.....	133428	028062-0660.....	233083	028099-6260.....	132866
6211-375Z.....	136158	5234382.....	136888	028062-5050.....	137592	028099-6300.....	132866
6211-385.....	139728	8133925.....	131590	028062-5640.....	233083	028099-6310.....	139654
6211-447.....	230437	CH1414.....	140187	028062-5770.....	132888	028099-6390.....	230744
6211-526.....	138784	CH1920.....	130536	028062-5790.....	232594	028099-6400.....	230744
6211-548.....	ASX144	CH1922.....	130536	028062-6010.....	231731	028099-6401.....	230744
6211-548A.....	141005	CH1925.....	130536	028062-6180.....	131837	028099-6410.....	230744
6211-548B.....	141060	CH1927.....	130536	028062-7081.....	231731	028099-6411.....	230744
6211-600.....	139718	CHX101P.....	CHX101P	028063-0030.....	135474	028099-6420.....	230744
6211-66.....	131749	<b>CUMMINS</b>		028065-0010.....	137976	028099-6430.....	230744
6211-675D.....	230378	3603869RX.....	131364	028065-0100.....	137976	028099-6431.....	230744
6211-678.....	139713	3603870RX.....	131363	028065-0250.....	232594	028099-6432.....	230744
6211-70.....	230326	3604230RX.....	131363	028065-0290.....	232594	028099-6433.....	230744
6211-700B.....	135883	3604231RX.....	131364	028065-0300.....	232594	028099-6470.....	230744
6211-700V.....	138358	<b>DAF</b>		028090-6580.....	136447	028099-6550.....	133356
6211-700W.....	138358	128017.....	333717	028099-0770.....	140362	028099-6580.....	136447
6211-70A.....	230326	1357926.....	333717	028099-2520.....	230744	028099-6600.....	135383
6211-726.....	141028	1600335.....	192586	028099-2620.....	140362	028099-6790.....	132635
6211-841.....	230437	<b>DAIHATSU</b>		028099-2628.....	140362	028099-6820.....	132568
6211-961.....	139708	28011-87706-000.....	132547	028099-2670.....	140362	028099-6890.....	230744
6265-703.....	139720	28106-22060-071.....	132570	028099-2680.....	132567	028099-7100.....	132564
6265-705.....	139722	28113-87203-000.....	139051	028099-2690.....	133601	028099-7120.....	132564
6400-247.....	141003	28113-87204-000.....	139492	028099-2691.....	133601	028099-7140.....	132564
6510-3.....	139713	28142-87502-000.....	140360	028099-2700.....	137293	028099-7170.....	140364
6510-4.....	139713	28142-87504-000.....	140602	028099-2770.....	140362	028099-7171.....	140364
6510-60.....	230436	28150-12030-000.....	131084	028099-2790.....	132564	028099-7202.....	139494
6510-68.....	231467	28150-12031-000.....	131084	028099-2791.....	132564	028099-7210.....	135385
6510-79.....	230437	28150-15011-000.....	131807	028099-2820.....	132567	028099-7212.....	135385
6510-84.....	230441	28150-15012-000.....	131807	028099-2920.....	132568	028099-7220.....	132568
A889.....	130136	28150-15012-000.....	131807	028099-2921.....	132568	028099-7230.....	135384
A948.....	130137	28150-22011-000.....	130814	028099-2940.....	132004	028099-7231.....	135385
F564C.....	133018	28150-24010-000.....	231997	028099-3000.....	139495	028099-7240.....	139046
NC7-17.....	230368	28150-24061-000.....	130814	028099-3001.....	139495	028099-7242.....	139046
NC7-7.....	230369	28150-25010-000.....	130814	028099-3010.....	132568	028099-7520.....	233689
NM1-9.....	191274	28150-25032-000.....	130814	028099-3020.....	132568	028099-7590.....	139654
NS200-4T1.....	191266	28150-31050-000.....	131084	028099-3030.....	132567	028099-7750.....	139532
NS209-10Z1.....	192065	28150-33020-000.....	130814	028099-3031.....	132567	028099-7751.....	139532
NS209-14Z1.....	190549	28150-34070-000.....	130814	028099-3040.....	139495	028099-7752.....	139532
NS212-2Z1.....	191321	28150-37010-000.....	131807	028099-3041.....	139495	028099-7800.....	139494
NS230-7T1.....	192145	28150-41011-000.....	130814	028099-3080.....	132043	028099-7812.....	139494
NU11-10T1.....	191439	28150-56011-000.....	137033	028099-3090.....	132043	028099-8672.....	132567
NU11-1T1.....	190520	28150-56011-000.....	137033	028099-3110.....	135310	028099-8701.....	132567
NU11-3T1.....	190779	28150-87203-000.....	130814	028099-3130.....	134806	028099-8911.....	233689
NU11-7T1.....	191305	28150-87205-000.....	133723	028099-3130.....	134806	028099-8940.....	233689
NW1-14Z1.....	191290	28150-87505-000.....	133723	028099-3160.....	132565	028099-8960.....	139532
<b>CHEVROLET</b>							
334100.....	334100	28150-87506-000.....	133723	028099-3170.....	133599	028099-8961.....	139532
<b>CHRYSLER</b>							
480428.....	130536	28150-87701-000.....	131807	028099-3210.....	133355	028099-9130.....	135384
1658883.....	139858	28160-64040-000.....	137978	028099-3230.....	132865	028099-9131.....	135384
2084666.....	132741	28226-72080-000.....	139495	028099-3270.....	133353	028099-9701.....	237531
2095122.....	130536	28254-64040-000.....	233546	028099-3290.....	132865	028099-9791.....	332477
2095137.....	CHX101P	28254-77090-000.....	138569	028099-3310.....	132405	028100-3001.....	135751
2095145.....	CHX101P	<b>DELCO REMY → REMY (DELCO)</b>		028099-3380.....	135003	028100-3002.....	135751
2095219.....	131413	<b>DENSO</b>		028099-3390.....	132568	028100-3770.....	135790
2095397.....	130536	1123433007.....	191330	028099-3399.....	132568	028100-3810.....	135751
2095410.....	140186	2003300015.....	190782	028099-3400.....	132044	028100-4360.....	135790
2095606.....	139858	2910012132.....	190540	028099-3430.....	140396	028100-4430.....	135790
2098360.....	130493	2911051237.....	190492	028099-3510.....	140363	028100-5110.....	135790
2098986.....	140186	2916011012.....	190589	028099-3550.....	140976	028100-5410.....	232908
2275249.....	CHX101P	2916060013.....	190582	028099-3560.....	140361	028100-5540.....	135790
2275550.....	CHX101P	2916710604.....	190826	028099-3570.....	140361	028100-6010.....	136885
2444651.....	130536	0208-23-756.....	140357	028099-3780.....	132564	028100-6150.....	230057
2444658.....	130536	021200-2120.....	132796	028099-3781.....	132564	028100-6350.....	136897
2525283.....	130552	021200-3251.....	135590	028099-3800.....	132004	028100-6630.....	230057
2525287.....	130538	021660-0440.....	132570	028099-3860.....	132567	028100-6710.....	136897
3202630.....	130499	021660-0441.....	132570	028099-3900.....	135830	028100-7110.....	136897
3204049.....	130499	021660-0442.....	132570	028099-3910.....	139147	028100-7680.....	136885
3205022.....	130499	0222-24-753.....	140347	028099-3930.....	132566	028100-7750.....	230057
3225629.....	130493	028000-0085.....	130441	028099-3940.....	135310	028110-1910.....	135751
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3874817.....	140187	028062-0480.....	132888	028099-5460.....	132405	028200-1531.....	132796
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				028099-5730.....	134806	028200-1900.....	132869
				028099-5730.....	134806	028200-2120.....	132796
				028099-6180.....	140740	028200-2140.....	134369



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
028200-2230	132553	028300-2081	134806Z	028300-6692	333753	028401-6331	136935
028200-2290	135853	028300-2110	132004	028300-6700	135002	028401-6490	231529
028200-2800	139701	028300-2111	132004	028300-6710	136899	028403-0081	140326
028200-4540	132796	028300-2220	134806	028300-6750	233180	028403-0081	B140326
028200-5040	137978	028300-2220	134806Z	028300-6751	233180	028403-0082	140326
028200-5210	136862	028300-2222	134806	028300-6840	233398	028403-0082	B140326
028200-5250	138675	028300-2222	134806Z	028300-6850	134806	028403-0130	140330
028200-5340	136862	028300-2240	130442	028300-6850	134806Z	028403-0131	140330
028200-5871	136884	028300-2270	132004	028300-6860	137950	028403-0139	140330
028200-5991	236958	028300-3340	135002	028300-6880	138956	028403-0200	141153
028200-6220	132869	028300-3350	130442	028300-6940	132004	028500-0550	133337
028200-6230	132869	028300-3351	130441	028300-6960	136086	028500-0551	133337
028200-6240	135853	028300-3460	135445	028300-6960	335401	028501-0970	136183
028200-6250	136896	028300-3490	130442	028300-6990	137753	028501-6490	231529
028200-6260	137953	028300-3570	133631	028300-6990	137753Z	028501-6510	231387
028200-6850	137978	028300-3571	133631	028300-7000	134806	028501-6600	231483
028200-6860	139148	028300-3590	138137	028300-7000	134806Z	028501-6890	136183
028200-7430	134369	028300-3631	132004	028300-7120	132004	028501-7200	231529
028200-7440	137978	028300-3690	233451	028300-7170	137753	028501-7650	231600
028200-8280	237545	028300-3690	333753	028300-7170	137753Z	028510-0460	133661
028300-0085	130441	028300-3691	233451	028300-7270	139244	028510-0480	133661
028300-0611	130441	028300-3691	333753	028300-7530	233398	028510-0500	132874
028300-0630	130441	028300-3710	130442	028300-7590	130442	028510-0560	132559
028300-0660	130442	028300-3750	130442	028300-7610	233456	028510-0632	133715
028300-0700	130441	028300-3810	135002	028300-7660	234720	028510-0640	132873
028300-0800	130441	028300-3880	133441	028300-7661	234720	028510-0651	235049
028300-0801	130441	028300-3930	134806Z	028300-7680	233456	028510-0660	133661
028300-0830	132545	028300-3950	132942	028300-7700	139653	028510-0661	133661
028300-0831	132545	028300-3952	132942	028300-7720	137952	028510-0750	132872
028300-0851	131110	028300-3970	133714	028300-7760	139244	028510-0830	136314
028300-0900	130442	028300-4000	136795	028300-7790	139653	028510-0840	132873
028300-0901	130442	028300-4011	136796	028300-7802	138566	028510-0880	138672
028300-0911	130442	028300-4081	136796	028300-7860	233456	028510-5010	137021
028300-1020	131110	028300-4082	136796	028300-7920	139845	028510-5190	136103
028300-1230	132634	028300-4091	136795	028300-7940	230856	028510-5190	335007
028300-1280	132634	028300-4160	132004	028300-7980	137753	028510-5270	133715
028300-1380	138137	028300-4170	233180	028300-7980	137753Z	028510-5310	133661
028300-1381	138137	028300-4300	132004	028300-7990	137753	028510-5320	132872
028300-1382	138137	028300-4320	132547	028300-7990	137753Z	028510-5350	138419
028300-1383	138137	028300-4390	133712	028300-8011	233641	028510-5360	137955
028300-1384	138137	028300-4410	133631	028300-8020	136795	028510-5390	132874
028300-1385	138137	028300-4420	132004	028300-8100	233456	028510-5450	137955
028300-1386	138137	028300-4471	133441	028300-8150	139653	028510-5500	132873
028300-1387	138137	028300-4550	132942	028300-8160	235497	028510-5510	132872
028300-1388	138137	028300-4551	132942	028300-8350	137753	028510-5660	138419
028300-1389	138137	028300-5040	133805	028300-8350	137753Z	028510-5800	139150
028300-1390	138137	028300-5090	132942	028300-8870	239557	028510-6020	139150
028300-1540	131110	028300-5091	132942	028300-9160	335130	028510-7620	332665
028300-1542	131110	028300-5180	133631	028300-9541	333836	028514-5020	133808
028300-1600	132004	028300-5300	134806	028301-0080	230857	028520-5010	133810
028300-1601	132004	028300-5300	134806Z	028301-0190	230857	028530-0341	140358
028300-1602	132004	028300-5340	132004	028301-0220	230857	028530-0390	140358
028300-1603	132004	028300-5350	132004	028301-0500	230857	028530-0480	140393
028300-1660	132634	028300-5380	138681	028306-0061	132896	028530-0481	140393
028300-1670	132545	028300-5381	138681	028306-0070	132885	028530-0487	140393
028300-1690	130441	028300-5400	234402	028325-0110	237555	028530-0932	140566
028300-1730	132942	028300-5450	233451	028327-0140	137865	028530-0933	140566
028300-1740	132545	028300-5450	333753	028327-0170	138148	028530-0980	140566
028300-1790	132004	028300-5650	138566	028327-0171	138148	028530-0990	141240
028300-1791	132004	028300-5651	138566	028371-1500	138569	028530-0991	141240
028300-1800	132004	028300-5670	138566	028371-1980	133356	028530-1020	140566
028300-1810	136315	028300-5671	138566	028371-2240	132566	028530-1021	140566
028300-1811	136315	028300-5720	234230	028371-3200	235140	028530-1030	140566
028300-1812	136315	028300-5740	135003	028371-3210	235211	028530-1031	140566
028300-1840	132863	028300-5741	135003	028371-5010	233546	028530-1090	140963
028300-1841	132863	028300-5800	135651	028371-5390	132866	028530-1100	140963
028300-1842	132863	028300-5810	132545	028371-5653	135570	028530-5030	141240
028300-1930	130442	028300-5820	133805	028371-5730	139147	028530-5031	141240
028300-1950	130442	028300-5850	133712	028371-6190	133356	028530-5060	140570
028300-1951	130442	028300-5900	131110	028371-6490	135570	028530-5061	140570
028300-1970	136796	028300-5990	132004	028371-6780	135570	028531-0110	140356
028300-1971	138681	028300-6010	234970	028371-6960	135570	028531-0230	140359
028300-2000	132004	028300-6070	136086	028371-6980	139654	028531-0300	140359
028300-2010	132942	028300-6670	133631	028371-7060	139147	028531-0350	140359
028300-2011	132942	028300-6680	137751	028371-7070	237012	028531-0380	140360
028300-2012	132942	028300-6690	233451	028371-7590	139654	028531-0450	140362
028300-2040	138566	028300-6690	333753	028381-0040	134807	028531-0632	140361
028300-2070	132942	028300-6691	233451	028381-5140	137864	028531-0680	140363
028300-2081	134806	028300-6692	233451	028381-5150	137864	028531-0720	140396

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>DENSO</b> <i>Continued</i>							
028531-0730	140396	053400-3590	131807	053400-9681	230576	153400-0540	137566
028531-0840	140364	053400-3710	130814	053400-9682	230576	153400-0740	230582
028531-0946	140362	053400-3720	130814	053400-9750	234876	153400-0850	133809
028531-3510	140363	053400-3810	130814	053400-9751	234876	153400-0860	131807
028531-5050	140602	053400-3840	131807	053400-9890	233952	153400-0960	230576
028531-5630	140364	053400-3890	131807	053400-9891	233952	153400-0961	230576
028531-5650	140361	053400-3930	131807	053404-0210	132878	153400-0970	230576
028531-5651	140361	053400-3931	131807	053404-0240	132879	153400-0971	230576
028531-6390	JSX74-75-76-774	053400-3932	131807	053404-0320	132878	153400-1240	230576
028531-6400	JSX74-75-76-774	053400-3940	137566	053480-0090	131835	153400-1290	230576
028531-6410	JSX74-75-76-774	053400-4090	230576	053480-0100	131834	153400-1320	137566
028531-6420	JSX74-75-76-774	053400-4091	230576	053480-0110	132705	153400-1321	137566
028531-6660	140602	053400-4100	230576	053480-0380	131834	153400-1340	230582
028531-7331	JSX72-734	053400-4530	132641	053480-0430	135650	153400-1371	230827
028531-7340	JSX72-734	053400-4540	137566	053480-0431	135650	153400-1400	230827
028630-5010	137979	053400-4700	137566	053480-7220	131834	153400-1490	230576
028635-5010	136085	053400-4731	138567	053480-7300	135313	153400-1510	234992
028635-5050	237533	053400-4753	230827	053480-7320	131834	153400-1520	136886
028740-5010	133812	053400-4754	230827	053480-7430	131834	153400-1570	230576
028740-5060	139051	053400-4790	230576	053480-7510	137204	153400-1880	230582
028740-5140	139884	053400-4810	233951	053480-7550	137204	153400-1890	230582
028740-5150	139492	053400-4850	137566	053480-7670	137204	153400-2080	230576
028901-0361	233084	053400-4870	131807	053480-7790	230898	153400-2230	233703
028903-5040	191546	053400-5000	134933	053480-7900	231626	153400-2240	230578
053400-0150	131084	053400-5001	134933	053480-7901	231626	153400-2250	230582
053400-1040	130814	053400-5050	131807	053480-7950	231626	153400-2290	230576
053400-1041	130814	053400-5120	133723	053659-7060	135342	153400-2310	137566
053400-1102	130814	053400-5150	133723	053659-7070	135343	153400-2320	230574
053400-1150	231997	053400-5240	131807	053660-0401	132563	153400-2430	235859
053400-1151	231997	053400-5250	134933	053660-0402	132563	153400-2540	234960
053400-1260	130814	053400-5251	134933	053660-0440	132563	153400-2650	230576
053400-1300	131807	053400-5280	133675	053660-0441	132563	153400-3750	136886
053400-1530	130814	053400-5282	133675	053660-0442	132563	153400-3831	234419
053400-1630	134413	053400-5290	133675	053660-0443	132570	153400-4040	230576
053400-1680	134413	053400-5292	133675	053660-0660	132570	153400-4110	235067
053400-1720	132641	053400-5560	131807	053660-7050	135865	153400-4140	233703
053400-1740	231997	053400-5640	230576	053660-7051	135865	153400-4291	234143
053400-1810	131084	053400-5800	230576	053660-7100	132563	153400-4292	234143
053400-1811	131084	053400-5820	133723	053660-7111	132570	153400-4293	234143
053400-1830	131084	053400-6030	132641	053660-7120	136374	153400-4531	235098
053400-1831	131084	053400-6050	134413	053660-7121	136374	153400-4532	235098
053400-1870	231997	053400-6230	230576	053660-7150	136901	153400-6520	230582
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053400-1900	137033	053400-6290	230576	053660-7170	132570	153400-7610	237806
053400-1970	230576	053400-6500	131807	053660-7240	230221	153400-8403	237531
053400-2090	134413	053400-6550	131807	053660-7241	230221	153400-9320	332987
053400-2120	231997	053400-7050	230576	053660-7250	132563	17381-63211	134807
053400-2160	131084	053400-7120	230576	053660-7260	132563	182800-0930	133711
053400-2250	231997	053400-7130	133809	053660-7270	233375	182800-1040	133711
053400-2251	130814	053400-7220	131807	053660-7271	233375	182800-1050	133711
053400-2340	130814	053400-7300	230574	053660-7710	132563	182800-1210	133711
053400-2440	130814	053400-7301	230574	053665-7090	231733	182800-1570	133711
053400-2540	131807	053400-7650	131807	053680-7120	136374	182800-3140	230386
053400-2551	131084	053400-7800	135652	081020-0011	234984	182800-3140	333281
053400-2557	131084	053400-8110	137566	081135-0020	190815	23322-6T000	235313
053400-2600	137566	053400-8111	137566	127400-9730	234881	27160-77090	132553
053400-2740	132641	053400-8112	137566	128099-5160	138567	28011-22020	131110
053400-2790	230576	053400-8113	137566	128099-5240	139047	28017-19500	131830
053400-2870	132641	053400-8510	135652	128099-5241	139047	28017-19502	131831
053400-2880	130814	053400-8690	133809	128099-5350	234911	28017-19512	131832
053400-2950	137566	053400-8730	133809	128099-5360	133353	28111-46011	140330
053400-3000	231997	053400-8740	133723	128099-6312	332665	28111-51011	140326
053400-3010	231997	053400-8750	138014	128099-6740	140961	28140-15090	132872
053400-3060	230576	053400-8780	133809	128300-0090	233641	28140-34030	140362
053400-3061	230576	053400-8800	230576	128400-0280	134503	28140-54070	140364
053400-3062	230576	053400-9130	230576	128400-1700	134510	28142-10011	140357
053400-3080	230576	053400-9131	230576	128401-1790	136182	28142-25010	140356
053400-3081	230576	053400-9410	234681	128800-3140	230386	28142-25011	140360
053400-3330	130814	053400-9411	234681	128800-3140	333281	28142-46020	140358
053400-3340	131084	053400-9412	234681	128950-0400	191546	28142-54070	140976
053400-3350	130814	053400-9500	137566	128953-0050	137858	28150-12030	131084
053400-3370	231997	053400-9560	230576	128953-0080	233868	28150-41011	130814
053400-3410	130814	053400-9561	230576	128960-0040	191546	28150-87512	138014
053400-3470	230574	053400-9570	137566	128961-0010	132894	28160-11711	136862
053400-3490	132641	053400-9571	137566	153400-0140	230576	281997-4070	137976
053400-3491	132641	053400-9630	233951	153400-0141	230576	312205-2A20	133809
053400-3492	132641	053400-9640	230576	153400-0142	230576	385300-480	140393
053400-3540	134413	053400-9670	230576	153400-0331	233703	480841-0010	132889
053400-3570	132641	053400-9680	230576	153400-0332	233703	90099-10058	140325



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
90170-10061	191305	949103-3610	140425	583007	131010	<b>EFEL</b>	
901900-8651	191513	949103-3840	140426	583036	131013	00460	138927
90190-08651	191513	949103-3850	140427	583079	133178	00461	138927
902580-6001	190580	949103-4320	140965	583159	131208	01360	138927
90258-06001	190580	949103-4330	140792	583249	133228	01361	138927
90258-14001	191288	949103-4340	141011	583261	133120	02189	130328
90557-15000	191270	949104-0990	140788	583277	132181	04009	132324
908012-0420	132893	949105-0100	140767	583289	132181	04117	190510
908012-0470	132891	949105-0110	140768	583331	133120	04143	138927
908041-0050	134484	949105-0130	141086	583333	133122	04197	138927
91050-05081	191545	949105-0160	140767	583336	132181	05880	130281
91310-04121	190536	949105-0200	140767	583348	140533	06190	130317
91310-04251	191478	949120-0240	132894	583618	133120	06190	333732
91418-05141	192145	949140-3440	133717	584185	135389	06195	130338
948007-0010	192065	949140-3680	138433	584185	335230	06548	130332
949006-1830	190558	949140-3700	132892	600609	140042	06702	132049
949006-3840	230721	949140-4620	230147	600609	B140042	06703	131443
949006-4880	190558	949140-5670	133717	600628	140042	06706	131454
949006-4930	230721	949150-1050	135851	600628	B140042	06713	131445
949006-5020	190539	949170-3371	137858	601476	140040	06780	130297
949006-5080	191531	949170-3380	135342	601476	B140040	06793	131448
949006-5460	191586	949170-4030	137859	605028	130432	07925	130848
949006-5470	191586	949170-4070	138608	605055	130432	07950	130282
949006-6401	191319	949170-4260	135344	606415	131188	08295	130296
949006-6690	190558	949170-9100	133710	606416	130434	08440	130300
949006-6970	190538	949170-9770	135342	606753	131009	08642	131449
949007-1810	190536	949173-0571	132551	606858	131010	09185	130293
949007-1970	190558	949340-0531	131838	606892	131010	09203	140109
949007-2590	190537	949340-0660	131837	606893	131009	09351	138927
949007-2850	191586	949340-0820	131838	606894	131010	09400	130373
949007-3120	191329			606903	131010	09453	131499
949007-3370	191586	<b>DUCELLIER</b>		606913	131010	10613	131429
949007-3660	191327	1412	131010	606916	131208	11400	130477
949007-3930	191586	1414	131009	606919	131208	11586	131185
949007-4100	191554	1424	131010	607918	131007	11586	333293
949007-4110	190538	1426	131010	608407	131007	11850	131184
949007-6280	191586	8249	131009	609477	130434	12310	131790
949007-6530	191660	16866	132078	611734	131188	12320	131053
949007-6850	191545	17946	131188	611736	130434	12490	131141
949007-7450	191327	17952	131010	612355	130432	12670	131370
949010-2000	191350	18678	130434	618010	131010	12680	131371
949013-8110	233690	19567	130434	618136	131010	12690	333152
949015-0720	191288	20795	132078	618220	131208	12690	1313722
949042-1840	191585	22405	131010	618480	131010	12700	333153
949042-2270	231627	28936	140264	618511	131010	12700	1313732
949042-2960	191528	28936	B140264	618695	131009	36505	131253
949042-3741	231627	60111	131208	672541	140050	36510	131254
949044-4270	190474	60846	130424	672541	B140050	36625	131080
949047-1961	190479	60991	130425	680558	133177	36630	130492
949047-2130	191546	68412	140040	680559	131009	72006	138927
949047-3410	190474	68412	B140040	680560	131009	79273	131453
949047-4440	191545	68430	140043	680565	133177	80274	131453
949047-5010	190549	68430	B140043	680566	131009	80275	131453
949047-5440	191326	68902	140043	680663	130432	85215	140197
949047-7870	191545	68902	B140043	680952	131208	85222	140198
949050-1080	192228	68903	140043	680955	131208		
949056-0750	191308	68903	B140043	680958	133122	<b>ELMOT</b>	
949056-1001	191308	072083	235088	681378	130424	8083006	130945
949056-1130	191308	073811	130434	681380	130434	8084046	J5X52
949056-1370	191513	079238	235088	681398	132078	8084316	140050
949056-2360	191513	079240	235088	681411	131010	8085316	234715
949056-3080	191308	79692	130434	682102	131010	8087006	130740
949056-3300	191513	82775	140064	682115	131010	8088006	130848
949056-3460	191513	82775	B140064	682150	130432	8097002	133841
949056-4480	191305	84909	140043	682244	131007	8097002	333855
949062-1010	132900	84909	B140043	683262	133122	9084020	140046
949072-0400	138026	87880	140068	683334	132170	9084040	J5X134
949072-1320	136087	94909	140257	683456	133122	9085020	140049
949072-1360	136087	94909	B140257	683457	133122	9087000	132075
949072-1580	136087	97658	140040	683487	133120	9240000	131437
949102-0070	140777	97658	B140040	701412	131009	9244000	131437
949103-0390	141237	98888	140038	701414	131009	9540000	131437
949103-0540	140325	98888	B140038	701424	131010	8060014040	BSX964
949103-1320	140325	131323	131323	701426	131010		
949103-2020	140325	132147	B132147	708289	131010	<b>ESPEL</b>	
949103-2420	140778	133889	133889	760111	131208	330	234072
949103-3160	140333	134158	134158	777265	131208	331	234070
949103-3160	B140033	140621	140621			332	231525
949103-3600	140424	581381	131007			334	234073

## STARTER COMPONENTS

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O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>EXMARK</b>		14898-1	130449	4171243	130373	9930715	130301
1-513075	234072	15053-4	131713	4174892	JSX184	9930715	130301Z
<b>FACET</b>		17061-10	130738	4185547	JSX194	9932916	140048
10016	131220	17061-12	130731	4189658	130377	9932923	132194
10061	130542	17061-14	130737	4199658	131437	9933236	130386
10527	130540	17061-26	131716	4202988	130737	9935727	131437
10528	130538	17061-3	130737	4226442	130739	9935731	131109
10530	138128	24460-M8011	231001	4240449	131220	9935940	140256
10531	131769	30430-1	130377	4243124	130738	9935948	130737
10533	133545	3305-10	140436	4249166	130737	9936044	140268
10540	130538	3305-10	B140436	4255496	JSX162	9936049	130737
10583	131770	3305-13	140156	4259228	JSX52	9936050	132188
10612	132695	3305-2	140043	4262329	130945	9936594	130475
10621	133507	3305-2	B140043	4267879	130377	9936623	132227
10627	138332	3305-3	140064	4275899	130377	9936660	131143
10631	131429	3305-3	B140064	4287975	130945	9936660	333147
10632	133545	3305-40	140065	4287980	130740	9936671	131101
10633	133545	3305-40	B140065	4309853	130848	9936724	130115
10639	133507	3305-44	140014	4474695	130739	9936770	131112
10640	131481	3305-44	B140014	4474964	130373	9936772	131109
10640	335646	3305-56	140043	4475032	130739	9936996	131715
10641	230911	3305-56	B140043	4475085	131437	9937207	131716
10641	230911Z	3305-69	140004	4475093	131437	9937419	131716
10647	131768	3305-71	140020	4475095	131437	9938235	132188
10648	131766	3305-71	B140020	4475122	130738	9938364	140269
480118	131056	3305-74	140010	4475185	JSX134	9938368	140269
480135	132731	3305-74	B140010	4988518	231330	9938390	132228
480168	133864	3305-89	140014	5483624	132268	9938442	230325
480197	130535	3305-89	B140014	5526426	132268	9938503	131437
480216	130535	3835-38	140269	7980335	131112	9938576	131437
480217	131767	3835-38	B140269	7980336	131115	9939194	131998
480320	131768	9586-1	130920	7984628	134670	9939837	133841
480321	130539	<b>FENDT</b>		8122126	130418	9939837	333855
480321	130539Z	V836879546	192586	8190402	135242	9939915	132119
480322	132731	<b>FIAT</b>		8997805	130301	9941300	230757
480324	131767	130361	131437	8997805	130301Z	9941301	132249
480410	232632	637403	140046	9003925	132049	9941306	134859
480411	131056	850203	134643	9004229	130418	9941307	133567
480414	231970	850208	140065	9004794	130417	9941308	133566
480417	131770	850211	140221	9006208	130477	9941314	131104ZZ
480427	130535	851075	130539	9008720	130325	9941324	132820
480436	130535	851075	130539Z	9008721	130325	9941371	132818
480438	130536	851075	130539Z	9009423	130281	9941371	132818Z
480461	130537	852763	130539	9011087	130328	9941461	133083
480466	136318	852763	130539Z	9018546	140020	9941642	132188
480467	132694	853160	JSX94	9018718	130417	9941751	131715
480468	131769	879898	130437	9817132	131141	9942333	133566
480476	133864	883323	135644	9817926	130301	9944575	139104
481999	130535	908431	140050	9817926	130301Z	9945556	135717
E480320	131768	4007952	140046	9916076	140050	9945557	137190
E480321	130539	4007972	140046	9917925	132303	9945630	137191
E480321	130539Z	4034352	335584	9918339	140010	9946913	135117
E480322	132731	4045771	JSX134	9918356	130297	9947748	138985
E480324	131767	4047985	140049	9918362	130968	9947748	138985Z
E480410	131766	4059387	130735	9920368	131773	9947959	230809
E480413	132732	4059435	130735	9920672	131107	9948135	139902
E480417	131770	4073327	131437	9920699	130283	9948346	135717
<b>FEMSA</b>		4073339	131437	9920699	333162	9955125	130301
3350	131714	4073386	JSX204	9923722	130325	9955125	130301Z
3550	131714	4106093	131220	9923764	140140	9956426	130946
9328	130920	4111194	130439	9923779	130417	9956550	131670
131325	131325	4114431	140048	9923794	130281	9956552	MASX17-184
132229	132229	4114432	JSX162	9924342	130328	9956556	MASX17-184
140690	140690	4114442	140047	9924764	140140	9956666	131141
140690	B140690	4120548	130945	9925687	130281	9956670	130115
10332-9	131437	4141057	132075	9925774	140046	9957705	131112
12665-12	140155	4141358	134643	9926095	130301	9957707	131109
13784-27	BSX124	4142235	130737	9926095	130301Z	9957965	133985
13784-29	BSX444	4142235	130737	9926496	130939	9959560	130301
13784-37	JSX162	4142558	131437	9927593	130282	9959560	130301Z
13784-5	JSX52	4144242	335584	9927783	140202	9959566	132303
13784-59	JSX134	4145751	130737	9927789	140202	9959805	130302
13784-68	JSX52	4145978	131220	9927791	MASX13-144	9959805	130302Z
13784-7	JSX134	4153587	131437	9927792	MASX13-144	9959806	132254
13784-83	BSX444	4154106	130367	9927796	140201	9981246	130946
13784-84	FESX25-262	4154293	130738	9928448	MASX15-164	9983622	130115
		4166937	130848	9928450	130386	9983635	131138
		4169942	140109	9929080	MASX15-164	9984108	132254
		4169960	130739	9929081	131109	9984246	130418



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
9986109.....	131115	C6FF11350A.....	133864	E5TZ11450A.....	232220	F8ZZ11390AA.....	231179
9986112.....	131109	C6FF11350B.....	133864	E6HZ11350A.....	133507	F90Z11350A.....	136633
9986144.....	131112	C6FY11350A.....	130535	E6HZ11390B.....	131369	MC12.....	140189
9986329.....	139131	C6TZ11350A.....	130538	E6HZ11390C.....	131369	MC189A.....	140242
62165801.....	MASX23-244	C6VF11135A.....	140242	E7GZ11061A.....	135467	MC209A.....	140844
72362701.....	134681	C6VY11135A.....	140242	E7GZ11350A.....	132005	MC220.....	140188
77365121.....	330495	C6VY11350A.....	130535	E7HZ11390B.....	139209	MC244.....	140188
79026089.....	130115	C6VY11350A1.....	130535	E7TZ11450A.....	232220	MC3.....	140188
79033956.....	130301	C7AF11350A.....	130535	E8BZ11350A.....	134918	MC442.....	140842
79033956.....	130301Z	C7AF11350A1.....	130535	E8TZ11450B.....	231930	MC445.....	141075
79081045.....	132821	C7AF11450A.....	130493	E8TZ11450A.....	231930	MC93.....	140193
82187534.....	140014	C8DF11350A.....	130539	E90F11448BA.....	140620	MCE439.....	140555
85540201.....	333991	C8DF11350A.....	130539Z	E90F11A67AA.....	136641	MCE443.....	135574
85541030.....	138167	C8JF11350A.....	130535	E90Z11061A.....	136635	MCE444.....	140758
85541070.....	138531	C8JS11350A.....	133854	E90Z11061B.....	136635	N805481S36.....	192591
85541080.....	138533	C8TZ11350A.....	131770	E90Z11061C.....	136635	SB331.....	136635
90062082.....	233734	C8TZ11350B.....	131056	E90Z11067A.....	136636	SB335.....	136635
90117304.....	135645	C8TZ11350D.....	131056	E90Z11135A.....	140842	SB337.....	136635
99036046.....	134291	C8VF11350A.....	130535	E90Z11350A.....	136633	SB348.....	136635
832220401.....	J533	C8VF11350B.....	130535	E90Z11390A.....	136632	SB353.....	136635
832220401.....	J534	C8VF11350B1.....	130535	E90Z11390B.....	136632	SB356.....	136635
832220401.....	JSX33-344	C8VF11350D.....	130535	E90Z11A165A.....	136638	SB417.....	132917
832220411.....	J533	C8VY11350A.....	130535	E90Z11A167A.....	136640	SBE324.....	133339
832220411.....	J534	C8WF11350A.....	131770	E90Z11A172A.....	135574	SBE325.....	135467
832220411.....	JSX33-344	C9FF11350A.....	133864	E90Z11K190A.....	136641	SBE334.....	135467
9405835568.....	131111	C9FF11350B.....	133864	E90Z1K190A.....	136641	SBE345.....	135467
9935196/97.....	MASX17-184	C9HE11350A.....	130539	E90Z11061A.....	136635	SBE351.....	231460
<b>FORD</b>		C9HE11350A.....	130539Z	E90Z11061B.....	136635	SD152.....	130535
106688.....	139341ZZ	C9HZ10350A.....	130535	E90Z11061C.....	136635	SD164.....	130535
72738614.....	335625	C9HZ11350A.....	130535	E90Z11350A.....	136633	SD175.....	130535
10670F7RU.....	139341ZZ	C9WF11350C.....	131056	E90Z11A165A.....	136638	SD176.....	130535
139341ZZ.....	139341ZZ	D0AF11052A.....	140188	E9TZ11450A.....	231930	SD180.....	131770
15U11000AC.....	239804	D0AF11135B.....	140844	ETTZ11450A.....	231930	SD302.....	130535
15U11000AD.....	239804	D1AZ11059A.....	132741	F0ZZ11390A.....	136632	SD303.....	133854
234135Z.....	234135Z	D2DZ11450A.....	130493	F0FZ11350A.....	231961	SD320.....	132751
2701E11390A.....	130855	D3AZ11052A.....	140188	F0JY11135A.....	140758	SD337.....	136633
2701E11390A.....	131248	D4HF11350BA.....	130539	F0TZ11355A.....	136637	SD340.....	231961
2701E11390A.....	131788	D4HF11350BA.....	130539Z	F0TZ11355H.....	136637	SD341.....	231960
53R211350A.....	138209	D4HF11350AA.....	131056	F1RU11A160AB.....	230743	SD353.....	138209
78GB11005BA.....	130115	D4NN11390B.....	130855	F2TZ11005A.....	231138	SD357.....	136633
78GB11390AA.....	131189	D4NN11390B.....	131248	F2TZ11135A.....	141075	SD499.....	131986
81AB11390BA.....	137720	D4NN11390B.....	131788	F2VY11350A.....	231960	SDE332.....	132005
82GB11037AB.....	135777	D5AF11350AA.....	130535	F3RZ11061A.....	136635	SDE332.....	132005Z
83BB11005BA.....	130115	D6AF11448AA.....	140242	F3RZ11350A.....	138209	SDE334.....	134918
84AB11067AB.....	132808	D6AZ11135A.....	140242	F3RZ11390A.....	138496	SDE349.....	132005
84AB11067AB.....	333537	D6FF11350AA.....	133864	F3RZ11390B.....	138496	SDE349.....	132005Z
84VB11390AA.....	134888	D6PF11A108BA.....	130535	F3VY11390A.....	136632	SDE350.....	134918
B11052.....	140264	D6PZ11350B.....	130535	F3VY11390B.....	136632	SM461.....	139352
B140975.....	B140975	D6TZ11390A.....	130499	F4BZ11061A.....	135467	SM476.....	136638
B6AZ11450A.....	130493	D7AZ11057A.....	140548	F4BZ11350A.....	132005	SM482.....	231138
B8TZ11450B.....	231930	D7NN11390A.....	131786	F4BZ11350A.....	132005Z	SW03.....	130493
BD7T11450A.....	130493	D7NN11390B.....	130855	F4BZ11350B.....	134918	SW1162.....	133856
BD7T11450T.....	130493	D7NN11390B.....	131248	F4DZ11390A.....	136632	SW1533.....	231930
CODZ11135A.....	140189	D7NN11390B.....	131788	F4TZ11005A.....	139352	SW1533A.....	231930
C1AZ11350A.....	235624	D8AF11055BA.....	140548	F4TZ11049A.....	232491	SW1533C.....	231930
C1VF11350A.....	130535	D8AF11056AA.....	140548	F4TZ11061A.....	231460	SW1864.....	131590
C1VY11350A.....	130535	D8VY11450A.....	231930	F4TZ11091A.....	231460	SW1951A.....	232220
C20F11350C.....	130535	D9AZ11450A.....	130493	F4TZ11363A.....	231456	SW1951B.....	232220
C2DF11052A.....	140193	E0Z211390A.....	136632	F4TZ11390A.....	231457	SW1951C.....	232220
C2DF11135A.....	140467	E1HZ11390A.....	131363	F4XY11005A.....	231471	SW2114.....	231914
C2DH11052A.....	140193	E2BZ11350A.....	132751	F4XY11067A.....	135468	SW2157.....	139209
C2DZ11350A.....	130539	E2NN11390AA.....	133043	F4XY11390A.....	231454	SW2188.....	136632
C2DZ11350A.....	130539Z	E2PZ11350A.....	132751	F5BU11350AA.....	139710	SW2207.....	136632
C3DE11350A.....	130539	E3PZ11062A.....	135338	F5DZ11350A.....	136633	SW2245.....	136632
C3DE11350A.....	130539Z	E3PZ11390A.....	131590	F5RU11350RA.....	138209	SW2502.....	136632
C3TS11390A.....	131363	E3RZ11390A.....	138496	F5RZ11A198A.....	231377	SW2502A.....	136632
C3TZ11390A.....	131363	E3TZ11390A.....	132473	F5RZ11A201A.....	231143	SW2506.....	138496
C3VF11350A.....	130535	E4FF11055AA.....	140548	F6VZ11390AA.....	231178	SW2507.....	138496
C3VF11350C.....	130535	E4FZ11135A.....	140242	F75U11070AA.....	136636	SW5038.....	136632
C40F11350A.....	130535	E4FZ11390A.....	131590	F75Z11390AA.....	231179	SW5112.....	231178
C40F11350B.....	130535	E4NN11390AC.....	133531	F78Z11390AA.....	138496	SW5189.....	231179
C40Z11350A.....	130535	E4TZ11390A.....	139614	F7RU11056AB.....	140955	SW5203.....	231178
C40Z11350B.....	130535	E5AZ11450A.....	231930	F7RU11075AA1.....	230740	SW5204.....	138496
C4TZ11052A.....	140188	E5DZ11350A.....	136633	F7RU11165CA.....	136638	SZE888.....	231456
C4TZ11390A.....	131364	E5PF11061A.....	133339	F7RU11434BA.....	230741	W500200S437.....	191545
C5JF11350A.....	130535	E5PF11434AA.....	133339	F7RU11A160AB.....	230743	XC1U11005AA.....	230739
C5NF10027B.....	130826	E5PZ11005A.....	139646	F7RUK614.....	139341ZZ	XS6411350AA.....	138209
C5NF11005C.....	130210	E5PZ11049A.....	232490	F81U11434AA.....	232670	XS6U11390AA.....	138496
		E5PZ11390A.....	139614	F8ZZ11390AB.....	231179	XS7U11390AA.....	138496
		E5TZ11049A.....	133338	F8ZZ11390BA.....	231179	YR8H19G405BA.....	190527

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O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>FORD EU → FORD</b>		1804	135072	2203	335558	3452	133467
		1805	135073	2209	137886	3454	133469
<b>FORD US → FORD</b>		1806	135074	2210	230830	3455	133470
		1808	134434	2212	234085	3456	133471
<b>GENERAL MOTOR</b>		1809	135081	2228	135271	3457	234887
90273737	131104ZZ	1810	136425	2229	135010	3458	234887
90421722	136255	1815	138299	2234	233836	3460	135056
90421772	136255	1822	133457	2234	333593	3464	135077
		1823	133436	2237	233846	3466	135078
<b>GHI</b>		1825	132519	2245	233830	3470	135971
0030	131714	1832	134966	2262	139653	3471	137812
0033	130417	1837	136888	2266	234247	3472	135970
1139	333990	1855	135713	2266	234247Z	3474	138991
1510	233842	1857	135068	2267	234946	3479	139143
1513	135251	1878	230158	2267	335815	3481	232853
1516	132702	1887	135716	2268	235025	3484	133475
1516	333209	1887	333194	2272	139147	3485	133476
1516	335235	1894	135715Z	2275	136633	3486	135080
1531	132119	1902	132085	2279	133606	3487	134516
1534	230144	1904	135718	2280	139244	3488	135079
1534	230144Z	1908	135601	2283	233398	3489	138989
1539	131724	1924	131271	2284	234774	3493	235164
1553	131344	1924	333217	2285	234808	3494	231751
1553	335644	1925	135598	2298	139654	3495	235105
1560	133841	1926	139336	2321	234504	3497	234956
1560	333855	1936	138252	2323	137464	3498	136638
1562	131475	1961	136614	2329	333594	3499	235173
1567	132852	1961	333544	2332	233451	3539	130317
1568	131588	1963	137293	2332	333753	3539	333732
1577	132587	1964	132566	2338	234124	3651	140003
1606	134018	1979	333886	2338	333171	3652	140012
1607	231884	1981	231885	2338	234124Z	3653	140004
1612	132205	1985	233845	2339	235199	3654	140010
1612	333196	1991	136854	2340	136796	3699	140256
1612	132205Z	1991	333177	2341	235726	3720	140563
1613	134723	1991	136854ZZ	2342	238851	3723	140242
1631	134859	1994	136795	2343	234535	3795	141115
1645	132542	1996	135830	2343	333195	3990	141206
1659	131503	2000	136855	2345	333127	4044	140040
1660	230757	2006	137480	2351	236883	4052	140435
1667	132285	2006	333179	2356	236375	4053	140436
1675	133439	2006	137480ZZ	2356	333182	4054	140374
1676	132386	2011	132387	2357	234785	4055	140977
1680	132004	2028	137890	2357	333551	4056	140006
1681	132489	2028	333181	2362	231960	4057	140996
1682	132483	2044	137950	2368	235200	4058	140050
1682	333873	2048	138875	2368	333872	4114	140320
1683	132942	2048	333183	2369	139410	4115	140321
1684	132863	2048	138875Z	2378	236270	4116	140326
1686	132721	2051	230144	2378	333864	4117	140328
1692	133896	2051	230144Z	2379	237379	4122	140322
1697	333991	2061	137753	2382	132009	4131	140333
1703	132123	2061	137753Z	2384	236130	4151	140987
1711	133448	2062	230857	2384	335232	4152	140842
1714	133451	2065	139341	2387	231093	4200	234680
1720	232481	2065	139341ZZ	2389	136086	4201	235136
1722	134806	2093	139585	2391	235663	4204	235592
1722	134806Z	2100	231478	2394	236609	4206	233497
1723	132043	2104	231202	2398	239080	4207	230743
1725	132459	2105	139710	2499	333125	6000	238793
1726	133042	2108	230339	2843	130405	6002	138332
1728	138681	2108	333200	2845	134722	6003	230911
1729	132405	2108	335405	2848	235810	6003	230911Z
1733	138566	2109	230340	2878	130401	6020	237752
1734	132865	2109	333215	2937	131108	6022	137751
1748	133449	2115	138209	2997	130414	6024	237105
1749	133450	2120	231371	2997	333516	6026	237769
1752	133459	2127	333126	2997	130414ZZ	6028	236832
1754	133456	2127	333862	3016	130995	6028	333198
1755	133457	2143	137277	3127	131101	6029	330452
1759	134644	2144	231897	3165	131432	6030	234242
1767	134284	2156	230280	3166	131150	6030	333224
1780	136969	2188	234293	3172	131102	6031	237667
1783	132043	2188	333211	3172	333220	6032	139520
1788	135069	2189	232623	3172	131102Z	6035	235425
1791	133291	2189	333564	3315	130419	6036	131481
1792	133007	2189	335236	3315	130419Z	6036	335646
1803	135071	2198	232229	3318	132308	6065	333879
		2203	231756	3451	133466	6079	330382



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
6104	236779	4547D	134214	7919D	230566	2114-15100	131988
6135	333929	4548D	134219	8246D	134225	2114-15504	131988
6137	335309	4680D	134218	8291D	140250	2114-15507	135091
6138	134434	4716D	134243	8292D	140249	2114-15507	135091ZZ
6140	235839	4717D	137404	8331D	139208	2114-15508	132448
6142	333930	4775D	134192	8522D	139990	2114-15550	131986
6159	239633	4794D	134708	8740D	136679	2114-15554	132003
6161	333398	4813D	134206	8763D	235136	2114-1560	130440
6161	333407	4825D	134256	8778D	134272	2114-1601	140311
6165	236359	4955D	134264	8931D	138989	2114-1601	B140311
6166	332614	5001K	230091	9388D	139207	2114-1605	140307
6167	332369	5002K	230338	9788D	235173	2114-17005	132093
6196	332915	5003K	132123	9956D	234680	2114-17006	132058
6237	333934	5004K	131503	9982D	232853	2114-17505	132093
6240	333954	5005K	135078	9983D	235164	2114-17602	132093
6242	333972	5007K	137812	9984D	234227	2114-17606	132094
6250	333344	5008K	138991	9985D	232978	2114-17616	132094
6252	335165	5011K	233460			2114-19003	140336
6253	333341	5012K	133466	<b>GRAVELY</b>		2114-19003/29003	140336
6266	333931	5013K	133467	044766	234072	2114-19008	133653
6274	236080	5014K	139143	045071	234072	2114-21100	138701
6307	230856	5017K	231143			2114-21111	137948
6314	333932	5018K	137527	<b>HARLEY DAVIDSON</b>		2114-23003	132424
6316	333933	5209D	140782	71469-65A	231811	2114-2302	140308
10008	235105	5274D	139990	71469-65B	231811	2114-23103	137653
10018	141115	5397D	132123	71469-77A	231811	2114-23104	137750
10081	141222	5404D	133476	71469-77B	231811	2114-23106	137121
10174	231143	5425D	131503			2114-23123	140338
10186	234956	5446D	140252	<b>HINO</b>		2114-23123/33123	140338
10188	136638	5449D	140035	28111-1180	140520	2114-23124	140933
10662	233497	5493D	134709	28140-1280	136529	2114-23124/6313	140933
10706	235592	5530D	134260	28142-1310	140829	2114-23124/83121	140933
10712	140842	5539D	134247	28142-1360	140828	2114-2313	140341
0505D	191273	5577D	134221	28142-1360	140828	2114-2315	140336
0528D	140617	5581D	134923	2814A-77090	140361	2114-2315/6313	140336
0537D	140620	5582D	134924	2814C-46013	140358	2114-25100	131986
0538D	140620	5586D	134267	28180-1240	136170	2114-25500	132459
0541D	135326	5618D	133475	28180-1260	136171	2114-25505	132459
0557D	230088	5701D	135362	28180-1320	136170	2114-25509	135059
0567D	135574	5761D	134269	28180-1330	136170	2114-2553	132459
0837D	140321	5788D	134231	28180-1370	136170	2114-25550	132001
10237D	135190	5789D	134232	28180-1400	136170	2114-25554	138958
1102D	134913	5870D	230285	28180-1530	136170	2114-26015	137533
1108D	134162	5873D	235299			2114-27001	132058
1123D	140621	5893D	133467	<b>HITACHI</b>		2114-27005	133044
1303D	134240	5894D	135080	1933999	140406	2114-27006	132915
1389A	230025	5895D	133478	7120632	190480	2114-27008	135877
2673D	134211	5896D	133469	85540321	134364	2114-2742	137306
2881D	335263	5903D	133471	94021408	140334	2114-27501	132094
2898D	134757	5915D	134516	94021409	140334	2114-27502	133044
2937A	131108	5916D	234887	1000301012	140017	2114-27504	133044
3750D	134242	5929D	133466	2003429058	135876	2114-27505	139833
3801D	134236	5934D	133470	028403-0081	140326	2114-27613	138957
3865D	134279	5986D	133469	081135-0020	190815	2114-27622	330150
3866D	134223	5999D	135013	1811-1631	140340	2114-27623	330150
3869D	134259	6147D	134210	2106-1601	140309	2114-2835	190537
3888D	230489	6287D	135056	2108-2305	140340	2114-2867	190482
3899D	134203	6405D	140952	2108-2306	140340	2114-29003	140336
3959D	134222	6407D	135325	2108-4305	140340	2114-29007	132090
3963D	134204	6452D	135190	2108-4306	140340	2114-31009	132454
4055D	134220	6453D	134822	2108-4823	131800	2114-31109	138701
4154D	140028	6584D	134300	2108-6305	140340	2114-31200	235337
4155D	140030	6650D	140653	2108-6306	140340	2114-33001	132424
4201D	134241	6653D	140654	2108-75002	136208	2114-33101	132424
4320D	134213	6667D	331015	2108F-3500	136208	2114-3311	132424
4323D	139590	6703D	331014	2108-F3500	136208	2114-33122	140334
4325D	135377	6710D	134248	2114-11111	137948	2114-33122/43133	140334
4327D	134212	6713D	134246	2114-13103	137750	2114-33123	140338
4331D	134244	6765D	135866	2114-13123	140786	2114-33127	140922
4334D	134922	6766D	135078	2114-13123/83121	140786	2114-33127/43127	140922
4345D	134240	6767D	140252	2114-1316	140338	2114-3315	140336
4360D	134245	6790D	139572	2114-1352	140315	2114-3315/6313	140336
4388D	134188	6793D	135079	2114-1353	140870	2114-35016	235004
4423D	134240	6917D	135970	2114-1353	B140870	2114-35500	132459
4424D	137402	6919D	135971	2114-1411	140972	2114-35506	132001
4426D	134208	6925D	137812	2114-15002	132447	2114-35550	132459
4536D	134216	7128D	138991	2114-15004	131988	2114-3601	140314
4537K	140646	7228D	230480	2114-15006	132447	2114-3601	B140314
4545D	134978	7824D	139143	2114-15016	139132	2114-37001	131144

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>HITACHI</b> <i>Continued</i>							
2114-37003.....	132058	2114-55007.....	131852	2114-77004.....	131144	2114N-4700Y.....	130811
2114-37005.....	133054	2114-5502.....	132459	2114-77007.....	132698	2114-T7012.....	132058
2114-37502.....	133054	2114-5508.....	132003	2114-77008.....	132421	2114-T7101.....	132093
2114-37503.....	132094	2114-5550.....	132459	2114-77505.....	133044	2114-T7103.....	132421
2114-37504.....	132698	2114-55505.....	132459	2114-77608.....	132094	2114-T7104.....	132093
2114-37505.....	132093	2114-55506.....	132001	2114-77613.....	132094	2114-T7107.....	132094
2114-37506.....	231910	2114-55508.....	132003	2114-79001.....	132090	2114-T7108.....	132094
2114-37602.....	132093	2114-55550.....	132459	2114-8110.....	135478	2114-T7111.....	132093
2114-37608.....	139832	2114-55552.....	132459	2114-82507.....	139788	2114-T7208.....	138364
2114-37613.....	138170	2114-5661.....	140310	2114-83102.....	137750	211N-4700Y.....	130811
2114-37673.....	138170	2114-5661.....	B140310	2114-83105.....	139166	2120-1311.....	140376
2114-3835.....	190537	2114-57001.....	131800	2114-8312.....	140334	2120-1312.....	140376
2114-39001.....	132090	2114-57004.....	131800	2114-83121.....	140933	2120-15501.....	133361
2114-39008.....	137750	2114-57503.....	132093	2114-83121/73122.....	140786	2120-25001.....	131985
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2114-4311.....	132090	2114-58005.....	191584	2114-83126.....	140986	2120-35001.....	131984
2114-4312.....	140852	2114-5866.....	190480	2114-8313.....	140336	2120-37002.....	131431
2114-43125.....	140852	2114-5867.....	190482	2114-85008.....	132001	2120-37003.....	131431
2114-43125/53125.....	140852	2114-59002.....	140338	2114-85501.....	135091	2120-4302.....	140318
2114-43125/63125.....	140852	2114-59002/6315.....	140338	2114-85501.....	135091ZZ	2120-4311.....	140376
2114-43125/83125.....	140852	2114-59002/69002.....	140338	2114-8661.....	140311	2120-4401.....	140317
2114-43127.....	140922	2114-59003.....	140933	2114-8661.....	B140311	2120-4401.....	B140317
2114-43127/33127.....	140922	2114-61005.....	134121	2114-8700.....	132058	2120-45001.....	133266
2114-4313.....	140334	2114-61106.....	134121	2114-87002.....	131800	2120-45002.....	131985
2114-4313/8312.....	140334	2114-61300.....	137120	2114-87003.....	131144	2120-47002.....	131431
2114-43133.....	140334	2114-63104.....	137121	2114-87004.....	131800	2120-5312.....	140376
2114-44101.....	140927	2114-6312.....	140341	2114-87008.....	131144	2120-5312/7311.....	140376
2114-44101.....	B140927	2114-63121.....	140786	2114-87504.....	132094	2120-55002.....	131985
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2114-45004.....	131783	2114-63123.....	140786	2114-87507.....	132094	2120-6312/2130-7311.....	140377
2114-45007.....	131783	2114-63123/83121.....	140786	2114-87601.....	138366	2120-6312/8311.....	140377
2114-45014.....	135091	2114-63124.....	140334	2114-87603.....	231910	2120-67002.....	131431
2114-45014.....	135091ZZ	2114-63124/83124.....	140334	2114-87611.....	138366	2120-7311.....	140376
2114-45015.....	135059	2114-63125.....	140852	2114-87613.....	132094	2120-7312.....	140339
2114-45019.....	135059	2114-63126.....	140953	2114-89001.....	132424	2120-7312/9311.....	140339
2114-4502.....	132459	2114-6313.....	140336	2114-89007.....	132090	2120-7500.....	131984
2114-45100.....	231804	2114-6315.....	140338	2114-91001.....	133031	2120-75002.....	131985
2114-4550.....	130440	2114-64102.....	137934	2114-91008.....	132454	2120-7530.....	131984
2114-45504.....	131986	2114-65001.....	131085	2114-91104.....	134121	2120-7550.....	131984
2114-45508.....	136144	2114-65004.....	131086	2114-9310.....	132424	2120-85001.....	131985
2114-45550.....	132001	2114-65012.....	135059	2114-93101.....	133332	2120-85002.....	131985
2114-4661.....	140310	2114-65016.....	131986	2114-93102.....	137750	2120-9311.....	140339
2114-4661.....	B140310	2114-6601.....	140314	2114-93104.....	139166	2120-9500.....	131985
2114-47001.....	131144	2114-6601.....	B140314	2114-93121.....	140933	2120-97001.....	132059
2114-47005.....	132093	2114-67006.....	132058	2114-93121/13123.....	140336	2120M-5700Y.....	130811
2114-47006.....	132058	2114-67503.....	132421	2114-93121/83121.....	140336	2120M-8700Y.....	130811
2114-47007.....	132093	2114-67504.....	133054	2114-93122.....	140786	2130-11001.....	137092
2114-47009.....	132698	2114-67505.....	132094	2114-93122/83121.....	140336	2130-1101.....	132456
2114-47503.....	132094	2114-67605.....	232200	2114-9352.....	140311	2130-13022.....	133730
2114-47504.....	132421	2114-67610.....	135287	2114-9352.....	B140311	2130-1306.....	133730
2114-47507.....	132698	2114-67619.....	330150	2114-95002.....	131086	2130-1310.....	140313
2114-47606.....	132093	2114-67673.....	138170	2114-95007.....	131852	2130-1310.....	B140313
2114-47610.....	138364	2114-68005.....	191873	2114-95501.....	133042	2130-1311.....	140379
2114-47612.....	231910	2114-69002.....	140338	2114-95553.....	132001	2130-1311/3315.....	140379
2114-49007.....	132090	2114-69002/59002.....	140338	2114-9601.....	140995	2130-1311/7312.....	140379
2114-51005.....	138959	2114-69008.....	132090	2114-9601.....	B140995	2130-1312.....	140595
2114-51007.....	134121	2114-71001.....	138959	2114-97004.....	131800	2130-1312/3311.....	140595
2114-51106.....	134121	2114-71005.....	132454	2114-97503.....	131800	2130-15005.....	135718
2114-51300.....	137948	2114-71104.....	132454	2114-97509.....	133047	2130-15007.....	132459
2114-52100.....	138505	2114-71108.....	132454	2114-97601.....	139832	2130-1502.....	135091
2114-53001.....	132424	2114-71300.....	330156	2114-97605.....	138823	2130-1502.....	135091ZZ
2114-53104.....	137121	2114-72125/83123.....	140986	2114-97612.....	138170	2130-1503.....	135271
2114-53105.....	137121	2114-72507.....	138505	2114-97615.....	132094	2130-15505.....	135718
2114-5312.....	140336	2114-73105.....	137121	2114-99001.....	133333	2130-17002.....	132059
2114-5312/5313.....	140334	2114-73122.....	140786	2114-99008.....	133333	2130-17004.....	133043
2114-5312/8313.....	140334	2114-73123.....	140986	2114I-1700.....	133044	2130-17007.....	235076
2114-53125.....	140852	2114-73123/83123.....	140781	2114M-4700Y.....	130811	2130-17010.....	138739
2114-53126.....	140953	2114-73125.....	140986	2114N-1150.....	130440	2130-17011.....	333843
2114-53126/63126.....	140953	2114-73125/83123.....	140986	2114N-1550.....	130440	2130-1914.....	135722
2114-5313.....	140334	2114-73126.....	140986	2114N-1560.....	130440	2130-21003.....	132798
2114-5352.....	140311	2114-75001.....	131783	2114N-1750.....	130811	2130-2250.....	140378
2114-5352.....	B140311	2114-75005.....	132447	2114N-3550.....	131783	2130-2306.....	133730
2114-5360.....	133333	2114-75008.....	132459	2114N-4550.....	130440	2130-23111.....	140377
2114-55003.....	132449	2114-75562.....	235485	2114N-4700.....	130811	2130-23112.....	140567
2114-55004.....	131085	2114-76015.....	137938	2114N-47004.....	130811	2130-23112/73111.....	140567



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
2130-2312	140595	2130-6503	133042	2240-9500	139841	ZM-68596	133803
2130-25001	131985	2130-6700	132059	2250-13015	133057	ZM-71996	138819
2130-25002	131985	2130-67004	133043	2250-1324	140337		
2130-25005	137277	2130-67005	133750	2250-1451	140495		
2130-2501	133042	2130-67007	235076	2250-17002	132423	<b>HONDA</b>	
2130-2503	135010	2130-73014	137836	2250-17005	139851	31203-PE0-661	134503
2130-25032	135010	2130-73021	133730	2250-17007	234556	31203-PH9-004	133812
2130-2509	135188	2130-73022	133730	2250-21001	133056	31204-634-005	131800
2130-2601	140313	2130-7305	133057	2250-23015	133057	31204-634-670	132058
2130-2601	B140313	2130-7311	140595	2250-2323	140337	31204-634-671	132058
2130-27001	132059	2130-73111	140567	2250-2323/4322	140337	31204-PA5-911	133675
2130-27003	133047	2130-73112	140567	2250-25002	131985	31204-PA5-991	133675
2130-27006	135008	2130-7312	140379	2250-25003	133058	31204-PC1-004	133675
2130-2914	235313	2130-7500	132453	2250-25004	133058	31204-PD1-003	134284
2130-31002	132456	2130-75002	133605	2250-27003	132423	31204-PD4-005	133044
2130-31003	132798	2130-75003	133605	2250-27006	232263	31204-PM3-J010M	137753
2130-31004	137092	2130-75004	135091	2250-3323	140378	31204-ZA0-003	133711
2130-3311	140595	2130-75004	135091Z	2250-35001	131985	31204ZG4801	331918
2130-3315	140379	2130-7502	132459	2250-35002	131984	31206-HA0-0040	133715
2130-3451	140457	2130-7550	131984	2250-35004	131985	31206-P62-661	135790
2130-35001	131984	2130-75504	133605	2250-3601	140489	31206-PR4-0030	136897
2130-35004	133437	2130-77001	133047	2250-37001	132423	31207-634-005	131085
2130-35009	133605	2130-77005	133750	2250-37005	132423	31207-657-006	130441
2130-3503	132003	2130-77008	139164	2250-37008	234869	31207-657-671	132796
2130-37003	131144	2130-77010	335324	2250-43015	133057	31207-PR4-0030	136896
2130-37004	133749	2130-81004	233886	2250-4322	140337	31207-ZA1-003	133714
2130-37005	138809	2130-8311	140378	2250-45003	132453	31207-ZA1-033	133714
2130-37008	133749	2130-8312	140377	2250-45004	133058	31208-657-040	140362
2130-37010	235076	2130-85003	133605	2250-45006	333931	31208-657-300	140362
2130-41003	136248	2130-85004	133605	2250-47002	132423	31208-657-671	140362
2130-41004	132798	2130-8502	233887	2250-47007	139851	31208-POG-A01	232311
2130-4102	132798	2130-8503	230557	2250-5310	133057	31208-PC2-671	133661
2130-43015	137836	2130-8700	133043	2250-5322	140378	31208-PR4-0030	138419
2130-4311	140595	2130-87005	135008	2250-5323	140378	31209-590-004	140363
2130-43111	140567	2130-87007	132093	2250-550	133266	31210-POA-004	232004
2130-43112	140567	2130-87008	139164	2250-55002	131985	31210-P2A-004	234160
2130-4312	140595	2130-91002	132798	2250-57006	232263	31210-P2A-901	230018
2130-4312/7311	140595	2130-93021	133730	2250-6323	140378	31210-P2C-004	234160
2130-45002	132918	2130-9305	133730	2250-6500	133266	31210-P2C-901	230018
2130-45009	333974	2130-9311	140597	2250-65002	133266	31210-P2C-J61	232003
2130-4502	132459	2130-9312	140378	2250-67003	132423	31210-P2J-J61	232003
2130-4615	137301	2130-9500	133361	2250-71002	133056	31210-P5M-004	234161
2130-47001	131144	2130-95003	133606	2250-7310	133057	31210-P8A-A01	232003
2130-47005	138739	2130-95007	135091	2250-7323	140378	31210-PA0-006	140363
2130-47008	139164	2130-95007	135091Z	2250-7500	133266	31210-PC2-006	133076
2130-47009	230558	2130-97003	132093	2250-77006	139851	31210-PC2-026	133076
2130-47012	132059	2130-97004	133749	2250-8323	140378	31210-PD0-26	133076
2130-51002	132798	2130-97006	133047	2250-85004	132453	31210-PD2-026	133076
2130-51003	132798	2130-97008	133750	2250-85005	133058	31210-PE1-171	133076
2130-53021	133730	2140-1500	137277	2250-87004	132423	31210-PE1-671	133076
2130-53022	133730	2140-15003	137277	2250-95001	133058	31210-PEL-004	237404
2130-53112	140567	2140-1502	132459	2250-95003	131985	31210-PT0-01	137023
2130-5312	140378	2140-15026	132459	2250-97001	234556	31210-PAA-A02	232004
2130-5312/2250	140378	2144-83121	140336	2250-97003	132423	31211-PH9-004	140602
2130-5312/8311	140378	2210-17002	233122	2250-97006	232263	31212-PH9-004	133810
2130-5312/9312	140378	2210M-5700	233122	2270-3100	133056	31215-634-005	140336
2130-5500	132453	2214-25550	132001	2270-3502	140311	31215-ZA1-003	140566
2130-55005	133266	2240-1310	133730	2270-37001	134812	31215-ZA1-013	140566
2130-5502	132459	2240-1311	140379	2270-8500	133058	31215-ZE2-0030	140570
2130-5615	137301	2240-1311/1312	140379	2280-1312	141023	31216-634-005	140336
2130-57001	133047	2240-1312	140379	2280-1312/1313	141023	31219-ZE2-003	133710
2130-57003	138363	2240-1501	139843	2280-1313	141023	31220-P5A-005	231983
2130-57004	133043	2240-1700	235814	2280-3500	133266	31220-PY3-024	231983
2130-57005	135370	2240-1801	190482	23319-M0111	140320	31231-671-0050	133332
2130-57011	230558	2240-1914	135722	23378-10G100	133730	31231-PA0-060	140363
2130-57012	133043	2240-2310	133730	23379-0M300	140953	31231-PD4-0050	133333
2130-61003	132798	2240-2500	139841	23379-19900	140341	31231-PH9-004	133808
2130-61004	233886	2240-2501	234866	29313-46010	190815	31235-PE0-6620	137592
2130-62102	139176	2240-2700	235814	9402-1408	140334	31235-PE1-6720	233083
2130-63015	230636	2240-3310	133730	9402-1409	140334	31235-PR4-A010M	233083
2130-63022	133730	2240-3615	231286	949105-0100	140767	31271-634-0050	135478
2130-63112	140567	2240-4310	233637	GSB107-1100	235632	35850-KAS-930	235596
2130-6312	140597	2240-4701	234868	HK0609	140619	35850-KBB-900	234860
2130-6312/9311	140597	2240-5500	139843	L150-28001	192145	35850-KW1-900	235595
2130-65002	133266	2240-5700	136141	L150-28011	191528	35850-MCG-00	235594
2130-65006	235501	2240-6501	234866	L160-3801	191528	35851-MFS-751	235595
2130-65008	135091	2240-6801	191326	L160-5801	191528	35851-MFS-751	235595
2130-65008	135091Z	2240-8500	139841	M409D01301	140505	35860-KGA-940	235595
2130-6502	132459	2240-8501	333973	ZM-68096	133269	90007-ZE2-003	191545
						91301-ZA1-003	133717

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>HUSQVARNA</b>		F-231294.....	141256	2130-63015.....	230636	8-94167430-0.....	137021
532-1090-81.....	231525	F-232542.....	140242	2130-63112.....	140567	8-94170206-0.....	135790
532-1099-46.....	231525	F-552296.....	235304	2130-73021.....	133730	8-94172328-0.....	134510
532-1384-06.....	234072	F-571073.01.....	335319	2130-73022.....	133730	8-94178037-0.....	140519
532-1456-73.....	231525	F-91916.....	140198	2130-7305.....	133057	8-94178042-0.....	140949
532-1461-54.....	231525	FC66624.....	140242	2130-73111.....	140567	8-94208296-1.....	131783
<b>IKA</b>		HK1012.....	141001	2130-75002.....	133605	8-94208303-0.....	132058
017541.....	142351	NK10/12TN.....	140903	2130-75003.....	133605	8-94218767-0.....	133031
038111.....	137016	SCB1210B.....	140717	2130-77001.....	133047	8-94218772-0.....	132058
438400.....	137399	SCE1012.....	141015	2130-8311.....	140378	8-94228453-0.....	132698
443721.....	140259	SCE116.....	140920	2130-93021.....	133730	8-94228460-0.....	140597
460541.....	133554	SCE1210.....	140717	2140-1500.....	137277	8-94228464-0.....	140597
771251.....	134868	SCE98.....	141209	2140-1502.....	132459	8-94242059-0.....	132798
771251.....	333643	<b>ISKRA → MAHLE LETRIKA</b>		2210M-5700.....	233122	8-94242061-0.....	140379
771261.....	135016	<b>ISUZU</b>		2240-1310.....	133730	8-94242065-0.....	140379
771261.....	333287	1-81116006-0.....	140448	2240-1801.....	190482	8-94324622-0.....	135010
771281.....	135235	1-81116017-0.....	140337	2240-3310.....	133730	8-94334787-0.....	132003
771291.....	134660	1-81116018-0.....	140337	2240-3615.....	231286	8-94334978-0.....	231286
771301.....	132585	1-81116023-0.....	140378	2240-5500.....	139843	8-94337444-0.....	135008
771331.....	138424	1-81116024-0.....	140378	2240-5700.....	136141	8-94361908-0.....	133809
771351.....	235742	1-81116035-0.....	140551	2240-8500.....	139841	8-94367770-0.....	230057
771401.....	137121	1-81116041-0.....	140549	2250-1451.....	140495	8-94367772-0.....	137950
771461.....	239731	1-81116042-0.....	140549	2250-21001.....	133056	8-94367783-0.....	139492
771591.....	139224	1-81116043-0.....	140549	2250-2323/4322.....	140337	8-94377249-0.....	138419
771871.....	133341	1-81116044-0.....	140549	2250-35002.....	131984	8-94377252-0.....	137753
772021.....	235531	1-81121044-0.....	138675	2250-3601.....	140489	8-94377252-0.....	137753Z
772021.....	333292	1-81122029-0.....	133266	2250-5323.....	140378	8-94377253-0.....	136896
772031.....	333655	1-81123034-0.....	235211	2250-7310.....	133057	8-94377254-0.....	136897
772081.....	235883	1-81123035-0.....	235140	2250-95001.....	133058	8-94377258-0.....	137955
772271.....	333123	1-81129041-0.....	140449	5-81113036-0.....	136935	8-94377259-0.....	137953
772271.....	333552	1-81129286-0.....	140520	5-81116008-0.....	140336	8-94424388-0.....	133730
772291.....	235741	1-81129291-0.....	140521	5-81116009-0.....	140336	8-94435561-0.....	132798
772291.....	333657	1-81129397-0.....	140517	5-81116029-0.....	140550	8-94435563-0.....	137277
772391.....	330531	1-81151008-0.....	134630	5-81116030-0.....	140550	8-94435567-0.....	135188
772411.....	BSX216-2174	1-81151054-0.....	133047	5-81118012-0.....	133057	8-94435568-0.....	135008
772611.....	230741	2114-15508.....	132448	5-81118021-0.....	140379	8-94435570-0.....	137301
772751.....	235214	2114-25505.....	132459	5-81118022-0.....	133661	8-94478862-0.....	140379
772881.....	237670	2114-27008.....	135877	5-81118038-0.....	133333	8-94478863-0.....	133730
772881.....	333970	2114-2742.....	137306	5-81119001-0.....	140337	8-97025677-0.....	234868
773981.....	134670	2114-27505.....	139833	5-81119012-0.....	140313	8-97161789-0.....	234869
775041.....	235401	2114-2867.....	190482	5-81119015-0.....	140377	8-97161793-0.....	234866
775041.....	333304	2114-31009.....	132454	5-81119016-0.....	140377	8-97377253-0.....	136896
775201.....	332155	2114-39001.....	132090	5-81121002-1.....	137092	9-82111631-0.....	140340
775201.....	335221	2114-5312/8313.....	140334	5-81121029-0.....	134369	9-82111632-0.....	140340
778311.....	335222	2114-5352.....	140311	5-81121031-0.....	132796	9-82111644-0.....	140341
778361.....	139638	2114-55506.....	132001	5-81123034-0.....	133805	9-82111645-0.....	140341
778361.....	333559	2114-58005.....	191584	5-81123036-0.....	132448	9-82111646-0.....	140376
BSX228.....	142332	2114-5866.....	190480	5-81124003-0.....	132863	9-82111647-0.....	140376
<b>IKO</b>		2114-5867.....	190482	5-81124004-0.....	132942	9-82111651-0.....	140376
BA136ZOH.....	141065	2114-59002.....	140338	5-81124006-0.....	132863	9-82111652-0.....	140376
TLA1010Z.....	140482	2114-59002/69002.....	140338	5-81129009-0.....	140485	9-82111657-0.....	140334
TLA1210Z.....	140242	2114-68005.....	191873	5-81129056-0.....	135478	9-82111658-0.....	140334
TLA1212Z.....	140494	2114-69002.....	140338	5-81129119-0.....	135343	9-82114151-0.....	140595
TLA1412Z.....	140503	2114-71005.....	132454	5-81129143-0.....	140517	9-82114152-0.....	140595
TLA141912ZE01.....	140876	2114-79001.....	132090	5-81151015-0.....	132059	9-82115288-0.....	138026
TLA1512Z.....	140495	2120-4401.....	140317	5-81151029-0.....	132059	9-82121231-0.....	133266
TLA1812Z.....	140375	2130-11001.....	137092	5-81151030-0.....	132423	9-82121238-0.....	131984
TLA1816Z.....	140197	2130-13022.....	133730	5-81151036-0.....	132498	9-82122380-0.....	131984
TLA2012Z.....	140457	2130-1310.....	140313	5-81151038-0.....	133482	9-82150052-0.....	130811
TLA2212Z.....	140381	2130-1914.....	135722	5-81151049-0.....	135676	9-82150071-0.....	130811
TLA2220Z.....	140733	2130-23112.....	140567	5-81151054-0.....	133047	L150-28001.....	192145
TLA3016Z.....	141040	2130-23112/73111.....	140567	5-81151058-0.....	132423	ZM-68596.....	133803
TLA59Z.....	140617	2130-25005.....	137277	5-81151103-0.....	132423	<b>IVECO</b>	
TLA69Z.....	140619	2130-2503.....	135010	8-10469039-0.....	232219	42533804.....	192569
TLA810Z.....	140468	2130-2509.....	135188	8-11530018-0.....	132059	42537930.....	192586
TLA910Z.....	140935	2130-2601.....	140313	8-94028460-0.....	140597	42556816.....	192569
TLAM01515.....	140738	2130-27006.....	135008	8-94115568-0.....	132001	50053567.....	237667
<b>INA</b>		2130-35001.....	131984	8-94115569-0.....	132459	50053567.....	333396
BK1014RS.....	140919	2130-35009.....	133605	8-94125889-0.....	133631	50053567.....	237667
F-123459.2.....	141225	2130-3503.....	132003	8-94136900-0.....	140567	50053567.....	333396
F-203215.....	140198	2130-43111.....	140567	8-94136901-0.....	133730	<b>JAPANESE</b>	
F-203978.....	140972	2130-47005.....	138739	8-94149250-0.....	133605	FBH-25.....	140307
F-220469.....	140971	2130-51002.....	132798	8-94152930-0.....	140379	FBH-26.....	140308
F-221604.....	140919	2130-53021.....	133730	8-94152970-0.....	140379	FBH-3.....	140309
F-229411.....	141084	2130-5312/8311.....	140378	8-94152973-0.....	140379	FBH-31.....	140310
		2130-5502.....	132459	8-94152981-0.....	136141	FBH-32.....	140311
		2130-5615.....	137301	8-94167426-0.....	137978	FBH-38.....	140313
		2130-61003.....	132798	8-94167427-0.....	233546		



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
FBH-4	140314	JASX88	140361	AL41524	130301	<b>KOMATSU</b>	
FBH-41	140489	JASX89	140396	AL41524	130301Z	02837-11500	138569
FBH-5	140315	JASX90	140348	AL41525	136994		
FBH-6	140316	JASX91	140708	AL41627	137234	<b>KUBOTA</b>	
FBH-7	140317	JASX92-93	140595	AL55043	131313	11173-63021	233703
FBH-8	140318	JASX94-95	140337	AL55044	132306	11197-63071	136896
FBM-10	140319	JASX96-97	141273	AL55046	130301	11197-63081	136897
FBM-16	140320	JASX98-99	140387	AL55046	130301Z	11420-63041	138956
FBM-16B	140320	JHTSX-11	140376	AL63095	132345	14182-63041	132942
FBM-16RF	140466	JHTSX-17	140334	AL63095	333510	15451-63041	136315
FBM-18	140321	JHTSX-25	140595	AM103290	234070	15451-63261	138569
FBM-27	133390	JHTSX-28	140336	AM30182	133855	15504-63041	132004
FBM-28	140322	JHTSX-29	140337	AR90074	132641	15521-63041	135002
FBM-32	140323	JHTSX-30	141023	AT25910	132697	15611-93311	230721
FBM-36	140428	JHTSX-31	140338	L19651	140010	15852-63020	133288
FBM-37	140430	JHTSX-33	140339	L19654	140151	16611-63041	137753
FBM-38	140429	JHTSX-34	140377	L30860	138328	16611-63041	137753Z
FBM-39	140555	JHTSX-36	140378	L30862	140026	16871-63041	132004
FBM-40	140428	JHTSX-37	140379	L41081	140019	17381-63041	134806
FBN-1	140325	JHTSX-38	140334	L41582	132226	17381-63041	134806Z
FBN-10	140325	JHTSX-39	140378	L55064	230730	17381-63211	134807
FBN-14	140326	JHTSX-40	140567	RE501910	234947	19013-63021	230578
FBN-17	140328	JHTSX-43	140597	RE501911	333744	19212-63041	132004
FBN-28	140330	JHTSX-44	140379	RE503357	236645	19837-63070	133454
FBN-33	140333	JHTSX-7M	140340	RE503358	233723		
FBN-34	140325	JHTSX-8M	140340	RE508813	231756	<b>LADA</b>	
FBN-35	140424	JHTSX-9M	140341	RE508815	234947	2101-3708620	130738
FBN-36	140425	JMTSX-11	140345	RE508818	234947	2101-3708805	130367
FBN-38	140426	JMTSX-31	140346	RE519976	234393	2108-3708405	140374
FBN-39	140427	JMTSX-36	140347	T19510T	140186	2108-3708405	B140374
FBNK-1	140485	JMTSX-36N	140556	T24799	140006	2108-3708620	131212
FBNK-16	140449	JMTSX-37	140386	T27671	132226		
FBNK-25	140517	JMTSX-46	140395	Z24790	140006	<b>LAWN-BOY</b>	
FBNK-29	140519	JMTSX-48	140348	Z24799	140006	740207	234072
FBNK-30	140520	JMTSX-49	140349	Z24800	140033		
FBNK-31	140521	JMTSX-49N	140349			<b>LEECE-NEVILLE</b>	
FBNK-32	140517	JMTSX-55	140387	<b>KAWASAKI</b>		04231	130535
HP-2	140584	JMTSX-56	140388	13168-2131	139051	04489	131056
JASX1	140566	JMTSX-57	141273	<b>KHD</b>		57597	134488
JASX10-11	140963	JMTSX-71	141037	01169029	333717	64235	132731
JASX14	140356	JMTSX-72	140931	1308145	130115	71157	131768
JASX15-6	140340	JNDSX-12	140356	1309820	130115	71163	136412
JASX22	140359	JNDSX-13	140357	<b>KIA</b>		73493	131768
JASX24-25	140841	JNDSX-18	140358	35137-32510	133403	74977	131768
JASX26-27	141023	JNDSX-20	140359	36111-32510	139203	75249	232632
JASX32-33	140341	JNDSX-25	140360	36114-11130	133463	75249	333858
JASX34-30	140597	JNDSX-28	140393	36120-11130	133289	77452	132140
JASX35	140393	JNDSX-31	140361	36120-11140	133289	77461	132142
JASX36-37	140378	JNDSX-32	140362	36120-21740	133288	77491	136412
JASX38	140348	JNDSX-33	140396	36120-32510	133289	77600	130539
JASX39	140602	JNDSX-34	140363	36130-32510	135468	77600	130539Z
JASX40-41	140559	JNDSX-35	140364	36131-11140	133463	77601	131056
JASX42-43	140560	JNDSX-39	140602	36139-11140	132005	95146	136412
JASX44-28	140921	JNKSX-14	140448	36139-11140	132005Z	97222	131768
JASX45-46	140931	JNKSX-20	140549	36139-32510	136895	98004	132141
JASX47-48	140386	JNKSX-21	140550	36141-32510	135341	225014	132141
JASX49-61	140852	JNKSX-22	140551	36145-25010	333745	225313	136412
JASX50-51	140786	JSDSX-15	140828	36145-2A000	333479	850141	141143
JASX52	140740	JSDSX-18	140358	361452G000	337189	M0290-4472	131766
JASX53	140647	NP-2	140583	36145-32510	132011	M0290-71031	131766
JASX54-55	140953	<b>JCB</b>		36150-11150	134736	M0290-73493	131768
JASX56-3	140376	714-03004	131248	36150-32500	136334	M0290-75249	131766
JASX57-58	140334	<b>JOHN DEERE</b>		36150-32510	136334	M029075429	232632
JASX59-60	140986	AL111958	137232	36160-11140	136135	M029075429	333858
JASX62	140359	AL113078	132702	36160-32500	136894	M029097222	131768
JASX63	140360	AL169535	130319	36160-32510	136894	<b>LETRIKA → MAHLE LETRIKA</b>	
JASX64-65-67	140933	AL19192	130297	36169-32510	133341	<b>LIEBHERR</b>	
JASX66-67	140336	AL19193	130296	36170-21740	135467	5602488	132273
JASX69-70	140347	AL19229	130118	36170-32500	133341	5603475	140717
JASX70	140347	AL23848	139152	36173-11140	140349	6107026	131454
JASX71	140388	AL25272	130128	36182-21740	140555	6107069	140011
JASX74	140567	AL25273	137617	<b>KOHLER</b>		6107070	140198
JASX74-75	140379	AL25274	130319	8275548	140714	6107071	131448
JASX77-78	140364	AL25275	131495			6200367	131371
JASX80-81	140338	AL41520	133908			7363813	140010
JASX82-83	140349	AL41521	BSX163-1644				
JASX84	140362	AL41522	139152				
JASX85	140363						
JASX86-87	140932						

## STARTER COMPONENTS

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O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>LIEBHERR</b> <i>Continued</i>							
7363814	140866	76804	132269	76930	131121	77128	131786
7363816	140026	76805	130484	76931	131787	77130	134890
7363819	131341	76808	131252	76933	131787	77130	1335154
550827208	BSX1034	76815	130855	76935	131787	77131	133531
560348108	135380	76816	132269	76939	131787	77132	133531
610705208	140111	76820	130855	76940	131786	77133	133531
610706508	BSX1484	76821	132269	76945	131787	77134	132269
610706908	140011	76823	130855	76954	130484	77136	134886
610707008	140198	76824	130855	76956	131248	77138	134886
610712308	130304	76825	131248	76958	130856	77139	133531
620114990	132363	76826	130855	76961	132269	77140	131785
630120208	131371	76827	130855	76962	134695	77141	133531
810054008	131372Z	76830	130484	76963	131787	77143	133531
		76833	131248	76970	131787	77147	131785
		76834	131248	76978	131787	77149	131785
		76835	131248	76979	131121	77154	132269
		76836	131248	76980	130484	77156	134695
		76837	130855	76982	134695	77157	132269
		76842	130484	76983	131786	77158	131787
		76848	130484	76985	131121	77160	131787
		76849	130484	76986	130853	77161	134695
		76850	130855	76989	134899	77163	131121
		76852	132269	76993	131787	77165	134455
		76854	131248	76994	131785	77169	131786
		76855	130855	76995	130484	77170	134456
		76858	130853	76996	130855	77173	131785
		76862	131248	76997	131121	77174	134457
		76863	130484	76998	131787	77175	133300
		76864	131248	77002	130484	77177	134457
		76865	131248	77003	130484	77180	133187
		76866	130484	77009	130484	77185	133301
		76868	130484	77010	131248	77186	133187
		76869	131248	77011	131786	77190	133301
		76870	130484	77012	131787	77194	134457
		76873	130484	77016	131787	77196	134456
		76875	131787	77017	131787	77198	134455
		76876	131787	77018	130484	77199	133300
		76877	131787	77021	131786	77204	134457
		76878	131787	77025	131248	77207	137759
		76879	131787	77027	134891	77208	134457
		76880	131787	77028	130484	77218	238667
		76881	131248	77031	133187	77219	133300
		76882	131255	77032	131248	77221	133301
		76883	130484	77033	131255	77229	133301
		76884	131787	77034	130855	77252	133301
		76885	130855	77035	132269	77259	137759
		76886	131255	77036	131785	77262	235267
		76887	130484	77037	130484	77265	131208
		76888	131786	77040	131247	77269	134890
		76891	130855	77050	130484	77269	335154
		76892	130855	77052	131248	77271	137759
		76893	130484	77054	131121	77287	137759
		76895	132269	77055	130853	77892	130855
		76896	132269	77058	130855	77899	132269
		76897	130855	77059	131787	96403	131787
		76898	130484	77066	130484	96405	131787
		76899	132269	77068	130484	172580	134459
		76900	131248	77069	130484	188739	130818
		76901	131121	77072	130484	198800	130819
		76902	130855	77074	130484	220409	230835
		76903	130484	77078	130484	223224	130759
		76904	131788	77080	130484	227271	130824
		76905	131788	77082	130484	227543	130189
		76906	131786	77083	130484	227693	130824
		76908	132269	77084	130484	227713	140062
		76910	131248	77091	133187	227713	B140062
		76911	131248	77092	131786	227818	140062
		76912	131248	77093	133187	227818	B140062
		76913	131248	77094	133187	227987	130824
		76914	130853	77107	131787	229362	130189
		76917	134695	77108	134899	233045	233045
		76919	131787	77109	131788	235014	235014
		76922	131787	77110	134695	245079	130213
		76923	131787	77111	131787	250626	140052
		76924	131787	77115	131121	251108	LASX5-62/1P
		76925	131786	77119	131121	251477	140054
		76926	131247	77121	133531	253316	140059
		76928	131248	77122	134888	255491	140053
		76929	131787	77126	130853	255491	B140053



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
255659	LASX22	54244971	131298	54252212	130449	54292376	133368
256746	138138	54244973	130201	54252236	140058	54292464	135711
263005	131247	54244979	LASX424	54252494	140212	54292603	134853
263402	130853	54244980	137719	54255513	131726	54292929	133296
263403	130853	54245079	130213	54255952	131655	54292953	130202
270005	LASX22	54245090	131652	54255957	137050	54293375	135121
270038	140746	54245201	131035	54255966	140658	54293451	136261
271364	140144	54245266	131737	54255966	B140658	54293575	135121
271733	140594	54245341	131035	54256132	140657	54293699	134852
271735	142344	54245343	140103	54256132	B140657	54293830	133618
271735	LASX15-164	54245374	131169	54256151	140659	54293877	134852
271737	130195	54245568	134065	54256151	B140659	54293878	134852
271826	130194	54245574	130201	54256689	131726	54293879	134852
272022	130871	54245576	130213	54256984	130450	54293976	138434
272219	130194	54246005	131035	54257605	137049	54293977	138351
272334	130195	54246123	134065	54257635	130210	54294392	132400
272394	130196	54246200	140215	54257833	140656	54294400	135200
272605	130196	54246252	131707	54257833	B140656	54294440	135565
291559	130745	54246253	131206	54258190	130451	54294444	135565
291859	131726	54246258	LASX43-442	54258592	LASX314	54294580	232604
292124	130443	54246259	131652	54258814	132209	54294813	139710
292130	130444	54246285	130453	54258818	130213	54294922	130452
292134	131726	54246290	131652	54259517	LASX364	54294922	130452Z
26212754	130824	54246340	130447	54259524	132209	54295140	133682
26252339	130200	54246418	130203	54259688	130446	54295252	133295
26252342	130453	54246544	130203	54259800	130450	54295255	133296
26253078	130452	54246654	130453	54260599	233533	54642116	131275
26253078	130452Z	54246655	137719	54261382	138350	54642420	131275
26253757	133368	54246661	130451	54262658	131707	54642436	131264
26255073	135869	54246662	130897	54263217	130196	54642732	131275
26255474	230265	54246724	130450	54263486	130196	54642903	131275
26255652	132286	54246725	130446	54263852	138346	54642959	139177
26257166	230268	54246727	232480	54264884	140663	54643131	131275
26964041	230264	54246729	131732	54265121	136878	54643312	131275
35640175	133178	54246738	130445	54265243	138351	54644128	131276
52265874	138346	54246739	130447	54265377	136879	54644187	131275
54132580	137532	54246896	130445	54265549	134065	54644302	131274
54134027	192228	54247025	130203	54265568	134065	54644303	131274
54142360	191287	54247034	130452	54265871	138346	54644304	131274
54150154	130818	54247034	130452Z	54265874	138346	54645021	131275
54213780	130824	54247036	130452	54266043	135822	54645590	131276
54214237	130824	54247036	130452Z	54266044	130196	54645844	139177
54214537	130824	54247077	131035	54266045	130194	54646009	131078
54215749	132948	54247106	131206	54267317	132286	54646071	131276
54216228	130826	54247179	131705	54267369	134444	54646676	131275
54216753	130826	54247181	131035	54267376	138353	54646683	131275
54216878	130870	54247184	130447	54267384	134445	54646689	131276
54217499	130824	54247187	130445	54268139	132285	54647861	137059
54217725	132948	54247188	130451	54268140	132852	54648338	139159
54217859	130824	54247295	134065	54268141	130452	54942884	131015
54218417	130826	54247379	130202	54268141	130452Z	54960402	132804
54219374	130189	54247383	131656	54268142	131728	60600018	130882
54240294	135355	54247389	131728	54268142	335647	60600019	138350
54240295	135355	54247389	335647	54268382	133368	60600020	131298
54240795	130451	54247393	132285	54268395	135200	60600024	130452
54240984	131723	54247396	131708	54268462	132400	60600038	131728
54241267	140056	54247397	131729	54268555	132401	60600038	335647
54241267	B140056	54247508	233533	54268565	133682	60600047	140593
54241719	130203	54247556	130203	54268656	133682	60600050	130897
54242044	131732	54247935	130203	54269202	136876	60600054	130196
54242194	LASX37-38-39	54248156	131733	54279043	131707	60600056	LASX40-412P
54242330	135355	54248606	136338	54290474	133683	60600066	130453
54242438	232480	54248609	135869	54290516	138346	60600077	131708
54242829	137719	54248959	131734	54290573	134446	60600078	131729
54243590	130200	54248981	233740	54290585	132285	60600117	131015
54243592	130878	54249032	131707	54290638	138299	60600118	131015
54243781	130897	54249034	131206	54290689	134854	60600119	131015
54243783	130445	54249035	131705	54290789	134853	60600120	131274
54243848	130451	54249041	131707	54290790	134853	60600121	131015
54243852	130879	54249042	131206	54290840	133297	60600122	131015
54243853	140104	54249043	131707	54290953	130196	60600125	131274
54243855	135500	54249079	138350	54291125	134853	60600128	131015
54244390	138434	54249083	138350	54291195	234219	60600129	131015
54244686	131035	54250082	136118	54291543	133296	60600196	LASX44-452P
54244748	130882	54251052	131654	54291804	134852	60600210	130451
54244773	140102	54251756	131724	54291911	132586	60600306	140590
54244775	134452	54251818	130205	54291912	132587	60600315	134444
54244848	LASX40-412P	54252054	140057	54292157	139032	60600315	134446
54244938	130453	54252054	B140057	54292179	133295	60600317	140716

## STARTER COMPONENTS

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O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>LUCAS</b> <i>Continued</i>							
60600341	130444	054268141010	130452Z	085540581010	133083	LTH217	233868
60600342	130443	054268565010	133682	085540591010	132227	SAR0002	130200
60600379	131015	054269202010	136876	085540601010	131715	SAR0003	130878
60600380	233533	054290585010	132285	085540611010	131716	SAR0004	131656
60600381	131015	054290638010	138299	085540661010	130737	SAR0005	135869
60600568	132270	054290689010	134854	085540681010	135117	SAR0006	233740
60600626	140603	054290840010	133297	085540711010	136164	SAR0007	131654
60600645	131015	054291125010	134853	085540922010	139104	SAR0008	130205
60600650	131274	054291911010	132586	085540971010	135717	SAR0009	131655
60600678	131015	054291912010	132587	085540981010	137190	SAR0010	130210
60600688	140603	054292376010	133368	085541030010	138167	SAR0014	132401
60600759	131274	054292603010	134853	085541040010	134364	SAR0016	133368
60600767	LASX73-412/1P	054293451010	136261	085541070010	138531	SAR0017	130202
60600906	131275	054293699010	134852	085541080010	138533	SBR6800	231196
60600911	140481	054293877010	134852	085541100010	231806	SBR6901	137219
60600914	140528	054293878010	134852	085541111010	231806	SDR6012	231269
60600919	140513	054293879010	134852	085541210010	230805	SDR6013	138565
60600920	140765	054294392010	132400	085541220010	231414	SDR6014	139953
60600924	140646	054294400010	135200	085541250010	139901	SFC0001	130194
60600944	140512	054294817010	139710	085541320010	133531	SFC0002	130196
60600946	140511	054294922010	130452	085541322010	133531	SFC0003	130196
60600953	140480	054294922010	130452Z	085541323010	134888	SFC0005	130882
60600961	140481	054295140010	133682	085541325010	133531	SFC0006	130201
60600983	132804	054295252010	133295	085541350010	231479	SFC0007	130213
60933083	131247	063602106010	138444	085541360010	234733	SFC0008	130196
60933104	131786	063602290010	130373	085541390010	231478	SFC0009	135200
60933109	134888	063602502010	138477	085541420010	138444	SFC0010	132400
60933111	133531	063633806010	131112	085541454010	130452	SRB319	233955
61194001	132270	063633933010	131115	085541454010	130452Z	SRB321	233956
61194002	131015	072138801010	130749	085541459010	132852	SRB325	130872
61194003	139159	072139001010	131109	085541462010	132285	SRB333	130856
61194012	134446	072139003010	133985	085541466010	132285	SRB335	130853
61194013	131298	072163902010	136975	085541468010	139032	SRB716	233954
61194014	131298	072163903010	136163	085541470010	133683	SRB807	138350
61194019	140104	072163904010	136163	085541472010	138351	SSL0001	130855
61194021	131274	072164101010	135604	085541479010	130452	SSL0002	132269
61194022	132209	072164102010	135242	085541479010	130452Z	SSL0003	131786
61240176	138351	072164701010	134041	085541488010	132586	SSL0004	131785
61240701	135784	072165901010	131473	085541490010	130452	SSL0005	133531
61240731	136135	072362601010	136734	085541490010	130452Z	SSL0006	134888
66964039	133187	072382301010	131670	085541496010	131728	SSL0007	134890
66964044	131121	072397101010	234921	085541503010	135711	SSL0007	335154
000072219010	133300	074891101010	134291	085541538010	131729	SSL0008	132269
000076892010	130855	074894441010	134798	085541541010	131728	SSL0009	134886
000076899010	132269	074899021010	132817	085541544010	132586	SSL0010	137759
000077034010	130855	083220461010	135565	085541560010	230809	SSL0011	238667
000077035010	132269	083224461010	136204	085541670010	138444	SSL0012	137759
000077121010	133531	083225127010	135620	085541680010	139901	SSL0013	131248
000077122010	134888	083225326010	138534	085541700010	139902	SSL0023	134899
000077132010	133531	083226888010	139629	085541780010	135717	SSL0900	132270
000077133010	133531	083227131010	135565	085541810010	333881	SSL0901	131015
000077136010	134886	083227260010	135565	085541820010	137191	SSL0902	139159
000077165010	134455	083227502010	230805	085541870010	139655	SSL0903	131274
000077174010	134457	083227678010	135620	085541870010	335653	SSL6001	133050
000077175010	133300	085540001010	132228	085541990010	238841	SSP0003	134452
000077177010	134457	085540011010	131112	085553402010	239075	SSP0004	131169
000077185010	133301	085540031010	138753	085553621010	239080	SSP0013	134446
000077196010	134456	085540041010	230325	1.01.0280.0	135355	SSP0014	131298
000077204010	134457	085540081010	131588	26964038D	230342	SSP0015	131298
000077219010	133300	085540151010	132821	26964060A	230268	SSP0020	140104
000077221010	133301	085540191010	132821	27228A	131248	SSP0023	134459
000077229010	133301	085540211010	131115	76879E	131787	SSP0024	138138
000077252010	133301	085540221010	131112	76997F	131121	SSP0025	130871
000077262010	235267	085540281010	131437	LASX15-274	LASX15-274	SSP0026	137532
000077269010	134890	085540321010	134364	LASX17-62/1	LASX17-62/1	SSP0027	130879
000077269010	335154	085540341010	138537	LASX2-34	LASX2-34	SSP0030	133463
85541488	132586	085540351010	138538	LTH102	133463	SSP0031	135573
054242829010	137719	085540371010	132249	LTH107	134736	SSP0035	136135
054245374010	131169	085540381010	230757	LTH108	136135	SSP0036	135784
054247034010	130452	085540401010	230025	LTH112	233867	SSP0037	233867
054247034010	130452Z	085540431010	132818	LTH203	135573	SSP0038	233868
054247396010	131708	085540431010	132818Z	LTH205	231196	SSP005	135822
054263852010	138346	085540441010	132820	LTH206	133050	SSP6000	135467
054265121010	136878	085540451010	132818	LTH207	132486	SSP6001	132475
054266043010	135822	085540451010	132818Z	LTH208	139953	SAAR6000	134736
054266044010	130196	085540471010	133566	LTH209	231269	SAAR6001	132486
054267317010	132286	085540491010	131716	LTH210	138565	TAB100	132209
054268140010	132852	085540521010	132188	LTH212	135784	TAB102	135822
054268141010	130452	085540561010	132228	LTH213	132475	TAB103	LASX73-412/1P



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
TAB104.....	131169	TJB113.....	133368	TOB100.....	131252	TPB121.....	131785
TAB106.....	140603	TJB114.....	133368	TOB108.....	131248	TPB123.....	131121
TAB112.....	140716	TLB101.....	131726	TOB109.....	130855	TPB124.....	134888
TAB116.....	LASX44-452P	TLB106.....	131724	TOB110.....	131248	TPB127.....	134899
TAB117.....	LASX40-412P	TLB110.....	130745	TOB111.....	131248	TPB131.....	131786
TAB118.....	LASX364	TLB112.....	130449	TOB112.....	130484	TPB133.....	131785
TAB119.....	LASX314	TLB117.....	130444	TOB113.....	132269	TPB136.....	134455
TAB124.....	LASX43-442	TLB118.....	130443	TOB114.....	131788	TPB137.....	131121
TAB125.....	142344	TLB185.....	133914	TOB115.....	134695	TPB138.....	134456
TAB125.....	LASX15-164	TLB189.....	135500	TOB116.....	131787	TPB139.....	133300
TAB127.....	LASX22	TLB193.....	131726	TOB117.....	131787	TPB140.....	134457
TAB128.....	LASX5-62/1P	TMB100.....	130453	TOB119.....	131786	TPB142.....	133301
TAB131.....	140896	TMB101.....	130451	TOB121.....	132269	TPB143.....	133301
TAB132.....	140765	TMB102.....	130897	TOB122.....	131121	TPB144.....	133187
TAB134.....	140511	TMB104.....	130450	TOB123.....	131121	TPB145.....	134456
TAB135.....	140512	TMB105.....	130446	TOB124.....	131787	TPB146.....	134457
TAB136.....	140897	TMB106.....	232480	TOB125.....	131121	TPB147.....	133187
TAB137.....	140898	TMB108.....	131732	TOB128.....	131786	TPB157.....	137759
TAB138.....	140513	TMB115.....	130445	TOB129.....	131248	TWB100.....	131264
TAJ100.....	140334	TMB116.....	130447	TOB130.....	130484	TWB105.....	131275
TAJ101.....	140336	TMB120.....	130452	TOB131.....	131786	TWB107.....	131275
TAJ102.....	140340	TMB121.....	131728	TOB133.....	131248	TWB108.....	131276
TAJ103.....	140339	TMB124.....	131708	TOB134.....	132269	TWB111.....	132270
TAJ105.....	140341	TMB125.....	131729	TOB135.....	130484	TWB112.....	131015
TAJ106.....	140338	TMB129.....	131733	TOB137.....	131121	TWB113.....	131015
TAJ111.....	140339	TMB130.....	136338	TOB138.....	131787	TWB114.....	131274
TAJ114.....	140337	TMB132.....	131734	TOB142.....	131787	TWB117.....	131078
TAJ203.....	140347	TMB133.....	233533	TOB145.....	131786	TWB122.....	131078
TAJ209.....	140349	TMB142.....	130453	TOB147.....	131787	TWB123.....	134430
TAJ400.....	140357	TMB143.....	130451	TOB151.....	131252	TWB124.....	131079
TAJ401.....	140360	TMB148.....	132285	TOB152.....	131252	TWB125.....	139085
TAJ403.....	140362	TMB150.....	132286	TOB153.....	131252	TWT200.....	139159
TAJ405.....	140396	TMB167.....	132586	TOB154.....	131252	TZT110.....	130879
TAJ406.....	140358	TMB168.....	132587	TOB157.....	130484	UVB102.....	130189
TAJ407.....	140361	TMB170.....	132285	TOB159.....	131787	UWB100.....	130824
TAJ409.....	140363	TMB171.....	133297	TOB160.....	131255	UWB102.....	130824
TAJ410.....	140362	TMB174.....	133296	TOB162.....	130855	UWB106.....	130826
TCB106.....	140590	TMB175.....	234219	TOB164.....	131787		
TCB110.....	140593	TMB177.....	133296	TOB165.....	131121		
TCB112.....	140212	TMB183.....	138299	TOB167.....	131787	<b>MAGNETI MARELLI</b>	
TCB113.....	140058	TMB196.....	135711	TOB169.....	131787	76892.....	130855
TCB114.....	140057	TMB197.....	136261	TOB172.....	134695	76899.....	132269
TCB114.....	B140057	TMB420.....	130406	TOB174.....	130855	77034.....	130855
TCB116.....	140103	TMB455.....	131104ZZ	TOB179.....	131248	77035.....	132269
TCB117.....	140102	TMB471.....	130414ZZ	TOB180.....	134891	77121.....	133531
TCB118.....	140104	TMB570.....	131104ZZ	TOB181.....	131255	77122.....	134888
TCB120.....	140144	TMJ100.....	130440	TOB182.....	131785	77130.....	134890
TCB122.....	140746	TMJ101.....	131783	TOB183.....	131247	77132.....	133531
TCB123.....	140053	TMJ102.....	131086	TOB184.....	131248	77133.....	133531
TCB123.....	B140053	TMJ103.....	131085	TOB190.....	130484	77134.....	132269
TCB124.....	140059	TMJ106.....	130440	TOB191.....	130484	77136.....	134886
TCB125.....	140054	TMJ107.....	131085	TOB193.....	133187	77165.....	134455
TCB127.....	140052	TMJ115.....	131985	TOB194.....	133187	77174.....	134457
TCB129.....	140528	TMJ117.....	131985	TOB196.....	134695	77175.....	133300
TCB130.....	140646	TMJ120.....	132453	TOB198.....	131787	77177.....	134457
TEB104.....	130196	TMJ121.....	131986	TOB199.....	131788	77185.....	133301
TEB105.....	130882	TMJ123.....	131985	TOB811.....	131115	77196.....	134456
TEB118.....	130196	TMJ140.....	131988	TOJ101.....	130811	77204.....	134457
TEB128.....	130213	TMJ171.....	132001	TOJ103.....	131800	77208.....	134457
TEB129.....	130201	TMJ204.....	130741	TOJ104.....	131144	77219.....	133300
TEB132.....	130196	TMJ210.....	131087	TOJ214.....	133052	77221.....	133301
TEB134.....	130194	TMJ400.....	131110	TOJ400.....	130814	77229.....	133301
TEB142.....	135200	TMJ401.....	130441	TOJ401.....	131084	77252.....	133301
TEB144.....	132400	TNB102.....	131737	TPB101.....	131255	77269.....	134890
TGB100.....	130203	TNB108.....	130452	TPB103.....	131786	77287.....	137759
THB101.....	131652	TNB133.....	131723	TPB104.....	133531	77892.....	130855
TIB107.....	135869	TNB137.....	131035	TPB106.....	134695	77899.....	132269
TIB108.....	130202	TNB142.....	131707	TPB107.....	132269	54242829.....	137719
TIB109.....	131656	TNB144.....	131206	TPB109.....	131787	54244775.....	134452
TIB110.....	233740	TNB145.....	131705	TPB110.....	134890	54245374.....	131169
TIB112.....	131654	TNB147.....	131707	TPB111.....	133531	54247034.....	130452
TIB113.....	130205	TNB149.....	131707	TPB112.....	133531	54247383.....	131656
TIB114.....	131655	TNB153.....	134065	TPB114.....	134886	54247396.....	131708
TIB115.....	130195	TNB165.....	130452	TPB115.....	134886	54247397.....	131729
TJB103.....	130200	TNB167.....	132852	TPB116.....	133531	54263852.....	138346
TJB104.....	130878	TNB169.....	131728	TPB117.....	131785	54265121.....	136878
TJB106.....	130210	TNB172.....	133682	TPB118.....	133531	54265377.....	136879
TJB111.....	133368	TNB173.....	133683	TPB119.....	133531	54265874.....	138346
TJB112.....	132401	TNB176.....	133295	TPB120.....	131785	54266043.....	135822
						54266044.....	130196

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>MAGNETI MARELLI</b> <i>Continued</i>							
54267317	132286	70616002	130417	74860300	140048	83220461	135565
54268139	132285	72138801	130749	74860300	B140048	83221191	JSX35-364
54268140	132852	72138802	138752	74860380	140047	83221220	138639
54268141	130452	72138902	139131	74860380	B140047	83221241	136204
54268142	131728	72139001	131109	74860391	130737	83221531	134859
54268555	132401	72139002	139131	74861441	130737	83221541	134859
54268565	133682	72139003	133985	74861781	JSX162	83221681	JSX35-374
54269202	136876	72139007	234922	74866041	JSX134	83222270	140242
54290474	133683	72143101	136203	74866140	140049	83222681	135565
54290585	132285	72143103	136203	74866140	B140049	83224461	136204
54290638	138299	72143104	136203	74866151	132075	83224481	JSX38-39-403
54290689	134854	72143105	136203	74866611	130738	83225127	135620
54290789	134853	72143106	136203	74867401	130738	83225266	JSX38-412
54290790	134853	72143107	136203	74867931	130735	83225326	138534
54290840	133297	72159801	132821	74868171	JSX52	83225359	136204
54291125	134853	72161301	MASX25-264	74868181	JSX162	83225372	133567
54291911	132586	72161302	MASX25-264	74868210	140050	83225622	235301
54291912	132587	72161303	MASX27-284	74868210	B140050	83225727	135620
54292179	133295	72161304	MASX27-284	74868891	130439	83225822	JSX43-45-444
54292376	133368	72162401	MASX21-224	74869671	130945	83225823	JSX43-45-444
54292603	134853	72162402	MASX21-224	74869711	333125	83225824	JSX43-45-444
54292953	130202	72162403	MASX23-244	74870031	130945	83225846	235304
54293451	136261	72162404	MASX23-244	74870111	130740	83225886	138535
54293699	134852	72162601	133955	74870151	130848	83226116	235304
54293877	134852	72163201	131470	74871431	130739	83226148	JSX40-46-474
54293878	134852	72163701	131472	74874241	130738	83226189	JSX40-46-474
54293879	134852	72163902	136975	74874701	JSX134	83226216	136204
54293976	138434	72163903	136163	74876851	130737	83226316	231159
54293977	138351	72163904	136163	74880941	JSX21-22	83226336	139627
54294392	132400	72164101	135604	74881110	140268	83226407	231899
54294400	135200	72164102	135242	74881110	B140268	83226536	135620
54294440	135565	72164701	134041	74881121	JSX21-22	83226569	139902
54294817	139710	72165001	134670	74881151	134291	83226683	135565
54294922	130452	72165901	131473	74881251	130737	83226713	235301
54295140	133682	72169501	133955	74883521	134291	83226811	135620
54295252	133295	72294601	130328	74886131	131716	83226888	139629
54295255	133296	72313961	136975	74886731	130737	83226919	JSX52
60737105	131314	72362307	136203	74886971	131715	83226920	JSX52
62165801	MASX23-244	72362308	136203	74887061	131716	83227131	135565
62362910	140202	72362510	B140200	74887310	140269	83227226	135565
62362910	B140202	72362601	136734	74887310	B140269	83227257	JS33
63600400	130377	72362910	140202	74887810	140270	83227257	JS34
63600403	131437	72362910	B140202	74887810	B140270	83227257	JSX33-344
63600483	131437	72363110	135770	74887890	140270	83227258	JS33
63600493	131437	72363201	MASX13-144	74887890	B140270	83227258	JS34
63600502	131437	72363202	MASX13-144	74887901	JSX23-24-28	83227258	JSX33-344
63600504	131437	72363207	MASX15-164	74887911	JSX23-24-28	83227260	135565
63600505	131437	72363402	131109	74889271	131715	83227357	JSX51-52-634
63600506	131437	72364310	135768	74891101	134291	83227362	JSX51-522
63600507	130367	72365010	140201	74891161	132188	83227364	JSX51-52-593
63600508	131437	72365010	B140201	74891260	JSX23-24-28	83227370	JSX51-52-593
63600802	132227	72366601	134681	74891391	134018	83227383	JSX61-62-634
63600900	133083	72372530	130417	74893801	JSX29-302	83227490	JSX38-39-403
63600901	132228	72378801	130946	74893811	JSX29-302	83227491	JSX38-39-403
63600904	230325	72382301	131670	74893830	134115	83227502	230805
63601700	132249	72386801	130386	74893901	132119	83227584	JSX61-62-634
63601768	132228	72386803	130386	74894221	132817	83227652	JSX61-62-634
63601963	137790	72392104	139131	74894441	134798	83227678	135620
63601966	137790	72397101	234921	74894681	132820	85511103	138444
63602106	138444	72399501	130946	74896591	132818	85530010	132227
63602109	138477	72399502	139848	74896591	1328182	85530220	230325
63602200	130373	74350265	130328	74898071	132188	85530280	131437
63602290	130373	74350413	131747	74898111	134018	85530290	131437
63602404	138477	74350433	131747	74899021	132817	85530330	132228
63602502	138477	74372530	130417	74899041	235301	85540001	132228
63631425	130281	74702610	JSX94	74899601	130437	85540011	131112
63633604	139849	74703210	135769	74964941	335584	85540031	138753
63633801	131112	74703401	134643	74981251	130737	85540041	230325
63633804	138753	74705710	140046	74991161	132188	85540081	131588
63633806	131112	74705710	B140046	79026095	131184	85540111	131115
63633825	131112	74705810	140065	79033664	132254	85540151	132821
63633901	131115	74705810	B140065	79033957	132303	85540191	132821
63633902	131115	74734101	JSX204	79035321	139131	85540211	131115
63633925	131115	74751110	135644	79036683	131112	85540221	131112
63633933	131115	74825410	140109	79036685	131115	85540231	133566
63693801	131112	74827010	140452	79044568	132304	85540271	130738
63902000	130377	74827301	130739	82368225	131143	85540281	131437
70494803	130325	74838701	JSX184	82368225	333147	85540291	134018
70494804	130325	74846001	JSX194	83220031	133567	85540311	130737



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
85540321	134364	85541470	133683	323114011	B140756	16.110.010	131443
85540341	138537	85541472	138351	323114016	140691	16.120.010	140977
85540351	138538	85541476	LASX314	323144016	140691	16.120.010	B140977
85540371	132249	85541479	130452	324592003	140381	16.150.010	130304
85540381	230757	85541479	130452Z	344112021	PLSX34	16.150.010	333155
85540401	230025	85541483	136878	344112027	PLSX44	16.360.068	130320
85540411	134859	85541488	132586	344122021	PLSX34	16.360.198	138260
85540431	132818	85541490	130452	113937150870	136270	16.360.277	138670
85540431	132818Z	85541490	130452Z	273111014174	136681	16.360.322	130119
85540441	132820	85541496	131728	323125436125	140758	16.360.324	131309
85540451	132818	85541503	135711	323125436125	B140758	16.360.325	131075
85540451	132818Z	85541538	131729	323125527131	140756	16.360.326	130319
85540471	133566	85541541	131728	323125527131	B140756	16.360.333	130120
85540473	133566	85541544	132586	323125641703	140756	16.360.402	138212
85540491	131716	85541560	230809	323125641703	B140756	16.360.539	131311
85540521	132188	85541670	138444	323125723125	140012	16.360.576	131116
85540561	132228	85541680	139901	323622641703	140756	16.670.012	133554
85540581	133083	85541690	139901	323622641703	B140756	16.670.073	130282
85540591	132227	85541700	139902	323622642933	140691	16.670.119	131053
85540601	131715	85541717	138477	323662642933	140691	16.670.124	130806
85540611	131716	85541750	333881	324592000000	140381	16.670.127	130281
85540661	130737	85541770	234733	334174503246	PLSX34	16.770.295	140918
85540681	135117	85541780	135717	344154113246	PLSX34	16.900.038	130740
85540691	138537	85541810	333881	344154123387	PLSX44	16.900.057	132906
85540711	136164	85541820	137191	344174143386	PLSX44	16.900.089	132764
85540721	131437	85541870	139655	344174503246	PLSX34	16.900.117	137281Z
85540731	130439	85541990	238841	443930150241	134795	16.900.151	235621
85540811	130737	85553402	239075	443930154210	130729	16.900.254	136969
85540841	138522	85553621	239080	443930154211	130729	16.900.284	137281Z
85540881	136257	86226811	135620	443930157540	133413	16.900.392	133860
85540911	131437	93221201	JSX35-364	443930157560	133412	16.900.408	133860
85540922	139104	99339837	133841	443930157911	130904	16.900.541	133860
85540961	137191	99339837	333855	443930157940	135773	16.900.879	136969
85540971	135717	636331425	130281	443930157941	135773	16.900.880	234268
85540981	137190	063601962000	133566	443930157971	132120	16.900.920	130414
85540991	133566	72363201/02	MASX13-144	443930158061	131929	16.900.920	333516
85541003	138444	72363203/04	MASX15-164	443937150171	132941	16.900.920	130414Z
85541010	230809	72363205/06	MASX15-164	443937150241	134795	16.900.922	133860
85541020	137790	72383701/02	MASX17-184	443937150860	136267	16.900.935	132273
85541030	138167	72383703/04	MASX19-204	443937150870	136270	16.900.935	333227
85541040	134364	72383705/06	MASX19-204	443937151560	231681	16.901.392	133860
85541060	138522	7489438/1	JSX31-32			16.901.408	133860
85541070	138531	7489439/1	JSX31-32	MAHLE LETRIKA		16.901.512	139519
85541080	138533	IE14AA	130281	11.250.121	131370	16.901.657	235850
85541100	138865	IE38AAA	131112	11.250.142	131370	16.901.658	138866
85541110	231806	IE39AAA	131115	11.250.147	333742	16.901.694	139520
85541111	231806			11.250.187	333669	16.901.722	232482
85541160	138985	MAGNETON (PAL/SKODA)		11.900.057	132906	16.901.751	234984
85541160	138985Z	0157541	133413	11.902.808	333908	16.901.752	230280
85541210	230805	0157561	133412	11.911.910	333989	16.902.004	234984
85541220	231414	0157912	130904	15.100.092	130419	16.902.036	333910
85541250	139901	0157941	135773	15.100.092	130419Z	16.902.098	235828
85541260	230809	0157972	132120	15.100.152	130418	16.902.152	235092
85541280	139655	0158061	131929	15.100.154	131167	16.902.379	333674
85541300	231899	931544	140527	15.120.010	140977	16902382	335394
85541300	333868	931550	140397	15.120.010	B140977	16.902.507	333682
85541303	135711	932232	PLSX44	15.120.011	140026	16.902.621	335624
85541320	133531	2000940	140756	15.120.011	B140026	16.902.653	333683
85541322	133531	2000940	B140756	15.120.012	140006	16.902.733	231623
85541323	134888	5233420	139615	15.120.012	B140006	16.902.808	333908
85541325	133531	7150171	132941	15.120.014	140140	16.902.815	335572
85541333	LASX364	7150242	134795	15.120.014	B140140	16.902.816	234984
85541336	139032	7150860	136267	15.120.022	140040	16.902.835	333756
85541350	231479	7150872	136270	15.120.022	B140040	16.903.087	136969
85541360	234733	7152560	231681	15.120.087	140040	16.903.095	233764
85541390	231478	7152762	231681	15.120.087	B140040	16.903.130	131267
85541400	230809	7152822	235488	15.120.089	140996	16.903.166	139521
85541410	137190	7152860	136267	15.120.094	140010	16.903.392	234270
85541420	138444	7152960	136267	15.120.094	B140010	16.903.550	335623
85541430	137191	7153142	231681	15.120.095	140019	16.904.625	335625
85541453	138434	7153180	231679	15.120.095	B140019	16.904.776	333681
85541454	130452	7153182	231681	15.120.153	140977	16.904.847	231623
85541454	130452Z	7153612	231681	15.120.153	B140977	16.904.894	333911
85541456	138351	7153860	136267	15.120.155	140977	16.905.063	BSX1314
85541459	132852	7153912	231681	15.120.155	B140977	16.905.108	JSX162
85541462	132285	7154142	231681	15.120.161	140310	16.905.143	139634
85541465	139032	8014251	130729	15.120.161	B140310	16.905.159	139988
85541466	132285	110904300	PLS3/0	15.120.243	140977	16.905.218	JSX134
85541468	139032	323114011	140756	15.120.243	B140977	16.905.225	JSX52

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>MAHLE LETRIKA</b> <i>Continued</i>							
16.905.226	BSX964	16.915.125	335109	083227028000	139602	E356-18-X70	135467
16.905.233	140982	16.915.127	335696	083227131000	135565	E356-18-X81	140429
16.905.235	BSX157-1584	16.915.354	335689	083227260000	135565	E356-18-X95	139203
16.905.240	230853	16.915.546	335047	083227285000	231899	E357-18-X65	136135
16.905.244	139634	16.915.869	335698	083227285000	333868	E501-24-753	140349
16.905.247	BSX15154	17.120.057	140050	<b>MANDO MALROE</b>			
16.905.294	BSX1024	17.120.057	B140050	<b>MASSEY FERGUSON</b>			
16.905.375	142326	17.120.203	140436	3473937M91	131248	F210-18-X01	140738
16.905.375	BSX135-1454	17.120.203	B140436	<b>MAZDA</b>			
16.905.376	BSX134-1444	17.120.305	140435	0135-18-444A	140345	F210-18-X65	136135
16.905.380	BSX1004	17.120.305	B140435	0135-18-445A	140345	F210-18-X70	135467
16.905.386	131134	18.100.021	131714	0208-23-756	140357	F214-18-X25	132012
16.905.387	BSX344	18.100.023	130417	0221-23-764	130814	F2D4-18-X10	133288
16.905.388	BSX344	18.100.098	130417	0221-23-786	130814	F2D4-18-X66	140966
16.905.389	BSX354	18.100.104	130722	0222-24-722	130741	F8B1-18-X60	134736
16.905.391	130128	18.500.803	130325	0222-24-741	140321	FE79-18-X10	133052
16.905.392	BSX964	18.500.806	130325	0222-24-752A	233867	FP13-18-X10	139202
16.905.395	130303	18.500.807	130322	0222-24-753	140347	FP13-18-X65	139241
16.905.395	333664	18.900.179	132075	0222-24-760	231976	FP13-18-X87	139205
16.905.395	130303Z	72741372	333669	0222-24-760A	231976	H833-18-X45	131087
16.905.402	134042	900.000.101	132324	0290-24-830	131110	JE26-18-X10	133049
16.905.421	JSX162	922H6	133860	0290-24-841A	140326	JF01-18-X65	136894
16.905.423	134042	ARD1133	131370	0324-18-400A	140320	K805-18-X10	133049
16.905.439	IKSX2-32	IKSX12	JSX162	0324-24-760	133052	M602-18-X60	132484
16.905.524	134042	IKSX124	IKSX124	0324-24-760A	133052	N202-18-X10	131802
16.905.621	131074	IKSX42	JSX52	0342-24-760	133052	N202-24-705A	132484
16.905.645	140981	MSX1106	335612	0426-24-715	140320	N202-24-720	139236
16.905.688	140978	MSX656	335572	0426-24-753	140347	N202-24-729A	231394
16.905.695	140979	MSX724	335625	0578-23-764	130814	N202-24-750	133886
16.905.754	139522	MX39	333669	0706-24-556	140348	N221-24-715	140428
16.905.764	234985	<b>MAKO</b>		0820-24-707	140321	N226-18-760	131802
16.905.767	BSX1024	063225138000	135717	0839-24-736B	132470	N326-18-X05	135468
16.905.810	134042	063600496000	131437	0839-24-753	140386	N326-18-X10	133049
16.905.832	140974	063601768000	133566	0845-18-400	140321	N326-18-X25	132014
16.905.950	IKSX2-32	063602404001	138477	1363-24-736	132470	N326-18-X57	135341
16.905.973	140981	063602407000	138444	1372-24-736	136344	N326-18-X60	136334
16.906.015	139634	063602409000	138444	1456-24-752	135201	N326-18-X87	136895
16.906.266	140978	063633925000	131115	1470-24-736	131802	N327-18-X60-A	231471
16.906.368	141030	063693801000	131112	1757-24-760	131802	PN11-18-X10	133288
16.906.372	141031	072030320000	136203	1758-24-736	133052	PN11-18-X40	133439
16.906.373	141032	072030346000	136203	1758-24-736A	133052	PN11-18-X50	137427
16.906.374	142041	072162601000	133955	1907-18-400A	140320	PN11-18-X65	136377
16.906.542	139522	072163001000	131473	4782-24-736	139586	PN40-18-X10	133049
16.906.642	139522	072163701000	131472	4840-24-709	139585	PN40-18-X66	140743
16.906.653	234943	072164101000	135604	4854-24-736	132917	PN40-18-X70	135365
16.906.819	233765	072164102000	135242	4893-24-722	131628	R201-18-X66	140388
16.907.055	134042	072164310000	135768	4894-24-715	140322	R201-24-715	140514
16.907.197	333682	072164701000	134041	8088-24-722	131087	R201-24-736	231981
16.907.455	333680	072165001000	134670	8218-24-760	132095	RF01-24-705	134369
16.907.753	333777	072313961000	136975	8599-24-736	132473	S501-24-740	236080
16.907.772	335392	072315611000	132821	8599-24-740	134966	SE01-24-736	136344
16.908.037	235094	072316711000	139901	8599-24-741	137545	SE01-24-750	140388
16.908.097	230853	072356114000	138752	8599-24-746	138565	SE45-18-X60	231771
16.908.135	333909	072363110000	135770	8599-24-750	140387	SEO1-24-736	234723
16.908.336	335690	072376505000	131329	8872-24-736	131802	VS10-18-X10	234872
16.908.337	335163	072376507000	131329	8937-24-760	133049	VS10-18-X33	231581
16.908.352	333909	074703210000	135769	AM15-18-X10	138013	VS10-18-X56	231575
16.908.491	130302	074883521000	134291	AM15-18-X25	132011	VS20-18-X10	234484
16.908.624	235093	074898191000	132229	B301-18-X45	134918	WL02-18-X57	135341
16.908.746	335379	074899021000	132817	B630-18-X45	132005	WL02-18-X65	231504
16.908.752	335699	083221220000	138639	B630-18-X65	136135	<b>MERCEDES BENZ</b>	
16.908.807	335827	083221241000	136204	B660-18-X65	136135	0001519813	132205
16.909.002	130418	083221541000	134859	B6AZ-11-450A	130493	0005460035	333717
16.909.012	BSX1314	083224461000	136204	B6S8-18-X10	133288	0009908330	192569
16.909.013	130317	083225127000	135620	BPD4-18-X05	135468	0011511313	136787
16.909.013	333732	083225138000	135717	BPD4-18-X60	139398	0011512713	230835
16.909.041	BSX1304	083225359000	136204	BPD4-18-X66	140966	0011513513	137481
16.909.070	130417	083226316000	231159	E301-24-730	135571	0011522710	230356
16.909.296	335393	083226336000	139627	E301-24-753	140349	0011527810	238849
16.911.403	333679	083226407000	231899	E356-18-X01	140555	A0005460035	333717
16.911.446	335691	083226407000	333868	E356-18-X10	231977	A0009908330	192569
16.911.538	333902	083226569000	139902	E356-18-X45	132005	A0011522610	136255
16.911.597	335611	083226811000	135620	E356-18-X60	134736	A0011527810	238849
16.911.623	335700	083226888000	139629	<b>MERCURY MARINE</b>			
16.911.910	335111	083227016000	139602	25661	139858	8915857	139858
16.912.179	335622			8968258	139858	8976545	139858
16.912.371	335612			15-054	140713		
16.912.924	335824						
16.915.044	335688						



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
25-661	139858	M106T57671	139398	M191T13471	137765	M191X67571	231371
54-214	231961	M106X01171	132484	M191T13571	136145	M191X67585	231371
54-215	231960	M106X01271	134071	M191T13671	136722	M191X67685	231371
54-83218	231456	M106X01471	132484	M191T14271	231952	M191X67771	231371
54-8336	231952	M106X01871	134071	M191T14371	137643	M191X67885	231371
54-8408	231965	M106X02271	132486	M191T14671	136722	M191X68071	139541
54-981	139858	M106X06971	136334	M191T15071	139541	M191X68171	232229
65057A1	139858	M106X07271	231471	M191T15271	137643	M191X68271	231371
65-057A1	139858	M106X08571	132484	M191T16071	132009	M191X68471	231415
87-61053	133857	M106X08671	135832	M191T16171	132010	M191X68671	231371
89-15857	133857	M106X29171	136196	M191T16271	132014	M191X68785	232229
89-638258	133857	M106X29271	139646	M191T16771	136923	M191X68971	231341
89-68258	133857	M106X29272	139646	M191T16971	136923	M191X69671	234810
89-76454	133857	M106X29371	133034	M191T17071	132009	M191X69771	234774
89-76545	133855	M106X29471	132484	M191T18271	136722	M191X69871	232229
89-96054	139856	M106X29871	132486	M191T19271	234514	M191X90271	237834
89-96158	139857	M106X40671	132487	M191T19271	333871	M191X93771	234774
		M106X40871	231771	M191T22071	132005	M191X94071	237105
		M106X41271	136196	M191T22071	132005Z	M191X94271	232229
		M106X41671	132486	M191T22271	133454	M191X94471	335309
		M106X41672	132486	M191T22371	132005	M191X95971	330366
		M106X41673	132486	M191T22371	132005Z	M191Y57081	133520
		M106X41674	132486	M191T22471	135567	M212X11573	137546
		M106X41971	139646	M191T22571	135572	M212X11771	137545
		M106X43472	335685	M191T22771	132005	M212X14471	137427
		M106X43571	138962	M191T22771	132005Z	M230D00171	135341
		M106X43572	138962	M191T22871	133454	M230X00471	135341
		M106X43772	139825	M191T22971	132005	M230X00671	135341
		M106X43871	237825	M191T22971	132005Z	M231C00401	230337
		M106X45071	233961	M191T23071	132005	M231C00901	138565
		M106X50171	136334	M191T23071	132005Z	M234X54371	230549
		M106X50271	134736	M191T23171	133454	M321X04471	137929
		M106X50471	136334	M191T23371	135581	M321X04771	137929
		M106X50571	231471	M191T23471	132005	M321X05171	137929
		M106X50671	132487	M191T23471	132005Z	M321X06671	137929
		M106X50871	134736	M191T26171	133268	M321X07071	137929
		M106X51571	132484	M191T26771	134918	M321X07076	235214
		M106X52171	135832	M191T30171	130741	M321X10276	234811
		M106X52271	138417	M191T30371	131628	M321X15071	237859
		M106X52471	135832	M191T30971	130741	M357T61671	134966
		M106X52571	134736	M191T30972	130741	M357T70171	132386
		M106X52771	134736	M191T30973	130741	M357T70571	132387
		M106X52871	134736	M191T30974	131087	M357T70771	132386
		M106X53171	132484	M191T31071	131628	M357T70971	132386
		M106X53271	134071	M191T31671	130741	M357T71671	134966
		M106X53571	132484	M191T33071	130741	M357T72271	236080
		M106X54971	132484	M191T33371	131087	M357T72671	133449
		M106X55071	134071	M191T33372	131087	M357T72672	133449
		M106X57171	132484	M191T34071	131087	M357T72971	134966
		M106X57271	134071	M191T34571	130741	M357T73171	133448
		M106X57671	139398	M191T35171	131087	M357T73181	134966
		M106X58171	231471	M191T41171	333972	M357T75471	133439
		M106X58571	135832	M191T41471	331942	M357T75571	132489
		M106X58671	230499	M191T41971	330484	M357T75971	133439
		M106X58771	139398	M191T57072	133520	M357T76171	134966
		M106X58971	230499	M191T57081	133520	M357T76371	133439
		M106X59371	236914	M191T57083	133520	M357T78071	132386
		M106X59771	230499	M191T65171	335138	M357T78271	233846
		M106X64771	330035	M191T68071	139541	M357T84181	134966
		M135B00371	133403	M191T68771	232229	M357X64371	233595
		M135C00171	133403	M191T68971	231341	M357X64471	231776
		M135X00771	133403	M191T76081	231952	M357X64771	235340
		M135X01071	139536	M191T93971	231341	M357X68071	233595
		M135X01171	133403	M191T94071	237105	M357X73571	233845
		M135X01471	139323	M191T94571	333127	M357X77971	139410
		M135X01571	139323	M191T95671	330417	M357X78471	139410
		M135X01581	231575	M191T96471	335825	M357X78871	330723
		M135X01771	139821	M191X13271	132012	M357X83673	133449
		M135X02871	139536	M191X13471	137765	M357X85073	230332
		M191C00101	233867	M191X13571	136145	M357X85273	133449
		M191T12070	132011	M191X14671	333947	M357X91171	232054
		M191T12071	132011	M191X15871	331730	M357X91372	136722
		M191T12171	132012	M191X16371	236752	M357X91971	232054
		M191T12271	137643	M191X16771	136923	M357X91973	232054
		M191T12272	137643	M191X16971	136923	M371X00171	231976
		M191T12471	132011	M191X18171	132011	M371X00272	131802
		M191T12871	136602	M191X18671	335694	M371X00372	231976
		M191T12971	137218	M191X19971	236779	M371X00382	131802
		M191T13271	132012	M191X243BT	235426	M371X00392	231976

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>MITSUBISHI</b> <i>Continued</i>							
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M371X02071	132591	M371X69171	138011	M372X02471	230204	M578C24601	136895
M371X02471	133052	M371X70171	133288	M372X04171	132473	M578D13501	134484
M371X02871	231976	M371X71171	133049	M372X06171	231457	M578X26871	139205
M371X05071	234875	M371X71271	133288	M372X06871	132472	M578X27571	139540
M371X07371	133339	M371X71275	133288	M372X06971	139614	M578X29171	231459
M371X11171	132470	M371X71371	133288	M372X07471	139614	M605C36101	234906
M371X12571	132470	M371X71473	231977	M372X07871	335686	M605C63301	234906
M371X14571	132470	M371X71671	133049	M372X10171	132591	M605X23471	133007
M371X16171	133052	M371X71871	133288	M372X10271	132591	M605X25771	133007
M371X16371	133052	M371X71973	133288	M372X10371	132591	M605X26971	139585
M371X16471	133052	M371X72073	133288	M372X10372	132591	M605X27971	137739
M371X17271	131802	M371X72171	133288	M372X10971	132591	M605X28271	133450
M371X20171	234871	M371X72173	133288	M372X11071	132591	M605X30671	133493
M371X20271	136344	M371X72175	133288	M372X11171	132591	M605X31671	132085
M371X20571	138418	M371X72271	138618	M372X11871	139824	M605X31971	133871
M371X20572	138418	M371X72371	133049	M372X13071	139824	M605X32471	133007
M371X20671	136344	M371X72473	235847	M372XB0571	235385	M605X35071	231779
M371X20672	136344	M371X73171	133049	M373X04071	234320	M605X36071	137492
M371X20871	234482	M371X73271	133049	M373X04571	234319	M605X36171	139344
M371X21571	136142	M371X73671	133049	M373X04771	234319	M605X61671	133009
M371X22571	234723	M371X74071	139202	M373X05071	234875	M605X63172	133630
M371X30371	133052	M371X74271	133049	M373X05171	234319	M605X65171	132483
M371X30871	133052	M371X74371	235847	M373X05371	234319	M605X65171	333873
M371X31271	132095	M371X74471	133049	M373X05671	235103	M605X66071	133451
M371X33071	133052	M371X74571	133049	M373X06971	234320	M605X71971	234808
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M371X34471	131802	M371X74771	133288	M373X10581	234114	M605X95071	232391
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M371X36271	133053	M371X76275	138011	M375X00271	138012	M605X96971	231456
M371X41971	132470	M371X76371	138011	M375X00371	231454	M640B26571	231988
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M371X45971	132472	M371X76875	138012	M385X00271	138012	M640B28371	138619
M371X46071	132471	M371X78371	137930	M391C00101	233867	M640B28771	231813
M371X50171	133052	M371X79273	135590	M391C02201	135201	M641B10601	137219
M371X50671	133052	M371X80171	133052	M391C02501	233868	M641X35671	136762
M371X53071	133052	M371X80371	133052	M391C02801	233868	M641X35673	136762
M371X53072	133052	M371X80571	131802	M391X04371	139826	M641X35674	136762
M371X54471	131802	M371X80671	139408	M409C12670	140428	M641X35771	230567
M371X54671	131802	M371X80771	133052	M409C12670	B140428	M641X35772	230567
M371X54771	131802	M371X81271	133052	M409C12870	140430	M641X66172	138405
M371X54871	131802	M371X81371	131802	M409C12970	140555	M641X66173	138405
M371X55071	131802	M371X81871	131802	M409C12970	B140555	M641X67771	138405
M371X55072	131802	M371X82373	131802	M409C13070	140428	M641X71272	137641
M371X58671	133049	M371X82671	133052	M409C13070	B140428	M641X71278	137641
M371X58771	133052	M371X83071	133052	M409C13270	140555	M641X88671	231788
M371X58871	133052	M371X92575	137930	M409C13270	B140555	M641XA0872	235329
M371X59271	133052	M371X93475	133049	M409C32370	140429	M641XA2072	234539
M371X59671	133053	M371X93575	138618	M409C32370	B140429	M641XA3471	234046
M371X60171	231977	M371X93771	133049	M409C32401	140731	M642X18171	231264
M371X60271	133289	M371X93975	139202	M409C32470	140731	M642X19373	231264
M371X60371	133288	M371X94071	137813	M409D01301	140505	M642X28771	231503
M371X61571	135590	M371X95073	133049	M409D30201	140319	M642X29871	234047
M371X62171	133288	M371X96575	235847	M409D30201	B140319	M642X33371	137219
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M371X62271	133288	M371X98075	133288	M409D32201	B140321	M644B10201	139236
M371X62272	133288	M371XA0273	139537	M409X32471	140731	M644B10601	137219
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M371X62571	137813	M371XA0373	133288	M410D00271	140321	M644B21201	137219
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M371X62771	133288	M371XA1874	139202	M410D11271	140320	M647C00171	140931
M371X62871	133288	M371XB2171	234872	M410D11271	B140320	M647C00271	140559
M371X63071	133288	M371XB2270	234484	M410D11671	140322	M647C00272	140559
M371X63171	135590	M371XB2271	234484	M410D12071	140320	M647C00371	140560
M371X63271	135590	M371XB2371	234872	M410D12071	B140320	M647C00371	GAS119
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M371X64271	133049	M371XB3671	335052	M410D12671	140323	M647C00573	140559
M371X64273	133049	M371XB4171	237102	M410D12671	B140323	M647C00671	140560
M371X64371	137930	M371XC1473	235847	M410D30171	140321	M647C00671	GAS119
M371X64471	133049	M371XC3775	236780	M410D30171	B140321	M647C00671	GAS120
M371X64671	133049	M371XD0971	331786	M414X00171	230999	M647C01771	140560
M371X64771	138012	M371XD1171	237861	M414X00471	231120	M647C01771	GAS119
M371X64971	133049	M372X00171	132472	M414X00472	230999	M647C01771	GAS120
M371X65071	133288	M372X00371	133050	M414X00474	139203	M647X01871	140743
M371X66371	137930	M372X00471	231981	M414X00487	231120	M647X02071	140967
M371X66771	133049	M372X01171	139586	M414X04871	231388	M647X02671	140967
M371X66971	231983	M372X02171	132472	M414X04872	231388	M647X02971	140561



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
M647X03471	140966	M649X01371	135467	M901X01571	191531	MD611213	136895
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M647X04271	141253	M649X02572	133340	M981C74201	231345	MD611216	140559
M647X04571	140921	M649X03573	133340	M981D73202	191873	MD611223	135468
M647X05571	141253	M649X04473	133886	M981D73205	191585	MD611591	133049
M647X05871	140966	M649X10171	139238	M981S70101	191584	MD611731	133341
M647X05971	140966	M649X20171	133886	M981S70202	135982	MD611748	137492
M647X06571	140966	M649X20471	138963	M981X73274	231683	MD611918	133341
M648C10371	140347	M649X20671	231892	M981X74671	136359	MD618334	140731
M648C12170	140556	M649X20771	139822	M982X38871	231581	MD618369	132486
M648C12370	140556	M71XA0274	139537	MD602052	130741	MD618443	134736
M648C13770	140347	M800T35171	135784	MD602074	231976	MD618447	140591
M648C14870	140349	M800T35671	135927	MD602210	233867	MD618451	136334
M648C14871	140349	M800T38371	135927	MD602213	140321	MD618458	137219
M648C14970	140349	M800T38871	136135	MD602213	B140321	MD618460	140387
M648C14971	140349	M800T38971	136135	MD602468	140347	MD618509	139408
M648C15070	140349	M800T38972	136135	MD602470	140347	MD618513	135467
M648C15372	140387	M800T38973	136135	MD602593	140345	MD618540	140967
M648C15372/472	140387	M800T39871	136894	MD602594	140345	MD618543	133288
M648C15472	140387	M800T43571	136938	MD602679	130741	MD618546	135468
M648C16970	140349	M800T43972	135784	MD602686	140320	MD618547	139205
M648C16971	140349	M800T47371	136938	MD602686	B140320	MD618581	133289
M648C20371	140386	M800T50373	136377	MD602687	140320	MD618593	139238
M648C22371	140346	M800T50471	136135	MD602687	B140320	MD618613	133289
M648C24471	140386	M800T51871	136135	MD602738	136359	MD618619	140561
M648C24471/472	140386	M800T52871	135927	MD602879	231976	MD618659	140967
M648C24472	140386	M800T52971	136135	MD604047	131110	MD618728	231977
M648C24971/972	140395	M800T53071	136894	MD604062	140326	MD618887	134925
M648C24973/974	140395	M800T54671	135927	MD604062	B140326	MD618958	138962
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M648C25273	140348	M800X38973	136135	MD604644	133810	MD618963	139541
M648C25671	140388	M800X43573	136938	MD604645	133808	MD618965	139540
M648C25671/672	140388	M800X43574	136938	MD607283	131087	MD618966	139361
M648C26371	141273	M800X44972	230649	MD607389	140347	MD618968	231503
M648C26771	141189	M800X44974	230649	MD607412	133053	MD618971	139538
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M648C28571	140388	M800X49771	139361	MD607420	140591	MD618974	231504
M648C28671	140387	M800X49772	139361	MD607434	133052	MD619096	139241
M648D10471	140345	M800X49871	231504	MD607448	132472	MD619101	139202
M648D20671	140931	M800X49877	231504	MD607462	135201	MD619164	139398
M648D20771	140386	M800X52872	135927	MD607540	132386	MD619204	231415
M648X28271	140387	M800X54671	135927	MD607549	231976	MD619204	335402
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M648X28471	142136	M800X60671	139241	MD607555	135467	ME101448	231892
M648X28671	140387	M800X61671	230498	MD607556	140349	ME700035	138418
M648X28771	140591	M800X61672	230498	MD607633	135573	ME700037	136196
M648X30971	140591	M800X61771	139241	MD607634	231981	ME700042	233845
M648X40771	140973	M800X64073	139241	MD607636	132486	ME700047	133339
M648X40811	140388	M800X70771	134266	MD607642	133448	ME700115	132472
M648X40871	140388	M800X70772	234266	MD607645	137219	ME700119	132591
M648X40972	141010	M800X70787	234266	MD607741	140428	ME700121	134966
M649C32370	140429	M806X06971	136334	MD607741	B140428	ME700122	138565
M649C32370	B140429	M816D00701	134485	MD607789	132483	ME700125	137545
M649T01271	133341	M841X84571	233455	MD607789	333873	ME700128	233868
M649T01272	133341	M863C04871	136416	MD607791	132489	ME700131	231388
M649T01273	133341	M863C05571	135573	MD607794	231196	ME700135	132591
M649T01371	135467	M863C05672	231782	MD607847	138405	ME700174	234319
M649T01471	133886	M863C06171	135573	MD607887	139203	ME700196	234320
M649T01671	133342	M863C06271	136416	MD607889	231977	ME700210	140395
M649T02171	133338	M863C06272	136416	MD607892	140555	ME700215	136344
M649T02172	231781	M863C06971	139981	MD607892	B140555	ME700234	231782
M649T02271	135467	M863D02271	135571	MD607894	132005	ME700278	136142
M649T02272	135467	M863X08672	139823	MD607894	132005Z	ME700299	141189
M649T02471	133886	M863X09272	233377	MD607896	231001	ME700304	141189
M649T03571	133340	M863X09671	139823	MD607903	140429	ME700307	234871
M649T04071	133886	M864X07071	135571	MD607903	B140429	ME700316	132591
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M649T04871	135467	M864X08872	134047	MD607924	134736	ME700379	234482
M649T04971	133339	M864X09371	139533	MD607926	135467	ME700564	133598
M649T04972	133339	M864X09571	133463	MD607933	131802	ME700828	234319
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M649T06871	133341	M864X09772	135468	MD607940	137427	ME700856	231779
M649T06971	133342	M864X09774	135468	MD607997	133289	ME700858	231781
M649T07371	133339	M864X11571	139538	MD608273	131087	ME700939	133339
M649T09371	133341	M864X12271	233377	MD611018	138619	ME700972	231813
M649T09471	133341	M864X12371	231265	MD611022	133451	ME700973	137546
M649T20471	138963	M900X02471	231001	MD611042	140430	ME700984	132591
M649X01271	133341	M901X00371	136359	MD611204	136334	ME701189	141102

## STARTER COMPONENTS

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O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>MITSUBISHI</b> <i>Continued</i>							
ME701290.....	138418	0-23100-0230.....	135667	0-47100-4220.....	135521	2114-43133.....	140334
ME701436.....	231581	0-23100-0231.....	135667	0-47100-4270.....	133852	2114-44101.....	140927
ME701437.....	135341	0-23100-0251.....	135668	0-47100-4360.....	132500	2114-45007.....	131783
ME701441.....	232391	0-23100-0380.....	137543	0-47100-4390.....	137811	2114-45014.....	135091
ME701442.....	234872	0-23100-0381.....	137543	0-47100-5130.....	335045	2114-45015.....	135059
ME701443.....	234872	0-23100-0430.....	234103	1-21470-0211.....	141106	2114-45100.....	231804
ME701445.....	231459	0-23200-0150.....	235751	1-21500-2060.....	137071	2114-45504.....	131986
ME701446.....	234851	0-23230-0150.....	132531	1-21740-0440.....	140448	2114-4661.....	140310
ME701448.....	231892	0-23230-0281.....	135669	1-21740-0710.....	140875	2114-47610.....	138364
ME701456.....	232054	0-23351-0220.....	140601	1-21740-0720.....	140875	2114-49007.....	132090
ME701459.....	135341	0-23500-0350.....	132514	1-23100-0160.....	133391	2114-52100.....	138505
ME701461.....	232230	0-23500-0353.....	132514	1-23351-0060.....	140521	2114-53104.....	137121
ME701462.....	139537	0-23500-0420.....	133291	1-23351-0080.....	140520	2114-53105.....	137121
ME701466.....	140973	0-23500-0421.....	133291	1-23351-0140.....	140517	2114-5312/5313.....	140334
ME701467.....	138963	0-23500-0422.....	133291	1-23500-0010.....	135542	2114-5312/8313.....	140334
ME701468.....	139826	0-23500-0454.....	135871	1-23500-0170.....	132519	2114-5313.....	140334
ME701487.....	231371	0-23500-0551.....	133854	1-23740-0010.....	140550	2114-5352.....	140311
ME701488.....	139823	0-23740-0110.....	140549	1-23740-0030.....	140550	2114-55506.....	132001
ME701489.....	139820	0-23740-0180.....	140549	1-23740-0050.....	140551	2114-55550.....	132459
ME701490.....	139824	0-23740-0200.....	140770	1-23740-0120.....	140549	2114-5661.....	140310
ME701492.....	139825	0-23740-0210.....	140770	1-23740-0140.....	140507	2114-57504.....	131800
ME701494.....	141010	0-23740-0250.....	140551	1-23740-0150.....	140507	2114-58005.....	191584
ME701495.....	139822	0-23740-0360.....	140732	1-23740-0170.....	140549	2114-5866.....	190480
ME701640.....	232054	0-23750-0050.....	132503	1-23913-0040.....	135673	2114-5867.....	190482
ME701648.....	231371	0-23750-0051.....	132503	7-09210-1000.....	132526	2114-59002.....	140338
ME701651.....	231371	0-23750-0250.....	135679	7-21351-0610.....	140485	2114-59002/69002.....	140338
ME701689.....	233891	0-24100-0030.....	335133	7-21351-0620.....	140485	2114-63104.....	137121
ME753433.....	139824	0-25000-6080.....	132493	7-21351-0621.....	140485	2114-63123.....	140786
MG122565.....	333848	0-25000-6081.....	132493	7-21351-0950.....	140449	2114-63123/83121.....	140786
MM502019.....	140346	0-25000-6082.....	132493	7-23100-0070.....	132537	2114-63124.....	140334
MM502135.....	140386	0-25000-6083.....	132493	7-23100-0160.....	134971	2114-63124/83124.....	140334
MM502137.....	140322	0-25000-6090.....	132493	7-23100-0190.....	133391	2114-63125.....	140852
MM502322.....	132917	0-25000-6320.....	233686	7-23100-0200.....	134971	2114-64102.....	137934
MM502346.....	139236	0-25000-6850.....	132494	7-23100-0201.....	134971	2114-67505.....	132094
MM502404.....	132387	0-25000-6852.....	132494	7-23100-0220.....	133391	2114-67605.....	232200
MM502405.....	135571	0-25000-7342.....	234253	7-23100-0240.....	134971	2114-68005.....	191873
MM502439.....	133493	0-25000-7690.....	233687	7-23100-0310.....	135668	2114-69002.....	140338
MM502461.....	133052	0-25000-7780.....	230186	7-23100-0330.....	134971	2114-71005.....	132454
MM502465.....	133052	0-25000-7810.....	233686	7-23351-0040.....	140517	2114-71104.....	132454
MM502529.....	133007	0-25000-7811.....	233686	7-23351-0060.....	140521	2114-72507.....	138505
MM502531.....	132386	0-25000-7812.....	233686	7-23351-0080.....	140520	2114-73105.....	137121
S409S00008.....	135574	0-25000-7822.....	233687	7-23351-0100.....	140517	2114-73123/83123.....	140781
S806P94203.....	135940	0-25000-7823.....	233687	7-23351-0140.....	140517	2114-73125.....	140986
S809P59201.....	133598	0-25000-7930.....	230186	7-23351-0150.....	140949	2114-76015.....	137938
S809P60170.....	133598	0-25000-8100.....	132494	7-23351-0154.....	140949	2114-77608.....	132094
S933P65270.....	140514	0-25000-8102.....	132494	7-23351-0160.....	140519	2114-79001.....	132090
S933P70605.....	140738	0-25000-8103.....	132494	7-23351-0220.....	140906	2114-81110.....	135478
S933P70669.....	140738	0-25000-8340.....	234253	7-23351-0225.....	140906	2114-82507.....	139788
SCE116.....	140920	0-25000-8341.....	234253	7-25000-6090.....	132493	2114-83123.....	140986
TLA141912ZE01.....	140876	0-25000-8342.....	234253			2114-83124.....	140334
U001T32974.....	333846	0-25000-8430.....	132493	<b>NISSAN</b>			
U001X06096.....	233891	0-25000-9250.....	132494	2108-4823.....	131800	2114-8661.....	140311
U001X31272.....	233891	0-47100-2670.....	134630	2114-11111.....	137948	2114-87507.....	132094
U001X45573.....	334180	0-47100-2671.....	134630	2114-1353.....	140870	2114-87603.....	231910
ZM-169596.....	232225	0-47100-2672.....	134630	2114-15016.....	139132	2114-89007.....	132090
ZM-169896.....	133285	0-47100-3010.....	133482	2114-15100.....	131988	2114-91104.....	134121
ZM-68096.....	133269	0-47100-3040.....	134630	2114-15504.....	131988	2114-93104.....	139166
ZM-69296.....	133273	0-47100-3041.....	134630	2114-15507.....	135091	2114-9352.....	140311
ZM-89196.....	134625	0-47100-3060.....	134630	2114-21100.....	138701	2114-95007.....	131852
ZM-89496.....	133286	0-47100-3100.....	132498	2114-21111.....	137948	2114-95501.....	133042
		0-47100-3110.....	132498	2114-25100.....	131986	2114-97605.....	138823
		0-47100-3180.....	133482	2114-25505.....	132459	2114-99008.....	133333
		0-47100-3290.....	135676	2114-26015.....	137533	2114-T7208.....	138364
		0-47100-3420.....	132499	2114-27001.....	132058	2120-2601.....	140316
		0-47100-3510.....	133395	2114-2742.....	137306	2120-37003.....	131431
		0-47100-3590.....	132500	2114-2835.....	190537	2120-4302.....	140318
		0-47100-3591.....	132500	2114-2867.....	190482	2120-4401.....	140317
		0-47100-3592.....	132500	2114-31109.....	138701	2120-45002.....	131985
		0-47100-3660.....	136400	2114-31200.....	235337	2120-67002.....	131431
		0-47100-3940.....	135674	2114-33122.....	140334	2120-7312.....	140339
		0-47100-3944.....	135674	2114-33122/43133.....	140334	2120-7312/9311.....	140339
		0-47100-4060.....	134631	2114-3315/6313.....	140336	2120-75002.....	131985
		0-47100-4062.....	134631	2114-37602.....	132093	2120-9311.....	140339
		0-47100-4070.....	134632	2114-39008.....	137750	2130-1101.....	132456
		0-47100-4071.....	134632	2114-39505.....	139664	2130-1310.....	140313
		0-47100-4100.....	137811	2114-43125.....	140852	2130-13111/3315.....	140379
		0-47100-4140.....	132499	2114-43125/53125.....	140852	2130-1914.....	135722
		0-47100-4141.....	132499	2114-43125/63125.....	140852	2130-21003.....	132798
		0-47100-4160.....	137811	2114-43125/83125.....	140852	2130-2306.....	133730
						2130-23111.....	140377
<b>MOTORCRAFT</b>							
SBE-324.....	133339						
<b>MTD</b>							
725-0771.....	234073						
925-0771.....	234070						
<b>MWM</b>							
606902400101.....	333717						
<b>NIKKO</b>							
0-0055-05402.....	235814						
0-0274-06652.....	191645						
0-21500-2001.....	137071						
0-23100-0161.....	133391						
0-23100-0200.....	134971						
0-23100-0201.....	134971						



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
2130-23112	140567	23310-N5900	132454	23322-5C011	135468	23343-70T11	138012
2130-23112/73111	140567	23310-S0100	133031	23322-Y0510	135571	23343-77A11	133049
2130-2509	135188	23310-T9006	133056	23324-10T00	135188	23343-83W00	138809
2130-2601	140313	23310-U6000	133031	23324-10TD0	135188	23343-84A17	138012
2130-37005	138809	23310-AA050	137953	23324-43G00	135188	23343-85A11	138011
2130-43112	140567	23312-03J00	135091	23325-KA010	137021	23343-85E00	231910
2130-4312/7311	140595	23312-0M211	231776	23330-99202	136529	23343-88407	135287
2130-4502	132459	23312-10600	130440	23330-J5500	133057	23343-99013	130811
2130-4615	137301	23312-10605	130440	23330-T9002	133057	23343-99101	132470
2130-53022	133730	23312-10G00	135091	23331-90001	140379	23343-99110	233122
2130-53112	140567	23312-10G00	135091ZZ	23331-99002	141023	23343-99204	233122
2130-5312/2250	140378	23312-11M00	135091	23331-99003	141023	23343-B5010	131802
2130-57005	135370	23312-11M00	135091ZZ	23331-99107	140829	23343-B5011	131802
2130-63015	230636	23312-21000	130440	23331-99111	140829	23343-C0600	132058
2130-63112	140567	23312-21005	130440	23331-T9000	140379	23343-C6800	132423
2130-6502	132459	23312-25F00	133605	23331-Z9000	140337	23343-C6804	132423
2130-6700	132059	23312-31U01	231804	23331-Z9001	140337	23343-C8601	134812
2130-67005	133750	23312-37502	131985	23331-Z9002	140378	23343-D0300	132093
2130-73014	137836	23312-37503	131985	23331-Z9003	140378	23343-E3011	133052
2130-73021	133730	23312-37504	131985	23333-M1510	233867	23343-E5011	131802
2130-73022	133730	23312-37505	131985	23333-T9000	233868	23343-EN200	330150
2130-7311	140595	23312-37506	131985	23337-0Y000	230636	23343-EN20A	330150
2130-73111	140567	23312-43G00	135718	23337-43G00	137836	23343-EN20B	330150
2130-7500	132453	23312-50Y01	139132	23337-N5910	139236	23343-G7001	132059
2130-75004	135091	23312-73C00	131988	23337-T5000	136762	23343-G7002	131431
2130-7502	132459	23312-73Y00	131986	23338-01N10	140555	23343-G8400	138823
2130-77008	139164	23312-76201	131985	23338-09900	140309	23343-H0100	130811
2130-95007	135091	23312-90J00	135711	23338-21000	140315	23343-H5000	131144
2130-97008	133750	23312-93J00	136261	23338-37502	140318	23343-H5001	131144
22343-C8704	132423	23312-C6800	132453	23338-61503	140313	23343-H9100	132093
2240-1801	190482	23312-D0100	131986	23338-85060	140308	23343-J5520	132423
2240-2310	133730	23312-E3000	130440	23338-97E00	140870	23343-M0100	130811
2250-1451	140495	23312-E3010	130741	23338-N3300	140311	23343-M4900	132093
2250-2323	140337	23312-H5000	131085	23338-P0610	140321	23343-M8000	132094
2250-2323/4322	140337	23312-H6900	131085	23338-V0702	140457	23343-M8001	132094
2250-3601	140489	23312-J2003	132453	23340-0M210	231683	23343-M8003	132094
2250-43015	133057	23312-L1110	132005	23340-N5910	231394	23343-M8011	133288
2250-45004	133058	23312-L1110	132005Z	23341-10G00	137301	23343-M8110	133052
2250-47007	139851	23312-L1800	131985	23341-37501	140317	23343-M8111	133052
2250-5323	140378	23312-M1500	131086	23341-V0600	140495	23343-M8210	133049
2250-7310	133057	23312-M1501	131086	23343-00H11	138618	23343-N3300	131800
2250-8323	140378	23312-M4901	132001	23343-02N00	133750	23343-N3301	131800
2250-85005	133058	23312-M8000	131988	23343-03J00	138366	23343-OM210	231454
2250-95003	131985	23312-N3300	131783	23343-03J01	138366	23343-P0610	231976
2250-97006	232263	23312-N5900	132001	23343-04E00	132093	23343-P5111	133052
2270-3100	133056	23312-T9003	133058	23343-04E01	132093	23343-Q9000	134457
2270-37001	134812	23312-U6000	131783	23343-04E10	133052	23343-R9000	133052
2280-1312/1313	141023	23312-V0601	131985	23343-05E10	132471	23343-T0110	133052
23300-72J00	192569	23312-V5301	132001	23343-06J04	232263	23343-T0111	133052
23302-06E10	135927	23312-W1700	135091	23343-07M00	132421	23343-T3470	132059
23302-31U00	139788	23312-W1700	135091ZZ	23343-08T10	231454	23343-T5002	133049
23302-42L70	136894	23312-Y0511	131087	23343-0M210	231454	23343-U6000	133054
23302-06E10	135927	23312-Y0700	131783	23343-10600	130811	23343-V0700	131144
23302-T5000	136135	23313-90005	133266	23343-10G00	133749	23343-V5201	132094
23302-W0412	136135	23313-99202	133266	23343-11M00	132421	23343-V5301	132093
23310-02N00	136248	23314-T9000	134966	23343-18005	130811	23343-W0400	133044
23310-0M210	139398	23316-84G10	230549	23343-20H12	133052	23343-W0401	133044
23310-0M300	137948	23318-00H10	136762	23343-20P00	132094	23343-W1700	133047
23310-0Y000	233886	23318-00H11	136762	23343-30R11	138011	23343-W2800	138363
23310-10G00	132798	23319-21000	140314	23343-30R12	138011	23343-Y0513	133052
23310-15710	230499	23319-25V10	140738	23343-30R13	138011	23343-Z9011	139851
23310-31U00	137948	23319-29000	140489	23343-30R14	138011	23343-AA000	133288
23310-42L10	134736	23319-37502	140316	23343-30R15	138011	23348-D0300	137306
23310-42L70	136334	23319-42L60	140869	23343-31W00	131431	23354-06W60	132459
23310-43G00	132798	23319-43600	140307	23343-36A00	132093	23354-11M00	132459
23310-45300	132454	23319-61503	140313	23343-36A01	132093	23354-16E01	135059
23310-4J606	235337	23319-97E00	140927	23343-36A10	133052	23354-20H12	132387
23310-50Y01	138701	23319-D0210	140428	23343-37502	130811	23354-20R10	132012
23310-54A00	132456	23319-M0110	140320	23343-37503	130811	23354-36A00	135059
23310-54N00	138701	23319-M8011	140555	23343-37506	131431	23354-42L70	132011
23310-54T00	132798	23319-N3300	140310	23343-37A10	133052	23354-D0210	135581
23310-60U10	231471	23319-Z9000	140489	23343-43G00	133750	23354-K9160	136145
23310-60U12	231471	23320-0M300	139664	23343-50Y13	138012	23354-N5912	132386
23310-65Y10	136334	23321-N3300	135478	23343-54A00	135370	23357-04E10	132085
23310-97E11	231471	23322-0M300	137938	23343-57J05	139164	23357-0C010	139410
23310-H5000	138959	23322-41B16	135468	23343-60U10	137930	23357-0M300	235485
23310-J5501	137092	23322-42470	135468	23343-61504	132059	23357-20H12	133007
23310-M4900	134121	23322-42L70	135468	23343-63J11	133049	23357-25F00	133606
23310-M4901	134121	23322-50Y12	135468	23343-63J12	133049	23357-43G00	135271

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>NISSAN</b> <i>Continued</i>							
23357-V0700	133042	23380-M8311	140349	M371X72171	133288	M900X02471	231001
23357-W1011	133007	23380-U0110	140556	M371X72175	133288	M901X00371	136359
23357-W1700	133042	23380-V0700	140597	M371X73671	133049	M981C73901	231394
23358-V0700	140457	23380-W2500	140379	M371X74771	133288	M981C74201	231345
23361-1P115	135341	23383-OM301	137934	M371X76275	138011	M981D73202	191873
23361-W3410	138565	23385-42L70	136895	M371X76371	138011	M981S70101	191584
23376-AA000	137976	23385-50Y12	139205	M371X76871	138012	M981X73274	231683
23378-0500	132090	23441-37501	140317	M371X76875	138012	M982X38871	231581
23378-05E00	132090	31220-51A10	135652	M371X80771	133052	S409S00008	135574
23378-10G00	133730	31320-51A10	135651	M371X93475	133049	S806P94203	135940
23378-1E400	137121	31320-60A10	136602	M372X00371	133050	S809P60170	133598
23378-41B00	139166	A414X01471	192065	M372X06871	132472	S933P70605	140738
23378-50Y12	139238	A414X06771	192065	M372X10271	132591	S933P70669	140738
23378-53A10	135467	A414X12871	191267	M372X10971	132591	ZM-68096	133269
23378-53J00	137653	A414X18271	191267	M375X00271	138012	ZM-68596	133803
23378-53J10	135467	L150-28001	192145	M375X00371	231454		
23378-53Y00	139166	L150-28011	191528	M391C02201	135201		
23378-54A00	133730	L160-5801	191528	M391X04371	139826	<b>NSK</b>	
23378-57J10	140591	M106T05771	134736	M409C12670	140428	DB501005C	141090
23378-H5000	132424	M106T07472	134736	M409C12870	140430		
23378-M4901	132090	M106T07771	134736	M409C32370	140429	<b>NTN</b>	
23378-M8011	135467	M106T08671	135832	M409C32401	140731	HK1414	331936
23378-M8100	133333	M106X01871	134071	M409D32201	140321		
23378-N3301	133332	M106X02271	132486	M414X00171	230999	<b>OMC</b>	
23378-N5910	133886	M106X08571	132484	M414X00487	231120	172869	133855
23378-N5911	133886	M106X29171	136196	M414X04872	231388	182869	133857
23378-OM300	137121	M106X29371	133034	M578C24601	136895	378444	139858
23378-V7200	133730	M106X41671	132486	M578X26871	139205	383622	139859
23378-W2810	140348	M106X52171	135832	M578X29171	231459	395419	139859
23379-09900	140340	M106X52571	134736	M605X25771	133007	508905	139858
23379-OM300	140953	M106X52771	134736	M605X28271	133450	581528	139858
23379-1000	140334	M106X52871	134736	M605X35071	231779	582708	139859
23379-10G00	140567	M106X53271	134071	M605X36171	139344	586180	139859
23379-16E01	140334	M106X53571	132484	M605X95071	232391	813839	133856
23379-19900	140341	M106X57171	132484	M640B26571	231988	979774	139860
23379-1E400	140852	M106X57271	134071	M644B10201	139236	981419	133856
23379-1P100	140852	M106X57671	139398	M644B20701	232490	982187	133856
23379-2100	140334	M106X58171	231471	M644B21201	137219	982189	133856
23379-21000	140334	M106X58571	135832	M647C00271	140559	985063	133856
23379-23380	140341	M106X58671	230499	M647C00571	140559	985064	133856
23379-37500	140339	M135X00771	133403	M647X02071	140967		
23379-37502	140339	M135X01171	133403	M647X03471	140966	<b>ONAN</b>	
23379-37503	140339	M135X01471	139323	M647X03971	140921	191-1430	132472
23379-53J00	140986	M135X01581	231575	M648C12170	140556	191-1443	137739
23379-54A00	140379	M191T12071	132011	M648C14970	140349		
23379-61501	140595	M191T12171	132012	M648C15070	140349	<b>OPEL</b>	
23379-65000	140376	M191T12971	137218	M648C28671	140387	1203165	130465
23379-99008	140346	M191T22071	132005	M648X28771	140591		
23379-G7000	140339	M191T22571	135572	M649T01271	133341	<b>PARIS RHONE → VALEO</b>	
23379-J2000	140595	M191T23071	132005	M649T01371	135467		
23379-J5500	140378	M191T23371	135581	M649T01671	133342	<b>PERKINS</b>	
23379-M0100	140336	M191T26171	133268	M649T02271	135467	2848203	130872
23379-M4900	140338	M191T33371	131087	M649T02471	133886	2848209	130951
23379-V0700	140597	M191X16771	136923	M649T03571	133340	2848611	130853
23379-W2500	140379	M212X11771	137545	M649T04471	133886	28730188	133531
23380-OM300	140953	M230D00171	135341	M649T05071	132475	28730189	133531
23380-10600	140340	M231C00401	230337	M649T09471	133341		
23380-10G00	140567	M231C00901	138565	M649X10171	139238	<b>PEUGEOT</b>	
23380-10T00	140379	M321X04471	137929	M649X20471	138963	583577	133439
23380-16E01	140334	M321X04771	137929	M800T35171	135784	594531	139593
23380-19900	140341	M321X07071	137929	M800T38871	136135		
23380-21000	140334	M357T70771	132386	M800T39871	136894		
23380-37502	140339	M357T71671	134966	M800T51871	136135	<b>POONG SUNG</b>	
23380-37503	140339	M357T72671	133449	M800T53071	136894	36160-4X902	335621
23380-41B00	140986	M357T72672	133449	M800X43574	136938		
23380-42L60	140786	M357X64471	231776	M800X49671	135784	<b>PRESTOLITE</b>	
23380-53J00	140781	M357X77971	139410	M800X61672	230498	24-3	140264
23380-53J01	140933	M357X85073	230332	M863C04871	136416	24-3	B140264
23380-57J13	140591	M371X20671	136344	M863C05571	135573	15-275	133857
23380-57M60	140786	M371X53071	133052	M863C06271	136416	15-283	133855
23380-61503	140595	M371X53072	133052	M864X07071	135571	15-288	139858
23380-77A01	140786	M371X55071	131802	M864X08871	134047	15-298	133855
23380-E3010	140556	M371X62871	133288	M864X08872	134047	15-323	138068
23380-G7000	140339	M371X64771	138012	M864X09371	139533	15-326	137766
23380-J2000	140595	M371X64971	133049	M864X09571	133463	15-335	133855
23380-J5500	140378	M371X70171	133288	M864X09771	135468	15-351	133857
23380-M0100	140336	M371X71171	133049	M864X09772	135468	15-365	133855
23380-M4900	140338	M371X71371	133288	M864X09774	135468	15-368	133857
23380-M8310	140349	M371X71671	133049	M864X11571	139538	15-386	138068



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
15-393	133855	SBD-4201A	138068	1114344	130499	1115547	131364
15-394	133856	SBD-4201G	138068	1114346	130499	1115548	131364
15-3F	133856	SBD-4401	137766	1114347	130499	1115556	131363
15-400	133857			1114348	130499	1115557	131364
15-407	130493	<b>REMY (DELCO)</b>		1114349	130499	1115559	131364
15-411	133856	35058	140181	1114350	130499	1115565	131363
15-420	133856	35070	140064	1114351	130499	1115575	131363
15-444	133856	35070	B140064	1114353	130499	1115576	131364
15-452	231811	38273	140070	1114354	130499	1115583	132696
15-453	231811	83091	130499	1114356	130499	1115591	131356
15-471	133855	103893	133023	1114359	130499	1115593	131369
15-472	133855	800026	131769	1114362	130499	1115594	131361
15-486	133856	800066	130539	1114364	130499	1115595	131349
15-487	133857	800066	130539Z	1114365	130500	1115597	139337
15-5C	139858	800067	132731	1114367	130499	1115598	231912
15-66	139858	800068	131056	1114378	130499	1115600	139337
17-171	140713	800069	131770	1114379	130499	1115601	131349
19-195	235624	800074	231970	1114380	130499	1115604	131361
24-23	140053	800077	130542	1114381	130499	1115605	131361
24-23	B140053	800091	132113	1114388	130499	1115607	131364
24-29	140264	800965	138128	1114391	130499	1115608	131349
24-29	B140264	810620	140181	1114395	130499	1115609	139209
36-67	230987	821453	138660	1114396	130499	1115610	231914
42-32	141213	830540	131401	1114398	130499	1115612	231915
42-50	141213	830620	130539	1114399	130499	1115613	139209
5001-43	190584	830620	130539Z	1114400	130499	1115619	230198
50-263	132741	830621	132731	1114458	130499	1115621	230198
5335-963E	192591	830622	131767	1114460	130499	1115622	231919
59-146	235624	830842	131401	1114466	130499	1115623	231913
59-186	131766	830845	230110	1114468	130499	1115624	231917
59-195	235624	851073	131056	1114474	130499	1115625	231920
59-203	131768	852961	131056	1114487	130499	1115627	231919
59-205	131768	1114206	139858	1114488	130499	1115634	231926
59-248	235624	1114208	235442	1114493	130499	1115640	230198
6527-37	130418	1114218	235442	1114494	130499	1115641	231922
EB-95	235624	1114223	138068	1114495	130499	1115645	131369
EBB-132	235624	1114250	130499	1114496	130499	1115656	231917
EBB-174	235624	1114251	130499	1114499	130499	1115657	233869
EVF-2012S	141213	1114252	130499	1114500	130499	1115659	333840
MDL-1064	230987	1114253	130499	1114502	130499	1115663	233869
MG-77A	140053	1114255	130499	1114504	130499	1115667	233873
MG-77A	B140053	1114256	130499	1114508	130499	1115668	233873
MGL-2032S	140713	1114257	130499	1114510	130499	1115673	233873
MZ-19S	132741	1114263	130499	1114514	131590	1115683	233869
MZ-40AS	140264	1114264	130499	1114515	131590	1115701	234476
MZ-40AS	B140264	1114266	130499	1114517	131590	1115712	234476
PD-7A	131766	1114268	130499	1114518	131590	1119778	130500
PD-8A	131768	1114270	130499	1114524	131590	1119781	130499
PD-9A	131768	1114271	130499	1114526	131590	1119798	130499
PP-8A	131768	1114272	130499	1114529	131590	1119832	131364
SAJ4003A	231811	1114273	130499	1114530	131590	1119833	130500
SAJ4003B	231811	1114277	130499	1114531	131590	1119853	131363
SAS-4211Y	130493	1114278	130499	1114534	138068	1119855	132696
SAZ-4201AC	133855	1114279	130499	1114537	139858	1119858	132696
SAZ-4201AHY	133857	1114281	130499	1114556	130499	1119877	130500
SAZ-4201AJ	133855	1114283	130499	1114557	131590	1119879	131363
SAZ-4201ANY	133855	1114287	130499	1114562	131590	1119882	130500
SAZ-4201AP	133857	1114289	130499	1114564	131590	1119885	130500
SAZ-4201BA	133855	1114290	130499	1114565	130499	1119888	132696
SAZ-4201BBY	133856	1114291	130499	1114566	131590	1119890	130500
SAZ-4201BC	133857	1114294	130499	1114569	131590	1119910	130499
SAZ-4201BH	133855	1114295	130499	1114571	131590	1119919	130499
SAZ-4201BU	133856	1114297	130499	1114576	232219	1119923	130499
SAZ-4201BW	133856	1114299	130499	1114578	235006	1119933	130500
SAZ-4201CA	133855	1114304	130499	1114582	235006	1119935	130500
SAZ-4201CJ	133856	1114306	130499	1114583	137370	1119936	130499
SAZ-4201CPY	133856	1114322	132696	1114584	232219	1119946	130499
SAZ-4201DDY	133856	1114324	130499	1114587	138217	1119981	130499
SAZ-4201E	133855	1114325	130499	1115501	130500	1119986	130499
SAZ-4201ELY	133855	1114328	130499	1115508	130500	1119988	132696
SAZ-4201ENY	133855	1114330	130499	1115510	130500	1119998	130499
SAZ-4201EW	133856	1114333	130499	1115512	132696	1119999	130499
SAZ-4201EY	133857	1114334	130499	1115513	132696	1828393	130537
SAZ4201J	139858	1114335	130499	1115526	131364	1828396	132694
SAZ-4201N	133856	1114336	130499	1115529	130500	1836505	140185
SAZ-4201R	133855	1114337	130499	1115531	130500	1838065	133864
SAZ-4201U	133857	1114339	130499	1115540	130500	1839345	140185
SAZ-4201X	133855	1114340	130499	1115543	132696	1839348	140185
SBD-4201	138068	1114341	130499	1115544	131364	1846089	131767

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>REMY (DELCO) Continued</b>							
1846097.....	139798	1918621.....	230378	1946229.....	130537	1966224.....	131401
1846614.....	131627	1921805.....	233048	1946391.....	130552	1966228.....	131401
1846926.....	130495	1921998.....	131766	1946414.....	132113	1966288.....	131401
1851430.....	130540	1921999.....	131769	1946765.....	230540	1966931.....	130538
1851550.....	135786	1923484.....	140477	1946945.....	131056	1967042.....	131137
1851632.....	230540	1923904.....	140183	1946957.....	131056	1967045.....	130552
1852410.....	131769	1923907.....	141123	1947542.....	138128	1967277.....	232050
1852716.....	130538	1926605.....	138144	1947680.....	131769	1967330.....	131058
1852898.....	140755	1926618.....	132113	1947912.....	133545	1967335.....	132952
1852970.....	131769	1927200.....	132694	1947920.....	131770	1967354.....	130523
1862363.....	140217	1928998.....	131766	1948506.....	130923	1967779.....	130539
1867150.....	132682	1929402.....	131769	1948508.....	130923	1967779.....	130539Z
1868355.....	130538	1929404.....	135786	1948515.....	130520	1968122.....	232050
1869755.....	140478	1930694.....	138680	1948522.....	130522	1968131.....	133545
1872678.....	140215	1930802.....	131769	1948529.....	230513	1968355.....	130538
1875687.....	130537	1930812.....	131658	1948606.....	131056	1968396.....	139332
1875802.....	130540	1931585.....	132694	1948691.....	131137	1970310.....	232050
1875852.....	130540	1932031.....	131768	1948877.....	138128	1970376.....	133545
1876361.....	138680	1932188.....	136318	1948999.....	130552	1970469.....	139332
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1876849.....	131058	1932205.....	131408	1949243.....	137485	1970548.....	131400
1876857.....	130538	1932308.....	130540	1949619.....	133024	1970711.....	131056
1876881.....	232050	1932526.....	131766	1950058.....	130538	1971167.....	131770
1877306.....	132691	1932545.....	131766	1950307.....	131659	1971277.....	231970
1877345.....	133545	1932604.....	132732	1950417.....	131658	1971563.....	131401
1877350.....	138128	1932605.....	131766	1950546.....	132113	1971568.....	131401
1877353.....	130540	1932872.....	131137	1950946.....	132113	1971706.....	133545
1877354.....	130540	1932890.....	130540	1951180.....	130540	1971707.....	130538
1877355.....	130538	1933471.....	130538	1951254.....	130553	1971839.....	130495
1877361.....	131400	1933838.....	138128	1951567.....	131408	1971979.....	132694
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1887989.....	131365	1934488.....	130540	1952410.....	131769	1974355.....	136318
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1891916.....	131658	1935487.....	130539Z	1953151.....	231970	1974655.....	233173
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1892160.....	138680	1935992.....	131769	1953242.....	131058	1975046.....	130538
1892899.....	131769	1936647.....	131056	1954273.....	131401	1975073.....	135786
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1893443.....	131429	1937718.....	135642	1954473.....	131401	1976129.....	132691
1893445.....	131429	1938065.....	133864	1954842.....	130537	1976884.....	130539
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1893477.....	131058	1938587.....	132113	1954861.....	132952	1977004.....	132731
1893560.....	131056	1938743.....	140181	1955046.....	132113	1977005.....	131056
1893561.....	231970	1939345.....	140185	1955777.....	130539	1977006.....	131770
1893562.....	131770	1940134.....	130540	1955777.....	130539Z	1977011.....	231970
1894023.....	140776	1940138.....	130540	1955937.....	131401	1977013.....	130542
1894211.....	130539	1940548.....	131400	1955946.....	139798	1977264.....	132952
1894211.....	130539Z	1940624.....	131400	1955947.....	139798	1977306.....	132691
1894212.....	132731	1941113.....	132735	1955951.....	135338	1977355.....	130538
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1894214.....	131770	1941157.....	130538	1955994.....	140074	1978297.....	132736
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1894219.....	231970	1942244.....	131137	1956384.....	135338	1978517.....	131400
1894221.....	130542	1942258.....	140074	1956918.....	131658	1978756.....	230419
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1894636.....	140070	1943600.....	233173	1957789.....	131058	1979413.....	131368
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1894638.....	140478	1944841.....	230540	1960370.....	130539	1979458.....	131368
1894642.....	233057	1945109.....	130495	1960370.....	130539Z	1979494.....	131346
1894643.....	233048	1945356.....	135938	1960864.....	138144	1979498.....	131368
1901272.....	131058	1945400.....	131058	1960866.....	131627	1979634.....	131367
1902610.....	131058	1945472.....	230513	1961463.....	131058	1979792.....	131400
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1906046.....	230540	1945487.....	130539Z	1962603.....	133027	1981974.....	131482
1906302.....	230540	1945496.....	130495	1962606.....	140404	1984097.....	139283
1906493.....	131058	1945500.....	130923	1964127.....	130538	1984511.....	132695
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1913027.....	230540	1945517.....	130520	1965048.....	132691	1984974.....	131482
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1913433.....	132682	1945842.....	130537	1965514.....	131056	1985129.....	131768
1914341.....	131766	1945849.....	130523	1965529.....	232050	1985234.....	140214
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1916272.....	136340	1945879.....	132731	1965723.....	130537	1985246.....	230417
1916775.....	133864	1946089.....	131767	1965724.....	131400	1985249.....	131354
1918047.....	132682	1946220.....	131769	1965730.....	132691	1985262.....	131481
1918079.....	131768	1946221.....	132694	1965923.....	130537	1985262.....	335646



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
1985295	233396	10457036	230780	10475646	138217	19024325	130305
1985564	131429	10457037	230778	10475654	138217	19024758	131370
1986244	133507	10457055	133852	10475908	232918	19024759	131371
1986457	135338	10457056	133854	10475974	230073	19024760	333152
1986819	135338	10457057	133975	10475990	230388	19024760	1313722
1987152	133507	10457058	133976	10476006	230391	19024761	333153
1987175	131354	10457061	231927	10476117	231929	19024761	1313732
1987211	131481	10457076	141127	10476198	233007	19024762	131253
1987254	138680	10457115	231251	10476596	231246	19024763	131254
1987391	132736	10457116	135521	10476599	140942	19024764	131080
1987989	131365	10457117	135089	10476604	138214	19024765	130492
1988096	140206	10457118	232403	10476793	231244	19070130	131311
1988097	131353	10457119	140732	10477566	135063	85540341	138537
1988121	131352	10457120	140732	10477892	235444	85540351	138538
1988122	131352	10457121	137760	10478008	232226	85541465	139032
1988128	230541	10457121	335652	10478614	231927	89017523	333938
1988129	230541	10457122	231965	10479522	133545	120483614	235444
1988134	233007	10457123	231928	10482844	231929	1004012420	132143
1988139	133022	10457151	231927	10483614	235444	1.01.0612.0	135063
1988140	133022	10457152	231251	10484034	141045	1.01.0752.0	136342
1988322	131359	10457167	133854	10484662	234163	1.01.0786.0	132119
1988328	131360	10457168	133976	10487126	230388	1114292A	130499
1988339	230539	10457170	231745	10488150	191304	1918886C	131769
1988340	230539	10457359	233758	10492409	231966	949062-1010	132900
1988377	232590	10457362	233387	10492437	231471	A2000	133864
1988414	132113	10457366	230186	10493840	232984	B140262	B140262
1988435	131350	10457367	230186	10495812	135323	C2001	130536
1988439	131352	10457368	231800	10495828	232988	D1666	140070
1988442	131351	10457565	235444	10495897	232988	D1671	140215
1988775	133022	10457579	133975	10496042	131401	D1674	140071
1988951	135338	10457601	231927	10496043	131400	D1676	140181
1989233	191554	10457622	135089	10496643	132691	D1680	140185
1989499	135324	10467164	230682	10497105	232590	D1682	141123
1989500	135323	10467421	132944	10497257	136342	D1684	140074
1992258	131401	10468675	135063	10497269	230682	D1688	140183
1998139	133022	10468705	135720	10497275	132944	D1689	140217
3471490	130465	10468706	135720	10497522	133545	D2002	132694
3471505	140812	10468709	232530	10498156	191304	D2005	131769
3471553	140036	10468891	235500	10498158	232929	D2006	132694
3471553	B140036	10468892	235500	10498407	132695	D2008	130537
3471625	140813	10468899	232929	10498438	130540	D2009	131769
3471693	131119	10468962	132944	10498527	132943	D2014	130537
3471697	131272	10469039	235006	10498623	130538	D2017	130540
3471725	131273	10469173	132943	10498663	230539	D2020	130537
3471741	131119	10469230	232872	10498863	131400	D2021	131768
3471764	140814	10469238	135720	10499524	140943	D2024	130538
3471783	134675	10470140	135720	10499632	139332	D2025	130538
3471834	140815	10470208	235500	10499852	138128	D2026	130540
3471912	130465	10470757	130537	10499854	131769	D2027	131429
3471929	131273	10470764	132736	10500475	333939	D2028	136318
3471977	131272	10470770	132691	10501804	333938	D2029	132694
3471979	131273	10470773	131400	10511213	231917	D2032	132695
3471982	131119	10470777	132736	10511368	235699	D2035	131429
3491027	131272	10470783	132735	10511369	237835	D2036	131769
3874045	130536	10471539	132695	10511406	235678	D2037	133545
8000300	333745	10471917	191304	10511408	235609	D2040	132695
9415235	230362	10472352	232968	10511409	235758	D2042	130538
9417501	133023	10472559	232891	10511414	235699	D2043	130540
9439738	191545	10472563	232877	10511415	237835	D2048	132943
9440923	140242	10472565	230911	10511731	235687	D2049	130537
9441510	140751	10472565	2309112	10511750	333058	D2050	135063
10450720	232360	10472567	140053	10511799	237845	D2051	130537
10451976	230388	10472567	B140053	10511838	235678	D2052	132695
10452348	333938	10472809	136342	10511866	335135	D2053	133854
10453919	234768	10473700	135063	10512093	333782	D2054	133975
10456422	130537	10475057	191584	10512094	333002	D2055	133976
10456454	137811	10475100	230388	10512096	333841	D2057	135063
10456455	133854	10475107	333422	10512476	333840	D2107	130540
10456456	134842	10475578	232989	10514696	237835	D3339	232530
10456457	140600	10475580	140939	10515696	237845	D4109	131174
10456458	140600	10475582	140940	10515810	334325	D4111	131400
10456459	140601	10475588	230604	10515811	334325	D4119	131401
10456460	134843	10475602	230396	10515812	333847	D4121	131400
10456464	134839	10475616	138216	10515814	335383	D4122	131401
10456466	133850	10475616	1382162	10515838	333781	D4123	131137
10456473	232402	10475626	232990	10515872	333847	D4124	131400
10456474	133965	10475631	140941	10518782	333845	D4125	131401
10457026	231742	10475632	138213	10521484	333938	D4143	131400
10457029	231745	10475639	138215	11505767	191573	D4159	131400

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>REMY (DELCO) Continued</b>		<b>ROMANIA (E/P)</b>		<b>SNAPPER</b>		<b>TECUMSEH</b>	
D4161	133850	2110501	140465	HK2220	140733	31220-84030	133288
D4223	132691	2130510	140464	HK22202RS	140901	31311-51A10	136862
D4227	132691	2140071	140043	HK3016	141040	31311-60C40	136884
D4257	232872	2140108	130434	NK1012	140903	<b>TORO</b>	
D4264	132691	2142076	140040	<b>SUBARU</b>		11-1674	231526
D4908	131408	2155004	132070	2114-15100	131988	28-4210	231525
D903A	139337	<b>ROPER/AYP</b>		2114-3835	190537	47-1910	231525
D904A	139209	109946	231525	2114-5352	140311	<b>TORRINGTON</b>	
D905A	231915	145673	231525	2114-68005	191873	FJ08	140620
D913A	131590	146154	231525	2114-73125	140986	HK0608E	140620
D914	130499	178661	234072	2114-73126	140986	<b>TOYOTA</b>	
D915A	230198	109081X	234070	2114-8110	135478	27274-87501	136087
D916A	231919	109446X	231525	2114-83123	140986	28011-10030	133631
D917A	231913	109946X	234070	2114-93104	139166	28011-13060	234402
D918A	231917	138406X	234072	23312-AA000	132010	28011-16040	136899
D919A	231920	677A880	234072	23312-AA010	132009	28011-20540	132004
D921A	231919	<b>SANDEN</b>		23312-AA050	136923	28011-20571	132004
D922A	132944	251726	190780	23378-KA010	137653	28011-22010	131110
D922A	235006	252035	190780	28530-0330	140358	28011-22020	131110
D930	130499	<b>SAWAFUJI</b>		28531-0300	140357	28011-22022	131110
D930A	133852	1320-121-00X0	235787	28531-0680	140363	28011-26042	132004
D931	130499	1331-039-00X0	136529	31220-82230	135590	28011-40014	130441
D931A	230198	1350-097-00X9	136170	31320-63210	131110	28011-40021	130442
D932	130499	1350-101-00X9	136171	37343-37506	131431	28011-41011	130441
D934	130499	1350-109-31X9	138967	37343-G7002	131431	28011-41012	130441
D936A	132944	1350-109-32X9	138967	49200-7212	132796	28011-41020	130442
D937A	231927	1350-111-10X9	138967	49206-5501	140336	28011-45020	130442
D939A	231922	1350-111-11X9	138967	49206-5804	140349	28011-54010	132942
D942	130499	2602-000-00X0	140520	49207-1001	140336	28011-54070	137293
D943	130499	2620-011-00X0	140520	49207-5501	140336	28011-54380	139653
D946A	232219	2660-071-00X7	140829	49207-5804	140349	28011-55050	139653
D948	130499	2660-074-00X7	140828	49210-5401	139834	28011-60010	130442
D952	130499	<b>SCANIA</b>		49210-5602	131807	28011-60040	130442
D954	130500	386768	130939	49210-6401	133044	28011-60041	130442
D956	130499	1405978	233584	49210-7002	131807	28011-64010	136796
D958	130499	1405979	138311	49243-7002	140363	28011-64020	136795
D959	130500	<b>SIMPLICITY</b>		89206-8602	140357	28011-64030	136796
D960	130499	1671993	234072	89206-8702	140357	28011-64150	136795
D965	130499	1671994	234070	89210-4122	131807	28011-66020	139244
D966	130499	1685290	234072	94208-2940	140336	28011-70020	136086
D967	130499	1685291	234072	94208-300	140336	28011-70020	335401
D969	130499	1686981	234070	L150-28001	192145	28011-74070	136447
D970	130500	1686982	234070	<b>SUZUKI</b>		28011-76070	137753
D971	130500	<b>SJCE</b>		12234-63081	133711	28011-76070	137753Z
D974	130499	IM0006	140574	12234-63381	133715	28011-87102	131110
D975	130499	<b>SKF</b>		12264-63081	133711	28011-87706	132547
D978	130499	HK0408	141168	13815-63081	133711	28017-19500	131830
D980	130500	HK0509	140617	13968-63081	133711	28017-19502	131831
D981	130499	HK0608	140620	15425-63071	134369	28017-19511	131833
D982	130499	HK0609	140619	19212-63121	135342	28017-19512	131832
D984	131590	HK0808	140751	31110-60C40	136885	28106-22060	132570
D987	131590	HK0810	140468	31110-79030	135927	28106-22071	132570
D991	131590	HK0908	141247	31131-75011	140356	28111-46011	140330
D992	130499	HK0910	140935	31132-44110	133715	28111-51010	140326
D994	131590	HK1010	140482	31151-83010	230567	28113-13060	139051
DR2000	130465	HK1012RS	141001	31152-56010	140325	28113-16070	139492
DR2003	130465	HK1210	140242	31152-63210	140326	28115-56180	136182
DR700	140812	HK1212	140494	31191-51A10	139051	28120-15090	135790
DR902	131119	HK12142RS	141054	31191-86030	135468	28120-47040	135751
DR903	131272	HK1214RS	141054	31220-52A20	135652	28120-66040	136897
DR904	131273	HK12162RS	140904	31220-63210	130814	28120-70020	136885
DR939A	231922	HK1412	140503	31220-70030	231976	28120-74070	136897
F903	130493	HK1512	140495	31220-73010	130814	28120-87211	136885
HK0810	140468	HK1812	140375	31220-74010	130814	28130-54380	231600
MC189A	140242	HK1816	140197	31220-78210	131807	28130-76070	231483
TLA810Z	140468	HK18162RS	140902	31220-82130	133288		
ZM-186096	232226	HK2012	140457	31220-83020	133288		
ZM-646187	232033	HK2212	140381				
		HK22162RS	140972				
<b>RENAULT</b>							
5000289416	130301						
5000289416	130301Z						
5001846418	234808						
6001548079	192569						



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
28131-20010	140328	28160-74070	136896	5716740KT30SM	140714	075452	PSX64-702
28140-15010	140363	28160-76060	137953	6024140GE30SM	230399	075593	131188
28140-15090	132872	28160-77090	132553	6073540KT30SM	140714	075679	130757
28140-26070	133661	28160-87207	136884	7010440DV30SM	135402	075707	PSX1324
28140-34030	140362	28160-87503	136862	7017540DV30SM	135400	075943	PSX115-1162
28140-54070	140364	28160-87705	134369	CP18197A3	231004	075953	131618
28140-54380	139150	28165-26040	135342	DV02557	135403	076651	130432
28140-64040	137021	28165-77090	138608	DV08154	135402	076870	133169
28140-76060	137955	28211-51011	140326	DV18019	135400	076980	130759
28140-76070	138419	28222-77090	138148	DV18200	135408	077265	131208
28140-76090	137955	28226-0D090	234992	DV20346	135404	077776	130463
28140-77090	140361	28226-28051	237531	DV47338	135409	078166	PSX106-1072
28140-87704	136314	28226-54220	139047	DV47871	135402	078265	130461
28142-10011	140357	28226-54380	139494	DV551067	135409	078861	130463
28142-21010	140356	28226-64200	233689	DV551067A	135409	078862	130432
28142-25010	140356	28229-56080	135474	DV551067AS	135409	078863	131188
28142-25011	140360	28235-54070	132563	DV70104	135402	078900	PSX1124
28142-25020	140359	28235-70020	137979	DV70175	135400	079011	130463
28142-34030	140362	28253-1040A	235140	KT10900	140714	079243	139380
28142-46013	140358	28253-1050A	235211	KT20249	140714	079333	132962
28142-46020	140358	28254-64040	233546	KT21368	140749	079646	132170
28142-47021	140358	28254-77090	138569	KT47601	140749	079692	130434
28142-70020	140740	28274-87501	136087	SO51189	138068	092079	130432
28149-10020	133808	28274-87502	138026			092081	131188
28150-10020	133809	28317-22060-71	134484			092179	130461
28150-11710	135652	29313-46010	190815	<b>UNIVERSAL</b>		092181	130463
28150-12030	131084	90069-32007	192569	ZM-101	234860	092448	130463
28150-12031	131084	90069-32014	192569			092528	135018
28150-15010	131807	90099-00138	230721	<b>VALEO</b>		092533	135018
28150-15011	131807	90099-00158	230721	013610	131111	092655	PSX115-1162
28150-15012	131807	90099-01146	141237	030828	140066	092718	132962
28150-15013	131807	90099-01539	233690	030828	B140066	092744	PSX1254
28150-16160	136886	90099-07047	138026	035070	140064	092878	PSX1292/1P
28150-17040	230574	90099-07124	136087	035070	B140064	092883	PSX1304
28150-22011	130814	90099-10028	140328	047403	140068	092914	PSX1332
28150-23010	131084	90099-10031	140325	047852	140065	092925	PSX1324
28150-23011	131084	90099-10058	140325	047852	B140065	093297	130432
28150-24010	231997	90099-10134	140333	048499	140679	093321	130463
28150-24011	130814	90099-10149	140424	048499	B140679	093509	130461
28150-24030	231997	90099-10150	140425	050488	140067	093623	130759
28150-24060	130814	90099-10157	140426	050488	B140067	093625	131188
28150-24061	130814	90099-10158	140427	051914	140043	093670	130461
28150-24070	130814	90099-10180	140787	051914	B140043	094635	132962
28150-24071	130814	90099-10181	141011	053459	133169	094795	131071
28150-25010	130814	90099-10182	140792	053770	130757	095381	130463
28150-25013	130814	90099-10183	140788	054174	235086	095442	131068
28150-25032	130814	90099-87501	136087	054335	235087	095654	140676
28150-31040	134933	949006-5460	191586	055105	130456	095654	B140676
28150-31050	134933	949007-2850	191586	055330	140680	095759	131071
28150-31051	131084	949047-2130	191546	055330	B140680	095956	130761
28150-33020	130814	949056-1001	191308	055578	136431	095958	130761
28150-33021	130814			056328	136426	095976	134615
28150-34070	130814	<b>TROY BILT</b>		059058	130461	095990	130762
28150-36050	131084	1751569	234070	059390	131343	096118	130432
28150-37010	131807	<b>UNITED TECHNOLOGIES</b>		059427	139478	096119	131188
28150-41011	130814	391705	141053	060991	130425	096473	131810
28150-41020	131084	1090040	140714	070672	130456	096485	140684
28150-46090	230582	1801940	135400	072101	140066	096485	B140684
28150-46120	230582	7017540	135400	072101	B140066	096666	132268
28150-54181	230827	0255740DV30SM	135403	072591	PSX64-702	096859	130461
28150-54290	230827	0815440DV30SM	135402	072595	PSX54-692	097062	130759
28150-54380	234960	1090040KT30SM	140714	072619	PSX77-784	097298	130461
28150-56011	137033	1801940DV30SM	135400	072630	PSX83-844	097394	136642
28150-60040	130814	1819740CP30SM	231004	072631	PSX81-824	098048	132268
28150-60060	131084	1820040DV30SM	135408	072632	PSX77-784	098888	140038
28150-66011	134413	2024940KT30SM	140714	073302	131071	098888	B140038
28150-70030	234992	2034640DV30SM	135404	073315	137289	098896	130948
28150-77060	134413	2136140C930SM	231004	073684	130461	098932	133697
28150-77061	134413	2136840KT30SM	140749	074322	140680	098945	136620
28150-87203	130814	4733840DV30SM	135409	074322	B140680	099394	136642
28150-87208	135652	4760140KT30SM	140749	074515	133712	099738	131170
28150-87704	131807	4787140DV30SM	135402	074658	136426	099845	133695
28151-22060	132879	4793640KT30SM	140714	074764	131071	099931	131111
28160-11711	136862	5265440KT30SM	140714	074952	140119	99931	131111
28160-26070	132796	5668640C930SM	231004	074952	B140119	099932	133128
28160-54070	134369	566864CP30SM	231004	075093	PSX81-824	100234	231849
28160-54071	134369	5695340KT30SM	135409	075162	130461	100462	132025
28160-54380	139148	5695KT30SM	135409	075165	130461	101091	132968
28160-70021	136884			075269	PSX115-1162	101581	131813
				075379	132899		

## STARTER COMPONENTS

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O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>VALEO</b> <i>Continued</i>							
101598	132962	182458	232011	192651	237776	300841	PSX136-1374
101910	137271	182459	133163	192750	332207	300842	134902
102190	133166	182460	133533	192978	236797	330104	330104
102197	132268	182461	131171	192978	333870	330427	330427
102217	131171	182462	133534	193288	239731	330549	330549
102295	232011	182463	133166	193462	331650	330568	330568
102380	131813	182464	133128	193512	330452	330800	330800
102849	131584	182520	133128	194039	333934	330887	330887
103063	140959	182563	132977	194372	332614	331011	331011
103063	B140959	182591	135387	194440	330533	331628	331628
103066	232632	182594	138857	194480	330533	331638	239398
103066	333858	182717	136255	195041	333934	331640	331640
103489	131584	182848	139477	195253	333317	331675	331675
103794	131584	182848	335404	195334	333934	331677	331677
104594	133532	183957	133647	195356	332614	331697	331697
104604	133163	184194	135282	198159	333929	332118	332118
105254	133534	184448	132974	200421	335627	332467	332467
105325	132200	184488	132975	201263	335711	332529	332529
105332	132200	184530	133897	209098	335715	332530	332530
105464	140258	184795	139318	230020	230020	332536	332536
105464	B140258	185182	131999	230088	230088	332562	332562
105489	131584	185290	135084	230566	230566	332681	332681
105538	131999	185290	335403	231148	231148	332682	332682
105540	132020	185441	135083	231268	231268	332877	332877
105715	140259	185915	135389	231269	231269	332971	332971
105715	B140259	185915	335230	231354	231354	333036	333036
106009	130948	186020	135083	231495	231495	333037	333037
106140	132181	186381	133647	231573	231573	333472	333472
106142	133533	186448	140919	231765	231765	333479	333479
106143	133533	186456	133897	231766	231766	333667	333667
108458	133166	186867	135647	232010	232010	333722	333722
180237	PSX1124	186938	135647	232855	232855	333759	333759
180826	132021	187077	138113	233076	233076	333964	333964
180827	133897	187084	234088	233164	233164	334026	334026
181068	132022	187144	PS1558	233460	233460	334128	334128
181069	132025	187144	PSX1554	233766	233766	334279	334279
181142	132968	187336	139473	233771	233771	334304	334304
181277	132021	187336	335234	233818	233818	335617	335617
181404	132024	187428	139320	233862	132037	335712	335712
181804	131111	187449	231413	234888	234888	335713	335713
181961	133646	187528	139478	234891	234891	335714	335714
182036	138112	187778	PSX142-1444	234987	234987	335716	335716
182037	PSX152-1538	187779	PSX142-1444	235020	134402	335717	335717
182041	135645	187788	139477	235077	235077	335718	335718
182047	131999	187788	335404	235150	235150	335826	335826
182050	231117	187863	139473	235151	235151	337334	337334
182058	136620	187863	335234	235158	235158	337337	337337
182060	136227	187888	PSX1564	235187	235187	337435	337435
182061	140531	187983	230354	235384	235384	337437	337437
182063	140533	187996	139473	235390	235390	442911	131431
182064	PSX115-1162	187996	335234	235826	235826	492828	139473
182065	PSX1292/1P	188225	335627	236094	236094	492828	335234
182066	PSX1332	188251	139473	236215	236215	504047	133128
182067	PSX1332	188251	335234	236240	236240	549185	135389
182068	PSX1304	188256	135084	236360	236360	549185	335230
182069	PSX54-692	188256	335403	236364	236364	570904	131771
182070	PSX119-1202	188440	239359	236477	236477	583036	131013
182072	PSX106-1072	188571	PS145	236607	236607	583159	131208
182073	PSX122-123-124	188595	234086	236615	236615	583249	133228
182112	PSX77-784	188993	231932	236627	236627	583289	132181
182114	PSX81-824	188993	333863	236711	236711	583331	133120
182115	PSX81-824	190097	234119	236796	236796	583333	133122
182118	PSX1324	190986	PSX160-1644	236797	236797	583336	132181
182132	PSX83-844	190987	239731	236801	236801	589074	132962
182136	140537	190993	239359	236802	236802	589173	131343
182139	140540	191060	PSX160-1644	236895	236895	593251	232213
182140	140541	191601	236797	236980	236980	593253	138112
182145	140851	191601	333870	236985	236985	594015	133079
182146	PSX1124	191769	239359	237085	237085	594019	133079
182148	136005	191771	PSX166-1674	237086	237086	594021	133079
182153	PSX83-844	191772	PS169B	237115	237115	594029	132974
182159	139535	191772	PS170B	237291	237291	594031	132974
182176	133897	191772	PSX169-1704	237686	237686	594032	132975
182177	132021	191773	PS169B	239359	239359	594034	139318
182197	139174	191773	PS170B	239731	239731	594040	132022
182432	132968	191773	PSX169-1704	300679	PSX81-824	594042	133897
182438	131071	191824	239731	300687	PSX1304	594043	230963
182442	133169	191849	PSX166-1674	300706	PSX133K2	594045	132976
182452	132268	192405	192405	300752	132268	594046	234579



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
594047	132977	594281	139439	594501	234390	1201728	333869
594047	335389	594283	233994	594502	234391	1006200012	135598
594048	232012	594284	333879	594518	233767	1122B	333720
594053	133533	594286	141067	594519	139434	2EM0588F	330549
594054	137300	594287	139473	594522	231476	2EM0689H	134736
594060	PSX144-145K	594287	335234	594523	231476	2H08	333721
594061	PSX146-147K	594288	234778	594526	134513	36100-2G100FFF	335124
594062	PSX144-145K	594290	139224	594528	230250	3EM092301D	135467
594063	PSX144-145K	594291	233496	594529	139593	72591A	PSX64-702
594064	PSX146-147K	594295	231413	594530	230250	72632H	PSX77-784
594065	PSX1292/1P	594298	138112	594531	139593	B140333	B140333
594066	PSX1332	594305	135392	594534	137399	CED402	133169
594070	133647	594308	234088	594535	137399	CED406	133169
594072	133646	594314	235179	594538	135081	CED41	133169
594087	132977	594317	PSX144-145K	594541	235706	CED416	133169
594087	335389	594319	132976	594542	235707	CED429	133169
594098	132025	594322	132976	594569	231537	CED501	131071
594105	133079	594324	230354	594579	231238	CED502	131071
594108	135083	594325	132976	594597	236805	CED5033	139476
594112	135387	594344	135387	594604	132976	CED510	131071
594113	132976	594345	139477	594607	136255	CED511	132268
594115	135392	594345	335404	594610	235869	CED512	131071
594117	132977	594347	139476	594610	332681	CED514	132268
594117	335389	594348	235106	594617	236626	CED518	133128
594118	135390	594351	139224	594621	236271	CED528	133166
594119	132977	594354	139985	594631	234819	CED529	131171
594127	PSX144-145K	594355	133128	594632	238193	CED530	232011
594129	230032	594356	235179	594638	232041	CED533	131584
594130	230032	594360	PSX148-159K	594638	335192	CED537	133533
594136	135084	594361	231073	594644	236797	CED538	131584
594136	335403	594362	231163	594644	333870	CED539	131071
594140	135390	594365	135390	594646	236801	CED540	133163
594141	135388	594368	135084	594650	236796	CED541	133532
594145	132976	594370	132976	594657	236270	CED543	133534
594151	133079	594373	138151	594657	333864	CED544	131584
594152	235498	594374	137732	594658	236269	CED546	133533
594155	133128	594378	233996	594665	236609	CED548	133533
594156	132025	594380	233795	594673	236611	CED549	132025
594163	135085	594381	231841	594674	333317	CED550	132024
594163	333203	594382	234086	594674	335009	CED552	132976
594169	PSX148-159K	594386	PSX144-145K	594678	236359	CED563	132977
594177	137733	594389	231093	594680	236364	CED564	132977
594178	132976	594390	139439	594683	236358	CED565	133128
594181	231610	594391	234388	594704	136255	CED568	132025
594183	232012	594392	234389	594721	238767	CED569	132977
594185	135389	594394	234386	594724	330689	CED580	234579
594185	335230	594401	234153	594725	237776	CED621	132968
594187	138151	594407	234969	594726	330452	CE5569	132977
594188	132977	594410	231932	594731	331640	CEY113	133695
594189	132977	594410	333863	594743	236626	CEZ113	133697
594207	133079	594411	232041	594747	330104	M106X29371	133034
594208	231718	594411	335192	594773	332103	M372X10171	132591
594214	135647	594413	233795	594777	332614	M644B10601	137219
594219	233697	594414	236975	594779	332103	M648C15372/472	140387
594221	230733	594419	137733	594780	136763	M649T05071	132475
594232	133079	594421	139476	594781	236358	M800X43574	136938
594234	133079	594422	137732	594784	334146	M863C04871	136416
594237	133079	594426	135390	595575	234819	NE003	140531
594243	135636	594431	235416	595575	332530	NE005	140533
594245	131999	594436	234231Z	595585	336299	NE008	140537
594247	138113	594438	236258	595610	236611	NE011	140540
594248	234918	594447	139476	595617	236626	NE012	140541
594252	137733	594449	234944	595641	335627	NE053	131813
594253	230032	594451	234996	595683	335664	NE129	132268
594255	137732	594452	139476	595712	335618	NE134	133534
594259	137732	594453	236896	595726	236626	NE138	131584
594262	139439	594454	233795	595731	238193	NE139	132977
594266	233708	594459	239966	604521	140065	NE140	133534
594267	132976	594460	138854	604521	B140065	NE141	133533
594268	132976	594463	234846	611734	131188	NE142	133533
594269	132976	594465	236238	612355	130432	NE152	235086
594271	136255	594467	236239	612459	133178	NE153	235087
594273	132976	594471	236271	680559	131009	NE155	131343
594275	132976	594472	235252	681378	130424	NE159	133532
594276	135392	594474	235268	681380	130434	NE160	130757
594277	139985	594477	231476	681398	132078	NE184	130759
594278	135387	594478	231476	681411	131010	NE185	130461
594279	139478	594479	139224	682244	131007	NE195	132962
594280	136255	594487	233318	0809042	231932	NE197	131111

# STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>VALEO</b> <i>Continued</i>		<b>WHEEL HORSE</b>		2114-91001.....133031		0134.....131729	
NE209.....	131999	110116.....234072		2114-91008.....132454		0135.....133864	
NE305.....	235088	110162.....234072		2114-91104.....134121		0139.....130401	
NE306.....	235088	110167.....234072		2114-93104.....139166		0140.....130442	
NE347.....	133120	<b>YAMAHA</b>		2120-2601.....140316		0141.....130440	
NE348.....	133122	124195-77741.....131986		2120-4302.....140318		0144.....130741	
NE355.....	131009	129242-77100.....235337		2120-4401.....140317		0150.....130453	
NE361.....	131009	129900-77400.....233886		2120-5312/7311.....140376		0155.....130452	
NE379.....	140533	129900-77520.....233887		2130-11001.....137092		0170.....130449	
NE421.....	232011	6M6-8183E00-00.....230761		2130-1310.....140313		0182.....131770	
NE483.....	136426	<b>YANMAR</b>		2130-23112.....140567		0184.....131110	
NE484.....	136426	118400-77251.....137120		2130-23112/73111.....140567		0188.....131768	
NE485.....	130461	121254-77401.....137092		2130-2601.....140313		0189.....130432	
NE515.....	132962	121254-77660.....133266		2130-31004.....137092		0204.....130328	
NE575.....	132962	121254-77671.....132059		2130-3315.....140379		0213.....130738	
NE776.....	133897	129136-77500.....132798		2130-47009.....230558		0215.....130762	
NE777.....	132976	129298-77020.....132094		2130-53112.....140567		0216.....130761	
NE778.....	132974	129400-77530.....138739		2130-5312/8311.....140378		0217.....130456	
NE784.....	132974	129698-77101.....137948		2130-63015.....230636		0218.....130419	
NE785.....	133128	129698-77230.....235485		2130-63112.....140567		0218.....130419Z	
NE815.....	133128	129900-77540.....230557		2130-65002.....133266		0221.....130401	
NE824.....	135387	129900-77590.....230558		2130-73021.....133730		0222.....130400	
NE830.....	135083	139698-77220.....138958		2130-7305.....133057		0223.....130390	
NE831.....	135084	2108-4823.....131800		2130-8311.....140378		0224.....132365	
NE831.....	335403	2114-1353.....140870		2130-8503.....230557		0225.....132367	
NE845.....	135392	2114-15006.....132447		2130-87007.....132093		0226.....130416	
NE883.....	131999	2114-15016.....139132		2240-1801.....190482		0227.....131713	
NE898.....	232012	2114-17005.....132093		2240-3310.....133730		0228.....130414	
NE936.....	233697	2114-19008.....133653		2240-3615.....231286		0228.....130414ZZ	
NE949.....	139473	2114-21111.....137948		2240-5700.....136141		0229.....130995	
NE949.....	335234	2114-23106.....137121		2250-1451.....140495		0243.....130465	
NE955.....	231413	2114-25100.....131986		2250-2323/4322.....140337		0244.....130434	
NE966.....	230354	2114-25505.....132459		2250-25004.....133058		0245.....130424	
NE971.....	139477	2114-2742.....137306		2250-3601.....140489		0248.....130759	
NE971.....	335404	2114-27501.....132094		2250-45004.....133058		0280.....135355	
S809P59201.....	133598	2114-2835.....190537		2250-5322.....140378		0286.....130897	
TM008B00601Z.....	231196	2114-2867.....190482		2250-5323.....140378		0287.....131111	
TM009C02001Z.....	137219	2114-29007.....132090		2250-71002.....133056		0291.....130950	
TM200B01601B.....	132486	2114-33101.....132424		2250-7310.....133057		0300.....130402	
TM400B08301.....	133050	2114-33127.....140922		L150-28001.....192145		0301.....131267	
<b>VALEO KOREA → VALEO</b>		2114-33127/43127.....140922		X-2114150060.....132447		0302.....135801	
<b>VISNOVA</b>		2114-39001.....132090		X-211437001.....131144		0304.....132697	
36-46-26.....	234231Z	2114-39505.....139664		X-211447007.....132093		0307.....130405	
36-46-36.....	331650	2114-44101.....140927		X-2114510050.....138959		0308.....132273	
36-46-46.....	239359	2114-45002.....133465		X-211457001.....131800		0310.....130931	
36-46-57.....	330800	2114-4661.....140310		X-211487004.....131800		0312.....131712	
62-42-34.....	237769	2114-47006.....132058		X-21203700Z.....131431		0313.....131711	
62-42-50.....	236891	2114-47606.....132093		X-2130650060.....235501		0315.....131381	
62-42-51.....	231885	2114-49007.....132090		X-21306700.....132059		0316.....131269	
62-42-68.....	333341	2114-51005.....138959		ZM-68596.....133803		0318.....132364	
62-42-99.....	331988	2114-51007.....134121		<b>ZEN</b>		0319.....130409	
69-52-57.....	335572	2114-51106.....134121		0013.....136318		0320.....130930	
69-60-25.....	330382	2114-5312/5313.....140334		0020.....130537		0322.....130450	
69-70-87.....	335573	2114-5312/8313.....140334		0028.....130415		0323.....130404	
69-71-76.....	330484	2114-5352.....140311		0036.....131714		0325.....130393	
69-74-63.....	335574	2114-5506.....132001		0044.....132163		0327.....130441	
69-74-65.....	335578	2114-5550.....132459		0050.....130536		0341.....132545	
72-42-00.....	335579	2114-55552.....132459		0052.....131769		0343.....138137	
<b>VOLKSWAGEN</b>		2114-5661.....140310		0053.....130535		0349.....131085	
028903556.....	192569	2114-57001.....131800		0064.....130451		0351.....131783	
038903093.....	192586	2114-58005.....191584		0066.....130404		0352.....131087	
058911335.....	137481	2114-5866.....190480		0067.....130446		0361.....131097	
058911335.....	333178	2114-5867.....190482		0080.....130406		0365.....131108	
058911335.....	137481Z	2114-59002/6315.....140338		0087.....130418		0366.....131019	
02B911209D.....	335205	2114-59002/69002.....140338		0093.....130538		0367.....131065	
049911335A.....	131104ZZ	2114-61005.....134121		0096.....130445		0376.....131984	
068911209L.....	335205	2114-64102.....137934		0097.....131056		0378.....131271	
<b>VOLVO</b>		2114-68005.....191873		0101.....131269		0381.....138128	
1367094.....	133437	2114-69002.....140338		0105.....132273		0382.....131086	
1377095.....	133436	2114-73125.....140986		0108.....130396		0389.....131716	
5549-306CH.....	130722	2114-73125/83123.....140986		0110.....130539		0392.....131270	
5549-307.....	140170	2114-76015.....137938		0110.....130539Z		0394.....132188	
5549-95.....	138391	2114-8110.....135478		0111.....132194		0398.....130447	
6068-2.....	ASX74	2114-83123.....140986		0117.....232632		0406.....131432	
				0118.....135801		0407.....234921	
				0119.....132193		0408.....131715	
				0120.....130737		0411.....131708	
				0131.....130027		0412.....131707	
						0414.....131705	



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
0417	131489	0629	133975	0832	132448	1033	230828
0418	132702	0630	132205	0836	135567	1037	230835
0418	333209	0631	131998	0837	333937	1038	139056
0418	335235	0632	131997	0838	234403	1048	231789
0419	131597	0635	132345	0841	234402	1048	231789Z
0420	131102	0636	134918	0843	139477	1057	138322
0426	131628	0638	133443	0843	335404	1058	230834
0428	131150	0639	134371	0850	137071	1058	333180
0433	132695	0641	136888	0851	135116	1058	230834Z
0434	132634	0644	132449	0853	135572	1059	137281Z
0447	133498	0646	132020	0857	131101	1062	136261
0448	131985	0647	132021	0858	131481	1063	231341
0449	132286	0648	134282	0858	335646	1064	234231Z
0450	132005	0648	335650	0861	136743	1065	135164
0450	132005Z	0649	133975	0863	135711	1067	135715Z
0453	130920	0656	131999	0871	135985	1069	230340
0454	131429	0657	132022	0875	131996	1070	230336
0460	131207	0661	131106	0878	134364	1071	136787
0461	132200	0677	132368	0887	333677	1072	230546
0475	133362	0684	133361	0892	136267	1073	138866
0480	132285	0686	133441	0894	135542	1074	135084
0482	131104	0691	133465	0895	132514	1097	136796
0482	333176	0706	132388	0900	139850	1107	233829
0485	134427	0712	137765	0901	133058	1107	233829Z
0486	131728	0721	231965	0907	139341	1108	230339
0486	335647	0722	137760	0907	139341ZZ	1109	137889
0495	131220	0729	135086	0914	231970	1111	135374
0497	131495	0737	132001	0920	138308	1113	138793
0498	133631	0745	135716	0920	138308ZZ	1117	132818
0499	131986	0747	135083	0921	137293	1117	132818Z
0507	131732	0749	230761	0925	137481	1152	139320
0517	131988	0751	230762	0925	333178	1153	231896
0519	133268	751	230762	0925	137481Z	1155	233828
0520	131433	0752	136342	0926	133860	1156	137891
0520	333172	0756	138216	0929	137275	1157	233837
0520	131433Z	0756	138216Z	0931	137279	1158	233835
0528	131344	0758	136145	0932	137480	1158	335233
0528	335644	0760	132000	0932	333179	1159	231756
0533	132075	0760	335649	0932	137480ZZ	1159	335558
0536	136208	0764	133596	0936	133897	1160	233722
0537	131852	0765	132547	0937	136854	1168	333355
0538	131475	0768	333125	0937	333177	1169	139901
0538	335645	0769	133841	0937	136854ZZ	1170	139458
0540	131212	0769	333855	0938	137981	1171	136425
0541	132852	0770	230073	0948	233398	1173	134434
0555	130542	0775	132974	0950	234230	1174	132542
0557	133682	0776	232632	0951	135651	1178	234087
0561	231330	0776	333858	0953	130437	1179	236130
0566	130540	0779	135717	0957	134966	1180	230144
0571	131170	0781	139336	0958	231966	1180	230144Z
0572	131995	0784	231885	0960	133295	1181	131167
0572	335648	0785	133266	0962	131434	1187	131111
0573	132079	0786	132119	0965	139473	1190	131767
0573	132079Z	0787	135647	0969	136257	1192	136633
0574	132181	0790	135091	0970	136509	1193	231961
0579	132216	0790	135091ZZ	0972	137890	1194	133854
0579	333174	0792	133605	0972	333181	1195	133975
0579	132216ZZ	0794	135714	0976	137483	1196	133976
0580	132453	0796	138948	0977	233173	1199	231960
0584	133454	0797	135713	0985	233387	1204	233496
0591	133683	0798	136723	0997	137888	1205	230911
0594	136338	0799	135085	0998	139954	1205	230911Z
0595	132011	0800	132204	0999	139655	1206	134859
0596	132012	0801	231952	0999	335653	1207	135059
0597	137643	0803	136925	1002	234971	1208	138209
0600	132010	0805	135464	1002	333861	1209	137733
0601	132821	0806	136722	1004	333126	1215	134806Z
0608	130739	0808	137751	1004	333862	1223	138875
0611	132943	0809	136086	1005	136985	1223	138875Z
0612	135063	0814	138316	1011	138874	1227	230757
0613	132169	0817	137952	1017	231804	1451	231009
0615	232480	0818	137753	1018	136923	1458	139478
0617	136602	0818	137753Z	1019	233178	1472	231898
0619	132168	0821	133297	1020	139132	1474	139013
0622	138332	0822	133296	1022	233719	1477	135117
0624	131481	0823	132586	1023	135389	1478	335352
0624	335646	0825	137643	1025	139902	1480	234293
0625	133507	0830	133805	1030	230352	1482	333939
0626	132731	0831	132941	1032	333939	1483	233947

## STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>ZEN Continued</b>							
1483	333212	1765	335618	1.01.0131.0	130027	1.01.0361.0	333233
1484	138533	1768	335664	1.01.0134.0	131729	1.01.0365.0	131108
1485	234242	1770	337189	1.01.0135.0	133864	1.01.0366.0	131019
1486	136614	1774	234514	1.01.0139.0	130401	1.01.0366.0	333205
1487	230350	1774	333871	1.01.0140.0	130442	1.01.0367.0	131065
1496	138865	1775	333720	1.01.0141.0	130440	1.01.0367.0	131065Z
1534	236896	1777	333721	1.01.0144.0	130741	1.01.0376.0	131984
1539	233830	1800	333745	1.01.0149.0	131107	1.01.0378.0	131271
1545	235290	1801	235426	1.01.0150.0	130453	1.01.0378.0	333217
1547	235440	1803	333926	1.01.0155.0	130452	1.01.0381.0	138128
1547	333186	1805	334325	1.01.0155.0	130452Z	1.01.0382.0	131086
1547	235440Z	1806	333407	1.01.0170.0	130449	1.01.0389.0	131716
1550	235839	1812	332530	1.01.0182.0	131770	1.01.0392.0	131270
1561	333881	1823	236375	1.01.0184.0	131110	1.01.0394.0	132188
1562	333940	1823	333182	1.01.0188.0	131768	1.01.0398.0	130447
1567	231415	1824	333929	1.01.0189.0	130432	1.01.0406.0	131432
1576	234535	1826	335128	1.01.0213.0	130738	1.01.0407.0	131109
1576	333195	1853	233845	1.01.0215.0	130762	1.01.0408.0	131715
1585	234135Z	1856	335311	1.01.0216.0	130761	1.01.0409.0	131035
1592	137218	1857	237990	1.01.0217.0	130456	1.01.0410.1	134065
1594	137231	1858	139841	1.01.0221.0	130401	1.01.0411.0	131708
1597	234124	1860	235501	1.01.0222.0	130400	1.01.0412.0	131707
1597	333171	1874	335312	1.01.0223.0	130390	1.01.0413.0	131206
1597	234124Z	1898	335611	1.01.0224.0	132365	1.01.0414.0	131705
1600	231623	9186	132043	1.01.0225.0	132367	1.01.0417.0	131489
1607	231932	9260	132044	1.01.0226.0	130416	1.01.0418.0	132702
1607	333863	9301	132405	1.01.0227.0	131713	1.01.0418.0	333209
1616	139520	9302	132865	1.01.0228.0	130414	1.01.0418.0	335235
1618	236270	9307	132866	1.01.0228.0	333516	1.01.0419.0	131597
1618	333864	9349	139654	1.01.0228.0	130414Z	1.01.0419.0	333228
1619	234247	9402	133353	1.01.0229.0	130995	1.01.0420.0	131102
1619	234247Z	9403	133355	1.01.0243.0	130465	1.01.0420.0	333220
1629	234168	9426	133007	1.01.0244.0	130434	1.01.0420.0	131102Z
1630	138985	9459	133354	1.01.0245.0	130424	1.01.0426.0	131628
1630	138985Z	9492	138123	1.01.0246.0	131188	1.01.0428.0	131150
1631	234158	9526	133606	1.01.0247.0	130461	1.01.0433.0	132695
1632	234785	9527	133042	1.01.0248.0	130759	1.01.0434.0	132634
1632	333551	9566	133436	1.01.0249.0	130463	1.01.0442.0	131098
1641	236832	9597	231456	1.01.0280.0	135355	1.01.0447.0	133498
1642	330265	10003	333938	1.01.0286.0	130897	1.01.0448.0	131985
1642	333188	12812	132483	1.01.0287.0	131111	1.01.0449.0	132286
1642	335231	12812	333873	1.01.0287.1	131111	1.01.0450.0	132005
1643	233836	12839	237769	1.01.0288.0	130948	1.01.0450.0	132005Z
1643	333593	1.01.0004.0	132694	1.01.0290.0	132366	1.01.0453.0	130920
1655	232623	1.01.0013.0	136318	1.01.0291.0	130950	1.01.0460.0	131207
1655	333564	1.01.0020.0	130537	1.01.0291.0	333207	1.01.0461.0	132200
1655	335236	1.01.0028.0	130415	1.01.0295.0	130757	1.01.0474.0	135251
1658	237752	1.01.0032.0	235624	1.01.0300.0	130402	1.01.0475.0	133362
1661	237105	1.01.0035.0	130417	1.01.0301.0	131267	1.01.0475.0	333201
1678	333674	1.01.0036.0	131714	1.01.0302.0	135801	1.01.0480.0	132285
1692	231932	1.01.0044.0	132163	1.01.0304.0	132697	1.01.0482.0	131104
1693	235663	1.01.0050.0	130536	1.01.0306.0	135664	1.01.0482.0	333176
1695	333479	1.01.0051.0	130540	1.01.0307.0	130405	1.01.0482.0	131104Z
1696	330125	1.01.0052.0	131769	1.01.0310.0	130931	1.01.0485.0	134427
1696	333581	1.01.0053.0	130535	1.01.0311.0	131712	1.01.0486.0	131728
1696	333866	1.01.0064.0	130451	1.01.0312.0	131712	1.01.0486.0	335647
1698	333681	1.01.0065.0	130404	1.01.0313.0	131711	1.01.0487.0	131733
1699	333679	1.01.0067.0	130446	1.01.0314.0	230159	1.01.0491.1	131767
1700	333682	1.01.0068.0	130405	1.01.0315.0	131381	1.01.0497.0	131495
1701	333680	1.01.0078.0	132308	1.01.0318.0	132364	1.01.0497.0	333515
1702	236752	1.01.0080.0	130406	1.01.0319.0	130409	1.01.0498.0	133631
1706	331730	1.01.0087.0	130418	1.01.0320.0	130930	1.01.0499.0	131986
1708	235200	1.01.0093.0	130538	1.01.0321.0	136285	1.01.0507.0	131732
1708	333872	1.01.0096.0	130445	1.01.0322.0	130450	1.01.0517.0	131988
1714	236876	1.01.0097.0	131056	1.01.0323.0	130404	1.01.0519.0	133268
1714	333867	1.01.0098.0	131267	1.01.0325.0	130393	1.01.0520.0	131433
1718	231899	1.01.0101.0	131269	1.01.0326.0	130425	1.01.0520.0	333172
1718	333868	1.01.0103.0	132364	1.01.0327.0	130441	1.01.0520.0	131433Z
1720	239777	1.01.0105.0	132273	1.01.0339.0	130442	1.01.0528.0	131344
1720	333234	1.01.0105.0	333227	1.01.0341.0	132545	1.01.0528.0	335644
1727	135581	1.01.0105.4	132273	1.01.0343.0	138137	1.01.0536.0	136208
1735	333869	1.01.0105.4	333227	1.01.0349.0	131085	1.01.0537.0	131852
1751	335111	1.01.0108.0	130396	1.01.0350.0	130441	1.01.0538.0	131475
1752	236797	1.01.0110.0	130539	1.01.0351.0	131783	1.01.0538.0	335645
1752	333870	1.01.0110.0	130539Z	1.01.0352.0	131087	1.01.0540.0	131212
1754	335379	1.01.0111.0	132194	1.01.0353.0	130442	1.01.0541.0	132852
1756	331628	1.01.0117.0	131766	1.01.0355.0	131108	1.01.0544.0	130740
1757	331010	1.01.0118.0	130932	1.01.0360.0	132005	1.01.0555.0	130542
1763	330452	1.01.0119.0	132193	1.01.0360.0	132005Z	1.01.0557.0	133682
1764	236779	1.01.0120.0	130737	1.01.0361.0	131097	1.01.0558.0	136642



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
1.01.0560.0	134643	1.01.0737.1	132459	1.01.0843.0	335404	1.01.1030.0	230352
1.01.0561.0	231330	1.01.0745.0	135716	1.01.0844.0	133437	1.01.1030.0	333553
1.01.0566.0	130540	1.01.0745.0	333194	1.01.0844.1	133437	1.01.1033.0	230828
1.01.0567.0	131769	1.01.0747.0	135083	1.01.0850.0	137071	1.01.1035.0	231415
1.01.0571.0	131170	1.01.0749.0	230761	1.01.0851.0	135116	1.01.1035.0	335402
1.01.0572.0	131995	1.01.0750.0	137950	1.01.0851.0	135116Z	1.01.1037.0	230835
1.01.0572.0	335648	1.01.0750.1	230857	1.01.0853.0	135572	1.01.1037.0	333189
1.01.0573.0	132079	1.01.0751.0	230762	1.01.0857.0	131101	1.01.1038.0	139056
1.01.0573.0	132079Z	1.01.0752.0	136342	1.01.0858.0	131481	1.01.1038.0	139056Z
1.01.0574.0	132181	1.01.0755.0	133507	1.01.0858.0	335646	1.01.1046.0	133449
1.01.0576.0	133712	1.01.0756.0	138216	1.01.0861.0	136743	1.01.1047.0	132489
1.01.0579.0	132216	1.01.0756.0	138216Z	1.01.0863.0	135711	1.01.1048.0	231789
1.01.0579.0	333174	1.01.0757.0	136144	1.01.0875.0	131996	1.01.1048.0	231789Z
1.01.0579.0	132216ZZ	1.01.0758.0	136145	1.01.0878.0	134364	1.01.1057.0	138322
1.01.0580.0	132453	1.01.0760.0	132000	1.01.0887.0	231371	1.01.1057.0	333214
1.01.0584.0	133454	1.01.0760.0	335649	1.01.0892.0	136267	1.01.1058.0	230834
1.01.0591.0	133683	1.01.0761.0	133853	1.01.0894.0	135542	1.01.1058.0	333180
1.01.0594.0	136338	1.01.0764.0	133596	1.01.0900.0	134371	1.01.1058.0	230834Z
1.01.0595.0	132011	1.01.0765.0	132547	1.01.0900.0	134371Z	1.01.1059.0	137281Z
1.01.0596.0	132012	1.01.0769.0	133841	1.01.0901.0	133058	1.01.1062.0	136261
1.01.0597.0	137643	1.01.0769.0	333855	1.01.0907.0	139341	1.01.1064.0	131111
1.01.0599.0	132014	1.01.0770.0	230073	1.01.0907.0	139341ZZ	1.01.1065.0	135164
1.01.0600.0	132010	1.01.0775.0	132974	1.01.0909.0	130439	1.01.1069.0	230340
1.01.0601.0	132821	1.01.0776.0	232632	1.01.0911.0	130731	1.01.1069.0	333215
1.01.0608.0	130739	1.01.0776.0	333858	1.01.0912.0	230025	1.01.1070.0	230336
1.01.0611.0	132943	1.01.0779.0	135717	1.01.0914.0	231970	1.01.1070.0	333511
1.01.0612.0	135063	1.01.0780.1	230911	1.01.0920.0	138308	1.01.1071.0	136787
1.01.0613.0	132169	1.01.0780.1	230911Z	1.01.0920.0	138308ZZ	1.01.1072.0	230546
1.01.0616.0	132009	1.01.0781.0	139336	1.01.0921.0	137293	1.01.1073.0	138866
1.01.0617.0	136602	1.01.0784.0	231885	1.01.0925.0	137481	1.01.1074.0	135084
1.01.0619.0	132168	1.01.0785.0	133266	1.01.0925.0	333178	1.01.1076.0	130415
1.01.0620.0	138332	1.01.0786.0	132119	1.01.0925.0	137481Z	1.01.1082.0	130415
1.01.0620.1	136633	1.01.0786.1	134859	1.01.0926.0	133860	1.01.1088.0	130415
1.01.0622.0	138332	1.01.0786.2	230757	1.01.0929.0	137275	1.01.1090.0	130415
1.01.0623.1	231961	1.01.0786.3	131588	1.01.0931.0	137279	1.01.1092.0	130415
1.01.0624.0	131481	1.01.0787.0	135647	1.01.0932.0	137480	1.01.1095.0	130415
1.01.0624.0	335646	1.01.0790.0	135091	1.01.0932.0	333179	1.01.1108.0	230339
1.01.0625.0	133507	1.01.0790.0	135091ZZ	1.01.0932.0	137480ZZ	1.01.1108.0	333200
1.01.0626.0	132731	1.01.0792.0	133605	1.01.0936.0	133897	1.01.1108.0	335405
1.01.0629.0	133854	1.01.0793.1	135059	1.01.0937.0	136854	1.01.1111.0	135374
1.01.0630.0	132205	1.01.0794.0	135714	1.01.0937.0	333177	1.01.1124.0	136633
1.01.0630.0	333196	1.01.0796.0	138948	1.01.0937.0	136854ZZ	1.01.1152.0	139320
1.01.0630.0	132205Z	1.01.0797.0	135713	1.01.0938.0	137981	1.01.1153.0	231896
1.01.0631.0	131998	1.01.0798.0	136723	1.01.0938.0	333216	1.01.1153.0	333210
1.01.0632.0	131997	1.01.0799.0	135085	1.01.0946.0	132863	1.01.1155.0	233828
1.01.0635.0	132345	1.01.0799.0	333203	1.01.0947.0	132004	1.01.1155.0	333193
1.01.0635.0	333510	1.01.0800.0	132204	1.01.0948.0	233398	1.01.1156.0	137891
1.01.0636.0	134918	1.01.0801.0	231952	1.01.0951.0	135651	1.01.1158.0	233835
1.01.0638.0	133443	1.01.0803.0	136925	1.01.0953.0	130437	1.01.1159.0	231756
1.01.0639.0	134371	1.01.0805.0	135464	1.01.0954.0	139653	1.01.1159.0	335558
1.01.0639.0	134371Z	1.01.0806.0	136722	1.01.0958.0	231966	1.01.1171.0	136425
1.01.0641.0	136888	1.01.0808.0	137751	1.01.0960.0	133295	1.01.1173.0	134434
1.01.0644.0	132449	1.01.0809.0	136086	1.01.0961.0	133897	1.01.1174.0	132542
1.01.0646.0	132020	1.01.0809.0	335401	1.01.0962.0	131434	1.01.1178.0	234087
1.01.0647.0	132021	1.01.0810.0	136086	1.01.0962.0	333548	1.01.1179.0	236130
1.01.0648.0	134282	1.01.0810.0	335401	1.01.0965.0	139473	1.01.1179.0	335232
1.01.0648.0	335650	1.01.0811.0	132453	1.01.0965.0	335234	1.01.1451.0	231009
1.01.0649.0	133975	1.01.0814.0	138316	1.01.0969.0	136257	1.01.1458.0	139478
1.01.0650.0	133976	1.01.0815.0	134284	1.01.0970.0	136509	1.01.1483.0	233947
1.01.0656.0	131999	1.01.0816.0	139244	1.01.0972.0	137890	1.01.1483.0	333212
1.01.0657.0	132022	1.01.0817.0	137952	1.01.0972.0	333181	1.01.1539.0	233830
1.01.0661.0	131106	1.01.0818.0	137753	1.01.0975.0	139710	1.01.1545.0	235290
1.01.0662.1	231960	1.01.0818.0	137753Z	1.01.0985.0	233387	1.01.1576.0	234535
1.01.0677.0	132368	1.01.0821.0	133297	1.01.0997.0	137888	1.01.1576.0	333195
1.01.0682.0	130442	1.01.0822.0	133296	1.01.0997.0	333192	1.01.1592.0	137218
1.01.0684.0	133361	1.01.0823.0	132586	1.01.0998.0	139954	1.01.1616.0	139520
1.01.0686.0	133441	1.01.0824.1	138209	1.01.0998.0	333208	1.01.1629.0	234168
1.01.0689.0	139848	1.01.0825.0	137643	1.01.0999.0	139655	1.01.1630.0	138985
1.01.0691.0	133465	1.01.0829.0	233842	1.01.0999.0	335653	1.01.1630.0	138985Z
1.01.0692.0	132200	1.01.0830.0	133805	1.01.1005.0	136985	1.01.1631.0	234158
1.01.0694.0	133631	1.01.0831.0	132941	1.01.1011.0	138874	1.01.1632.0	234785
1.01.0695.0	233533	1.01.0832.0	132448	1.01.1017.0	231804	1.01.1632.0	333551
1.01.0706.0	132388	1.01.0833.1	137733	1.01.1018.0	136923	1.01.1642.0	330265
1.01.0712.0	137765	1.01.0836.0	135567	1.01.1019.0	233178	1.01.1642.0	335231
1.01.0721.0	231965	1.01.0837.0	131104	1.01.1020.0	139132	1.01.1643.0	233836
1.01.0722.0	137760	1.01.0837.0	333176	1.01.1023.0	135389	1.01.1643.0	333593
1.01.0722.0	335652	1.01.0837.0	131104ZZ	1.01.1023.0	335230	1.01.1695.0	333479
1.01.0729.0	135086	1.01.0838.0	234403	1.01.1024.0	139541	1.01.1805.0	334325
1.01.0729.0	135086Z	1.01.0841.0	234402	1.01.1025.0	139902	639.0597.5	231456
1.01.0737.0	132001	1.01.0843.0	139477				

# STARTER COMPONENTS

O.E.M. names and numbers are used for reference purposes only.



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>ZM</b>		560	131009	686	132059	892	231457
101	234860	561	133178	688	131431	893	231981
103	235594	567	331019	689	138739	894	132472
111	235595	571	130476	690	133052	896	132591
112	235596	573	131586	691	231976	898	136344
356	234476	573	333146	692	131802	901	133554
361	233873	574	131791	693	132095	902	130304
362	233869	575	131143	694	133053	902	333155
371	138877	575	333147	695	137813	903	130283
371	333149	575	333665	695	138013	903	333162
372	139075	576	130474	696	133289	904	130305
373	230848	578	130475	697	133288	904	333159
374	139019	580	130476	698	133049	950	131364
376	230115	585	133045	699	235847	951	131363
376	333999	590	136255	702	133675	961	235496
378	137879	591	136255	703	131807	972	134824
378	333565	592	133532	705	133809	972	333145
379	137879	593	133534	707	135652	973	138971
379	333565	594	133533	708	138014	973	333148
379	335000	595	131171	710	132094	975	136717
381	333996	596	232011	711	133044	976	135526
391	334128	597	131584	718	231910	977	232420
395	138444	598	137300	719	135287	978	139069
396	235383	599	132977	724	130471	978	333601
397	237977	599	335389	726	133643	980	138809
401	130493	602	133076	727	133428	981	136141
404	230964	605	230018	728	136544	982	134812
405	231807	606	136983	731	130302	993	230788
406	231808	607	137023	731	130302Z	994	231983
407	333841	608	232003	732	132363	1-371	138763
410	138170	609	232004	733	333839	1-371	333163
411	138957	610	131248	734	137368	1-381	333998
428	334180	611	131247	736	132362	1-382	333963
451	131356	612	130855	740	137443	1-395	231806
452	139209	613	133531	741	133398	1-395.91	137346
453	231914	614	131786	742	137443	1-396	138531
454	231915	615	134888	743	137232	1-397	237992
456	131369	616	131785	744	130301	1-405	231809
457	231912	621	135871	755	133424	1-406	231810
459	131361	623	130293	760	136632	1-473	137613
460	230198	624	135878	761	138496	1-473.91	138003
461	131349	626	134823	762	231178	1-479	133424
462	139337	628	133642	766	233890	1-491	231718
464	231922	629	233896	769	236961	1-492	133128
468	231926	633	231975	771	130476	1-492.91	134402
472	137696	638	131053	772	133644	1-493	234389
473	137175	641	132294	773	132828	1-494.91	236240
475	136036	642	130477	777	136369	1-495	236801
475	335489	643	130296	778	136371	1-495.91	236802
479	139498	644	131042	781	133047	1-498	236626
479	333592	645	130303	783	133043	1-498.91	236627
490	135390	645	333138	785	132915	1-545	130939
491	132976	645	333664	787	135877	1-557	131272
492	132977	645	130303Z	794	137930	1-561	131007
495	139476	647	132361	795	231978	1-573	131791
496	232012	647	333167	805	133852	1-573.91	132279
497	231610	648	131141	806	137811	1-575	139014
521	130468	649	132254	808	231927	1-578	133419
522	131790	650	130377	809	231927	1-585	133045
524	133636	651	132228	810	135521	1-590	136255
525	133141	652	131437	811	231251	1-590.94	139439
526	130470	653	131189	813	231928	1-592	132024
527	234857	654	131112	815	231800	1-594	133163
528	135358	655	131112	818	333781	1-595	137191
531	130302	656	131115	833	138311	1-596	133166
538	130301	657	131115	834	139965	1-596.91	134402
538	130301Z	660	130814	835	139967	1-597	132025
539	233734	661	231997	835	335227	1-608	137404
541	130300	662	131084	836	139965	1-608	237404
542	130297	674	132258	840	333782	1-613	133531
543	130302	674	333142	842	237845	1-615	131787
543	130302Z	676	132827	860	138217	1-639	230904
544	130301	676	333166	861	235006	1-640	231801
544	130301Z	679	137612	864	231929	1-640	333493
545	130939	680	131800	873	132265	1-640.91	131319
547	132254	681	131144	874	135065	1-650	130367
551	130499	682	132093	876	133421	1-653	236645
555	131273	683	132058	890	139614	1-690.96	133287
556	131119	685	132698	891	132473	1-691	132763



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
1-695.....	137813	3-428.....	336410	5-408.....	237835	794.96.....	137931
1-695.96.....	232225	3-473.91.....	138003	543.91.....	131317	8-395.....	230805
1-698.....	133049	3-491.....	235416	5-492.....	234388	8-408.....	332139
1-698.96.....	133285	3-494.....	135390	5-494.....	332681	8-408.....	333313
1-710.96.....	139604	3-497.....	238193	5-495.....	234153	860.96.....	138409
1-719.....	232200	3-579.....	134042	5-501.....	231811	8-640.....	231223
1-719.96.....	138819	3-595.....	230809	551.91.....	130497	873.91.....	131315
1-731.....	130302	3-595.96.....	139601	561.91.....	131323	874.91.....	132780
1-731.....	130302Z	3-639.....	237753	5-619.....	134457	875.91.....	131338
1-760.....	136632	3-639.....	333478	5-651.....	230325	876.91.....	133148
1-761.....	138496	3-640.....	138313	5-698.....	133049	878.91.....	131315
1-761.96.....	138497	3-651.....	133566	571.91.....	131338	891.96.....	134625
1-762.....	231178	3-674.....	138257	573.91.....	131337	893.96.....	134626
1-777.....	136369	3-698.....	333844	574.91.....	132279	893.96.....	238169
1-782.....	133054	3-708.....	334034	575.91.....	131315	894.96.....	133286
1-833.....	233584	371.91.....	137349	576.91.....	131337	960.96.....	235384
1-840.....	333002	3-719.....	333843	5-773.....	233480	9-637.....	132254
1-855.....	136170	372.91.....	231802	5-773.91.....	139598	972.96.....	134825
1-860.....	137370	3-722.....	234858	578.91.....	131847	975.91.....	132779
1-860.96.....	232226	373.91.....	234437	580.91.....	131338	977.91.....	138004
1-891.....	333848	374.91.....	231815	590.91.....	136367	978.91.....	139597
1-894.96.....	133286	376.91.....	231828	595.91.....	132033	FM 451.....	131356
1-897.....	335052	3-773.....	139018	597.91.....	132826	ZM 101.....	234860
1-897.96.....	137870	3-773.91.....	131315	598.91.....	232010	ZM 103.....	235594
1-974.....	335654	3-775.91.....	138004	599.91.....	134402	ZM 111.....	235595
1-975.....	137276	378.91.....	231558	605.96.....	232009	ZM 112.....	235596
1-975.....	333141	379.91.....	234439	608.96.....	232005	ZM 1-371.....	138763
1-976.....	133422	3-805.....	231927	610.96.....	131275	ZM 1-371.....	333163
1-981.....	133750	3-898.....	335219	612.96.....	131015	ZM 1-381.....	333998
1-982.....	132423	3-903.....	130281	613.96.....	131015	ZM 1-382.....	333963
1-993.....	235495	397.91.....	237978	615.96.....	132270	ZM 1-395.....	231806
1-993.96.....	333935	3-978.....	333842	624.96.....	131334	ZM 1-395.91.....	137346
2-371.....	230356	3-981.....	135008	627.96.....	133777	ZM 1-396.....	138531
2-371.....	333157	3-993.....	239823	6-408.....	333840	ZM 1-397.....	237992
2-371.91.....	233075	410.96.....	139330	641.91.....	132677	ZM 1-405.....	231809
2-391.....	333964	411.96.....	139604	6-460.....	231919	ZM 1-406.....	231810
2-395.....	231990	4-395.....	234733	6-461.....	231920	ZM 1-473.....	137613
2-395.91.....	233968	4-407.....	235699	6-461.96.....	232033	ZM 1-473.91.....	138003
2-397.91.....	239076	4-473.....	137266	6-492.....	236258	ZM 1-479.....	133424
2-407.....	333847	4-473.....	333150	6-495.....	231163	ZM 1-491.....	231718
2-408.....	333846	4-473.91.....	138003	650.91.....	131325	ZM 1-492.....	133128
2-409.....	230186	4-494.91.....	332682	652.96.....	132229	ZM 1-492.91.....	134402
2-452.....	231913	4-495.....	234778	653.91.....	133159	ZM 1-493.....	234389
2-456.....	231917	450.94.....	133022	655.96.....	131329	ZM 1-494.91.....	236240
2-460.....	231919	456.96.....	135324	6-595.....	137190	ZM 1-495.....	236801
2-461.....	231920	458.96.....	135323	6-595.91.....	137347	ZM 1-495.91.....	236802
2-471.91.....	131338	4-639.....	233933	6-640.....	234287	ZM 1-498.....	236626
2-473.....	137613	4-651.....	132227	6-651.....	133083	ZM 1-498.91.....	236627
2-475.....	136615	4-698.....	133049	672.91.....	138926	ZM 1-545.....	130939
2-479.....	231653	473.91.....	138003	6-773.....	137982	ZM 1-557.....	131272
2-491.....	234969	4-744.....	130806	679.91.....	234845	ZM 1-561.....	131007
2-494.....	235106	475.91.....	136108	680.96.....	133269	ZM 1-573.....	131791
2-496.....	236269	4-760.....	231179	682.96.....	133778	ZM 1-573.91.....	132279
2-498.....	237686	477.96.....	138004	683.96.....	133276	ZM 1-575.....	139014
2-571.....	130476	4-773.....	131586	685.96.....	133803	ZM 1-578.....	133419
2-571.91.....	131338	4-773.....	333146	690.96.....	235826	ZM 1-585.....	133045
2-573.....	132827	4-773.91.....	131337	692.96.....	133273	ZM 1-590.....	136255
2-573.....	333166	479.91.....	138004	698.96.....	133285	ZM 1-590.94.....	139439
2-595.96.....	139602	4-792.....	138012	719.96.....	138819	ZM 1-592.....	132024
2-629.....	233896	4-793.....	138011	726.96.....	132781	ZM 1-594.....	133163
2-639.....	231711	490.91.....	132034	731.91.....	134844	ZM 1-595.....	137191
2-640.....	234859	4-903.....	130282	7-356.....	234476	ZM 1-596.....	133166
2-689.....	132423	492.91.....	134402	7-361.....	233873	ZM 1-596.91.....	134402
2-699.....	231977	492.96.....	134402	7-395.....	231479	ZM 1-597.....	132025
2-708.....	332356	495.91.....	231268	7-395.91.....	233074	ZM 1-608.....	137404
2-735.....	233852	496.91.....	231766	7-452.....	139209	ZM 1-608.....	237404
2-762.....	231179	497.91.....	231765	7-456.....	131369	ZM 1-613.....	133531
2-775.91.....	138004	4-993.....	139537	7-459.....	131361	ZM 1-615.....	131787
2-777.....	136779	521.96.....	131335	7-460.....	230198	ZM 1-639.....	230904
2-777.91.....	132779	522.96.....	130479	7-461.....	131349	ZM 1-640.....	231801
2-818.....	333845	525.96.....	132778	761.96.....	138497	ZM 1-640.....	333493
2-981.....	133749	531.91.....	134844	771.91.....	131338	ZM 1-640.91.....	131319
2-993.....	233709	538.85.....	131318	773.91.....	131337	ZM 1-650.....	130367
2-993.91.....	231860	538.91.....	131318	775.91.....	138004	ZM 1-653.....	236645
3-381.....	333243	5-382.....	335353	777.91.....	132779	ZM 1-690.96.....	133287
3-381.....	336353	539.91.....	133447	7-773.91.....	137815	ZM 1-691.....	132763
3-395.....	138477	5-395.....	231822	778.91.....	139213	ZM 1-695.....	137813
3-408.....	237517	5-395.....	133780	785.96.....	133780	ZM 1-695.96.....	232225
3-409.....	335383	5-407.....	235699	792.96.....	231107	ZM 1-698.....	133049

# STARTER COMPONENTS

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O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>ZM Continued</b>							
ZM 1-698.96.....	133285	ZM 3-494.....	135390	ZM 462.....	139337	ZM 561.91.....	131323
ZM 1-710.96.....	139604	ZM 3-497.....	238193	ZM 4-639.....	233933	ZM 5-619.....	134457
ZM 1-719.....	232200	ZM 356.....	234476	ZM 464.....	231922	ZM 5-651.....	230325
ZM 1-719.96.....	138819	ZM 3-579.....	134042	ZM 4-651.....	132227	ZM 567.....	331019
ZM 1-731.....	130302	ZM 3-595.....	230809	ZM 468.....	231926	ZM 5-698.....	133049
ZM 1-731.....	130302Z	ZM 3-595.96.....	139601	ZM 4-698.....	133049	ZM 571.....	130476
ZM 1-760.....	136632	ZM 361.....	233873	ZM 472.....	137696	ZM 571.91.....	131338
ZM 1-761.....	138496	ZM 362.....	233869	ZM 473.....	137175	ZM 573.....	131586
ZM 1-761.96.....	138497	ZM 3-639.....	237753	ZM 473.91.....	138003	ZM 573.....	333146
ZM 1-762.....	231178	ZM 3-639.....	333478	ZM 4-744.....	130806	ZM 573.91.....	131337
ZM 1-777.....	136369	ZM 3-640.....	138313	ZM 475.....	136036	ZM 574.....	131791
ZM 1-782.....	133054	ZM 3-651.....	133566	ZM 475.....	335489	ZM 574.91.....	132279
ZM 1-833.....	233584	ZM 3-674.....	138257	ZM 475.91.....	136108	ZM 575.....	131143
ZM 1-840.....	333002	ZM 3-698.....	333844	ZM 4-760.....	231179	ZM 575.....	333147
ZM 1-855.....	136170	ZM 3-708.....	334034	ZM 477.96.....	138004	ZM 575.....	333665
ZM 1-860.....	137370	ZM 371.....	138877	ZM 4-773.....	131586	ZM 575.91.....	131315
ZM 1-860.96.....	232226	ZM 371.....	333149	ZM 4-773.....	333146	ZM 576.....	130474
ZM 1-891.....	333848	ZM 371.91.....	137349	ZM 4-773.91.....	131337	ZM 576.91.....	131337
ZM 1-894.96.....	133286	ZM 3-719.....	333843	ZM 479.....	139498	ZM 5-773.....	233480
ZM 1-897.....	335052	ZM 372.....	139075	ZM 479.....	333592	ZM 5-773.91.....	139598
ZM 1-897.96.....	137870	ZM 372.91.....	231802	ZM 479.91.....	138004	ZM 578.....	130475
ZM 1-974.....	335654	ZM 3-722.....	234858	ZM 4-792.....	138012	ZM 578.91.....	131847
ZM 1-975.....	137276	ZM 373.....	230848	ZM 4-793.....	138011	ZM 580.....	130476
ZM 1-975.....	333141	ZM 373.91.....	234437	ZM 490.....	135390	ZM 580.91.....	131338
ZM 1-976.....	133422	ZM 374.....	139019	ZM 490.91.....	132034	ZM 585.....	133045
ZM 1-981.....	133750	ZM 374.91.....	231815	ZM 4-903.....	130282	ZM 590.....	136255
ZM 1-982.....	132423	ZM 376.....	230115	ZM 491.....	132976	ZM 590.91.....	136367
ZM 1-993.....	235495	ZM 376.....	333999	ZM 492.....	132977	ZM 591.....	136255
ZM 1-993.96.....	333935	ZM 376.91.....	231828	ZM 492.91.....	134402	ZM 592.....	133532
ZM 2-371.....	230356	ZM 3-773.....	139018	ZM 492.96.....	134402	ZM 593.....	133534
ZM 2-371.....	333157	ZM 3-773.91.....	131315	ZM 495.....	139476	ZM 594.....	133533
ZM 2-371.91.....	233075	ZM 3-775.91.....	138004	ZM 495.91.....	231268	ZM 595.....	131171
ZM 2-391.....	333964	ZM 378.....	137879	ZM 496.....	232012	ZM 595.91.....	132033
ZM 2-395.....	231990	ZM 378.....	333565	ZM 496.91.....	231766	ZM 596.....	232011
ZM 2-395.91.....	233968	ZM 378.91.....	231558	ZM 497.....	231610	ZM 597.....	131584
ZM 2-397.91.....	239076	ZM 379.....	137879	ZM 497.91.....	231765	ZM 597.91.....	132826
ZM 2-407.....	333847	ZM 379.....	333565	ZM 4-993.....	139537	ZM 598.....	137300
ZM 2-408.....	333846	ZM 379.....	335000	ZM 521.....	130468	ZM 598.91.....	232010
ZM 2-409.....	230186	ZM 379.91.....	234439	ZM 521.96.....	131335	ZM 599.....	132977
ZM 2-452.....	231913	ZM 3-805.....	231927	ZM 522.....	131790	ZM 599.....	335389
ZM 2-456.....	231917	ZM 381.....	333996	ZM 522.96.....	130479	ZM 599.91.....	134402
ZM 2-460.....	231919	ZM 3-898.....	335219	ZM 524.....	133636	ZM 602.....	133076
ZM 2-461.....	231920	ZM 3-903.....	130281	ZM 525.....	133141	ZM 605.....	230018
ZM 2-471.91.....	131338	ZM 391.....	334128	ZM 525.96.....	132778	ZM 605.96.....	232009
ZM 2-473.....	137613	ZM 395.....	138444	ZM 526.....	130470	ZM 606.....	136983
ZM 2-475.....	136615	ZM 396.....	235383	ZM 527.....	234857	ZM 607.....	137023
ZM 2-479.....	231653	ZM 397.....	237977	ZM 528.....	135358	ZM 608.....	232003
ZM 2-491.....	234969	ZM 397.91.....	237978	ZM 531.....	130302	ZM 608.96.....	232005
ZM 2-494.....	235106	ZM 3-978.....	333842	ZM 531.91.....	134844	ZM 609.....	232004
ZM 2-496.....	236269	ZM 3-981.....	135008	ZM 538.....	130301	ZM 610.....	131248
ZM 2-498.....	237686	ZM 3-993.....	239823	ZM 538.....	130301Z	ZM 610.96.....	131275
ZM 2-571.....	130476	ZM 401.....	130493	ZM 538.85.....	131318	ZM 611.....	131247
ZM 2-571.91.....	131338	ZM 404.....	230964	ZM 538.91.....	131318	ZM 612.....	130855
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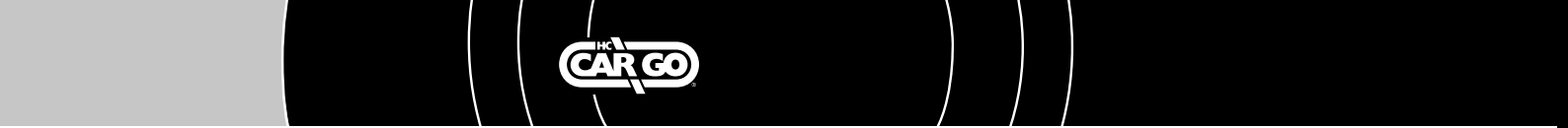


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