

**Armatures**
**12 Volt**

**130551** Armature

Replacing: 1961320, 1952530, 1945906, 1852530

Servicing: 40MT, 10461041, 10461045, 10461046, 10461048, 10461059, 10461060, 10461061, 1114047, 1114051, 1114052, 1114054, 1114055

Shaft length 467.00,  
Core thickness 85.00, No./ splines 19


**130552** Armature

Replacing: 1967045, 1948999, 1946391

Servicing: 35MT, 1113389, 1113392, 1113402, 1113411, 1113412, 1113548, 1113626, 1113633, 1113634, 1113635, 1113636, 1113637

Shaft length 394.00,  
Core thickness 85.00,  
No./ splines 3, Rotation CR  
*Short shaft.*


**131122** Armature

Replacing: 3471555

Servicing: 150, 163, 168, 172, 177, 3471150, 3471159, 3471163, 3471168, 3471171, 3471172, 3471177, 3471390, 3471393

0.7 kW, Shaft length 223.50,  
Core thickness 58.00, No./ splines 12  
*Spacer: HC-CARGO 136846.*


**131137** Armature

Replacing: d4123, 1967042, 1948691, 1942244, 1935259, 1932872

Servicing: 30MT, 1113002, 1113003, 1113004, 1113005, 1113041, 1113059, 1113089, 1113100, 1113101, 1113111, 1113113, 1113114

Shaft length 355.60,  
Core thickness 85.00, No./ splines 6


**131168** Armature

Replacing: 1876429, 1851961

Servicing: 35MT, 1113391, 1113396, 1113397, 1113399, 1113400, 1113401, 1113404, 1113405, 1113413, 1113414, 1113416, 1113417

Shaft length 402.30,  
Core thickness 85.00, No./ splines 3  
*Long shaft.*


**131174** Armature

Replacing: d4109, 1958949, 1954448, 1938178

Servicing: 10MT, 10455304, 10455355, 1107215, 1107224, 1107245, 1107251, 1107291, 1107300, 1107326, 1107344, 1107364, 1107378

Shaft length 299.70,  
Core thickness 69.00, No./ splines 6


**131354** Armature

Replacing: 1987175, 1985249

Servicing: 37TM, 10461169, 10478805, 10478806, 10478825, 10478890, 10478921, 10478927, 10478928, 10478929, 10478930, 10478949

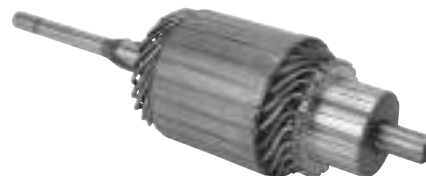
Shaft length 392.10,  
Core thickness 85.00,  
No./ splines 3, Rotation CR


**131365** Armature

Replacing: 1987989, 1887989

Servicing: 42MT, 10478801, 10478802, 10478803, 10478804, 10478809, 10478810, 10478824, 10478894, 10478918, 10478931, 10478932

Shaft length 451.00,  
Core thickness 86.00, No./ splines 19


**131400** Armature

Replacing: d4159, d4143, d4124, d4121, d4111, 1979792, 1978517, 1970548, 1970538, 1965724, 1940624, 1940548

Servicing: 10MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455315, 10455335

Shaft length 281.00,  
Core thickness 74.00,  
No./ splines 3, Rotation CR  
*High torque.*


**131401** Armature

Replacing: d4125, d4122, d4119, 830842, 830540, 1992258, 1978449, 1971568, 1971563, 1966288, 1966228, 1966224

Servicing: 8MT, 1107233, 1107237, 1107242, 1107247, 1107248, 1107259, 1107260, 1107266, 1107274, 1107293, 1107298, 1107301

Shaft length 282.00,  
Core thickness 69.00,  
No./ splines 3, Rotation CR


**131402#** Armature

Replacing: d4126, 1893269

Servicing: 5MT, 1109521, 1109523, 1109524, 1109526, 1109528, 1109530

Shaft length 281.00,

Core thickness 62.00, No./ splines 3


**131403** Armature

Replacing: d4128, 1974786, 1893449, 1875835

Servicing: 25MT, 1109186, 1109212, 1109213, 1109214, 1109215, 1109216, 1109218, 1109219, 1109495, 1109563, 1113589, 1113590

Shaft length 327.00,

Core thickness 74.00,

No./ splines 3, Rotation CR


**131627** Armature

Replacing: 1960866, 1876366, 1846614

Servicing: 20MT, 1107556, 1107573, 1107574, 1107577, 1107587, 1107588, 1107589, 1107598, 1107599, 1107863, 1107866, 1107867

Shaft length 335.00,

Core thickness 74.00,

No./ splines 6, Rotation CR


**131658** Armature

Replacing: 1956918, 1950417, 1949190, 1930812, 1891916

Servicing: 20MT, 25MT, 10455500, 1107506, 1107510, 1107511, 1107512, 1107514, 1107515, 1107516, 1107522, 1107523, 1107527, 1107534

Shaft length 335.00,

Core thickness 74.00, No./ splines 6


**131659** Armature

Replacing: 1950307

Servicing: 10MT, 1107203, 1107204, 1107205, 1107234, 1107249, 1107268, 1107290, 1107292, 1107295, 1107308, 1107332, 1107335

Shaft length 301.00,

Core thickness 69.00, No./ splines 6


**132685** Armature

Replacing: d4148, d4140, d4136, d4135, 1985138, 10499097, 10497046, 10495931, 10467708, 10467325, 10456406

Servicing: 5MT, 10455004, 10455007, 10455010, 10455011, 10455016, 10455017, 10455018, 10455019, 10455020, 10455023, 10455025

Shaft length 254.00, Core thickness 62.00,

No./ splines 3, Rotation CR


**132686** Armature

Replacing: 1956422, 1947353

Servicing: 10MT, 1107228, 1107229, 1107275, 1107341, 1107386, 1107390, 1107744, 1107782, 1108291, 1108299, 1108321, 1108334

Shaft length 300.60, Core thickness 68.70,

No./ splines 6, Rotation ACR


**132729** Armature

Replacing: 1878400, 10499230, 10495881, 10471537, 10467582, 10456405

Servicing: 5MT, SD210, SD260, 10455001, 10455006, 10455008, 10455009, 10455012, 10455013, 10455015, 10455024, 10455042, 10455045

Shaft length 256.58, Core thickness 62.28,

No./ splines 3, Rotation CR


**133147** Armature

Replacing: 3471797, 3471767, 3471634

Servicing: 153, 155, 164, 169, 173, 174, 3471153, 3471155, 3471164, 3471169, 3471170, 3471173, 3471174, 3471175, 3471377, 3471850

0.8/0.9/1/1.4 kW, Shaft length 227.60,

Core thickness 58.00, No./ splines 12,

Rotation CR


**133850** Armature

Replacing: D4161, 10456466

Servicing: 28MT, 10465054, 10479606, 10479607, 10479613, 10479614, 10479615, 10479617, 10479618, 10479619, 10479620, 10479621

Shaft length 177.70, Core thickness 60.10,

No./ teeth 8, Rotation CR/ACR


**135786** Armature

Replacing: 1975073, 1929404, 1891404, 1851550

Servicing: 10MT, 10455316, 10455317, 10455318, 10455321, 10455322, 10455324, 10455325, 10455326, 10455327, 10455328, 10455329

Shaft length 300.50, Core thickness 74.30,

No./ splines 6, Rotation CR


**135939** Armature

Replacing: 801662

Servicing: 10MT, 1108440, 1108511, 1109430, 1109595, 1998305, 1998324

Shaft length 300.60, Core thickness 68.50,

No./ splines 6, Rotation CR



**137485** Armature

Replacing: 1949243

Servicing: 10MT, 1107194, 1107771, 1107877, 1109398, 1109422, 1109429, 1109434, 1109498, 1109552, 1109569, 1109570, 1109572

Shaft length 300.70, Core thickness 74.40, No./ splines 6, Rotation CR



**230388** Armature

Replacing: 10487126, 10475990, 10475100, 10451976

Servicing: PG150, PG260F1, 09000794, 09000801, 10455506, 9000795, 9000817, 9000824, 96208785

1.4 kW, Shaft length 128.00, Core thickness 54.00, No./ teeth 16, Rotation CR



**230603#** Armature

Servicing: PG150, 21020545, 21020957, 9000772, 9000785, 9000791

Shaft length 131.30, Core thickness 54.00, No./ teeth 16, Rotation CR



**230604** Armature

Replacing: 10475588

Servicing: PG260M, 8000321, 9000786, 9000798, 9000804, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000834

Shaft length 121.00, Core thickness 53.00, No./ teeth 12, Rotation CR



**231471** Armature

Replacing: 10492437

Servicing: 12560972, 22506694, 9000836, 9000837, 9000841, 9000842, 9000854, 9000857, 9000858

1.7/2 kW, Shaft length 143.55, Core thickness 54.00, No./ teeth 11, Rotation CR/ACR



**232890** Armature

Replacing: 10473852

Servicing: 41MT, 10478812, 10478818, 10478897, 10478926, 10478999, 10479023, 10479060, 10479061, 10479071, 10479215

Shaft length 390.90, Core thickness 84.60, No./ teeth 20



**233960** Armature

Replacing: 10511758

Servicing: 39MT, 19011506, 19011508, 19011510, 19011513, 19011514, 19011515, 19011516, 19011517, 19011518, 19011519, 19011521

6.2 kW, Shaft length 197.20, Core thickness 76.20, No./ teeth 20  
Gear reduction.



**238624** Armature

Servicing: 8000180, 9000902, 9000934, 9000967, 96550792

Shaft length 109.20, Core thickness 45.45, No./ teeth 10, Rotation CR

**24 Volt**



**130553** Armature

Replacing: 1951254

Servicing: 50MT, 10478846, 10478853, 10478862, 1109294, 1109299, 1109494, 1109497, 1109632, 1109633, 1109635, 1109641, 1109644

Shaft length 532.00, Core thickness 97.00, No./ splines 19  
Long shaft.



**130554** Armature

Replacing: 1953233, 1945840

Servicing: 50MT, 10478800, 10478843, 10478844, 10478845, 10478848, 10478849, 10478850, 10478851, 10478852, 10478854, 10478855

Shaft length 482.60, Core thickness 96.00, No./ splines 19, Rotation CR  
Short shaft.



**130923** Armature

Replacing: 1948508, 1948506, 1945500

Servicing: 40MT, 10461047, 1113818, 1113824, 1113825, 1113827, 1113830, 1113831, 1113832, 1113840, 1113842, 1113845, 1113846

Shaft length 466.50, Core thickness 85.00, No./ splines 19



**131350** Armature

Replacing: 1988435

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478820, 10478836, 10478839, 10478892

Shaft length 451.00, Core thickness 84.00, No./ splines 19, Rotation CR



**131359** Armature

Replacing: 1988322

Servicing: 37TM, 10478811, 10478814, 10478819, 10478826, 10478960, 10478976, 10479020, 1990330, 1990331, 1990332, 1990499, 1993701

Shaft length 392.10, Core thickness 85.00, No./ splines 3, Rotation CR



**131661** Armature

Replacing: 1967295, 1967044, 1949112, 1948600, 1948464

Servicing: 35MT, 1113172, 1113353, 1113366, 1113370, 1113371, 1113372, 1113375, 1113378, 1113379, 1113384, 1113385, 1113386

Shaft length 431.30, Core thickness 85.00, No./ splines 19



**135089** Armature

Replacing: 10457622, 10457117

Servicing: 28MT, 10461470, 10479600, 10479604, 10479605, 10479608, 10479611, 10479612, 10479616, 10479623, 10479626, 10479627

Shaft length 177.50, Core thickness 60.10, No./ teeth 8, Rotation CR/ACR



**232891** Armature

Replacing: 10472559

Servicing: 41MT, 10478815, 10478817, 10478898, 10478925, 10478961, 10479013, 10479024, 1993995

Shaft length 391.45, Core thickness 84.60, No./ teeth 19



**333058** Armature

Replacing: 10511750

Servicing: 19011507, 19011509, 19011511, 19011512, 19011522, 19011523, 19011524, 19011527, 8200009, 8200022, 8200039, 8200086

Shaft length 197.20, Core thickness 76.20, No./ teeth 20

**Armature Parts**

**Various**

Pkg. 5



**136846** Spacer

Servicing: 150, 163, 168, 172, 177, 3471150, 3471163, 3471168, 3471171, 3471172, 3471177, 3471390, 3471393, 3471555

ID 17.20, OD 20.90, Height 14.90

**Yokes w/magnets**

**12 Volt**



**231328** Yoke

Replacing: 10475597

Servicing: PG260, 8000032, 8000321, 9000786, 9000798, 9000819, 9000820, 9000821, 9000822, 9000834, 9000835, 9000850, 9000851

OD/ middle 73.55, Length 50.00/1.969", Brush gear w/o, Magnets w/



**232844#** Yoke

Replacing: 10476433, 10475996

Servicing: PG260F1, 09000794, 09000801, 9000795, 9000817, 9000824

12 V, OD/ middle 73.00, Length 97.00/3.819", Brush gear w/o, Magnets w/

**Field Cases**



**232402** Field Case

Replacing: 10456473

Servicing: 28MT, 10479604, 10479606, 10479607, 10479613, 10479615, 10479617, 10479618, 10479619, 10479620, 10479628, 1113269

12 V, OD/ middle 90.30, Length 140.90, Brush gear w/o, Magnets w/o  
Field coil only: HC-CARGO 134836.



**232403** Field Case

Replacing: 10457118

Servicing: 28MT, 10479600, 10479605, 10479608, 10479611, 10479612, 10479616, 10479623, 1113272, 1113277, 1113291

24 V, OD/ middle 90.60, Length 105.35, Brush gear w/o, Magnets w/o  
Field coil only: HC-CARGO 135610.


**235698** Field Case

Servicing: 19011506, 19011508, 19011510, 19011513, 19011514, 19011515, 19011516, 19011517, 19011518, 19011519, 19011521, 19011525


**237832** Yoke

Servicing: 19011501, 19011507, 19011509, 19011511, 19011512, 19011522, 19011523, 19011524, 19011527, 19024196, 8200009, 8200022

24 V, 6.2 kW, OD/ middle 105.30, Length 108.20, Rotation CR, Magnets w/o

### Field Coils


**232868#** Field Coil

Replacing: 1945916

Servicing: 50MT, 10478851, 10478854, 10478858, 10478874, 10478876, 10478885, 10479002, 1109220, 1109224, 1109275, 1109277, 1109278  
24/32 V, Height 159.60, Width 341.00, Internal height 131.40, Inner width 27.40, Rotation CR  
Terminal: HC-CARGO 230797.


**232879#** Field Coil

Replacing: 1852026

Servicing: 35MT, 1113393, 1113400, 1113403, 1113405, 1113406, 1113407, 1113414, 1113415, 1113416, 1113417, 1113418, 1113420  
20/24 V, Height 157.00, Width 275.30, Internal height 110.30, Inner width 33.00

### 12 Volt


**131123#** Field Coil

Replacing: 3471879, 3471565

Servicing: 163, 177, 3471150, 3471157, 3471159, 3471163, 3471168, 3471171, 3471177, 3471390

12 V, 0.7 kW, Height 80.40, Width 186.40, Internal height 49.20, Inner width 25.35


**131366** Field Coil

Replacing: 1988111

Servicing: 42MT, 10478801, 10478802, 10478803, 10478804, 10478809, 10478810, 10478824, 10478894, 10478918, 10478931, 10478932

12 V, Internal height 110.45, Inner width 33.90


**132392** Field Coil

Replacing: 1960853

Servicing: 20MT, 25MT, 1107556, 1107573, 1107574, 1107577, 1107587, 1107588, 1107598, 1107599, 1107863, 1107866, 1107867, 1107868

12 V, Height 137.35, Width 249.15, Internal height 99.80, Inner width 31.70


**132691** Field Coil

Replacing: d4264, d4227, d4223, 1977306, 1976129, 1965730, 1965048, 1877306, 10496643, 10470770

Servicing: 10MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455314, 10455315

12 V, Height 104.70, Width 252.45, Internal height 65.20, Inner width 31.65


**132692#** Field Coil

Replacing: 1957375

Servicing: 10MT, 10455304, 10455355, 1107203, 1108421, 1998281

12 V, Height 87.85, Width 236.00, Internal height 54.30, Inner width 33.20  
High torque.


**132693#** Field Coil

Replacing: d4218, 1945350

Servicing: 30MT, 1113059, 1113089, 1113100, 1113111, 1113112, 1113114, 1113119, 1113121, 1113126, 1113136, 1113138, 1113139

12 V, Height 124.55, Width 295.25, Internal height 77.45, Inner width 36.40


**134836#** Field Coil

Servicing: 28MT, 10465054, 10479615, 10479621, 1113267, 1113270, 1113273, 1113276, 1113281, 1113282, 1113285, 1113296

12 V, Height 99.55, Width 224.55, Internal height 55.30, Inner width 21.15


**135245** Field Coil

Servicing: 150, 163, 168, 172, 3471150, 3471163, 3471168, 3471171, 3471172, 3471390, 3471393

12 V, 0.7 kW, Height 80.25, Width 188.20, Internal height 48.85, Inner width 22.75  
Small pole shoe.



**135338** Field Coil

Replacing: 1988951, 1986819, 1986457, 1978123, 1956384, 1956348, 1955951, 1891918  
 Servicing: 20MT, 27MT, 1107506, 1107508, 1107509, 1107510, 1107511, 1107512, 1107514, 1107516, 1107517, 1107518, 1107519, 1107520  
 12 V, Height 130.40, Width 243.90, Internal height 100.90, Inner width 31.85



**138136#** Field Coil

Replacing: 1891565d, 1891565  
 Servicing: 8MT, 10MT, 1107237, 1107247, 1107248, 1107259, 1107260, 1107301, 1107302, 1107306, 1107320, 1107335, 1107370, 1107374  
 12 V, Height 90.30, Width 250.85, Internal height 54.50, Inner width 34.30



**230428** Field Coil

Replacing: 1893754, 1893277, 10499208  
 Servicing: 5MT, 10455004, 10455006, 10455007, 10455016, 10455017, 10455018, 10455019, 10455023, 10455024, 10455055, 10465018  
 12 V, Height 88.50, Internal height 62.60, Inner width 25.55



**232866#** Field Coil

Replacing: 1977661, 1945883  
 Servicing: 40MT, 1114059, 1114062, 1114075, 1114093, 1114100, 1114104, 1114106, 1114123, 1114155, 1114177, 1114183, 1114665  
 12 V, Height 146.00, Width 282.40, Internal height 110.85, Inner width 34.40, Rotation ACR



**232874** Field Coil

Replacing: 1988863  
 Servicing: 42MT, 10478968, 10478971, 10478978, 10479007, 1990365, 1990380, 1990395, 1990430, 1990439, 1990442, 1990486, 1990494  
 12 V, Height 152.00, Width 306.70, Internal height 110.80, Inner width 34.50, Rotation ACR



**235740** Field Coil

Servicing: 19011506, 19011508, 19011510, 19011513, 19011514, 19011515, 19011516, 19011517, 19011518, 19011519, 19011521, 19011525  
 12 V, Height 108.50, Internal height 66.05, Inner width 27.50

**24 Volt**



**130495** Field Coil

Replacing: 1974929, 1974778, 1971839, 1949109, 1945496, 1945109, 1846926  
 Servicing: 40MT, 10461045, 10461046, 10461047, 10461059, 10461060, 1109621, 1113172, 1113386, 1113389, 1113392, 1113396, 1113397  
 12/24 V, Height 139.70, Width 261.55, Internal height 110.85, Inner width 33.55



**130496** Field Coil

Replacing: 1945853  
 Servicing: 50MT, 10478800, 10478843, 10478844, 10478845, 10478846, 10478848, 10478849, 10478850, 10478852, 10478853, 10478855  
 24 V, Height 174.65, Width 311.10, Internal height 130.60, Inner width 26.65



**130954#** Field Coil

Replacing: 1948098, 1948078, 1946386  
 Servicing: 35MT, 1113353, 1113366, 1113367, 1113368, 1113370, 1113371, 1113372, 1113373, 1113375, 1113376, 1113377, 1113378  
 12/24 V, Height 141.85, Width 285.15, Internal height 110.00



**131351** Field Coil

Replacing: 1988442  
 Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478820, 10478893, 10478937, 10478938  
 24 V, Height 144.60, Width 280.80, Internal height 110.75, Inner width 33.55



**131360** Field Coil

Replacing: 1988328  
 Servicing: 37MT, 10478864, 1990330, 1990331, 1990332, 1990499, 1993701, 1993702, 1993707, 1993711, 1993723, 1993729, 1993732  
 24 V, Height 141.50, Internal height 88.10, Inner width 34.10



**135610** Field Coil

Servicing: 28MT, 10461470, 10479613, 10479623, 10479626, 10479627, 1113277, 19024204, DRX67095, DRX67131, DRX67149  
 24 V, Height 97.85, Internal height 55.80, Inner width 20.90


**232872** Field Coil

Replacing: d4257, 10469230

Servicing: 37MT, 10478811, 10478814, 10478819, 10478826, 10478960, 10478976, 10479020, 1993901, 1993902, 1993903, 1993905, 1993909

 24 V, Height 143.35,  
Internal height 91.90, Inner width 33.75

**232873** Field Coil

Replacing: 1988797

Servicing: 42MT, 10478836, 10478839, 10478892, 10478979, 10478981, 10479012, 1990381, 1990389, 1990436, 1990447, 1993784, 1993826

 24 V, Height 147.00, Width 282.00,  
Internal height 110.15,  
Inner width 32.80, Rotation ACR

**232877** Field Coil

Replacing: 10472563

Servicing: 37MT, 41MT, 10478815, 10478817, 10478898, 10478925, 10478953, 10478961, 10479013, 10479024, 1993995

 24 V, Height 143.35, Width 292.90,  
Internal height 89.60, Inner width 33.55

**C.E. Brackets**

**133019** C.E. Bracket

Replacing: d4307, 1977031, 1974157, 1941109, 1928966

Servicing: 10MT, 25MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312

*w/ bushing. Bushing: HC-CARGO 140181.*

**138699** C.E. Bracket

Replacing: d4303, 1951603, 1940385

Servicing: 20MT, 25MT, 1107185, 1107213, 1107218, 1107249, 1107253, 1107279, 1107297, 1107315, 1107336, 1107359, 1107369, 1107383

*w/ bushing.*

**230409** C.E. Bracket

Replacing: d4313, 10496330, 10467598

Servicing: 5MT, SD210, SD260, 10455001, 10455006, 10455008, 10455009, 10455012, 10455013, 10455015, 10455024, 10455042, 10455045

*w/ needle bearing.*

**230410** C.E. Bracket

Replacing: d4310, 1986973, 1978292

Servicing: 5MT, 10455004, 10455007, 10455010, 10455011, 10455016, 10455017, 10455018, 10455019, 10455020, 10455021, 10455022

*w/ bushing.*

**230544** C.E. Bracket

Replacing: 1988126, 10496573, 10495156

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803, 10478809


**230780** C.E. Bracket

Replacing: 10457036

Servicing: 28MT, 10461470, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479612, 10479613, 10479614, 10479615

ID 84.00


**230781** C.E. Bracket

Replacing: 10456467

Servicing: 28MT, 10465054, 10479611, 1113267, 1113269, 1113270, 1113295, 1113296

*w/ stud 1/4"-20.*

**232524** C.E. Bracket

Replacing: 10477932, 10476865, 10475581

Servicing: PG260M, 9000786, 9000798, 9000819, 9000820, 9000821, 9000822, 9000834, 9000850, 9000851, 9000853, 9000860, 9000866

ID 71.00

*Drain tube: HC-CARGO 138224.*

**232530** C.E. Bracket

Replacing: d3339, 10468709

Servicing: 37MT, 41MT, 10478805, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819, 10478925, 10478926

ID 128.50



**232565#** C.E. Bracket

Replacing: 1985315

Servicing: 37MT, 41MT, 1990308, 1990309, 1990310, 1990311, 1990312, 1990313, 1990315, 1990316, 1990317, 1990318, 1990319, 1990320

**D.E. Brackets**



**130511** D.E. Bracket

Replacing: 1970455, 1970454, 1969323, 1967454, 1961666, 1957847, 1957846, 1951189, 1949606, 1948452, 1946575

Servicing: 40MT, 50MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807



**133973#** D.E. Bracket

Servicing: 155, 3471155, 3471377



**134031** D.E. Bracket

Servicing: 150, 168, 172, 3471150, 3471168, 3471172, 3471393



**139137#** D.E. Bracket

Servicing: 174, 3471170, 3471174, 3471850



**139283** D.E. Bracket

Replacing: 1984590, 1984097

Servicing: 10MT, SD300, 10455301, 10455305, 10455306, 10455308, 10455343, 10455603, 10496873, 10496874, 1107781, 1108338, 1108427



**139285#** D.E. Bracket

Replacing: 1893268

Servicing: 5MT, 1109521, 1109524



**230110** D.E. Bracket

Replacing: 830845

Servicing: 10MT, 1108400, 1108755, 1108756, 1109481, 1109486, 1109487, 1109488, 1109489, 1109490, 1109492, 1998317, 1998318



**230542** D.E. Bracket

Replacing: 1988779, 1988438, 1988137

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478803, 10478804, 10478809, 10478810



**230570#** D.E. Bracket

Replacing: 1962932

Servicing: 10MT, 20MT, 22MT, 10455332, 1107308, 1108508, 1108696, 1109087, 1109422, 1998263, 1998297, 1998349



**230571#** D.E. Bracket

Replacing: 801227, 1969156, 1964056, 1962814

Servicing: 10MT, 1107293, 1107294, 1107298, 1107299, 1107316, 1107330, 1107354, 1107355, 1107361, 1107389, 1107396, 1107652



**230882#** D.E. Bracket

Replacing: 1984734, 1978282

Servicing: 5MT, SD200, 10455019, 10455020, 10455022, 10455023, 10455055, 1109530, 1109533, 1109537, 1109556, 1109562, 1109564



**230883** D.E. Bracket

Replacing: 1988851, 1986995, 1978851, 1977490

Servicing: 5MT, SD200, 10455016, 1109528, 1109535, 1998427, 1998524




**231244** D.E. Bracket

Replacing: 10476793

Servicing: PG260M, 9000798, 9000820, 9000822, 9000850

Needle bearing: HC-CARGO 140242.


**231245#** D.E. Bracket

Replacing: 10497193, 10457010

Servicing: PG200, -250, 9000719, 9000735, 9000762, 9000768, 9000789

Needle bearing: HC-CARGO 140242.


**231246** D.E. Bracket

Replacing: 10476596

Servicing: PG260M, 9000786, 9000819, 9000821, 9000851, 9000860, 9000899

Needle bearing: HC-CARGO 140242.


**231737#** D.E. Bracket

Replacing: 1963772

Servicing: 10MT, 20MT, 22MT, 10455324, 10455349, 1107335, 1107583, 1107592, 1107874, 1108443, 1108493, 1109418, 1109423, 1109439

Wet clutch.


**231739#** D.E. Bracket

Replacing: 1962599

Servicing: 10MT, 20MT, 22MT, 25MT, 10455325, 10455326, 10455327, 1107295, 1107875, 1108393, 1108423, 1108501, 1109097, 1109147


**231740#** D.E. Bracket

Replacing: 1986826

Servicing: 10MT, 20MT, 22MT, 25MT, 10455316, 10455320, 1107194, 1107205, 1107209, 1107229, 1107234, 1107249, 1107268, 1107292


**231742** D.E. Bracket

Replacing: 10457026

Servicing: 28MT, 10479605, 10479615, 10479616, 10479617, 10479621, 10479623, 10479634, 1113275, 1113276, 1113277, 1113278, 1113291


**231745** D.E. Bracket

Replacing: 10457170, 10457029

Servicing: 28MT, 10479600, 10479606, 10479615, 10479618, 10479629, 1113279, 1113280, 1113281, 1113282, 1113285


**231746#** D.E. Bracket

Replacing: 10475298, 10475284, 10467736

Servicing: SD210, 10455010, 10455025, 10455048, 10455053, 10455060


**231748** D.E. Bracket

Replacing: 10467626, 10456482

Servicing: SD260, 10455013, 10455042, 10455050, 10455070, 10465065

Needle bearing: HC-CARGO 140421.


**232050** D.E. Bracket

Replacing: 1970310, 1968122, 1967277, 1965529, 1876881

Servicing: 10MT, SD300, 10455300, 1107237, 1107242, 1107247, 1107248, 1107259, 1107260, 1107266, 1107301, 1107302, 1107306


**232493#** D.E. Bracket

Replacing: 1966232

Servicing: 10MT, 20MT, SD300, 10455333, 1107377, 1107378, 1108197, 1108693, 1109090, 1109091, 1998266, 1998267

Wet clutch.



**232500#** D.E. Bracket

Replacing: 1984098

Servicing: 10MT, SD300, 1107289, 1107338, 1107365, 1107388, 1107660, 1107687, 1107694, 1107711, 1107890, 1107892, 1108282, 1108299



**232501** D.E. Bracket

Replacing: 1987887

Servicing: 37MT, 10478805, 1990499, 1993756, 1993817, 1993838, 1993862, 1993879, 1993903, 1993919, 1993921, 1993954, 1993956



**232531#** D.E. Bracket

Replacing: 1986096, 1978850

Servicing: 5MT, SD200, 1109527, 1109534, 1998430, 1998466, 1998527, 1998548



**232533#** D.E. Bracket

Replacing: 1987662, 1893752

Servicing: 5MT, SD200, 10455007, 10455073, 1109523, 1109544, 1998453, 1998536



**232544#** D.E. Bracket

Replacing: 10469354

Servicing: 5MT, SD200, 10455044, 10455049



**232552#** D.E. Bracket

Servicing: PG260F1, 9000833, 9000847, 9000859

Needle bearing: HC-CARGO 140242.



**232553#** D.E. Bracket

Replacing: 10457142

Servicing: 28MT, 10479614, 1113284



**232955#** D.E. Bracket

Servicing: PG260F1, 9000839, 9000840



**232956#** D.E. Bracket

Servicing: PG260F2, 9000841, 9000858



**233684#** D.E. Bracket

Replacing: 801883

Servicing: 20MT, 22MT, 27MT, 1108694, 1109193, 1109559, 1998287, 1998348, 1998363



**233758** D.E. Bracket

Replacing: 10457359

Servicing: 10461470, 10479626, DRX67095, DRX67149

### I.M. Brackets



**230543** I.M. Bracket

Replacing: 1988998, 1988892, 1988436, 10477832

Servicing: 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478802, 10478931, 10478932, 10478933, 10478935

*Incl: bushing, seal, brake washer, o-ring, oil wick, oil cup, lever housing.*



**230678** I.M. Bracket

Replacing: 1962602

Servicing: 10455321, 10455322, 10455324, 10455325, 10455326, 10455331, 10455332, 10455333, 10455500, 1107295, 1107296, 1107297

*Wet clutch starters.*



**230679** I.M. Bracket

Replacing: 820149, 1986468, 10496109

Servicing: 10455317, 10455318, 10455319, 10455327, 10455336, 10455337, 10455339, 1107051, 1107071, 1107146, 1107179, 1107193



**230778** I.M. Bracket

Replacing: 10457037

Servicing: 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479612, 10479613, 10479614, 10479615, 10479616, 10479617



**230779#** I.M. Bracket

Replacing: 10456469

Servicing: 10465054, 10479611, 1113267, 1113269, 1113270, 1113295, 1113296



**230818#** I.M. Bracket

Replacing: 1979534, 1951069

Servicing: 10461046, 10461047, 10461061, 1113172, 1113353, 1113366, 1113372, 1113375, 1113385, 1113387, 1113393, 1113406, 1113408



**230821** I.M. Bracket

Replacing: 1988093, 10473716

Servicing: 10478801, 10478803, 10478804, 10478809, 10478810, 10478824, 10478839, 10478980, 10478986, 10478998, 10479052, 10479053



**231105** I.M. Bracket

Replacing: 10456470

Servicing: 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479614, 10479615

*Dry clutch.*



**232504#** I.M. Bracket

Replacing: 1979870, 1979598, 1953223, 1945857

Servicing: 10478800, 10478807, 10478808, 10478813, 10478827, 10478828, 10478829, 10478830, 10478846, 10478853, 10478862, 10478872



**232511#** I.M. Bracket

Replacing: 1979434

Servicing: 10461041, 10461045, 10461048, 10461059, 10461060, 1113378, 1113379, 1113384, 1113386, 1113403, 1113407, 1113445

### Solenoids

#### 12 Volt



**130493** Solenoid

Replacing: f903

12 V, Intermittent load 150 Amp., B+ 5/16" UNF, KI. 50 10-32 UNF, OD 42.30, Total length 62.30, Height/ B+ 15.00, Width/ kl. 50 10.50, Coil bolt 5/16" UNF, Coil bolt 2 15.00, No./ terminals 4



**130499** Solenoid

Replacing: d992, d982, d981, d978, d975, d974, d969, d967, d966, d965, d960, d958, d956, d952, d948, d943

Servicing: 10MT, 20MT, 25MT, 27MT, 10455308, 10455309, 10455310, 10455311, 10455322, 10455335, 1107201, 1107203, 1107204, 1107223

12 V, B+ 3/8" UNC, KI. 15a 8-32 UNC, KI. 50 8-32 UNC, ID/ cover 31.35, OD 59.80, OD/ cover 65.10,

Total length 122.15, Coil bolt 3/8" UNC, No./ terminals 4

Cap: HC-CARGO 130497.



**130500** Solenoid

Replacing: d980, d971, d970, d959, d954, 1119935, 1119933, 1119890, 1119885, 1119882, 1119877, 1119833

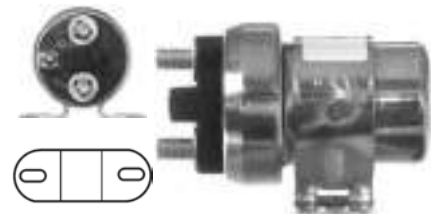
Servicing: 30MT, 35MT, 1113059, 1113066, 1113070, 1113075, 1113082, 1113083, 1113087, 1113088, 1113089, 1113090, 1113091, 1113092

12 V, B+ 3/8" UNC, KI. 15a 8-32 UNC, KI. 50 10-32 UNF, ID/ cover 32.25, OD 67.15, OD/ cover 62.90,

Total length 152.80, Height/ B+ 18.50, Width/ kl. 15a 15.50,

Width/ kl. 50 11.00, Coil bolt 3/8" UNC, Coil bolt 2 19.50, No./ terminals 4

Insulated return. Cap: HC-CARGO 130498.



**131080** Solenoid

Replacing: 19024764

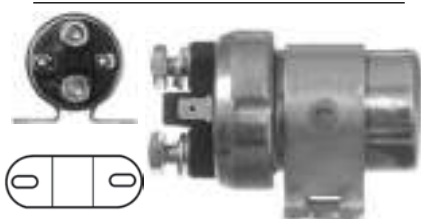
12 V, 50 Amp, Intermittent load 500 Amp., B+ M8, KI. 50 6.30, OD 39.70, Total length 86.40, Height/ B+ 12.25, Width/ kl. 50 9.55, Coil bolt M8, Coil bolt 2 12.25, Seconds 5, No./ terminals 3


**131119** Solenoid

Replacing: dr902, 3471982, 3471741, 3471693

Servicing: 3471143, 3471163

12 V, B+ M8, Kl. 15a 6.30, Kl. 50 6.30, ID/ cover 21.65, OD 51.00, OD/ cover 53.55, Total length 113.40, Height/ B+ 10.45, Width/ kl. 15a 14.20, Width/ kl. 50 14.20, No./ terminals 4  
Cap: HC-CARGO 130489. w/o plunger.


**131253** Solenoid

Replacing: 19024762

12 V, 60 Amp, Intermittent load 500 Amp., B+ M8, Kl. 50 6.30, OD 39.65, Total length 85.75, Height/ B+ 11.85, Width/ kl. 50 9.85, Coil bolt M8, Coil bolt 2 11.85, Seconds 5, No./ terminals 4


**131272** Solenoid

Replacing: dr903, 3491027, 3471977, 3471697

Servicing: 150, 163, 168, 172, 176, 3471150, 3471160, 3471163, 3471168, 3471171, 3471172, 3471176, 3471390, 3471393

12 V, B+ M8, Kl. 50 6.30, OD 51.60, OD/ cover 56.40, Total length 107.60, Height/ B+ 14.45, Width/ kl. 50 15.40, Coil bolt M8, Coil bolt 2 15.30, No./ terminals 4

Cap: HC-CARGO 133180. w/o plunger.


**131273** Solenoid

Replacing: dr904, 3471979, 3471929, 3471725

Servicing: 155, 169, 173, 174, 3471155, 3471162, 3471169, 3471170, 3471173, 3471174, 3471377, 3471850

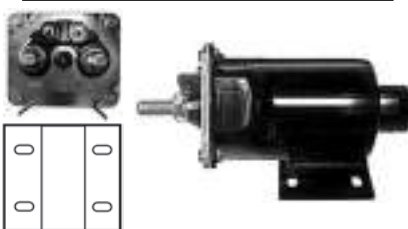
12 V, B+ M8, Kl. 50 6.30, OD 51.15, OD/ cover 54.45, Total length 107.25, Height/ B+ 15.80, Coil bolt M8, Coil bolt 2 15.80, No./ terminals 3  
Cap: HC-CARGO 133181.


**131356** Solenoid

Replacing: 1115591

Servicing: 37MT, 1990308, 1990319, 1990341

12 V, B+ 1/2" UNC, Kl. 50 10-32 UNF, ID/ cover 32.40, OD 68.55, OD/ cover 76.80, Total length 177.95, Coil bolt 3/8" UNC, No./ terminals 3  
Motor terminal: 3/8"-16. Cap: HC-CARGO 137810.


**131363** Solenoid

Replacing: 1119879, 1119853, 1115575, 1115565, 1115556

Servicing: 40MT, 50MT, 10461041, 10461045, 10461046, 10461048, 10461059, 10461060, 10461061, 10478813, 10478877, 10478881

12 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, OD 74.60, Total length 201.00, Height/ B+ 28.00, Width/ kl. 15a 9.00, Width/ kl. 50 9.00, Coil bolt 1/2" UNC, Coil bolt 2 18.00, No./ terminals 4

Insulated return. Square type. Cap: HC-CARGO 131367.


**131369** Solenoid

Replacing: 1115645, 1115593

Servicing: 42MT, 10478801, 10478802, 10478803, 10478804, 10478810, 10478894, 10478962, 10478964, 10478966, 10478967, 10478978

12 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, OD 68.80, OD/ cover 78.10, Total length 177.80, Height/ B+ 26.00, Width/ kl. 15a 12.50, Width/ kl. 50 12.50, Coil bolt 1/2" UNC, Coil bolt 2 17.50, No./ terminals 4  
Insulated return. Cap: HC-CARGO 135324.  
Solenoid w/ plunger: HC-CARGO 234476.


**131370** Solenoid

Replacing: 19024758

12 V, 80 Amp, Intermittent load 500 Amp., B+ M8, Kl. 50 6.30, OD 52.10, OD/ cover 45.20, Total length 101.75, Height/ B+ 17.50, Width/ kl. 50 10.65, Coil bolt M8, Coil bolt 2 17.50, Seconds 5, No./ terminals 4

Water proof. Silver contact. Insulated return.

Alternative no.: 333160


**131373Z** Solenoid

Replacing: 19024761

12 V, 150 Amp, Intermittent load 800 Amp., B+ M8, Kl. 15a 6.30, Kl. 50 6.30, OD 52.17, OD/ cover 43.36, Total length 102.10, Height/ B+ 17.34, Coil bolt M8, Coil bolt 2 17.34, Seconds 5, No./ terminals 4

Silver contact.

Alternative no.: 333153 , 131373



**131590** Solenoid

Replacing: d994, d991, d987, d984, d913a, 1114571, 1114569, 1114566, 1114564, 1114562, 1114557, 1114531

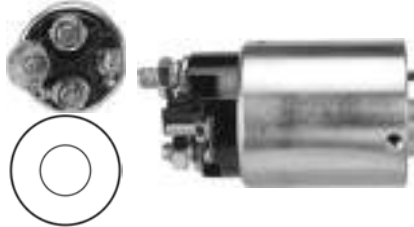
Servicing: 5MT, 22MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018, 10455019

12 V, B+ 3/8" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, ID/ cover 28.50, OD 59.90, OD/ cover 65.55,

Total length 105.25, Height/ B+ 14.50, Width/ kl. 15a 10.00,

Width/ kl. 50 10.00, Coil bolt 3/8" UNC, No./ terminals 4

Insulated return. Cap: HC-CARGO 137809.



**132944** Solenoid

Replacing: d936a, d922a, 10497275, 10468962, 10467421

Servicing: PG100, 150, 09000756, 21020892, 21020893, 21021366, 21021648, 9000719, 9000735, 9000751, 9000758, 9000762, 9000763

12 V, B+ M8, Kl. 50 M6, ID/ cover 24.10, OD 51.40, OD/ cover 44.35,

Total length 93.40, Height/ B+ 16.50,

Width/ kl. 50 10.00, Coil bolt M8,

Coil bolt 2 17.85, No./ terminals 3

Insulated return. Cap: HC-CARGO 139429.

Moving contact: HC-CARGO 139430.



**133852** Solenoid

Replacing: d930a, 10457055

Servicing: 28MT, 10479604, 10479613, 10479615, 10479619, 10479621, 1113273, 1113274, 1113275, 1113276, 1113278, 1113279, 1113280

12 V, B+ M10, Kl. 50 M5, OD 57.00, OD/ cover 57.00, Total length 175.00,

Height/ B+ 16.50, Width/ kl. 50 7.50,

Coil bolt M8, Coil bolt 2 11.00,

No./ terminals 3

Cap: HC-CARGO 134841. Terminal switch: M5.



**135461** Solenoid

Servicing: PG200PMGR, PG250PMGR, 9000762, 9000768, 9000796

12 V, B+ M10, Kl. 50 M5,

ID/ cover 24.30, OD 51.30,

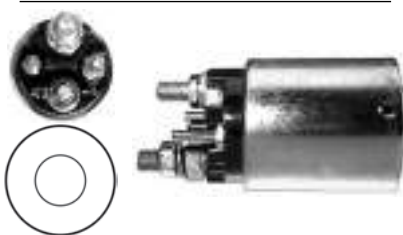
OD/ cover 44.60, Total length 104.85,

Height/ B+ 25.90, Width/ kl. 50 15.65,

Coil bolt M8, Coil bolt 2 18.40,

No./ terminals 3

Cap: HC-CARGO 139432.



**137339** Solenoid

Replacing: 1114581, 1114580, 10467985

Servicing: PG200, -250

12 V, B+ M10, Kl. 15a M5,

Kl. 50 M5, ID/ cover 24.50, OD 51.40,

OD/ cover 44.30, Total length 100.20,

Height/ B+ 20.00, Width/ kl. 15a 11.50,

Width/ kl. 50 12.50, Coil bolt M8,

Coil bolt 2 13.00, No./ terminals 4

Cap: HC-CARGO 233820.



**137370** Solenoid

Replacing: 1114583

Servicing: PG260F1, PG260M, 9000820,

9000821, 9000822, 9000840, 9000850,

9000879, 9000884, 9000885, 9000895,

9000899

12 V, B+ M8, Kl. 15a M5, Kl. 50 M5,

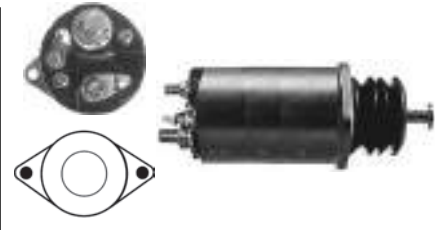
OD 52.50, Total length 123.90,

Height/ B+ 16.00, Width/ kl. 15a 11.00,

Width/ kl. 50 11.00, Coil bolt M8,

Coil bolt 2 16.00, No./ terminals 4

Cap: HC-CARGO 232226.



**137811** Solenoid

Replacing: 10456454

Servicing: 28MT, 10465054, 1113267,

1113269, 1113270, 1113295, 1113296

12 V, B+ M10, Kl. 50 M4, OD 56.90,

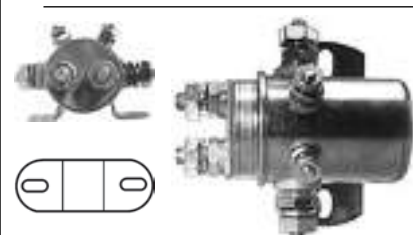
OD/ cover 57.20, Total length 174.00,

Height/ B+ 16.00, Width/ kl. 50 8.00,

Coil bolt M8, Coil bolt 2 11.00,

No./ terminals 3

Cap: HC-CARGO 137824.



**138068** Solenoid

Replacing: 1114534, 1114223

12 V, 200 Amp,

Intermittent load 900 Amp., B+ 5/16" UNF,

Kl. 50 10-32 UNF, OD 42.00,

Total length 89.35, Height/ B+ 12.00,

Width/ kl. 50 8.00, Coil bolt 5/16" UNF,

Coil bolt 2 12.00, Seconds 5,

No./ terminals 6

Silver contact.



**138217** Solenoid

Replacing: 1114587, 10475654, 10475646

Servicing: PG260, 10455513, 10455515,

22506694, 8000180, 9000775, 9000786,

9000798, 9000805, 9000806, 9000812,

9000819, 9000820

12 V, B+ M8, Kl. 50 M5, OD 52.50,

OD/ cover 46.40, Total length 124.20,

Height/ B+ 16.50, Width/ kl. 50 10.50,

Coil bolt M8, Coil bolt 2 16.50,

No./ terminals 3

Cap: HC-CARGO 138409. Moving contact: HC-CARGO 138410.




**139209** Solenoid

Replacing: d904a, 1115613, 1115609

Servicing: 37MT, 10478806, 10479036, 10479068, 1990309, 1990310, 1990313, 1990315, 1990316, 1990317, 1990320, 1990498, 1993705

12 V, B+ 1/2" UNC, KI. 50 10-32 UNF, ID/ cover 32.00, OD 68.75, OD/ cover 77.40, Total length 179.00, Height/ B+ 26.00, Coil bolt 1/2" UNC, No./ terminals 3

Cap: HC-CARGO232014.


**231912** Solenoid

Replacing: 1115598

Servicing: 42MT, 10478918, 10478965, 10478977, 10478984, 10478985, 10478991, 10479003, 1990369, 1990374, 1990380, 1990396, 1990401

12 V, B+ 1/2" UNC, KI. 15a 10-32 UNF, KI. 50 10-32 UNF, ID/ cover 31.80, OD 69.15, OD/ cover 76.10, Total length 176.80, Coil bolt 1/2" UNC, No./ terminals 4

Insulated return. Cap: HC-CARGO 232032.


**231913** Solenoid

Replacing: d917a, 1115623

Servicing: 37MT, 10478805, 10478927, 10478928, 10478929, 10478930, 10478957, 10479014, 10479015, 10479034, 10479054, 1993851

12 V, B+ 1/2" UNC, KI. 15a 10-32 UNF, KI. 50 10-32 UNF, ID/ cover 32.35, OD 69.00, OD/ cover 70.25, Total length 176.45, Width/ kl. 15a 11.70, Width/ kl. 50 15.95, Coil bolt 1/2" UNC, Coil bolt 2 9.15, No./ terminals 4

Cap: HC-CARGO 232025.


**231914** Solenoid

Replacing: 1115610

 Servicing: 37MT, 1993767, 1993854  
 12 V, B+ 1/2" UNC, KI. 50 10-32 UNF, ID/ cover 32.25, OD 68.85, OD/ cover 76.40, Total length 177.65, Coil bolt 1/2" UNC, No./ terminals 3

Cap: HC-CARGO 232028.


**231915** Solenoid

Replacing: d905a, 1115612

Servicing: 37MT, 1993790, 1993791, 1993792, 1993793, 1993799, 1993800, 1993818, 1993854

12 V, B+ 3/8" UNC, KI. 50 10-32 UNF, OD 68.50, OD/ cover 76.30, Total length 170.00, Height/ B+ 19.50, Width/ kl. 50 9.00, Coil bolt 1/2" UNC, Coil bolt 2 3.00, No./ terminals 3

Cap: HC-CARGO 232029.


**231916** Solenoid

Replacing: d923a, 1115618

Servicing: 37MT, 10461169, 10478953, 10479035, 10479069, 1993947, 1993969, 1993970, 1993974, 1993997

12 V, B+ 1/2" UNC, KI. 15a 10-32 UNF, KI. 50 10-32 UNF, ID/ cover 32.35, OD 68.85, OD/ cover 76.45, Total length 178.00, Width/ kl. 15a 15.25, Width/ kl. 50 15.70, Coil bolt 1/2" UNC, Coil bolt 2 10.50, No./ terminals 4

Insulated return. Cap: HC-CARGO 232030.


**231917** Solenoid

Replacing: d918a, 1115624

Servicing: 42MT, 10478931, 10478932, 10478933, 10478934, 10478935, 10478936, 10478951, 10478987, 10479004, 10479005, 10479006

12 V, B+ 1/2" UNC, KI. 15a 10-32 UNF, KI. 50 10-32 UNF, ID/ cover 32.80, OD 68.00, OD/ cover 76.30, Total length 178.35, Coil bolt 1/2" UNC, No./ terminals 4

Insulated return. Jump start protection cap.

Cap: HC-CARGO 232031.


**231921** Solenoid

Replacing: d942a, 1115643

Servicing: 37MT, 10478890, 10478921

12 V, B+ 1/2" UNC, KI. 15a 10-32 UNF, KI. 50 10-32 UNF, ID/ cover 32.80, OD 68.90, OD/ cover 76.50, Total length 183.00, Coil bolt 1/2" UNC, Coil bolt 2 10.50, No./ terminals 4

Insulated return. Cap: HC-CARGO 232035.

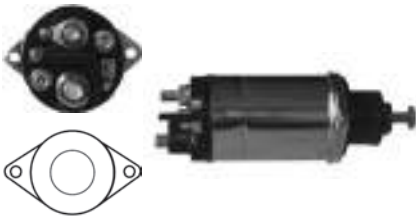

**231925** Solenoid

Replacing: d924a, 1115617

Servicing: 37MT, 1993866, 1993971

12 V, B+ 1/2" UNC, KI. 15a 10-32 UNF, KI. 50 10-32 UNF, ID/ cover 32.20, OD 68.75, OD/ cover 76.20, Total length 179.00, Coil bolt 1/2" UNC, Coil bolt 2 11.00, No./ terminals 4

Insulated return. Cap: HC-CARGO 232038.



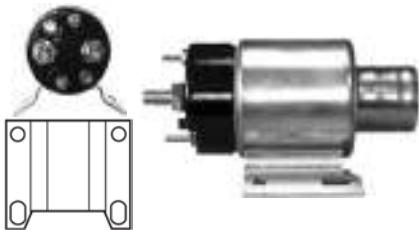
**231927** Solenoid

Replacing: d937a, 10478614, 10457601, 10457151, 10457061  
 Servicing: 28MT, 10479606, 10479607, 10479613, 10479614, 10479615, 10479617, 10479618, 10479620, 10479628, 10479648, 1113271  
 12 V, B+ M10, KI. 15a M5, KI. 50 M5, OD 57.00, OD/ cover 56.75, Total length 174.50, Height/ B+ 16.00, Width/ kl. 15a 10.00, Width/ kl. 50 7.00, Coil bolt M8, Coil bolt 2 15.75, No./ terminals 4  
 Relay terminal: M5.



**231929** Solenoid

Replacing: 10482844, 10476117  
 Servicing: PG150S, 10455506, 21020761, 9000794, 9000795, 9000817, 9000824, 96208781, 96208782, 96208785  
 12 V, B+ M8, KI. 50 M6, ID/ cover 25.15, OD 51.35, OD/ cover 49.50, Total length 127.00, Height/ B+ 15.30, Width/ kl. 50 10.00, Coil bolt M8, Coil bolt 2 14.50, No./ terminals 3  
 Cap: HC-CARGO 232052.



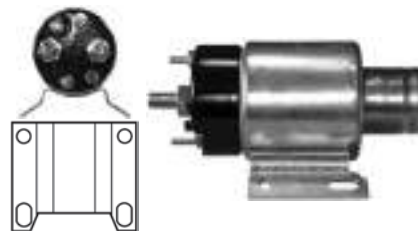
**232218** Solenoid

Replacing: 1115584, 1115541, 1115530  
 Servicing: 35MT ext. rotatable, 1113389, 1113391, 1113392, 1113396, 1113397, 1113399, 1113400, 1113401, 1113404, 1113405, 1113412  
 12 V, B+ 3/8" UNC, KI. 15a 8-32 UNC, KI. 50 8-32 UNC, ID/ cover 32.20, OD 66.00, OD/ cover 62.15, Total length 148.50, Height/ B+ 13.00, Width/ kl. 15a 13.50, Width/ kl. 50 10.50, Coil bolt 3/8" UNC, Coil bolt 2 15.50, No./ terminals 4  
 Insulated return. Cap: HC-CARGO 232217.



**232219** Solenoid

Replacing: d946a, 1114584, 1114576  
 Servicing: SD205, -255, 10455010, 10455011, 10455012, 10455013, 10455025, 10455026, 10455042, 10455047, 10455048, 10455051  
 12 V, B+ M8, KI. 50 M5, ID/ cover 28.45, OD 59.40, OD/ cover 65.80, Total length 105.50, Height/ B+ 15.00, Width/ kl. 50 10.00, Coil bolt 16.25, No./ terminals 3



**232221** Solenoid

Replacing: d985, d953, 1119883, 1115582, 1115537  
 Servicing: 30MT, 1113001, 1113006, 1113034, 1113038, 1113040, 1113049, 1113050, 1113052, 1113053, 1113056, 1113081, 1113104  
 12 V, B+ 3/8" UNC, KI. 15a 8-32 UNC, KI. 50 8-32 UNC, ID/ cover 32.05, OD 66.30, OD/ cover 62.15, Total length 148.00, Height/ B+ 13.00, Width/ kl. 15a 14.00, Width/ kl. 50 10.50, Coil bolt 3/8" UNC, Coil bolt 2 15.00, No./ terminals 4  
 Cap: HC-CARGO 232222.



**233133#** Solenoid

Replacing: 10498715  
 Servicing: 10455706, 10465038, 1998518, 1998545  
 12 V, B+ M10, KI. 50 M5, ID/ cover 22.40, OD 51.30, OD/ cover 45.00, Total length 136.00, Height/ B+ 17.50, Width/ kl. 50 15.00, Coil bolt M8, Coil bolt 2 13.00, No./ terminals 3



**233762** Solenoid

Servicing: 10455503, 96275481  
 12 V, B+ M8, KI. 50 M6, ID/ cover 24.90, OD 52.40, OD/ cover 45.55, Total length 128.60, Height/ B+ 13.20, Width/ kl. 50 9.70, Coil bolt M8, Coil bolt 2 12.95, No./ terminals 3



**234476** Solenoid

Replacing: 1115712, 1115701  
 Servicing: 42MT  
 12 V, B+ 1/2" UNC, KI. 15a 10-32 UNF, KI. 50 10-32 UNF, OD 69.00, OD/ cover 77.30, Total length 248.00, Height/ B+ 37.40, Width/ kl. 15a 17.65, Width/ kl. 50 16.60, Coil bolt 1/2" UNC, Coil bolt 2 28.50, No./ terminals 4  
 Insulated return. Cap: HC-CARGO 135324.



**235006** Solenoid

Replacing: 1114582, 1114578, 10469039  
 Servicing: 10455010, 10455011, 10455012, 10455013, 10455025, 10455026, 10455042, 10455047, 10455048, 10455051, 10455053, 10455054  
 12 V, No./ terminals 3



**235167** Solenoid

Servicing: 00e091, 110397, 112161, cer3087  
 12 V, B+ M8, KI. 50 M5, OD 55.48, Total length 135.00, Height/ B+ 19.06, Coil bolt M8, Coil bolt 2 19.00, No./ terminals 3  
 Cap: HC-CARGO 235403.


**235609** Solenoid

Replacing: 10511408

Servicing: 10461334, 10461753, 10461755, 10461757, 10461760, 10461773, 10461777, 19011505, 19011506, 19011508, 19011510, 19011513

12 V, B+ M12, Kl. 50 M5, OD 63.90, OD/ cover 63.90, Total length 218.00, Height/ B+ 32.50, Width/ kl. 50 12.80, Coil bolt M8, Coil bolt 2 23.00, No./ terminals 3


**236315** Solenoid

Servicing: 110566

12 V, B+ M8, Kl. 50 6.30, OD 55.40, OD/ cover 53.00, Total length 133.88, Switch dim. 7.50, Height/ B+ 14.00, Coil bolt M8, Coil bolt 2 13.00, No./ terminals 3


**238373** Solenoid

Servicing: 111089

12 V, B+ M8, Kl. 50 M6-6.30, OD 52.36, OD/ cover 50.55, Total length 108.54, Switch dim. 6.50, Height/ B+ 13.00, Coil bolt M8, Coil bolt 2 13.00, No./ terminals 3


**238620** Solenoid

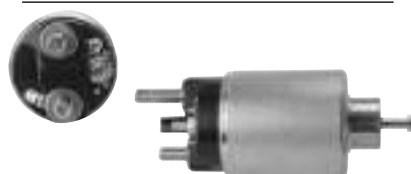
Servicing: 8000321, 9000936, 9000952, 9000965, 96450663, 96550792, 96569440, 96843574

12 V, B+ M8, Kl. 50 M6, OD 52.60, OD/ cover 49.90, Total length 120.75, Switch dim. 14.66, Height/ B+ 14.48, Width/ kl. 50 8.50, Coil bolt M8, Coil bolt 2 14.00, No./ terminals 3


**239321** Solenoid

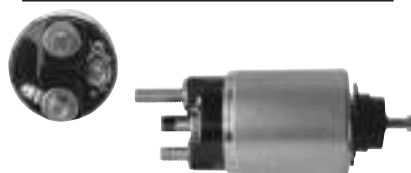
Servicing: 112816, 112847

12 V, B+ M8, Kl. 50 6.30, OD 52.55, Total length 120.40, Height/ B+ 15.00, Coil bolt M8, Coil bolt 2 14.00, No./ terminals 3


**330380** Solenoid

Servicing: 8000032

12 V, B+ M8, Kl. 50 M6, OD 52.56, OD/ cover 46.71, Total length 132.04, Height/ B+ 23.78, Width/ kl. 50 10.07, Coil bolt M8, Coil bolt 2 14.41, No./ terminals 3


**330657** Solenoid

Servicing: 8000048

12 V, B+ M8, Kl. 50 M6, OD 52.50, Total length 132.80, Height/ B+ 17.64, Width/ kl. 50 16.00, Coil bolt M8, Coil bolt 2 14.10, No./ terminals 3


**333153** Solenoid

Manufacturer: Bosch

Replacing: 19024761

 12 V, 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./ terminals 4  
 Silver contact. Insulated return.  
 Alternative no.: 131373, 131373Z

**24 Volt**

**130492** Solenoid

Replacing: 19024765

24 V, 50 Amp, Intermittent load 500 Amp., B+ M8, Kl. 50 6.30, OD 40.00, Total length 85.00, Height/ B+ 11.30, Width/ kl. 50 10.50, Coil bolt M8, Coil bolt 2 11.30, Seconds 5, No./ terminals 3


**131254** Solenoid

Replacing: 19024763

24 V, 50 Amp, Intermittent load 500 Amp., B+ M8, Kl. 50 6.30, OD 39.70, Total length 86.30, Height/ B+ 11.80, Width/ kl. 50 9.80, Coil bolt M8, Coil bolt 2 11.80, Seconds 5, No./ terminals 4

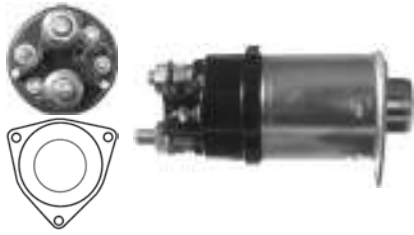

**131349** Solenoid

Replacing: 1115608, 1115601, 1115595

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478820, 10478839, 10478980, 10478981

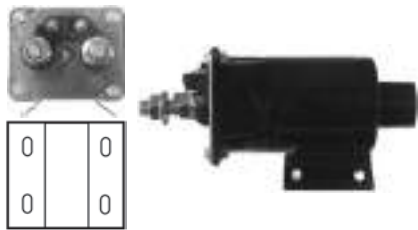
 24 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, OD 69.45, OD/ cover 77.00, Total length 159.55, Coil bolt 1/2" UNC, No./ terminals 4  
 Insulated return. Cap: HC-CARGO 135323.  
 Solenoid w/ plunger: HC-CARGO 233873.





**131361** Solenoid

Replacing: 1115605, 1115604, 1115594  
 Servicing: 37MT, 1990330, 1990331, 1990332, 1990499, 1993701, 1993702, 1993707, 1993711, 1993729, 1993732, 1993741, 1993742  
 24 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, ID/ cover 33.20, OD 68.75, OD/ cover 77.15, Total length 176.80, Coil bolt 1/2" UNC, No./ terminals 4  
*Insulated return. Cap: HC-CARGO 135323.*



**131364** Solenoid

Replacing: 1119832, 1115607, 1115576, 1115559, 1115557, 1115548, 1115547, 1115544, 1115526  
 Servicing: 40MT, 50MT, 10461047, 10478846, 10478848, 10478850, 10478851, 10478852, 10478853, 10478855, 10478856, 10478859  
 24 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, ID/ cover 31.00, OD 74.40, Total length 201.75, Coil bolt 1/2" UNC, No./ terminals 4  
*Insulated return. Cap: HC-CARGO 131368.*



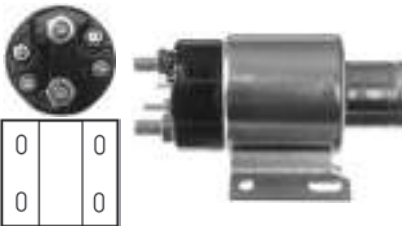
**131371** Solenoid

Replacing: 19024759  
 24 V, 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./ terminals 4  
*Silver contact. Insulated return.*  
 Alternative no.: 333156



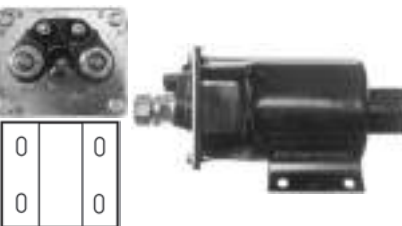
**131372Z** Solenoid

Replacing: 19024760  
 24 V, 150 Amp, Intermittent load 800 Amp., B+ M8, OD 52.01, OD/ cover 50.22, Total length 102.48, Height/ B+ 17.91, Coil bolt 4.00, Seconds 5, No./ terminals 4  
*Silver contacts.*  
 Alternative no.: 333152



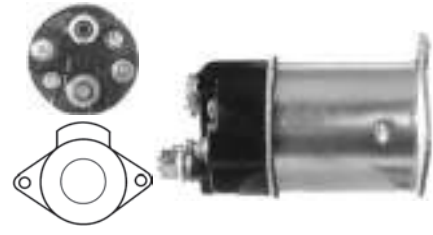
**132696** Solenoid

Replacing: 1119988, 1119888, 1119858, 1119855, 1115583, 1115543, 1115513, 1115512, 1114322  
 Servicing: 30MT, 1107607, 1108128, 1108151, 1108629, 1108652, 1108668, 1109758, 1109996, 1113135, 1113148, 1113162, 1113163  
 24 V, B+ 3/8" UNC, Kl. 15a 8-32 UNC, Kl. 50 8-32 UNC, ID/ cover 32.10, OD 66.30, OD/ cover 62.00, Total length 147.30, Height/ B+ 12.00, Width/ kl. 15a 13.50, Width/ kl. 50 10.50, Coil bolt 3/8" UNC, Coil bolt 2 14.50, No./ terminals 4  
*Insulated return. Cap: HC-CARGO 232216.*



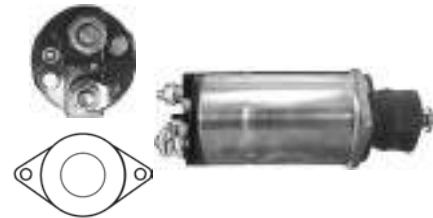
**133060** Solenoid

Replacing: 1119878, 1119872, 1115564, 1115563, 1115558, 1115555, 1115517  
 Servicing: 40MT, 1109773, 1109831, 1109973, 1109983, 1113371, 1113372, 1113375, 1113546, 1113587, 1113953, 1113984, 1114740  
 24 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, OD 75.85, Total length 201.00, Coil bolt 1/2" UNC, No./ terminals 4  
*Cap: HC-CARGO 131368. w/ reverse terminal. Insulated return. Square silver contacts.*



**133814** Solenoid

Replacing: 1114373, 1114338, 1114327, 1114298, 1114293  
 Servicing: 22MT, 27MT, 1107555, 1107559, 1107572, 1108250, 1109140, 1113591, 1113594, 1113596, 1113600, 1998351, 1998409, 1998426  
 24 V, B+ M10, Kl. 15a M5, Kl. 50 M4, ID/ cover 31.15, OD 60.85, OD/ cover 62.30, Total length 121.30, Height/ B+ 18.15, Width/ kl. 15a 17.00, Width/ kl. 50 13.30, Coil bolt M10, Coil bolt 2 6.40, No./ terminals 4  
*Isolated bottom.*



**135521** Solenoid

Replacing: 10457116  
 Servicing: 28MT, 10479605, 10479612, 10479623, 1113277, 1113291  
 24 V, B+ M10, Kl. 50 M5, OD 57.00, OD/ cover 56.70, Total length 177.50, Height/ B+ 14.00, Width/ kl. 50 6.50, Coil bolt M8, Coil bolt 2 12.50, No./ terminals 3  
*Cap: HC-CARGO 138898. Terminal switch: M5.*



**139337** Solenoid

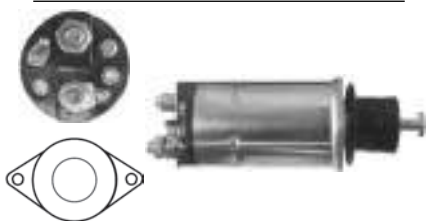
Replacing: d903a, 1115600, 1115597  
 Servicing: 42MT, 10478836, 10478892, 10478893, 10478979, 1990381, 1990411, 1990414, 1990416, 1993822, 1993827, 1993996, 1993998  
 24 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, ID/ cover 31.60, OD 68.65, OD/ cover 76.25, Total length 180.00, Width/ kl. 15a 13.65, Width/ kl. 50 13.65, Coil bolt 1/2" UNC, No./ terminals 4  
*Insulated return. Cap: HC-CARGO 232034.*


**230198** Solenoid

Replacing: d931a, d915a, 1115640, 1115621, 1115619

Servicing: 37MT, 10478814, 10478817, 10478925, 1993901, 1993902, 1993903, 1993905, 1993909, 1993910, 1993911, 1993914, 1993919

24 V, B+ 1/2" UNC, Kl. 50 10-32 UNF, ID/ cover 32.15, OD 68.80, OD/ cover 76.20, Total length 178.55, Width/ kl. 50 15.85, Coil bolt 1/2" UNC, Coil bolt 2 10.60, No./ terminals 3  
 Cap: HC-CARGO 232026. Silver contact.  
 Plunger: HC-CARGO 133022.


**231251** Solenoid

Replacing: 10457152, 10457115

Servicing: 28MT, 10479600, 10479608, 10479616, 10479629, 1113272

24 V, B+ M10, Kl. 15a M5, Kl. 50 M5, OD 57.00, OD/ cover 56.85, Total length 183.40, Height/ B+ 16.00, Width/ kl. 15a 10.00, Width/ kl. 50 7.50, Coil bolt M8, Coil bolt 2 11.00, No./ terminals 4  
 Cap: HC-CARGO 233461. Silver contact.  
 Dummy terminal: M5. Relay terminal: M5.


**231800** Solenoid

Replacing: 10457368

Servicing: 28MT, 10461470, 10479626, DRX67095, DRX67149

24 V, B+ M10, Kl. 15a M6, Kl. 50 M5, OD 58.00, OD/ cover 59.35, Total length 194.00, Height/ B+ 28.00, Width/ kl. 15a 10.00, Width/ kl. 50 8.00, Coil bolt M8, Coil bolt 2 14.00, No./ terminals 4  
 Relay terminal: M5.


**231819** Solenoid

Replacing: 10457369

Servicing: 28MT, 10479627, 19024204, drx67131

24 V, B+ M10, Kl. 15a M6, Kl. 50 M5, OD 57.05, OD/ cover 57.20, Total length 188.80, Height/ B+ 22.50, Width/ kl. 15a 11.00, Width/ kl. 50 9.50, Coil bolt M8, Coil bolt 2 13.50, No./ terminals 4  
 Relay terminal: M5. Cap: HC-CARGO 232203.


**231919** Solenoid

Replacing: d921a, d916a, 1115627, 1115622

Servicing: 10478811, 10478819, 10478960, 10478976, 10479020, 1993917, 1993918, 1993920, 1993921, 1993930, 1993953, 1993954

24 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, ID/ cover 32.60, OD 68.85, OD/ cover 77.40, Total length 178.00, Width/ kl. 50 17.30, Coil bolt 1/2" UNC, Coil bolt 2 16.00, No./ terminals 4  
 Dummy terminal: 10-32. Jump start sheath. Silver contacts. Cover: HC-CARGO 232,027th  
 Coil Resistance: Suction Pole = 0.635 Team  
 Coil = 3.150


**231920** Solenoid

Replacing: d919a, 1115625

Servicing: 42MT, 10478937, 10478938, 10478939, 10478940, 10478941, 10478942, 10478943, 10478944, 10478946, 10478947, 10478948

24 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, ID/ cover 32.85, OD 69.20, OD/ cover 76.15, Total length 177.75, Coil bolt 1/2" UNC, No./ terminals 4  
 Insulated return. Jump start protection cap. Silver contacts. Cap: HC-CARGO 232033.


**231922** Solenoid

Replacing: dr939a, d939a, 1115641

Servicing: 41MT, 10478898, 10479024, 10479043, 10479079

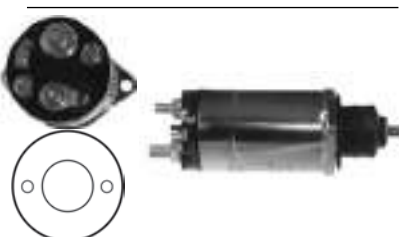
24 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, OD 69.00, OD/ cover 76.45, Total length 178.20, Coil bolt 1/2" UNC, Coil bolt 2 10.45, No./ terminals 4  
 Insulated return. Cap: HC-CARGO 232036.


**231926** Solenoid

Replacing: 1115634

Servicing: 41MT, 10478815, 10478961, 10479013, 10479172, 1993995

24 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, ID/ cover 32.30, OD 69.00, OD/ cover 76.40, Total length 178.55, Coil bolt 1/2" UNC, Coil bolt 2 11.00, No./ terminals 4  
 Cap: HC-CARGO 232039.


**231928** Solenoid

Replacing: 10457123

Servicing: 28MT, 10479611

24 V, B+ M10, Kl. 50 8-32 UNC, OD 57.90, OD/ cover 57.40, Total length 182.25, Height/ B+ 21.35, Width/ kl. 50 7.80, Coil bolt M8, Coil bolt 2 17.90, No./ terminals 3  
 Switch terminal: UNC 8-32.



**233869** Solenoid

Replacing: 1115683, 1115663, 1115657  
 Servicing: 42MT, 10479009, 10479010, 10479178  
 24 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, OD 68.80, OD/ cover 77.30, Total length 248.30, Height/ B+ 25.50, Width/ kl. 15a 12.00, Width/ kl. 50 12.00, Coil bolt 1/2" UNC, Coil bolt 2 18.00, No./ terminals 4  
*Insulated return. Solenoid cap: HC-CARGO 232033.*



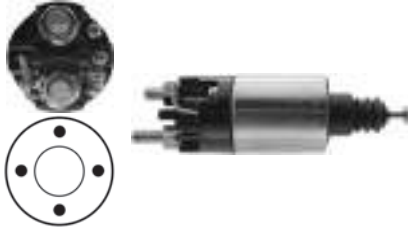
**233873** Solenoid

Replacing: 1115673, 1115668, 1115667  
 Servicing: 42MT  
 24 V, B+ 1/2" UNC, Kl. 15a 10-32 UNF, Kl. 50 10-32 UNF, OD 68.55, OD/ cover 77.25, Total length 248.00, Coil bolt 1/2" UNC, No./ terminals 4  
*Insulated return. Cap: HC-CARGO 232196.*



**235758** Solenoid

Replacing: 10511409  
 Servicing: 10461754, 10461756, 10461758, 10461759, 19011507, 19011509, 19011511, 19011512, 19011522, 19011523, 19011524, 19011527  
 24 V, B+ M12, Kl. 50 M5, OD 63.95, OD/ cover 63.75, Total length 217.95, Height/ B+ 32.20, Coil bolt M12, Coil bolt 2 22.65, No./ terminals 4



**237845** Solenoid

Replacing: 10515696, 10511799  
 Servicing: 39MT, 19011501, 19024196  
 24 V, B+ M12, Kl. 50 M5, OD 64.00, OD/ cover 63.50, Total length 224.65, Height/ B+ 38.10, Width/ kl. 50 13.55, Coil bolt M12, Coil bolt 2 31.45, No./ terminals 3



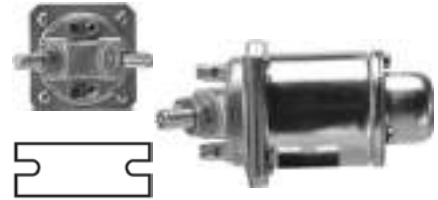
**333002** Solenoid

Replacing: 10512094  
 Servicing: 19026030, 19026032, 8200000, 8200024, 8200072  
 24 V, B+ 31.23, Kl. 50 M5, OD 64.00, OD/ cover 64.00, Total length 218.00, Height/ B+ M12x1.75, Coil bolt M12x1.75, Coil bolt 2 23.61, No./ terminals 3



**333152** Solenoid

Manufacturer: Bosch  
 Replacing: 19024760  
 24 V, 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./ terminals 4  
*Silver contact. Insulated return. Alternative no.: 131372*



**333156** Solenoid

Manufacturer: Bosch  
 Replacing: 19024759  
 24 V, 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./ terminals 4  
*Silver contact. Insulated return. Alternative no.: 131371*

**Safety Switches**



**230186** Safety Switch

Replacing: 10457367, 10457366  
 Servicing: 28MT, 10461470, 10479626, 10479627, 19024204, DRX67095, DRX67131, DRX67149  
 24 V.



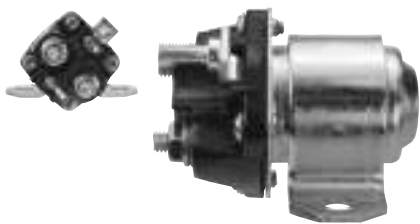
**234163** Safety Switch

Replacing: 10484662  
 Servicing: 28MT, 10479637  
 12 V.



**235444** Safety Switch

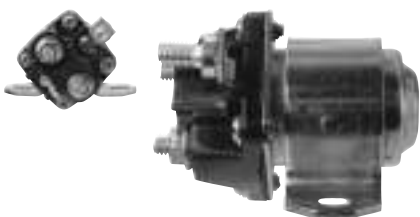
Replacing: 120483614, 10483614, 10477892, 10457565  
 Servicing: 10479026, 10479027, 10479028, 10479030, 10479040, 10479041  
 12 V


**235699** Safety Switch

Replacing: 10511414, 10511368

Servicing: 19011506, 19011508, 19011510, 19011513, 19011514, 19011515, 19011516, 19011517, 19011518, 19011519, 19011521, 19011525

12 V, Terminals 3, Bracket w/, Diode w/o, Resistor w/o


**237835** Safety Switch

Replacing: 10514696, 10511415, 10511369

Servicing: 19011501, 19011507, 19011509, 19011511, 19011512, 19011522, 19011523, 19011524, 19011527, 19024196, 8200009, 8200022

24 V, Terminals 3, Plug type Screw, Bracket w/, Diode w/o, Resistor w/o

### Solenoid Parts

### Solenoid Caps


**130488** Solenoid Cap

Servicing: 141, 150, 153, 155, 162, 163, 164, 165, 168, 169, 172, 173, 174, 3471141, 3471144, 3471150, 3471153, 3471154, 3471155

 No./ terminals 4  
 HC-CARGO 130963.

**130489** Solenoid Cap

Servicing: 152, 3471143, 3471152, 3471693, 3471696, dr902

 No./ terminals 4  
 HC-CARGO 131119.

**130497** Solenoid Cap

Servicing: 5MT, 10MT, 20MT, 25MT, 10455301, 10455305, 10455306, 10455308, 10455603, 10496873, 10496874, 1107203, 1107237, 1107242

 No./ terminals 4  
 HC-CARGO 130499.

**130498** Solenoid Cap

Servicing: 30MT, 1113652, 1113683, 1115540

 No./ terminals 4  
 HC-CARGO 130500.

**131057** Solenoid Cap

Replacing: 1958218

 Servicing: 40MT  
 No./ terminals 2  
 12 V. Silver contact.

**131058** Solenoid Cap

Replacing: 1967330, 1961463, 1957789, 1953242, 1945400, 1906493, 1902610, 1901272, 1893477, 1880449, 1876849

Servicing: 40MT, 50MT, 1113827, 1113840, 1113853, 1113923, 1113942, 1113949, 1113950, 1113959, 1113960, 1113962, 1113967, 1113969

 No./ terminals 2  
 24 V. Silver contact.

**131367** Solenoid Cap

Replacing: 1979634

 Servicing: 40MT, 50MT, 1115556  
 12 V. Squareface. Silver contact.

**131368** Solenoid Cap

Replacing: 1979498, 1979458, 1979413

Servicing: 40MT, 50MT, 10478864, 1109290, 1113818, 1113824, 1113825, 1113827, 1113840, 1113842, 1113846, 1113849, 1113850, 1113851

 No./ terminals 4  
 24 V. Squareface. Silver contact.

**133180** Solenoid Cap

Servicing: 177, 3471177, 3471697, dr903

 No./ terminals 4  
 Low type. HC-CARGO 131272.

**133181** Solenoid Cap

Servicing: 3471725

 No./ terminals 3  
 Low type. HC-CARGO 131273.





**134841** Solenoid Cap

Servicing: 28MT, 10457055, 10479613, 10479615, 10479621, 10479627, 1113273, 1113276, 1113281, 1113282, 19024204, DRX67131

No./ terminals 3  
HC-CARGO 133852.

Pkg. 5



**135323** Solenoid Cap

Replacing: 1989500, 135323, 10495812

Servicing: 37MT, 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478980, 10478986, 10478998

No./ terminals 4  
24 V. Silver contact. HC-CARGO: 131349, 131361.

Pkg. 5



**135324** Solenoid Cap

Replacing: 1989499, 135324

Servicing: 42MT, 1115593

No./ terminals 4  
HC-CARGO 131369.



**137809** Solenoid Cap

Servicing: 5MT, 22MT, 10455006, 10455016, 10455017, 10455019, 10455024, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308

No./ terminals 4  
HC-CARGO 131590.



**137810#** Solenoid Cap

Servicing: 37MT, 1115591

No./ terminals 3



**137824** Solenoid Cap

Servicing: 28MT, 10456454, 10465054, 1113267, 1113270, 1113296

No./ terminals 3  
HC-CARGO 137811.

Pkg. 5



**138409** Solenoid Cap

Servicing: PG260, 10475646, 22506694, 8000180, 9000786, 9000835, 9000836, 9000860, 9000889, 9000902, 9000934, 9000967

No./ terminals 3, Bracket type Crimp  
HC-CARGO 138217.



**138898** Solenoid Cap

Servicing: 28MT, 10457116, 10479623, 1113277

No./ terminals 3  
HC-CARGO 132498.



**139429** Solenoid Cap

Servicing: PG100, -150, 10455010, 10455011, 10455013, 10455025, 10455042, 10455048, 10455050, 10455053, 10455054, 10455070

No./ terminals 3, Bracket type Crimp  
HC-CARGO 132944.

Pkg. 5



**232027#** Solenoid Cap

Servicing: 37MT, 1115622, 1115627, D916A, D921A

No./ terminals 4  
Silver contact. HC-CARGO 231919.



**232031** Solenoid Cap

Servicing: 42MT, 1115624, d918a

No./ terminals 4  
HC-CARGO 231917.



**232032#** Solenoid Cap

Servicing: 42MT, 1115598

No./ terminals 4  
HC-CARGO 231912.

Pkg. 5



**232033** Solenoid Cap  
 Servicing: 42MT, 1115625, d919a  
 No./ terminals 4  
 HC-CARGO 231920.



**232034** Solenoid Cap  
 Servicing: 42MT, 1115597, 1115600, d903a  
 No./ terminals 4  
 HC-CARGO 139337.



**232037#** Solenoid Cap  
 Servicing: 37MT, 1115596  
 No./ terminals 3  
 HC-CARGO 231924.



**232052** Solenoid Cap  
 Servicing: PG260S, 10476117, 9000794,  
 9000817, 9000824  
 No./ terminals 3, Bracket type Crimp  
 HC-CARGO 231929.



**232203** Solenoid Cap  
 Servicing: 28MT, 10457369, 10461470,  
 10479626, 10479627, 1113285, 19024204,  
 DRX67095, DRX67131, DRX67149  
 No./ terminals 4  
 HC-CARGO 231819.



**232226** Solenoid Cap  
 Replacing: 10478008  
 Servicing: PG260F1, 1114583, 9000819,  
 9000820, 9000821, 9000822, 9000850,  
 9000879, 9000884, 9000885, 9000895,  
 9000899  
 No./ terminals 4, Bracket type Crimp  
 HC-CARGO 137370.



**233461#** Solenoid Cap  
 Servicing: 28MT, 10457115, 10457152  
 No./ terminals 3  
 HC-CARGO 231251.



**234926** Solenoid Cap  
 Servicing: 111534, 17610-Q1010  
 No./ terminals 3

Pkg. 5



**235403** Solenoid Cap  
 Servicing: 00E091, 112161, CER3087  
 No./ terminals 3

**Moving Contacts**

Pkg. 5



**132322** Moving Contact  
 Servicing: dr901, dr902  
 Shaft measurement 36.00, Thickness 2.45  
 Solenoid: HC-CARGO 130963, 131119. Silver  
 plated. Long type.  
 Alternative no.: b132322



**132952** Moving Contact  
 Replacing: 1977264, 1967335, 1954861  
 Servicing: 40MT, 50MT, 10478864, 1113652,  
 1113683, 1113827, 1113840, 1113853,  
 1113923, 1113942, 1113949, 1113950,  
 1113959, 1113960  
 Shaft measurement 56.00, Thickness 3.10  
 12/24 V.

Pkg. 5



**133146** Moving Contact  
 Servicing: 3471697, DR725, dr903, dr904  
 Length 32.00, Shaft measurement 32.00,  
 Thickness 2.40, Width 16.00  
 Solenoid: HC-CARGO 131272, 131273. Short  
 type.

Replacing Remy (Delco)



Pkg. 5

**138410** Contact Plate

Servicing: PG260, 1114583  
Length 31.75, Width 16.25  
Solenoid: HC-CARGO 138217.



Pkg. 5

**139430** Moving Contact

Servicing: PG200, -250, SD210, -260  
Shaft measurement 26.00/1.024",  
Thickness 2.00



Pkg. 5

**139431#** Moving Contact

Servicing: SD210, -260  
Length 34.40/1.354",  
Shaft measurement 26.00/1.024",  
Thickness 2.00, Width 12.70 (1/2")



Pkg. 5

**139836** Contact Plate

Servicing: 28MT  
Thickness 4.10, Width 31.00



Pkg. 5

**232910** Moving Contact

Replacing: 1978337  
Servicing: 5MT, 10MT, 27MT, 10455016,  
10455044, 10455045, 10455046, 10455049,  
10455052, 10455055, 10455058, 10455069,  
10455300

Shaft measurement 31.50/1.240",  
Thickness 2.50/0.098"



Pkg. 5

**232911** Moving Contact

Replacing: 1956226  
Servicing: 5MT, 8MT, 10MT, 20MT, 22MT,  
27MT, 1107302, 1107306, 1107307, 1107308,  
1107310, 1107311, 1107312, 1107313,  
1107314

Shaft measurement 41.00, Thickness 2.30



Pkg. 5

**233396** Moving Contact

Replacing: 1985295  
Servicing: 37MT, 41MT, 42MT  
Length 53.70, Shaft measurement 44.00  
*Silver plated.*



Pkg. 10

**235404#** Moving Contact

Servicing: 00E091, 110397, 112161,  
CER3087  
Length 54.78, Shaft measurement 37.50,  
Thickness 2.38, Width 28.00



Pkg. 100

**B132322** Moving Contact

Replacing: 132322  
Shaft measurement 37.43, Thickness 2.44  
Alternative no.: 132322

**Fixed Contacts**

Pkg. 10



**133576** Fixed Contact

Servicing: 3471693, 3471696, dr902  
Total length 20.50,  
Length/ rear collar 18.20,  
Thread length 8.55, Thread size M8

Pkg. 10



**133577** Fixed Contact

Servicing: 3471561  
Total length 28.70,  
Length/ rear collar 23.45,  
Thread length 14.85, Thread size M8

Pkg. 10



**133578** Fixed Contact

Servicing: dr901  
Total length 33.50, Length/ rear collar 31.20,  
Thread length 21.50, Thread size M8

## Various


**130521** Plunger

Replacing: 1942250

Servicing: 30MT, 35MT, 1113059, 1113089, 1113090, 1113100, 1113101, 1113111, 1113113, 1113114, 1113115, 1113119, 1113121, 1113124

Length 127.40, Lever w/o


**130522** Plunger

Replacing: 1948522

Servicing: 40MT, 50MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807

OD 30.00, Length 134.30, Lever w/o

Pkg. 5


**132312** Gasket

Replacing: dr1903, 3471483

Servicing: 163, 3471143, 3471163, 3471171, 3471390, dr901, dr902, dr903

ID/ mount. hole 7.35, Length 79.80, Thickness 11.80, Width 67.00 mm,

No./ mount. holes 2, Material Rubber

Solenoid: HC-CARGO 130963, 131119, 131272.


**132735** Plunger

Replacing: 1953041, 1941113, 1932200, 10470783

Servicing: 5MT, 10MT, 20MT, 22MT, 25MT, 27MT, 10455308, 10455309, 10455310, 10455311, 10455322, 10455335, 10455343, 10455344

OD 30.35, Length 74.00, Lever w/ Long type.


**132736** Plunger

Replacing: 1987391, 1978297, 10470777, 10470764

Servicing: 5MT, 8MT, 10MT, 15MT, 20MT, 22MT, 27MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016

OD 27.85, Length 66.10, Lever w/ Short type.


**132877#** Boot

Replacing: 1987373, 1962601

Servicing: 10MT, 20MT, 25MT, 27MT, 10455324, 10455325, 10455327, 10455331, 10455500, 1107295, 1107297, 1107308, 1107335, 1107343

OD 89.85, Length 89.00


**133022** Plunger

Replacing: 1998139, 1988775, 1988140, 1988139

Servicing: 37MT, 41MT, 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803

OD 31.60, Length 132.25, Lever w/o

Pkg. 5


**133461#** Boot

Replacing: 801077, 1942257

Servicing: 30MT, 40MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807

ID 37.95, OD 37.35, Length 67.40



Pkg. 5

**134429** Boot

Replacing: 1988776, 1985243

Servicing: 37MT, 41MT, 42MT, 10461025, 10461031, 10478801, 10478802, 10478803, 10478804, 10478805, 10478806, 10478809, 10478810


**135462** Plunger

Replacing: 1989220, 10495984, 10473793

Servicing: PMGR series, 10455010, 10455011, 10455012, 10455013, 10455025, 10455026, 10455042, 10455047, 10455048, 10455050

OD 23.85, Length 76.00 w/ spring.



Pkg. 5

**135643#** Gasket

Replacing: 1979384, 10496037

Servicing: 40MT, 50MT

ID 80.00, OD 98.55, Thickness 1.40, Material Rubber



Pkg. 5

**139660** Gasket

Replacing: 1952427

Servicing: 20MT, 22MT, 25MT, 27MT, 10455301, 10455304, 10455305, 10455306, 10455308, 10455310, 10455312, 10455316, 10455319

ID/ mount. hole 7.75, Length 88.45, Thickness 4.00, Width 76.55 mm, No./ mount. holes 2, Material Rubber





**230407#** Solenoid Clamp

Replacing: 10470161

Servicing: SD210, -260, 10455010, 10455011, 10455012, 10455013, 10455025, 10455026, 10455042, 10455047, 10455048, 10455050

Dist./ mount. holes 65.45,  
ID 6.75, Thickness 1.55



**232986** Spring

Replacing: 1948521

Servicing: 30-50MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800

OD 35.70, Length 75.35

Pkg. 5



**234889#** Gasket

Servicing: 00E091, 110397, 112161, CER3087  
ID 44.00, OD 50.00, Material Rubber

**Drives**



**130465** Drive

Replacing: dr2003, dr2000, 3471912, 3471490

Servicing: 141, 150, 152, 153, 155, 162, 163, 164, 165, 168, 169, 172, 173, 174, 176, 177, 3471141, 3471143, 3471144, 3471150

ID 12.00, OD 25.80,  
OD/ housing 45.35, Total length 65.50,  
Splines A 12, No./ teeth 9, Rotation CR



**130536** Drive

Replacing: c2001, 3874045

ID 12.00, OD 33.10,  
OD/ housing 46.10, Total length 75.20,  
Splines A 6, No./ teeth 10, Rotation CR



**130537** Drive

Replacing: d2051, d2049, d2020, d2014, d2008, 1974352, 1965923, 1965723, 1965538, 1954843, 1954842, 1946229

Servicing: 10MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455315, 10455335

ID 12.00, OD 25.20,  
OD/ housing 46.15, Total length 81.00,  
Splines A 3, No./ teeth 9, Rotation CR



**130538** Drive

Replacing: d2042, d2025, d2024, 1977355, 1975046, 1971707, 1968355, 1966931, 1964127, 1950058, 1942950

Servicing: 30MT, 10455316, 10455326, 10455331, 10455334, 10455337, 10478830, 1107214, 1107234, 1107249, 1107290, 1107291, 1107300

ID 14.30, OD 39.85,  
OD/ housing 60.00, Total length 96.15,  
Splines A 3, No./ teeth 10, Rotation CR



**130539** Drive

Replacing: 830620, 800066, 1976884, 1967779, 1960370, 1955777, 1952083, 1945487, 1935487, 1894211

Servicing: 40MT, 42MT, 50MT, 10461024, 10461030, 10461041, 10461043, 10461045, 10461047, 10461048, 10461054, 10461068, 10478800

ID 15.90, OD 56.50,  
OD/ housing 58.00, Total length 120.40,  
Shaft length 15.90 (5/8"), Splines A 19,  
No./ teeth 11, Rotation CR  
Bronze.

Alternative no.: 130539z



**130539z** Drive

Replacing: 830620, 800066, 1976884, 1967779, 1960370, 1955777, 1945487, 1935487, 1894211

ID 15.90, OD 56.50,  
OD/ housing 58.25, Total length 120.40,  
Splines A 19, No./ teeth 11, Rotation CR  
Alternative no.: 130539



**130540** Drive

Replacing: d2107, d2043, d2026, d2017, 1965358, 1951180, 1940138, 1940134, 1934488, 1932890, 1932308, 1877354

Servicing: 35MT, 1107251, 1107343, 1107344, 1107510, 1107527, 1107534, 1107538, 1107548, 1107553, 1107567, 1107581, 1107587

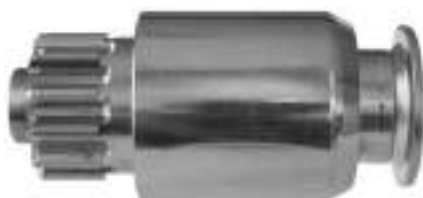
ID 14.02, OD 46.15,  
OD/ housing 60.00, Total length 96.00,  
Shaft length 14.00, Splines A 3,  
No./ teeth 12, Rotation CR


**130542** Drive

Replacing: 800077, 1979835, 1977013, 1967952, 1894221

Servicing: 30MT, 50MT, 10478862, 1109494, 1109497, 1109632, 1109757, 1109779, 1109792, 1109849, 1990232, 1990240, 1990247, 1993781

ID 16.00, OD 46.00,  
OD/ housing 58.00, Total length 169.00,  
Splines A 19, No./ teeth 12, Rotation CR  
Bronze.


**131056** Drive

Replacing: 852961, 851073, 800068, 1977005, 1970711, 1965514, 1948606, 1946957, 1946945, 1936647, 1894213

Servicing: 40MT, 42MT, 50MT, 10461025, 10461031, 10461046, 10461060, 10461061, 10478803, 10478804, 10478860, 10478864, 10478869

ID 15.90, OD 46.20,  
OD/ housing 57.65, Total length 120.40,  
Shaft length 15.90 (5/8"), Splines A 19,  
No./ teeth 12, Rotation CR


**131429** Drive

Replacing: d2035, d2027, 1985564, 1975194, 1893445, 1893443

Servicing: 25MT, 1109212, 1109213, 1109214, 1109215, 1109216, 1109218, 1109219, 1109495, 1109563, 1113484, 1113589, 1113590

ID 14.30, OD 32.00,  
OD/ housing 60.00, Total length 80.80,  
Splines A 3, No./ teeth 10, Rotation CR


**131481** Drive

Replacing: 1987211, 1985262

Servicing: 37MT, 10461169, 10478805, 10478811, 10478825, 10478826, 10478927, 10478949, 10478960, 10479014, 10479034, 1990310

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 CR


**131766** Drive

Replacing: 1932605, 1932545, 1932526, 1928998, 1921998, 1914341

Servicing: 40MT, 1108987, 1109158, 1109169, 1109170, 1109172, 1109178, 1109184, 1109229, 1109230, 1109233, 1109235, 1109236

ID 19.00 (3/4"), OD 46.30,  
OD/ housing 58.00,  
Total length 120.40/4.740",  
Shaft length 19.00/0.748", Splines A 19,  
No./ teeth 12, Rotation CR  
Bronze.


**131767** Drive

Replacing: 830622, 1946089, 1846089

Servicing: 40MT, 50MT, 1113385, 1113408, 1113445, 1113474, 1113533, 1113693, 1114195

ID 15.90 (5/8"), OD 38.80,  
OD/ housing 58.00,  
Total length 120.40, Splines A 19,  
No./ teeth 10, Rotation CR


**131768** Drive

Replacing: d2021, 1985129, 1932031, 1918079

Servicing: 40MT, 1108894, 1108895, 1109234, 1109237, 1109248, 1109823, 1109874, 1109891, 1113606, 1113612, 1113619, 1113741

ID 19.00 (3/4"), OD 56.50,  
OD/ housing 58.00,  
Total length 120.40/4.740",  
Shaft length 19.00/0.748", Splines A 19,  
No./ teeth 11, Rotation CR


**131769** Drive

Replacing: d2036, d2009, d2005, 800026, 1952410, 1947680, 1946220, 1941589, 1935992, 1930802, 1929402, 1921999

Servicing: 30MT, 10455304, 10455317, 10455321, 10455324, 10455325, 10455328, 10455332, 10455333, 10455340, 10455341, 10455355

ID 14.30, OD 29.30,  
OD/ housing 60.10, Total length 95.20,  
Splines A 3, No./ teeth 9, Rotation CR


**131770** Drive

Replacing: 800069, 1977006, 1971167, 1947920, 1894214, 1893562

Servicing: 40MT, 10461059, 10478820, 10478985, 1113830, 1113852, 1113871, 1113873, 1113941, 1113988, 1114052, 1114077, 1114094

ID 15.90, OD 49.20/1.937",  
OD/ housing 58.00,  
Total length 120.40/4.740",  
Shaft length 15.90 (5/8"), Splines A 19,  
No./ teeth 13, Rotation CR



**132076#** Drive

Replacing: 3491016, 3471463  
 Servicing: 3471157, 3471159  
 ID 12.00, OD 29.50,  
 OD/ housing 42.35, Total length 66.00,  
 Splines A 6, No./ teeth 9, Rotation CR



**132694** Drive

Replacing: d2029, d2006, d2002, 1974396,  
 1971979, 1946221, 1931585, 1927200,  
 1828396  
 Servicing: 8MT, 1107608, 1107621, 1107622,  
 1107623, 1107626, 1107627, 1107629,  
 1107631, 1107632, 1107633, 1107634,  
 1107635  
 ID 12.00, OD 25.00,  
 OD/ housing 46.60, Total length 96.00,  
 Splines A 3, No./ teeth 9, Rotation CR



**132695** Drive

Replacing: d2052, d2040, d2032, 1984511,  
 10498407, 10471539  
 Servicing: 5MT, 10455001, 10455004,  
 10455006, 10455007, 10455008, 10455009,  
 10455015, 10455016, 10455017, 10455018,  
 10455019  
 ID 12.00, OD 25.00,  
 OD/ housing 43.35, Total length 69.15,  
 Splines A 3, No./ teeth 9, Rotation CR



**132699** Drive

Replacing: 1951788, 1950001, 1877348  
 Servicing: 10MT, 10455319, 10455336,  
 10455338, 1107179, 1107386, 1107782,  
 1109424, 1109426, 1113155, 1998298,  
 1998299, 1998301  
 ID 14.30, OD 36.70/1.444",  
 OD/ housing 59.80,  
 Total length 96.00/3.780", Splines A 3,  
 No./ teeth 9, Rotation ACR



**132731** Drive

Replacing: 830621, 800067, 1977004,  
 1970527, 1945879, 1894212  
 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 (5/8"), Splines A 19,  
 No./ teeth 11, Rotation ACR  
*Bronze.*



**132732** Drive

Replacing: 1932604  
 Servicing: 40MT, 50MT, 1109179, 1109185  
 ID 19.00, OD 46.20/1.819",  
 OD/ housing 46.00,  
 Total length 118.00/4.646",  
 Shaft length 19.00/0.748", Splines A 19,  
 No./ teeth 12, Rotation ACR  
*Bronze.*



**132943** Drive

Replacing: d2048, 10498527, 10469173  
 Servicing: PMGR series, 9000719, 9000735,  
 9000762, 9000763, 9000768, 9000773,  
 9000775, 9000776, 9000789, 9000796,  
 9000797  
 ID 12.00, OD 25.20,  
 OD/ housing 43.25, Total length 68.10,  
 Splines A 6, No./ teeth 9, Rotation CR



**133507** Drive

Replacing: 1987152, 1986244  
 Servicing: 37MT, 10478806, 10478814,  
 10478819, 10478890, 10478921, 10478928,  
 10478929, 10478930, 10478953, 10478957,  
 10478962  
 ID 14.35, OD 39.50/1.555",  
 OD/ housing 60.00,  
 Total length 99.00/3.898", Splines A 3,  
 No./ teeth 10, Rotation CR



**133545** Drive

Replacing: d2037, 1971706, 1970376,  
 1968131, 1947912, 1877345, 10497522,  
 10479522  
 Servicing: 10MT, 20MT, 22MT, 25MT, 27MT,  
 10455322, 10455329, 10455500, 1107573,  
 1107577, 1107586, 1107588, 1107589,  
 1107599  
 ID 14.24, OD 31.50,  
 OD/ housing 59.75, Total length 96.95,  
 Splines A 3, No./ teeth 10, Rotation CR


**133854** Drive

Replacing: d2053, 10457167, 10457056, 10456455

Servicing: 28MT, 10465054, 10479604, 10479614, 10479615, 10479617, 10479618, 10479621, 10479628, 10479634, 1113267, 1113269

ID 14.00, OD 32.00, OD/ housing 60.00, Total length 85.00, Splines A 12, No./ teeth 10, Rotation CR w/ rubber seal.


**133864** Drive

Replacing: a2000, 1938065, 1916775, 1838065

ID 12.00, OD 25.80, OD/ housing 46.20, Total length 77.00, Splines A 12, No./ teeth 9, Rotation CR


**133975** Drive

Replacing: d2054, 10457579, 10457057

Servicing: 28MT, 10479607, 1113274, 1113275, 1113278, 1113281, 1113282, 1113284, 1113285, 1113288, 1113289, 1113290, 1113297

ID 14.00, OD 40.00, OD/ housing 60.00, Total length 85.00, Splines A 12, No./ teeth 10, Rotation CR w/ rubber seal.


**133976** Drive

Replacing: d2055, 10457168, 10457058

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 CR w/ rubber seal.


**134837** Drive

Replacing: 10457279, 10457059

 Servicing: 28MT, 10479620, 10479648, 1113286  
 ID 14.00, OD 34.00/1.339", OD/ housing 60.00, Total length 85.85, Splines A 12, No./ teeth 9, Rotation CR w/ rubber seal.

**135063** Drive

Replacing: d2057, d2050, 10477566, 10473700, 10468675

Servicing: SD210, SD260, 10455010, 10455011, 10455012, 10455013, 10455025, 10455026, 10455042, 10455047, 10455048, 10455050

 ID 12.00, OD 25.30, OD/ housing 43.85, Total length 68.75, Splines A 3, No./ teeth 9, Rotation CR  
 Alternative no.: 135063z

**135063Z** Drive

Replacing: d2057, d2050, 10477566, 10473700, 10468675

 Servicing: SD210, SD260  
 ID 12.00, OD 25.30, OD/ housing 43.60, Total length 69.00, Splines A 3, No./ teeth 9, Rotation CR  
 Alternative no.: 135063

**135816** Drive

Replacing: d2047, 1989214

 Servicing: PG260, 9000719  
 ID 12.00, OD 25.20, OD/ housing 43.40, Total length 68.25/2.677", Splines A 3, No./ teeth 9, Rotation CR

**136318** Drive

Replacing: d2028, 1974355, 1932188

Servicing: 10MT, 1107208, 1107223, 1107270, 1107272, 1107279, 1107297, 1107354, 1107389, 1107397, 1107398, 1107641, 1107652

ID 12.00, OD 25.40, OD/ housing 46.40, Total length 75.50, Splines A 3, No./ teeth 9, Rotation CR


**136342** Drive

Replacing: 10497257

Servicing: PG100, -150, 09000756, 21020892, 21020893, 21021366, 21021648, 9000700, 9000751, 9000758, 9000772, 9000785, 9000791

ID 12.00, OD 25.25, OD/ housing 43.50, Total length 63.40, Splines A 6, No./ teeth 9, Rotation CR


**137733** Drive

Replacing: 186798

ID 12.00, OD 27.75, OD/ housing 46.35, Total length 51.70, Splines A 5, No./ teeth 10, Rotation CR


**137760** Drive

Replacing: 10457121

 Servicing: 28MT, 10479611, 10479616, 10479623, 1113272, 1113277, 1113291  
 ID 14.00, OD 32.00/1.260", OD/housing 60.00, Total length 85.45/3.386", Splines A 12, No./ teeth 10, Rotation CR  
 w/ rubber seal.


**138128** Drive

Replacing: 800965, 1948877, 1947542, 1933838, 1877350, 10499852

Servicing: 10MT, 10455320, 10455323, 10455339, 1107341, 1107390, 1107532, 1107544, 1107779, 1107873, 1108336, 1108475, 1108659

ID 14.30, OD 40.00, OD/ housing 60.00, Total length 96.25, Splines A 3, No./ teeth 10, Rotation ACR


**138216** Drive

Replacing: 10475616

Servicing: PG260, 8000321, 9000786, 9000798, 9000806, 9000819, 9000820, 9000821, 9000822, 9000834, 9000835, 9000850, 9000860

 ID 12.00, OD 29.70, OD/ housing 46.30, Total length 61.55, Splines A 6, No./ teeth 11, Rotation CR  
 Alternative no.: 138216z

**138216Z** Drive

Replacing: 10475616

 ID 12.00, OD 29.70, OD/ housing 45.90, Total length 61.75, Splines A 6, No./ teeth 11, Drive type Steel, Rotation CR  
 Alternative no.: 138216

**138222** Drive

Replacing: 10476642

Servicing: PG260, 9000805, 9000812

ID 12.00, OD 25.15, OD/ housing 46.15, Total length 61.70, Splines A 6, No./ teeth 9, Rotation CR


**138233** Drive

Replacing: 10476603

Servicing: 9000786, 9000798, 9000805, 9000806, 9000812, 9000820, 9000822, 9000834

ID 11.00, OD 27.00, OD/ housing 46.25, Total length 54.30, Splines A 10, No./ teeth 8, Rotation CR


**230073** Drive

Replacing: 10475974

Servicing: PG105S, 09000794, 09000801, 10455506, 21020761, 9000795, 9000817, 9000824, 9000833, 9000837, 9000839, 9000840, 9000847

ID 12.00, OD 25.25/1.016", OD/ housing 43.25, Total length 45.25/1.772", Splines A 6, No./ teeth 9, Rotation CR


**230911** Drive

Replacing: 10472565

Servicing: 41MT, 10478812, 10478815, 10478817, 10478818, 10478925, 10478926, 10478961, 10478999, 10479013, 10479060, 10479061

 ID 15.90, OD 46.30/1.823", OD/ housing 58.00, Total length 102.00/4.016", Splines A 19, No./ teeth 12, Rotation CR  
 Bronze.

Alternative no.: 230911z


**230911Z** Drive

Replacing: 10472565

ID 15.90, OD 46.10, OD/ housing 58.10, Total length 102.15, Splines A 19, No./ teeth 12, Drive type Bronze, Rotation CR

Alternative no.: 230911


**231789** Drive

Servicing: 10455503, 111089, 112847, 113136, 8000174, 96275481, 96569440

 ID 12.00, OD 28.35, OD/ housing 43.15, Total length 45.30, Splines A 6, No./ teeth 8, Rotation CR  
 Alternative no.: 231789z

**231789Z** Drive

 ID 12.00, OD 28.10, OD/ housing 43.20, Total length 45.65, Splines A 6, No./ teeth 8, Drive type Steel, Rotation CR  
 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 86.00/3.386", Splines A 12, No./ teeth 10, Rotation CR


**231966** Drive

Replacing: 10492409

 Servicing: PG260F2, 22506694, 9000836, 9000841, 9000842, 9000854, 9000857, 9000858, 9000871, 9000872, 9000879, 9000880, 9000882  
 ID 12.00, OD 29.55, OD/ housing 46.00, Total length 47.50/1.850", Splines A 6, No./ teeth 11, Rotation CR

**231967** Drive

Replacing: d2059, 10487934, 10487536

Servicing: SD205, -255, 10455064, 10455065, 10455066, 10455067, 10455069, 10455072, 10455073, 10455074, 10455080, 10455081

ID 12.00, OD 25.00, OD/ housing 43.35, Total length 73.00, Splines A 3, No./ teeth 9, Rotation CR


**231968** Drive

Replacing: 10476528

 Servicing: 41MT, 10478897, 10478898, 10479023, 10479024, 10479043, 10479165  
 ID 16.00, OD 56.25, Total length 102.25, Splines A 19, No./ teeth 11, Rotation CR  
*Bronze.*

**231970** Drive

Replacing: 800074, 1977011, 1971277, 1953151, 1894219, 1894218, 1893561

 Servicing: 40MT, 42MT, 1113177, 1113477, 1113881, 1113888, 1113936, 1113961, 1113963, 1114123, 1114155, 1114177, 1114716, 1114721  
 ID 15.90 (5/8"), OD 46.00/1.831", Total length 120.50/4.724", Splines A 19, No./ teeth 12, Rotation ACR

**231972<sup>#</sup>** Drive

Replacing: 1942877, 1941657, 1893736, 1877356

 Servicing: 30MT, 35MT, 1107518, 1108638, 1108647, 1108668, 1109141, 1113090, 1113131, 1113163, 1113228, 1113673, 1113682, 1113696  
 ID 14.20, OD 46.30, OD/ housing 60.00, Total length 97.15, Splines A 3, No./ teeth 12, Rotation ACR

**232053** Drive

Servicing: 30MT

ID 14.30, OD 39.80, OD/ housing 60.00, Total length 96.30, Splines A 3, No./ teeth 10, Rotation CR


**233171<sup>#</sup>** Drive

Replacing: 1877347, 10499850

Servicing: 10MT, 20MT, 25MT, 27MT, 1107854, 1107855, 1108334, 1108343, 1108344, 1108691, 1109252, 1109267, 1109359, 1109360

ID 14.30, OD 32.00, OD/ housing 60.00, Total length 96.35, Splines A 3, No./ teeth 10, Rotation ACR


**233173** Drive

Replacing: 1974655, 1974641, 1943600, 1937554

Servicing: 10MT, SD300, 10455602, 1107250, 1107271, 1107285, 1107333, 1107610, 1107611, 1107672, 1107723, 1107742, 1107763

ID 12.00, OD 25.35/1.016", OD/ housing 46.40, Total length 93.85/3.660", Splines A 3, No./ teeth 9, Rotation ACR


**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 CR

**233532** Drive

Replacing: 1954963, 1949429

Servicing: 10MT, 10455318, 1107209, 1107218, 1107334, 1108289, 1108505, 1109098, 1998274

 ID 14.40, OD 30.00, OD/ housing 60.00, Total length 97.00, Splines A 3, No./ teeth 9, Rotation CR  
 10 holes.

**233950<sup>#</sup>** Drive

Replacing: 10472809

ID 12.00, OD 25.25, OD/ housing 45.00, Total length 62.65, Splines A 12, No./ teeth 9, Rotation CR


**235050** Drive

Servicing: 110566, 111534, 17610-q1010

ID 11.91, OD 35.62, OD/ housing 48.82, Total length 48.50, Splines B 6, No./ teeth 9


**235146** Drive

Servicing: 00E091, 112161, cer3087  
 ID 12.00, OD 45.75,  
 OD/ housing 48.65, Total length 50.60,  
 Splines A 6, No./ teeth 13, Rotation CR


**235193** Drive

ID 11.00, OD 29.60,  
 OD/ housing 43.65, Total length 53.75,  
 Splines A 5, No./ teeth 11, Rotation CR


**238626** Drive

Servicing: 8000048, 8000180, 9000902,  
 9000934, 9000967, 96430345, 96450663,  
 96550792  
 ID 12.00, OD 25.00,  
 OD/ housing 46.45, Total length 47.25,  
 Splines A 10, No./ teeth 9, Rotation CR


**330382** Drive

Servicing: 8000032  
 ID 12.05, OD 36.00,  
 OD/ housing 47.00, Total length 61.40,  
 Splines A 12, No./ teeth 9,  
 Drive type Steel, Rotation CR

**Drive Parts**
**Caps**

Pkg. 20


**134252** Dp Cap

ID 41.66, OD 43.00

**Gears**

Pkg. 10


**134235** Dp Gear

 ID 12.00, OD 25.20, Height 26.90,  
 No./ teeth 9

**Rollers**

Pkg. 1000


**134240** Dp Rollers

OD 7.50, Length 12.75

Pkg. 500


**134242** Dp Rollers

OD 4.50, Length 7.45

Pkg. 200


**230081** Dp Rollers

OD 8.00, Length 20.90

Pkg. 10


**231879** Dp Rollers

OD 5.20, Length 8.90

**Springs**

Pkg. 100


**139835** Dp Springs

Length 21.35

Pkg. 10


**235680**<sup>#</sup> Spring

OD 23.00, Length 14.60

**Pinion**

**235678** Pinion

Replacing: 10511838, 10511406

Servicing: 10461757, 10461758, 10461759,  
 10461760, 19011510, 19011511, 19011512,  
 19011515, 19011517, 19011524, 19011526,  
 8200027

 ID 16.60, OD 45.91, Height 26.00,  
 Splines 23, No./ teeth 12

**Dp Rollers**

Pkg. 100


**332667** Roller

OD 5.35, Length 11.10

**Planet Gears**
**Gear Parts**
**Gear Shafts**

**230559** Gear Shaft

Replacing: 10457032

Servicing: 28MT, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479612, 10479613, 10479614, 10479615, 10479616

 OD/ shaft 13.90,  
 Total length 172.00/6.772",  
 No./ splines 12

**230560** Gear Shaft

Replacing: 10456468

Servicing: 28MT, 10465054, 10479611, 1113267, 1113269, 1113270, 1113295, 1113296

 OD/ shaft 25.00,  
 Total length 165.00/6.496",  
 No./ splines 12

**232990** Gear Shaft

Replacing: 10475626

Servicing: PG260M, 9000786, 9000798, 9000804, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000827, 9000834

 OD/ shaft 22.20,  
 Total length 165.00/6.50", No./ splines 12

**233757** Gear Shaft

Replacing: 10457357

Servicing: 28MT, 10461470, 10479626, 10479627, 19024204, DRX67095, DRX67131, DRX67149

 Total length 176.00/6.693",  
 No./ splines 12

**235738** Gear Shaft

Servicing: 19011514, 19011516, 19011517, 19011518, 19011521, 19011522, 19011523, 19011524, 19011530, 19011531, 19026027, 19026028

 OD/ shaft 12.96, Total length 133.20,  
 No./ splines 12

**Outer Gear**

**135465** Outer Gear

Servicing: PG100

 ID 46.73, OD 69.00, Height 27.35,  
 No./ teeth 64

Pkg. 5


**138213** Outer Gear

Replacing: 10475632

 Servicing: PG260, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000834  
 ID 46.25, OD 66.57, Height 34.84,  
 No./ teeth 48

**232360** Outer Gear

Replacing: 10450720

Servicing: PG260F2, 22506694, 9000836, 9000884

 ID 49.60, OD 61.45, Height 29.50,  
 No./ teeth 43

**235737** Outer Gear

Servicing: 19011514, 19011515, 19011516, 19011517, 19011518, 19011521, 19011522, 19011523, 19011524, 19011530, 19011531, 8200037

 ID 76.74, OD 94.14, Height 35.89,  
 No./ teeth 48  
 Needle Bearing: HC-CARGO 141269.

**Gear Covers**

**230394** Gear Cover

Replacing: 10476004

Servicing: PG260F1, 09000794, 09000801, 10455506, 9000817, 9000824

Pkg. 5


**235739** Gear Cover

Servicing: 19011514, 19011515, 19011516, 19011517, 19011518, 19011521, 19011522, 19011523, 19011524, 19011531, 8200037, 8200287

ID 35.45, OD 108.87



**Gear Wheels**

Pkg. 3


**232926** Gear Wheel

Replacing: 10475979

 Servicing: PG260F1, 09000794, 09000801, 10455506, 9000817, 9000824  
 ID 6.00, OD 18.60, Height 10.40,  
 No./ teeth 17

Pkg. 3


**232989** Gear Wheel

Replacing: 10475578

 Servicing: PG260M, 9000786, 9000798, 9000804, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000827, 9000834  
 ID 6.00, OD 19.35, Height 11.00,  
 No./ teeth 18  
 Bushing: HC-CARGO 140939.

Pkg. 3


**233016** Gear Wheel

Servicing: PG260F2, 22506694, 9000836, 9000841, 9000854, 9000857, 9000858, 9000884

 ID 6.00, OD 20.55, Height 11.45,  
 No./ teeth 16  
 Bushing: HC-CARGO 140939.

Pkg. 10


**235687** Gear Wheel

Servicing: 38mt, 39mt

 ID 9.10, OD 24.00, Height 13.00,  
 No./ teeth 14

**Levers**

**130530** Lever

Replacing: 1945484

Servicing: 40MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807, 10478808

 Dist. 37.00, ID 13.00, Length 124.70  
 Pin kit: HC-CARGO 230362.

**130531#** Lever

Replacing: 1948690, 1942553, 1942245

Servicing: 30MT, 1113059, 1113089, 1113090, 1113100, 1113101, 1113111, 1113113, 1113114, 1113115, 1113119, 1113121, 1113124

Dist. 38.55, ID 10.00, Length 113.45


**130844** Lever Kit

Replacing: dr1901

Servicing: 3471141, 3471143, 3471144, 3471150

Dist. 35.30, ID 6.30, Length 83.40


**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  
 Pin kit: HC-CARGO 230362.

**131358** Lever

Replacing: 1985237

Servicing: 37MT, 10461169, 10478805, 10478806, 10478811, 10478814, 10478819, 10478825, 10478826, 10478890, 10478897, 10478953

 Dist. 42.70, ID 12.60, Length 121.60  
 Pin kit: HC-CARGO 230362.

**131408** Lever

Replacing: d4908, 1951567, 1932205

Servicing: 25MT, 10455304, 10455306, 10455309, 10455310, 10455311, 10455312, 10455314, 10455315, 10455316, 10455317, 10455318

Dist. 38.75, ID 8.15, Length 103.90


**132678** Lever

Replacing: 801433

Servicing: 10MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455343, 10455603, 10455604, 10496873, 10496874, 1107242

Dist. 38.30, ID 8.25, Length 103.30


**132679#** Lever

Replacing: 1945801

Servicing: 8MT, 10455301, 10455305, 10455306, 10455308, 10455603, 10496873, 10496874, 1108918, 1998238, 1998241, 1998243, 1998247

Dist. 39.15, ID 8.00, Length 102.80


**132680** Lever

Replacing: 1893358

Servicing: 5MT, 1109521, 1109522, 1109523, 1109524, 1109526, 1109527, 1109528, 1109530, 1109531, 1109532, 1109533, 1109534

Dist. 39.00, ID 7.90, Length 96.55


**132681** Lever

Replacing: 1984501

Servicing: 5MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018, 10455019

Dist. 36.65, ID 7.95, Length 96.50

Short type.

Pkg. 10


**133182** Lever

Servicing: 141, 150, 152, 153, 162, 164, 165, 168, 172, 176, 3471141, 3471143, 3471144, 3471150, 3471152, 3471153, 3471154

Dist. 36.00, ID 6.20, Length 83.15

As HC-CARGO 130844. w/o bolt. Bolt: HC-CARGO 134909.


**134839** Lever

Replacing: 10456464

Servicing: 28MT, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479613, 10479614

Dist. 36.65, ID 6.00, Length 102.35


**135204** Lever

Replacing: 10473701

Servicing: SD210, SD260, 10455010, 10455011, 10455012, 10455013, 10455025, 10455026, 10455042, 10455047, 10455048, 10455050

Dist. 42.45, Length 95.30


**138214** Lever

Replacing: 10476604

Servicing: PG260, 8000032, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000834

Dist. 26.20, Length 78.65

Support: HC-CARGO 138215.


**232825#** Lever

Replacing: 10487534

Servicing: SD205, SD255, 10455064, 10455065, 10455066, 10455067, 10455069, 10455070, 10455071, 10455072, 10455073, 10455074

Dist. 38.35, ID 8.10, Length 95.40


**232826** Lever

Servicing: PG260F2, 22506694, 9000836, 9000873, 9000879, 9000881, 9000884, 9000885, 9000889, 9000895, 96450663, 96843574

Dist. 26.80, Length 80.45

Plug: HC-CARGO 232996. Pivot pad: HC-CARGO 610222.


**232966#** Lever

Replacing: 1851954

Servicing: 30MT, 35MT, 1113172, 1113216, 1113217, 1113218, 1113222, 1113228, 1113229, 1113231, 1113232, 1113233, 1113234, 1113235

Dist. 36.75, ID 12.85, Length 118.00


**233756** Lever

Replacing: 10457361

Servicing: 28MT, 10461470, 10479626, 10479627, 19024204, DRX67095, DRX67131, DRX67149

Dist. 57.10, ID 50.45, Length 114.25

Pkg. 5


**235040** Lever

Servicing: 10455503, 96275481

Dist. 24.00, Length 81.60


**235734** Lever

Replacing: 10511817

Dist. 35.00, ID 8.30, Length 110.00

**Lever Parts**

**Various**

Pkg. 10



**134777** Spacer for Lever

**Servicing:** 141, 150, 155, 163, 168, 169, 172, 173, 174, 176, 177, 3471141, 3471144, 3471150, 3471155, 3471163, 3471168, 3471169  
**ID** 3.90, **OD** 8.00, **Height** 12.00  
**Lever:** HC-CARGO 130844, 133182.



**134909** Pivot Pin

**Total length** 48.00,  
**Length/ rear collar** 42.00,  
**Thread length** 13.30, **Thread size** M6



**138215** Lever Support

**Replacing:** 10475639  
**Servicing:** PG260, 8000032, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000834  
**ID** 7.40, **Length** 29.85  
**Lever:** HC-CARGO 138214.

Pkg. 10



**230010** Lever Pin

**Replacing:** 1987079, 1987049, 1980864, 1894321  
**Servicing:** 10MT, 15MT/GR, 20MT, 22MT, 25MT, 27MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016  
**ID** 2.90, **OD** 5.00, **Length** 25.70

Pkg. 10



**230108** Lever Pin

**Replacing:** 1945804  
**Servicing:** 10MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018, 10455019  
**OD** 7.85, **Length** 40.80



**230362** Lever Pin Kit

**Replacing:** 9415235  
**Servicing:** 30MT, 35MT, 10478864, 1109220, 1109221, 1109222, 1109224, 1109274, 1109275, 1109276, 1109277, 1109278, 1109279, 1109280  
**OD** 12.70, **Length** 58.00

Pkg. 5



**230513** Lever Stud

**Replacing:** 1948529, 1945472  
**Servicing:** 37MT, 40MT, 41MT, 42MT, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047  
**OD** 12.65, **Length** 58.45

Pkg. 10



**232692<sup>#</sup>** Felt Washer

**Replacing:** 10492752  
**Servicing:** 22SI, 19020307, 19020346, 19020366, 19020376, 19020382, 19020383  
**ID** 16.30, **OD** 35.75, **Thickness** 1.75

Pkg. 5



**232827** Lever Stud

**Replacing:** 1932197  
**Servicing:** 10MT, 20MT, 22MT, 25MT, 27MT, SD300, 10455304, 10455309, 10455310, 10455311, 10455312, 10455314, 10455315, 10455316  
**OD** 7.80, **Length** 51.70

Pkg. 5



**232828<sup>#</sup>** Lever Stud

**Replacing:** 1851953  
**Servicing:** 30MT, 35MT, 1113216, 1113217, 1113218, 1113222, 1113228, 1113229, 1113231, 1113232, 1113233, 1113234, 1113235, 1113236  
**OD** 12.70, **Length** 42.30

Pkg. 5



**232829<sup>#</sup>** Lever Stud

**Replacing:** 1948688, 1942255  
**Servicing:** 30MT, 35MT, 1113059, 1113089, 1113090, 1113100, 1113101, 1113111, 1113113, 1113114, 1113115, 1113119, 1113121, 1113124  
**OD** 9.50, **Length** 33.00

Pkg. 5



**232830<sup>#</sup>** Lever Stud

**Replacing:** 1942253  
**Servicing:** 30MT, 35MT, 1113059, 1113089, 1113090, 1113100, 1113101, 1113111, 1113113, 1113114, 1113115, 1113119, 1113121, 1113124  
**OD** 4.20, **Length** 30.50  
**Clip:** HC-CARGO 233148.

Pkg. 10



**233692** Screw  
 Servicing: 28MT  
 Thread M6,  
 Total length 55.80, Thread length 15.00

Pkg. 10



**235735** Lever Support  
 Replacing: 10512004  
 ID 8.28, Length 37.67

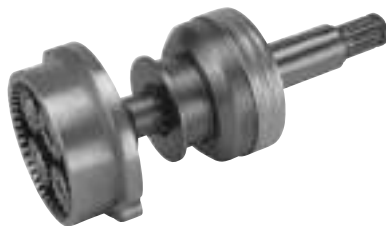
### Clutches



**234719** Clutch  
 Servicing: 10455703, 10455709  
 Total length 56.50



**235715** Clutch  
 Replacing: 235715, 10511410  
 Servicing: 19011506, 19011507, 19011508,  
 19011509, 19011510, 19011511, 19011512,  
 19011513, 19011514, 19011515, 19011516,  
 19011517  
 ID 73.19, Total length 144.15, Splines 23



**236079** Clutch  
 ID 70.00, Total length 144.00,  
 Splines 10, Rotation CR



**236110** Clutch  
 Servicing: 10461334, 10461753, 10461777  
 ID 94.00, Total length 183.70,  
 Splines 12, Rotation CR

### Brush Gears



**130520** Brush Gear  
 Replacing: 1948515, 1945517  
 Servicing: 40MT, 10461041, 10461045,  
 10461046, 10461047, 10461048, 10461059,  
 10461060, 10461061, 1113818, 1113820,  
 1113824  
 12/24 V, OD 107.00  
 Brush set: HC-CARGO RX698, RX708.



**130523** Brush Gear  
 Replacing: 1967354, 1945849  
 Servicing: 50MT, 10478827, 10478828,  
 10478829, 10478919, 1109220, 1109221,  
 1109222, 1109224, 1109274, 1109275,  
 1109276, 1109277  
 OD 117.90  
 Brush set: HC-CARGO RX9212.



**131346** Brush Gear  
 Replacing: 1979494, 1979387  
 Servicing: 40MT 400/450, 10461041,  
 10461045, 10461046, 10461047, 10461048,  
 10461059, 10461060, 10461061, 1114802,  
 1114805, 1114807  
 OD 106.45  
 Brush set: HC-CARGO RX122H4, RX1224. Type  
 400, 450.



**131352** Brush Gear  
 Replacing: 1988439, 1988122, 1988121  
 Servicing: 42MT, 10461024, 10461025, 10461030,  
 10461031, 10461043, 10461054, 10461068,  
 10478809, 10478810, 10478820, 10478824  
 OD 127.20  
 Brush set: HC-CARGO RX1344, RX134h4.  
 Insulated.



**131362** Brush Gear  
 Replacing: 1988323, 1987172, 1985323,  
 1985303  
 Servicing: 37MT, 1990308, 1990309, 1990310,  
 1990311, 1990312, 1990313, 1990315,  
 1990316, 1990317, 1990318, 1990319, 1990320  
 12/24 V, OD 126.75  
 Brush set: HC-CARGO RX1354, RX135H4.



**131482** Brush Gear  
 Replacing: 1985065, 1984974, 1981974  
 Servicing: 50MT 400, 10478807, 10478808,  
 10478813, 10478843, 10478844, 10478845,  
 10478846, 10478848, 10478849, 10478850,  
 10478851  
 OD 117.20  
 Brush set: HC-CARGO RX124H6.

Replacing Remy (Delco)



**132945#** Brush Gear

Replacing: d780, 10498540, 10472527  
 Servicing: PG200, PG250, 9000719, 9000735, 9000762, 9000763, 9000768, 9000773, 9000775, 9000776, 9000789, 9000796, 9000797  
 12 V, OD 77.15



**134675** Brush Gear

Replacing: 3471783  
 Servicing: 150, 155, 162, 163, 165, 168, 169, 172, 173, 174, 176, 177, 3471150, 3471154, 3471155, 3471162, 3471163, 3471165  
 OD 76.00  
 Brush set: HC-CARGO 140813, 140814, 140815.



**134842** Brush Gear

Replacing: 10456456  
 Servicing: 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479613  
 OD 77.30  
 Brush set: HC-CARGO 140600, 140732. Brush spring: HC-CARGO 134843.



**135720** Brush Gear

Replacing: 10470140, 10469238, 10468706, 10468705  
 Servicing: 37MT, 41MT, 10478805, 10478806, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819, 10478925  
 OD 127.00  
 Brush set: HC-CARGO RX1354, RX135H4.



**230391** Brush Gear

Replacing: 10476006  
 Servicing: PG150, PG150S, PG260F1, 09000794, 09000801, 9000795, 9000817, 9000824, 96450663  
 12 V, OD 66.00  
 Brush set: HC-CARGO 141045. Brush spring: HC-CARGO 230390.



**230396** Brush Gear

Replacing: 10475602  
 Servicing: PG260M, 8000032, 8000321, 9000786, 9000798, 9000804, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822  
 12 V, OD 57.75



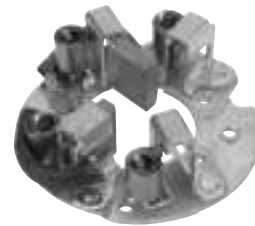
**230406#** Brush Gear

Replacing: 10467615  
 Servicing: SD210, -260, 10455010, 10455011, 10455013, 10455025, 10455042, 10455048, 10455050, 10455053, 10455054, 10455070  
 12 V, OD 75.20



**230682** Brush Gear

Replacing: 10497269, 10467164  
 Servicing: PG100, 09000756, 9000700, 9000751, 9000802, X16478  
 12 V, OD 65.90  
 Brush set: HC-CARGO 140755.



**232671** Brush Gear

Replacing: 10493851  
 Servicing: PG260F2  
 12 V, OD 67.90



**232968** Brush Gear

Replacing: 10472352  
 Servicing: PG150, PG260F1, 21020761, 21020893, 21021366, 9000772, 9000785, 9000791, 9000833, 9000839, 9000840, 9000847, 9000859  
 12 V, OD 66.00



**232984** Brush Gear

Replacing: 10493840  
 Servicing: PG260F2, 22506694, 24605594, 9000836  
 12 V, OD 68.30



**234768** Brush Box

Replacing: 10453919  
 Servicing: PG260L, -M, 10465578, 12564108, 12570823, 3231471, 9000879, 9000885, 9000889, 9000895  
 12 V, OD 68.75  
 Neg. brushes. Pos. brushes: HC-CARGO 141242.

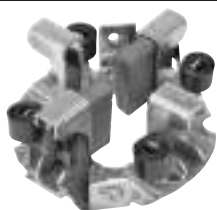


**235390** Brush Gear  
12 V



**235500** Brush Gear

Replacing: 10470208, 10468892, 10468891  
 Servicing: 10461082, 10461110, 10461169,  
 10461170, 10461171, 10461181, 10461182,  
 10461209, 10461210, 10461227, 10461282,  
 10461333  
 12/24 V, OD 127.10  
 Brush set: HC-CARGO RX1354 (12 V),  
 RX135H4 (24 V), 140600, 140732. Insulated.



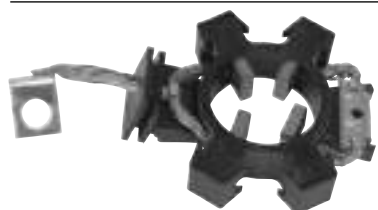
**237851** Brush Gear

Servicing: 39MT, 19011501, 19024196  
 24 V, OD 83.08  
 Brush set: HC-CARGO 141067.



**239582** Brush Gear

Servicing: 113136, 8000174, 96467385  
 12 V



**333422** Brush gear

Replacing: 10475107  
 Servicing: 10455506  
 OD 68.00

### Brush Gear Parts

### Brush Holders



**131406** Brush Holder Kit

Servicing: 8MT, 10MT, 20MT, 22MT, 25MT, 27MT,  
 10455300, 10455301, 10455304, 10455305,  
 10455306, 10455308, 10455340, 10455355

Pkg. 5



**132113** Brush Gear

Replacing: 800091, 1988414, 1955046,  
 1950946, 1950546, 1946414, 1938587, 1926618  
 Servicing: 30MT, 10455300, 10455301,  
 10455304, 10455305, 10455306, 10455308,  
 10455309, 10455310, 10455311, 10455312,  
 10455314  
 OD 16.15

Pkg. 5



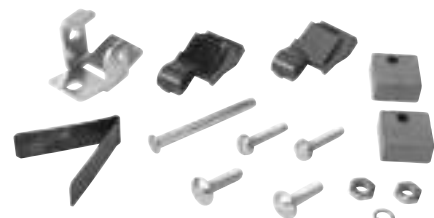
**132114** Brush Gear

Replacing: 1893293  
 Servicing: 5MT, 10455001, 10455004, 10455006,  
 10455007, 10455008, 10455009, 10455015,  
 10455016, 10455017, 10455018, 10455019  
 OD 16.20



**132730** Brush Holder Kit

Replacing: 1893929  
 Servicing: 5MT, 10455006, 10455016,  
 10455017, 10455019, 10455024, 10465018,  
 1109526, 1109530, 1109534, 1109564,  
 1998427, 1998514



**132875#** Brush Holder Kit

Servicing: 30MT, 35MT, 1113652, 1113683  
 Insulated.



**132876** Brush Holder Kit

Servicing: 30MT, 35MT, 1107557, 1109563,  
 1113589, 1113594, 1113598, 1998337,  
 1998339, 1998347, 1998455  
 Grounded.



**136924** Brush Gear

Replacing: 1952135  
 Servicing: 30MT, 35MT, 1107547, 1107555,  
 1107572, 1113130, 1113131, 1113133,  
 1113135, 1113148, 1113156, 1113162,  
 1113163, 1113190  
 Insulated.

### Brush Springs

Pkg. 10



**132115** Brush Spring

Servicing: 5MT  
 Length 26.15



Pkg. 10



**132116** Brush Spring

Replacing: 1986019

Servicing: 25MT, 27MT, 10455500, 1109216, 1109219, 1109251, 1109252, 1109253, 1109255, 1109256, 1109257, 1109258, 1109259, 1109260

Length 35.20

Pkg. 10



**132131** Brush Spring

Replacing: d3984, 1979994, 1945620

Servicing: 30MT, 1107515, 1107547, 1108427, 1108513, 1109217, 1113059, 1113089, 1113090, 1113100, 1113101, 1113105, 1113111

Length 38.63

Pkg. 10



**133197** Brush Spring

OD 10.00, Length 18.60



**134843** Brush Spring

Replacing: 10456460

Servicing: 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479613

OD 14.40, Length 26.40

Pkg. 4



**136926<sup>#</sup>** Brush Spring

Replacing: 1861785

Servicing: 40MT, 50MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478827, 10478829

OD 11.20, Length 8.65

Pkg. 4



**136927** Brush Spring

Replacing: 1979391

Servicing: 40MT, 50MT, 10478813, 10478843, 10478844, 10478845, 10478846, 10478848, 10478849, 10478850, 10478851, 10478852

OD 11.00

Pkg. 4



**136928** Brush Spring

Replacing: 1985314

Servicing: 37MT, 41MT, 42MT, 10461169, 10478801, 10478802, 10478803, 10478804, 10478805, 10478806, 10478809, 10478810, 10478811

OD 19.50, Length 36.15

Pkg. 4



**136929** Brush Spring

Replacing: 10498543

Servicing: PG200, -250, SD210, -260, 10455010, 10455011, 10455013, 10455025, 10455042, 10455048, 10455050, 10455053, 10455054

OD 14.10, Length 23.75

Pkg. 4



**136946** Brush Spring

Replacing: 3472200

OD 10.25, Length 16.20

Pkg. 10



**230390** Brush Spring

Servicing: PG150, PG150S, PG260F

OD 8.50, Length 15.80

Pkg. 10



**230517** Brush Spring

Replacing: d4954, d4951, 1940475, 1926622, 10498866

Servicing: 10MT, 10455300, 10455304, 10455330, 10455331, 10455332, 10455333, 10455334, 10455335, 10455336, 10455337, 10455338

OD 29.20, Length 34.95

**Various**

Pkg. 10



**233001** Insulator

Replacing: 1964516

Servicing: 50MT, 10478800, 10478807, 10478808, 10478813, 10478827, 10478828, 10478829, 10478830, 10478843, 10478844, 10478845

Pkg. 10



**233428** Screw

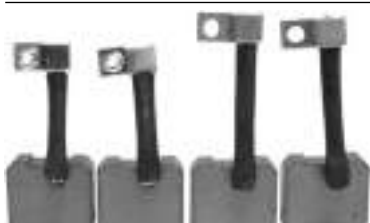
Replacing: 1968998, 1847807, 1846955  
 Servicing: 20SI, 37MT, 40MT, 42MT, 1009812, 10459002, 10459003, 10459004, 10459005, 10459006, 10459007, 10459008, 10459009  
 Thread 1/2",  
 Total length 15.60, Thread length 12.20

**Brush Sets**



**140600** Brush Set

Replacing: 10456458, 10456457  
 Servicing: 28MT, 10465054, 10479604, 10479606, 10479607, 10479613, 10479614, 10479615, 10479617, 10479618, 10479619, 10479620  
 12 V, Length 19.60, Lead length 37.00,  
 Lead length 2 51.00, Height 25.00,  
 Thickness 8.00



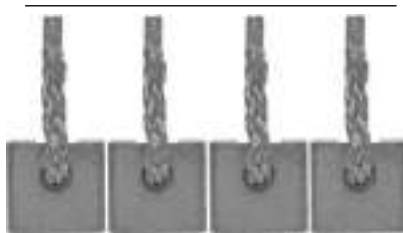
**140732** Brush Set

Replacing: 10457120, 10457119  
 Servicing: 28MT, 10461470, 10479600, 10479605, 10479608, 10479611, 10479612, 10479616, 10479623, 10479626, 10479627, 1113271  
 24 V, 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 V, Length 15.00, Lead length 128.50,  
 Lead length 2 28.50, Height 15.00,  
 Thickness 6.60



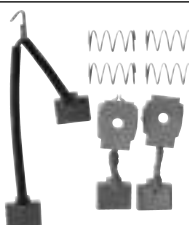
**140755** Brush Set

Replacing: 1852898, 140755  
 Servicing: PG100, 21020892, 21021648, 9000700, 9000751, 9000756, 9000758, 9000802, X16478  
 12 V, Length 14.00, Lead length 25.50,  
 Height 15.00, Thickness 5.60



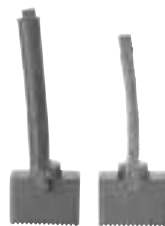
**140811** Brush Set

Replacing: dr751, 3471506  
 Servicing: 1107203, 1108421, 3471143  
 12 V, Length 14.00, Lead length 44.00,  
 Lead length 2 45.00, Height 16.00,  
 Thickness 6.00



**140812** Brush Set

Replacing: dr700, 3471505  
 Servicing: 141, 152, 3471141, 3471143, 3471144, 3471152  
 12 V, 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, 3471193  
 12 V, 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 V, Length 14.00, Lead length 83.00,  
 Lead length 2 37.00, Height 16.00,  
 Thickness 6.00  
 Alternative no.: R922



**140815** Brush Set

Replacing: 3471834  
 Servicing: 176, 3471153, 3471154, 3471155, 3471162, 3471164, 3471165, 3471169, 3471170, 3471173, 3471174, 3471175, 3471176  
 12 V, Length 14.00, Lead length 43.00,  
 Lead length 2 84.00, Height 16.00,  
 Thickness 6.00



**140943** Brush Set

Replacing: 10499524  
 Servicing: PG260, 8000032, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000834  
 12 V, Length 16.00, Lead length 28.00,  
 Height 19.00, Thickness 6.00

Replacing Remy (Delco)


**141045** Brush Set

Replacing: 10484034

 Servicing: PG260F1, 9000772, 9000785, 9000791, 9000794, 9000795, 9000817, 9000824, 9000884, 96208783, 96450663  
 12 V, Length 11.00, Lead length 29.50, Height 16.00, Thickness 5.00

**141114#** Brush Set

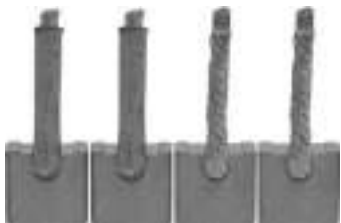
Servicing: PG200, PG250

12 V, Length 15.20, Lead length 72.00, Lead length 2 38.00, Height 21.80, Thickness 6.80


**141190** Brush Set

Servicing: 10455503, 111089, 112847, 96208781, 96275481, 96569440

12 V, 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, 17610-q1010, cer3087

12 V, Length 17.50, Lead length 36.00, Height 18.00, Thickness 8.00


**141242** Brush

Servicing: PG260L, -M, 10453919, 10465521, 9000879, 9000885, 9000889, 9000895

 12 V, Length 13.50, Lead length 115.50, Height 18.00, Thickness 5.00  
 Brush set: HC-CARGO 141210.

Pkg. 10


**141270** Brush

Servicing: 10465521

 Length 13.50, Lead length 30.50, Height 18.00, Thickness 5.00  
 Used w/ HC-CARGO 141242.

**142043** Brush Set

Servicing: PG260D, 8000048, 8000180, 9000902, 9000934, 9000967, 96550792

12 V, Length 12.50, Lead length 27.00, Height 15.00, Thickness 5.00


**RX1074** Brush Set

Replacing: 1946491

Servicing: 35MT, 1113391, 1113402, 1113432, 1113473, 1113476, 1113499, 1113652, 1113658, 1113659, 1113660, 1113662, 1113664

12 V, Length 21.50, Height 20.50, Thickness 9.50


**RX1084** Brush Set

Replacing: d762, 1893296

Servicing: 5MT, SD200, SD250, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018

12 V, Length 13.50, Height 15.90, Thickness 6.50


**RX1214** Brush Set

Replacing: 1852880

Servicing: 25MT, 1109216, 1109218, 1109219, 1109495, 1109496, 1109500, 1109550, 1109559, 1109563, 1109565, 1109566, 1109567

12 V, Length 19.00, Height 19.00, Thickness 8.00


**RX1224** Brush Set

Replacing: 1852884

Servicing: 40MT 400/450, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1114802, 1114807, 1114808

12 V, Length 21.00, Lead length 45.50, Height 38.10, Thickness 9.50


**RX122H4** Brush Set

Replacing: 1852883, 1852882

Servicing: 40MT 400/450, 1109295, 1109545, 1109790, 1114682, 1114687, 1114688, 1114805, 1114816, 1114830, 1114839, 1114840

24 V, Length 21.00, Lead length 46.00, Height 38.10, Thickness 9.50


**RX1246** Brush Set

Replacing: 1852887

Servicing: 50MT, 10478813, 10478877, 10478881, 10478906, 10478917, 1990277, 1990298, 1993859, 1993864, 1993968

12 V, Length 19.50, Lead length 44.00, Height 38.00, Thickness 8.00


**RX124H6** Brush Set

Replacing: 1852888

Servicing: 50MT 400, 10478800, 10478807, 10478808, 10478843, 10478844, 10478845, 10478846, 10478848, 10478849, 10478850, 10478851

24-64 V, Length 21.50, Lead length 45.00, Height 37.80, Thickness 7.80


**RX1344** Brush Set

Replacing: 1852892

Servicing: 42MT, 10478801, 10478802, 10478803, 10478804, 10478809, 10478810, 10478824, 10478894, 10478918, 10478931, 10478932

12 V, Length 24.90, Lead length 40.00, Height 36.60, Thickness 10.60


**RX134H4** Brush Set

Replacing: 1852894

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478820, 10478836, 10478839, 10478892

24 V, Length 24.90, Lead length 40.00, Height 36.60, Thickness 10.60


**RX1354** Brush Set

Replacing: 1852891, 1852889

Servicing: 37MT, 41MT, 10461169, 10478805, 10478806, 10478812, 10478818, 10478825, 10478890, 10478897, 10478921, 10478926

12 V, Length 26.60, Lead length 40.00, Height 28.60, Thickness 9.60


**RX135H4** Brush Set

Replacing: 1852893

Servicing: 37MT, 41MT, 10478811, 10478814, 10478815, 10478817, 10478819, 10478826, 10478898, 10478925, 10478960, 10478961

24 V, Length 26.60, Lead length 40.00, Height 28.60, Thickness 9.60


**RX604** Brush Set

Replacing: d757, 1946400, 1906966, 1906945

Servicing: 5MT, 8MT, 10MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312

12 V, Length 15.70, Height 19.10, Thickness 6.50


**RX664** Brush Set

Replacing: 1906990, 1892890

Servicing: 30MT, 35MT, 1107515, 1107547, 1107548, 1107553, 1107555, 1107869, 1109051, 1109140, 1113101, 1113105, 1113113, 1113115

24 V, Length 19.00, Height 19.00, Thickness 9.50


**RX698** Brush Set

Replacing: 1906988

Servicing: 40MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1108951, 1108952, 1108953

12 V, Length 19.20, Lead length 40.00, Height 19.00, Thickness 9.50


**RX708** Brush Set

Replacing: 1946483, 1946473, 1946407, 1906986

Servicing: 40MT, 1109827, 1113172, 1113386, 1113477, 1113483, 1113485, 1113487, 1113539, 1113540, 1113542, 1113544, 1113583

24 V, Length 19.20, Lead length 41.00, Height 19.00, Thickness 9.50


**RX874** Brush Set

Replacing: 1946484, 1906987, 1906968, 1906962, 1906958

Servicing: 30MT, 35MT, 1109045, 1109046, 1109047, 1109048, 1109050, 1113001, 1113002, 1113003, 1113004, 1113005, 1113006, 1113007

12 V, Length 19.20, Height 19.20, Thickness 9.40


**RX9212** Brush Set

Replacing: 1946487, 1946426, 1906989, 1906918

Servicing: 50MT, 10478827, 1109220, 1109221, 1109222, 1109224, 1109274, 1109275, 1109276, 1109277, 1109278, 1109279, 1109280

24 V, Length 19.20, Lead length 44.00, Height 19.10, Thickness 8.00


**RX954** Brush Set

Replacing: 1976861, 1946434

Servicing: 20MT, 25MT, 1107506, 1107508, 1107510, 1107511, 1107512, 1107513, 1107516, 1107517, 1107518, 1107519, 1107520, 1107521

6/12 V, Length 19.00, Height 19.00, Thickness 9.50

**Brushes**

Pkg. 100


**R909/0** Brush

Replacing: 140813

 12 V, Length 14.00, Lead length 37.65, Height 15.80, Thickness 5.90  
 Alternative no.: 140813

Pkg. 100


**R922** Brush

Replacing: 140814

 12 V, Length 14.00, Lead length 84.50, Height 15.80, Thickness 5.90  
 Alternative no.: 140814

Pkg. 100


**R924** Brush

Replacing: 140813

 12 V, Length 14.00, Lead length 43.50, Height 16.00, Thickness 6.00  
 Alternative no.: 140813

**Bushings**

Pkg. 10


**140036** Bushing

Replacing: 3471553

Servicing: 141, 150, 152, 153, 155, 162, 163, 164, 165, 168, 169, 172, 173, 174, 176, 177, 3471141, 3471143, 3471144, 3471150

ID 12.11, OD 14.08, Length 14.00

Alternative no.: b140036

Pkg. 10


**140053** Bushing

Replacing: 10472567

Servicing: 37MT, 10478812, 10478815, 10478817, 10478818, 10478897, 10478898, 10478925, 10478926, 10478961, 10478999, 10479013

ID 15.97, OD 19.12, Length 19.00

Alternative no.: b140053

Pkg. 10


**140064** Bushing

Replacing: 35070

ID 12.07, OD 15.05, Length 20.00

Alternative no.: b140064

Pkg. 10


**140070** Bushing

Replacing: d1666, 38273, 1894636

Servicing: 40MT, 1009812, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1108701, 1108702

ID 14.41, OD 19.19, Length 24.59

Pkg. 10


**140071** Bushing

Replacing: d1674, 1943628

Servicing: 35MT, 37MT, 40MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10461169, 10478801, 10478802

ID 14.31, OD 19.11, Length 19.20

Pkg. 10


**140074** Bushing

Replacing: d1684, 1955994, 1955991, 1945509, 1942258, 1894635

Servicing: 40MT, 50MT, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048

ID 15.93, OD 19.20, Length 21.92

Pkg. 10


**140181** Bushing

Replacing: d1676, 810620, 35058, 1938743

Servicing: 5MT, 8MT, 10MT, 25MT, 27MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455340, 10455603, 10496873, 10496874

ID 14.30, OD 15.91, Length 16.49

Pkg. 5



**140182** Bushing

Replacing: d1678, 820148

Servicing: 25MT, 1107071, 1107146, 1107203, 1107539, 1107587, 1107588, 1107848, 1107849, 1107851, 1107852, 1107973, 1107977

ID 19.00, OD 20.50, Length 18.50


Pkg. 5



**140183** Bushing  
 Replacing: d1688, 1932190, 1923904  
 Servicing: 5MT, 10MT, 10455010, 10455011, 10455016, 10455017, 10455019, 10455025, 10455048, 10455053, 10455054, 10455300, 10455301  
 ID 12.00, OD 13.17, Length 12.75

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Pkg. 5



**140184** Bushing  
 Servicing: 5MT, 1007010044, 1107006, 1107012, 1107014, 1107015, 1107016, 1107017, 1107021, 1107024, 1107025, 1107028, 1107029  
 ID 14.38, OD 15.90, Length 17.20

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Pkg. 5



**140185** Bushing  
 Replacing: d1680, 1939345, 1839348, 1839345, 1836505  
 Servicing: 25MT, 27MT, 1007003, 1107001, 1107005, 1107007, 1107008, 1107009, 1107013, 1107018, 1107019, 1107022, 1107023, 1107033  
 ID 12.75, OD 14.30, Length 19.85


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Pkg. 5



**140206** Bushing  
 Replacing: 1988096  
 Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803, 10478804  
 ID 21.25, OD 24.38, Length 25.10


Pkg. 5



**140214** Bushing  
 Replacing: 1985234  
 Servicing: 37MT, 10461169, 10478805, 10478806, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819, 10478825  
 ID 22.68, OD 25.70, Length 25.00

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Pkg. 5



**140215** Bushing  
 Replacing: d1671, 1891927, 1872678  
 Servicing: 35MT, 10455304, 10455355, 10455500, 1107051, 1107071, 1107081, 1107086, 1107090, 1107117, 1107146, 1107149, 1107185  
 ID 14.30, OD 17.53, Length 19.00

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Pkg. 5



**140217** Bushing  
 Replacing: d1689, 1862383  
 Servicing: 20MT, 10455304, 10455312, 10455316, 10455317, 10455318, 10455319, 10455320, 10455321, 10455322, 10455323, 10455324  
 ID 12.73, OD 15.94, Length 20.62

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Pkg. 10



**140262** Bushing  
 ID 12.16, OD 13.20, Length 12.65  
 Alternative no.: b140262

Pkg. 10



**140268** Bushing  
 ID 12.09, OD 16.00, Length 12.00  
 Alternative no.: b140268

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Pkg. 10



**140269** Bushing  
 ID 12.03, OD 16.02, Length 17.00  
 Alternative no.: b140269

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Pkg. 5



**140404** Bushing  
 Replacing: 1962606  
 Servicing: 10MT, 20MT, 22MT, 25MT, 27MT, 10455322, 10455324, 10455325, 10455326, 10455331, 10455500, 1107295, 1107296, 1107297  
 ID 19.19, OD 31.81, Length 10.29

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Pkg. 10



**140406** Bushing  
 Replacing: 1933999  
 Servicing: 30MT, 35MT, 1109219, 1113031, 1113059, 1113089, 1113090, 1113100, 1113101, 1113111, 1113113, 1113114, 1113115, 1113119  
 ID 19.30, OD 22.60, Length 19.25



Pkg. 5



**140477** Bushing

Replacing: 1923484, 1894637  
 Servicing: 40MT, 50MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807  
 ID 21.30, OD 24.50, Length 31.75

Pkg. 5



**140478** Bushing

Replacing: 1894638, 1869755  
 Servicing: 50MT, 10478800, 10478807, 10478808, 10478813, 10478827, 10478828, 10478829, 10478830, 10478843, 10478844, 10478845  
 ID 17.50, OD 22.30, Length 28.45

Pkg. 10



**140601** Bushing

Replacing: 10456459  
 Servicing: 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479613  
 ID 14.03, OD 17.00, Length 16.20

Pkg. 10



**140776** Bushing

Replacing: 1894023  
 Servicing: 10MT, 20MT, 22MT, 25MT, 27MT, 10455317, 10455318, 10455319, 10455321, 10455327, 10455336, 1107146, 1107588, 1108239  
 ID 19.00, OD 22.00, Length 18.00

Pkg. 10



**140939** Bushing

Replacing: 10475580  
 Servicing: PG260, 22506694, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000834, 9000836  
 ID 6.10, OD 8.75, Length 10.65

Pkg. 5



**140940** Bushing

Replacing: 10475582  
 Servicing: PG260, 8000032, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000834  
 ID 9.90, OD 16.60, Length 8.05

Pkg. 5



**140941** Bushing

Replacing: 10475631  
 Servicing: PG260, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000834  
 ID 8.10, OD 11.90, Length 9.10

Pkg. 5



**140942** Bushing

Replacing: 10476599  
 Servicing: PG260, 22506694, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000834, 9000836  
 ID 22.35, OD 26.70, Length 9.00

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

Pkg. 5



**141046** Bushing

Servicing: PG150, PG260F1, 9000817, 9000824  
 ID 6.10, OD 10.00, Length 9.95

Pkg. 5



**141047** Bushing

Servicing: PG260F1, 00E091, 110397, 112161, 9000817, 9000824, CER3087  
 ID 8.10, OD 12.00, Length 6.80


Pkg. 5



**141048** Bushing

Servicing: PG260F1, 9000817, 9000824  
 ID 22.30, OD 28.60, Length 9.00


Pkg. 10



**141122** Bushing  
 Servicing: PG260F2, -G, -L, 22506694, 9000836, 9000884  
 ID 10.00, OD 14.05, Length 9.35

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Pkg. 10



**141123** Bushing  
 Replacing: d1682, 1923907  
 Servicing: 8MT, 10MT, SD300  
 ID 11.95, OD 13.15, Length 18.40

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Pkg. 10



**141124** Bushing  
 Replacing: 1984530  
 Servicing: 5MT, SD200, 10455018, 1109551, 1998447, 1998482, 1998529, 1998532, 1998547  
 ID 13.00, OD 15.15, Length 12.40

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Pkg. 10



**141125** Bushing  
 Servicing: PG260F2, 9000884  
 ID 22.40, OD 26.70, Length 8.10

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Pkg. 10



**141126<sup>#</sup>** Bushing  
 Servicing: PG200, PG250  
 ID 25.60, OD 31.80, Length 8.85

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Pkg. 10



**141127** Bushing  
 Replacing: 10457076  
 Servicing: 28MT, 10479619  
 ID 13.00, OD 16.00, Length 15.90

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Pkg. 10



**141128** Bushing  
 Servicing: 28MT  
 ID 13.95, OD 16.05, Length 15.90

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Pkg. 10



**141202** Bushing  
 Servicing: 112847, 113136, 8000174, 96275481, 96569440  
 ID 10.03, OD/ collar 18.42, OD 14.00, Length 10.00, Height/ collar 2.00

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Pkg. 10



**142044** Bushing  
 Servicing: 8000048, 8000180, 9000902, 9000934, 9000967, 96550792  
 ID 6.00, OD/ collar 12.21, OD 8.79, Length 11.65, Height/ collar 3.00

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Pkg. 5



**142047** Bushing  
 Replacing: 96550792  
 Servicing: 8000180, 9000902, 9000934, 9000967, 96550792  
 ID 22.34, OD 26.70, Length 5.50

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Pkg. 10



**232518<sup>#</sup>** Bushing  
 Servicing: 37MT, 40MT, 41MT, 42MT  
 ID 13.25, OD 16.85, Length 16.20

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Pkg. 100



**B140036** Bushing  
 Replacing: 3471553  
 ID 12.11, OD 14.08, Length 14.00  
 Alternative no.: 140036

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Pkg. 100

**B140053** Bushing

Replacing: 10472567  
 ID 15.97, OD 19.12, Length 19.00  
 Alternative no.: 140053

Pkg. 100



**B140064** Bushing

Replacing: 35070  
 ID 12.07, OD 15.05, Length 20.00  
 Alternative no.: 140064

Pkg. 100



**B140262** Bushing

Replacing: b140262  
 ID 12.16, OD 13.20, Length 12.65  
 Alternative no.: 140262

**Bearings**

**Ball Bearings**



Pkg. 10

**140222** Ball Bearing

Replacing: 9440924, 10498718  
 Servicing: 09000756, 09000794, 09000801, 10455506, 110566, 111534, 17610-Q1010, 1998518, 21020892, 21020893, 21021366, 21021648  
 ID 8.00, OD 22.00, Height 7.00



Pkg. 10

**140271** Ball Bearing

Replacing: 1989646  
 Servicing: 00219091, 00219099, 10463007, 10463013, 10463014, 10463016, 10463017, 10463043, 10463097, 10463176, 10463187, 10463197  
 ID 10.00, OD 26.00, Height 8.00



**142021** Ball Bearing

Servicing: 39MT, 19011501, 19024196  
 ID 28.00, OD 58.00, Height 16.00,  
 Bushing w/o, Lock ring w/, Teflon ring w/  
 w/ 2 internal grooves.

**Needle Bearings**

Pkg. 10



**140242** Needle Bearing

Replacing: 9440923  
 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, Rolls 18

Pkg. 10



**140421** Needle Bearing

Replacing: 9441607, 10469066  
 Servicing: 5MT, 10455001, 10455006, 10455008, 10455009, 10455012, 10455013, 10455015, 10455024, 10455042, 10455045, 10455046  
 ID 11.13, OD 15.90, Height 12.70, Rolls 15



Pkg. 5

**140468** Needle Bearing

Servicing: 21020892, 21020893, 21021366, 21021648, 9000700, 9000719, 9000735, 9000751, 9000756, 9000758, 9000762, 9000763, 9000773  
 ID 8.00, OD 12.00, Height 10.00,  
 Rolls 12

Pkg. 5



**140470** Needle Bearing

Replacing: 9440922  
 Servicing: PMGR series, 21020892, 21020893, 21021366, 21021648, 9000719, 9000735, 9000751, 9000758, 9000762, 9000763, 9000768  
 ID 25.40, OD 31.75, Height 9.53,  
 Rolls 24

Pkg. 5



**140750** Needle Bearing

Replacing: 9441512  
 Servicing: PG260F1, 00E091, 09000756, 110397, 112161, 21020892, 21020893, 21021366, 21021648, 9000700, 9000751, 9000758, 9000772  
 ID 22.20, OD 28.60, Height 9.40,  
 Rolls 24

Pkg. 5



**140751** Needle Bearing

Replacing: 9441510  
 Servicing: PG100, -150, 09000756, 21020892, 21020893, 21021366, 21021648, 9000751, 9000758, 9000772, 9000785, 9000791, 9000794  
 ID 8.00, OD 12.00, Height 7.88,  
 Rolls 12

Pkg. 10



**141247** Needle Bearing

Servicing: 110397, 112161  
ID 9.00, OD 13.00, Height 8.00,  
Rolls 11

**Repair Kits**



**130519** Repair Kit

Servicing: 40MT 200, 250, 300 series,  
1113818, 1113824, 1113825, 1113827,  
1113840, 1113842, 1113846, 1113849,  
1113850, 1113851  
24 V.



**130529** Repair Kit

Servicing: 50MT 250, 300 series  
24 V.



**131348** Repair Kit

Servicing: 40MT 400, 450 series, 1114711,  
1114842, 1114843, 1114845, 1114846,  
1114848, 1114849, 1114850, 1114854,  
1114856, 1114872



**131490** Repair Kit

Servicing: 30MT, 35MT, 1113652, 1113683



**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



**133324#** Repair Kit

Servicing: 163, 3471143, 3471163, 3471171,  
3471390



**134840** Terminal Kit

Servicing: 28MT



**137062** Repair Kit

Servicing: 50MT 400, 450 series, Delco,  
10478864  
24 V.



**137063#** Repair Kit

Servicing: 40MT, 1113818, 1113824,  
1113825, 1113842, 1113850, 1113851,  
1113858, 1113866, 1113876, 1113883,  
1113887, 1113914



**137064** Repair Kit

Servicing: 50MT, 10478864



**230539** Terminal Kit

Replacing: 1988340, 1988339, 1979451, 10498663

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048, 10461054



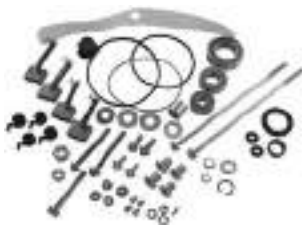
**232935#** Repair Kit

Servicing: 50MT, Type 250, 300



**232937** Repair Kit

Servicing: 10MT, 20MT, 22MT, 25MT, 27MT



**232941** Repair Kit

Servicing: 28MT

**Sundry Parts**

**C.E. Covers**

Pkg. 10



**138225** Cover

Replacing: 10475583

Servicing: PG260, 8000032, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000834

ID 14.30, OD 17.00, Height 4.85

**Oil Seals**

Pkg. 10



**132682** Oil Seal

Replacing: 1918047, 1913433, 1891143, 1867150

Servicing: 30MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478801, 10478802

ID 17.46, OD 34.80, Height 6.35

Pkg. 10



**132825#** Oil Seal

Replacing: 1937310

Servicing: 10MT, 10455325, 10455332, 10455500, 1107261, 1107295, 1107296, 1107297, 1107308, 1107322, 1107335, 1107377, 1107397

ID 17.65, OD 31.95, Height 6.35

Pkg. 10



**135199** Oil Seal

Servicing: 28MT, 10479613, 10479615, 10479616, 10479617, 10479621, 10479623, 1113272, 1113276, 1113277, 1113285, 1113291, 1113292

ID 24.30, OD 35.10, Height 5.90

Pkg. 5



**135642** Oil Seal

Replacing: 1937718

Servicing: 37MT, 10478805, 10478806, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819, 10478825, 10478826

ID 19.35, OD 35.20, Height 6.45

Pkg. 10



**233048** O-ring

Replacing: 1921805, 1894643

Servicing: 30MT, 35MT, 37MT, 40MT, 41MT, 42MT, 50MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048

ID 8.65, Thickness 1.75

Pkg. 10



**237844** Oil Seal

Servicing: 39MT, 19011501, 19024196

ID 28.30, OD 48.10, Height 5.60

**O-rings**

Pkg. 5


**133965** O-ring

Replacing: 10456474

Servicing: 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479613

ID 86.90, Thickness 1.50

Pkg. 5


**133974** O-ring

Servicing: 28MT, 10461470, 10465054, 10479613, 10479615, 10479621, 10479623, 10479626, 10479627, 1113267, 1113270, 1113273

 ID 79.00, Thickness 2.00,  
Material Rubber

Pkg. 10


**134486** O-ring

ID 8.00, Thickness 2.00

Pkg. 10


**134487** O-ring

Servicing: 1113827, 1113840, 1113853, 1113923, 1113942, 1113949, 1113950, 1113959, 1113960, 1113962, 1113967, 1113969, 1113982

ID 10.00, Thickness 2.00

Pkg. 10


**134633** O-ring

Servicing: 110566, 1109290, 1113285, 1113827, 1113840, 1113853, 1113923, 1113942, 1113949, 1113950, 1113959, 1113960, 1113962

ID 6.00, Thickness 2.00

Pkg. 10

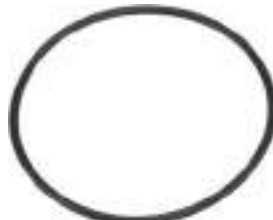

**136340** O-ring

Replacing: 1916272

Servicing: 10461025, 10461031, 10478980, 10478986, 10478998, 10479111, 10479115, 10479252, 10479264, 1113827, 1113840, 1113853

ID 105.00, Thickness 4.00

Pkg. 10


**139563** O-ring

Servicing: 28MT, 10461470, 10465054, 10479615, 10479621, 10479623, 10479626, 10479627, 1113267, 1113270, 1113273, 1113276, 1113277

ID 52.45, Thickness 1.95

Pkg. 10


**230378** O-ring

Replacing: 1918621

Servicing: 19011501, 19024196, 8200009, 8200022, 8200037, 8200039

ID 3.70, Thickness 1.80

Pkg. 5


**232434** O-ring

Servicing: 28MT, 10461470, 10479626, DRX67095, DRX67149

ID 5.00, Thickness 1.80

Pkg. 10


**233046** O-ring

Replacing: 1914593

Servicing: 30MT, 35MT, 1113157, 1113190, 1113402, 1113626, 1113655, 1113672

ID 8.00, Thickness 1.80

Pkg. 10

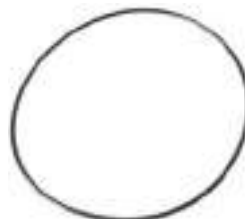

**233049** O-ring

Replacing: 1985304

Servicing: 37MT, 41MT, 42MT, 10461025, 10461031, 10478980, 10478986, 10478998, 10479111, 10479115, 10479252, 10479264, 1990357

ID 56.70, Thickness 3.50

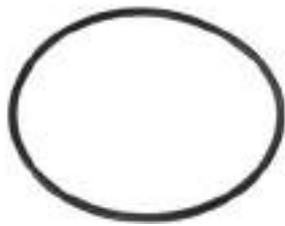
Pkg. 10


**233050** O-ring

Replacing: 1985320

Servicing: 37MT, 41MT, 42MT, 10461025, 10461031, 10478980, 10478986, 10478998, 10479111, 10479115, 10479118, 10479252, 10479264

Thickness 2.50, Material Rubber



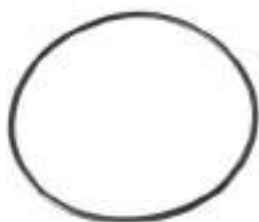
Pkg. 10

**233051** O-ring

Replacing: 1985960, 1851960

Servicing: 30MT, 35MT, 37MT, 41MT, 42MT, 10461025, 10461031, 10478980, 10478986, 10478998, 10479111, 10479115, 10479252, 10479264

Thickness 2.50



Pkg. 10

**233052#** O-ring

Replacing: 1945860

Servicing: 50MT, 10478800, 10478807, 10478808, 10478813, 10478830, 10478843, 10478844, 10478845, 10478846, 10478848, 10478849

Thickness 3.50



Pkg. 10

**233053** O-ring

Servicing: 37MT, 41MT, 42MT, 10479623, 1113277, 1113285

Thickness 1.70



Pkg. 10

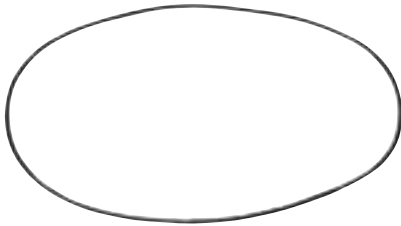
**233057** O-ring

Replacing: 1914373, 1894642

Servicing: 30MT, 35MT, 37MT, 40MT, 41MT, 42MT, 50MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048

ID 5.70, Thickness 1.55

Pin kit: HC-CARGO 230362.



Pkg. 10

**235736** O-ring

ID 102.60, Thickness 1.75, Material Rubber

**Thru Bolts**



Pkg. 2

**139799** Through Bolt

Replacing: 1960908

Servicing: 1107506, 1107508, 1107509, 1107510, 1107511, 1107512, 1107513, 1107515, 1107516, 1107517, 1107518, 1107519, 1107520

Total length 195.70, Length/ rear collar 190.50, Thread length 28.00, Thread size 1/4" UNC



Pkg. 2

**230012** Through Bolt

Replacing: 1939970, 1931654

Servicing: 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455312, 10455314, 10455315, 10455316

Total length 154.50, Length/ rear collar 149.00, Thread length 27.50, Thread size 1/4" UNC



Pkg. 2

**230013** Through Bolt

Replacing: 1941111

Servicing: 10455300, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455334, 10455343, 10455344, 10455345

Length/ rear collar 150.50, Thread size 1/4" UNC, Thread size/ rear 1/4" UNC



Pkg. 2

**230413** Through Bolt

Replacing: 1985150, 10467601

Servicing: 10455001, 10455006, 10455007, 10455009, 10455010, 10455011, 10455013, 10455015, 10455016, 10455017, 10455019, 10455024

Total length 136.70, Length/ rear collar 132.80, Thread length 29.70, Thread size 10-24 UNC



Pkg. 2

**230418** Through Bolt

Replacing: 1893453

Servicing: 10455500, 1107557, 1109212, 1109213, 1109214, 1109215, 1109216, 1109217, 1109218, 1109495, 1113593, 1113594, 1113596

Total length 189.00, Length/ rear collar 183.00, Thread length 24.10, Thread size 1/4" UNC



Pkg. 10


**230795** Through Bolt

Replacing: 1893276

Servicing: 1109521, 1109522, 1109523, 1109524, 1109526, 1109528, 1109530

 Total length 5.00 (7/8"),  
 Length/ rear collar 149.20,  
 Thread length 15.00/16",  
 Thread size 10-24 UNC

Pkg. 2


**233151** Through Bolt

Replacing: 10476002

Servicing: 09000794, 09000801, 9000795, 9000817, 9000824, 9000884, 96450663

 Total length 131.00, Thread size M5,  
 Thread size/ rear M6

Pkg. 2


**233152** Through Bolt

Servicing: 22506694, 9000836, 9000889

 Total length 155.65,  
 Length/ rear collar 151.30,  
 Thread length 21.30, Thread size M5

Pkg. 2


**233153** Through Bolt

Servicing: 9000879, 9000885, 9000895

 Total length 166.75, Thread size M5,  
 Thread size/ rear M5

Pkg. 2


**233154** Through Bolt

Replacing: 10475638

Servicing: 8000032, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000834, 9000835

 Total length 106.50,  
 Length/ rear collar 102.00,  
 Thread length 17.65, Thread size M5

Pkg. 10


**233691** Through Bolt

Servicing: 10461470, 10465054, 10479613, 10479615, 10479621, 10479623, 10479626, 10479627, 1113267, 1113270, 1113273, 1113276

 Total length 185.40,  
 Length/ rear collar 180.00,  
 Thread length 34.25, Thread size M6

Pkg. 10


**235686#** Through Bolt

Replacing: 10511662, 10510083

Servicing: 19011506, 19011507, 19011508, 19011509, 19011510, 19011511, 19011512, 19011513, 19011514, 19011515, 19011516, 19011517

 Total length 159.50,  
 Length/ rear collar 154.00,  
 Thread length 31.38,  
 Thread size M6x1.00

## Various


**131410** Stop Collar Kit

Replacing: 1928023

Servicing: 25MT, 27MT, 30MT, 10455304, 10455316, 10455317, 10455318, 10455319, 10455320, 10455321, 10455322, 10455323, 10455324


**131442** Stop Collar Kit

Replacing: dr2001, 3471621

Servicing: 5MT, 8MT, 10MT, 10455006, 10455011, 10455013, 10455016, 10455017, 10455019, 10455024, 10455042, 10455050, 10455054

Pkg. 5


**132056#** Insulator

Replacing: 1967357, 1955989, 1945897

Servicing: 50MT, 10478800, 10478807, 10478808, 10478813, 10478827, 10478828, 10478829, 10478830, 10478843, 10478844, 10478845

Pkg. 5


**132726** Adjustment Shims

Replacing: 9785608

 Servicing: 5MT, 10MT, 25MT  
 OD 146.40, Thickness 0.50



Pkg. 5

**132728#** Adjustment Shims

Replacing: 563451  
 Servicing: 10MT, 25MT, 27MT  
 OD 146.40, Thickness 0.50



Pkg. 10

**133023** Plug

Replacing: 9417501, 103893  
 Servicing: 40MT, 50MT, 1009812, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1108451, 1108452  
 OD 26.20

Pkg. 10



**133024** Plug

Replacing: 1949619  
 Servicing: 30MT, 40MT, 42MT, 50MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461061, 10478800

Pkg. 10



**133025** Plug

Replacing: 9419572  
 Servicing: 30MT, 10455309, 10455310, 10455311, 10455344, 10455345, 10455346, 1108282, 1108286, 1108325, 1108345, 1108347, 1108350  
 OD 15.90



Pkg. 10

**133026#** Plug

Replacing: 9411375  
 Servicing: 30MT, 35MT, 1113059, 1113089, 1113090, 1113100, 1113101, 1113111, 1113113, 1113114, 1113115, 1113119, 1113121, 1113124  
 OD 30.20, Height 4.75



Pkg. 10

**133027** Gasket

Replacing: 1962603  
 Servicing: 10MT, 20MT, 22MT, 25MT, 27MT, 10455325, 10455500, 1107295, 1107296, 1107297, 1107308, 1107322, 1107335, 1107377  
 ID 69.15, ID/ mount. hole 5.75,  
 OD 94.75, Thickness 1.50,  
 No./ mount. holes 4, Material Rubber

Pkg. 10



**134665** Felt

Replacing: 1955303  
 Servicing: 40MT, 50MT, 1113827, 1113840, 1113853, 1113923, 1113942, 1113949, 1113950, 1113959, 1113960, 1113962, 1113967, 1113969  
 OD 22.20

Pkg. 10



**135290** Brake Washer

Servicing: 152, 163, 165, 3471143, 3471152, 3471154, 3471163, 3471165, 3471171, 3471390  
 ID 12.10, OD 29.70, Thickness 2.00,  
 Material Fiber



Pkg. 5

**135938** Plug

Replacing: 1945356  
 Servicing: 40MT, 50MT, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048  
 OD 34.93



Pkg. 5

**138144** Ground Lead

Replacing: 1960864, 1926605  
 Servicing: 10MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455314  
 ID 4.25, Length 16.25,  
 Lead length 64.50, Width 9.45



**138223** Plug

Servicing: PG260

Pkg. 10



**138224** Drain Tube

Replacing: 10489381, 10475584  
 Servicing: PG260, 22506694, 8000032, 8000321, 9000786, 9000798, 9000806, 9000812, 9000834, 9000835, 9000836, 9000860, 9000936  
 ID 6.20, OD 8.15, Length 25.80

Pkg. 5


**138659#** Brake Washer

Replacing: 1986470

 Servicing: 10MT, 20MT, 25MT, 27MT,  
10455317, 10455318, 10455319, 10455321,  
10455323, 10455336, 1107588, 1113593,  
1113594, 1113596

ID 20.50, OD 50.80, Thickness 3.20

Pkg. 5


**138660** Brake Washer

Replacing: 821453

 Servicing: 10MT, 20MT, 25MT, 27MT, 30MT,  
35MT, 10455301, 10455305, 10455306,  
10455308, 10455309, 10455310, 10455311,  
10455312

ID 19.10, OD 50.80, Thickness 2.40

Pkg. 5


**138680** Ground Lead

 Replacing: 1987254, 1930694, 1892160,  
1876361

 Servicing: 15MT/GR, 20MT, 22MT, 25MT,  
27MT, 30MT, 35MT, 10455500, 1107547,  
1107557, 1107572, 1107582, 1107588,  
1107863, 1109216

 ID 4.30, Length 16.55,  
Lead length 55.00, Width 8.90

Pkg. 10


**139332** Screw

 Replacing: 1970469, 1968396, 1913100,  
10499632

 Servicing: 37MT, 40MT, 42MT, 50MT, 1007003,  
1007010044, 1009812, 10455300, 10455301,  
10455304, 10455305, 10455306, 10455308

 Thread M10,  
Total length 16.45, Thread length 11.25

Pkg. 5


**139798** Grommet

 Replacing: 1955947, 1955946, 1893370,  
1846097

 Servicing: 10MT, 15MT/GR, 20MT, 22MT,  
25MT, 27MT, 10455300, 10455301, 10455304,  
10455305, 10455306, 10455308, 10455309,  
10455310

Pkg. 10


**139983** Brake Washer

Replacing: 1985617, 1984076

 Servicing: 42MT, 10455006, 10455024,  
10455317, 10455318, 10455319, 10455321,  
10455322, 10455323, 10455324, 10455325,  
10455326

ID 14.30, OD 33.30, Thickness 3.20

Pkg. 5


**230017** Oil Wick

Replacing: 1986466, 1920400, 1916439

 Servicing: 10-27MT, 1009812, 10455321,  
10455323, 10455336, 10455500, 10461041,  
10461045, 10461046, 10461047, 10461048,  
10461059

Height/ thickness 7.90

Pkg. 5

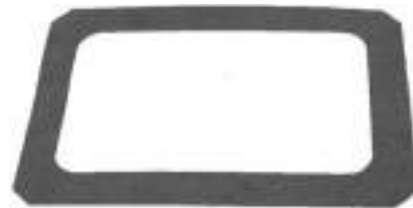

**230029** Brake Washer

Replacing: 818265, 10498921

 Servicing: 10MT, 1007003, 10455300,  
10455301, 10455304, 10455305, 10455306,  
10455308, 10455309, 10455310, 10455311,  
10455312

 ID 14.50, OD 33.50, Thickness 3.50,  
Material Leather

Pkg. 10


**230105** Insulator

Replacing: 1976832, 1927853

 Servicing: 8MT, 10MT, 10455304, 10455355,  
10455600, 1107159, 1107201, 1107203,  
1107204, 1107205, 1107209, 1107214, 1107215

Pkg. 10


**230106** Grommet

Replacing: 1966391, 1945827, 1935168

 Servicing: 10MT, 1107201, 1107203,  
1107204, 1107205, 1107206, 1107214,  
1107215, 1107222, 1107224, 1107228,  
1107229, 1107233

Dim. A 18.45, Dim. B 10.55, Dim. C 15.10

Pkg. 5


**230107** Brake Washer

Replacing: 1914842

 Servicing: 10MT, 1007010044, 10455340,  
10461041, 10461045, 10461046, 10461047,  
10461048, 10461059, 10461060, 10461061,  
1107006

 ID 14.30, OD 25.00, Thickness 1.60,  
Material Steel

Pkg. 5


**230188** Stop Collar

Replacing: 10456465

 Servicing: 28MT, 10461470, 10465054,  
10479600, 10479604, 10479605, 10479606,  
10479607, 10479608, 10479611, 10479612,  
10479613

 ID 14.00, OD 20.00, Height 6.50  
Used w/ retaining ring: HC-CARGO 230189.

Pkg. 5



**230189** Retaining Ring

Replacing: 10456475

Servicing: 28MT, 10461470, 10465054, 10479615, 10479621, 10479623, 10479626, 10479627, 1113267, 1113270, 1113273, 1113276, 1113277

Thickness 2.00, Material Steel  
Stop Collar: HC-CARGO 230189.



**230408#** Dust Cover

Replacing: 10467629

Servicing: SD210, -260, 10455010, 10455011, 10455012, 10455013, 10455025, 10455042, 10455048, 10455050, 10455053, 10455054

ID 44.65, OD 25.85, Height 25.85

Pkg. 10



**230411** Drain Tube

Replacing: 10467614

Servicing: SD210, -260, 10455010, 10455011, 10455012, 10455013, 10455025, 10455042, 10455048, 10455050, 10455053, 10455054

ID 6.10, OD 9.10, Length 24.00

Pkg. 5



**230414** Drain Tube

Replacing: 10497538

Servicing: PG100, -150, -200, -250, 9000719, 9000735, 9000762, 9000768, 9000773, 9000776, 9000797

ID 4.95, OD 7.65, Length 22.10

Pkg. 10



**230515** Screw

Replacing: 1914869

Servicing: 35MT, 37MT, 40MT, 42MT, 50MT, 1009812, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046

Thread M8,  
Total length 29.45, Thread length 24.55

Pkg. 10

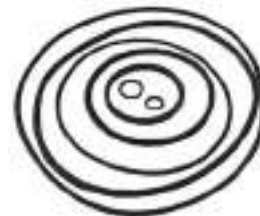


**230516** Screw

Replacing: 1948537

Servicing: 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048, 10461054, 10461059

Total length 29.70, Thread length 21.45,  
Thread size M5



**230538** Seal Kit

Servicing: 37MT, 42MT



**230540** Insulation Kit

Replacing: 1946765, 1944841, 1913027, 1906302, 1906046, 1906031, 1851632

Servicing: 42MT, 1009812, 10478800, 10478807, 10478808, 10478813, 10478830, 10478843, 10478844, 10478845, 10478846, 10478848

**230416** Grommet

Replacing: 1984527

Servicing: 5MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018, 10455019

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

OD 15.90, Height 9.65

Pkg. 5



**230472** Brake Washer

Replacing: 10499094

Servicing: 5MT, SD210, -260, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455010, 10455011, 10455012, 10455013

ID 12.70, OD 33.30, Thickness 3.20,  
Material Leather


**230541** Terminal Lead

Replacing: 1988129, 1988128

Servicing: 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803, 10478804

ID 4.50, Lead length 92.80

Pkg. 10


**230595** Repair Lead

Servicing: 20MT, 22MT, 25MT, 27MT, 10455301, 10455304, 10455305, 10455306, 10455308, 10455340, 10455355, 10455603, 10496873

 ID 5.45, Length 19.40, Lead length 56.00, Width 11.05  
*Repair lead for field coil.*

Pkg. 10


**232589** Plug

Servicing: 28MT

 OD 27.20, Height 19.85  
*Plate: HC-CARGO 233397.*

Pkg. 5


**230545<sup>#</sup>** Brake Washer

ID 12.00, OD 30.00, Thickness 1.00


**230555** Brake Washer

Replacing: 1911644

Servicing: 42MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800

ID 21.40, OD 47.60, Thickness 4.80

Pkg. 5


**230594** Connection

Replacing: 1978136, 1876358

Servicing: 20MT, 22MT, 25MT, 27MT, 10455500, 1107575, 1107581, 1107582, 1107583, 1107584, 1107586, 1107588, 1107589, 1107591

Mount. hole 4.00, Mount. hole 2 5.00, Total length 50.65

*Connecting field coil to solenoid.*
**230796** Washer

Replacing: 1914647

Servicing: 30MT, 35MT, 40MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807

ID 12.70, OD 22.30, Thickness 0.80, Material Steel

Pkg. 10


**230798** Insulator

Replacing: 1922457, 1861791

Servicing: 40MT, 50MT, 1009812, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807

ID 12.70, OD 23.80, Height 2.20

Pkg. 5


**232587** Plug

Replacing: 1989948

Servicing: PG200, -250, 09000756

**232590** Repair Lead

Replacing: 1988377, 1953236, 10497105

Servicing: 37MT, 40MT, 41MT, 42MT, 50MT, 10461025, 10461031, 10478820, 10478824, 10478836, 10479023, 10479024, 10479067, 10479069

 ID 13.00/5.00, Length 27.30/24.65, Lead length 209.10, Width 19.10/10.90  
*Wire lead from C.E. terminal to solenoid.*

Pkg. 5


**232672<sup>#</sup>** Repair Lead

Servicing: 5MT, SD200, SD250

 ID 3.95, Length 15.00, Lead length 56.35, Width 7.25  
*Repair lead for field coil.*

Pkg. 5


**232673<sup>#</sup>** Repair Lead

Servicing: 5MT, SD200, SD250

 ID 4.00, Length 14.80, Lead length 168.60, Width 7.20  
*Repair lead for field coil.*




Pkg. 5

**232675#** Repair Lead

Servicing: 10MT, SD300  
ID 5.20, Length 15.95,  
Lead length 70.85, Width 10.05  
*Repair lead for field coil.*



**232920** Seal

Servicing: PG260F2

Pkg. 5



**232924** Gear Plate

Replacing: 10475642  
Servicing: PG260M, 9000798, 9000804,  
9000805, 9000806, 9000812, 9000819,  
9000821, 9000822, 9000827, 9000834,  
9000835, 9000844  
ID 16.20, OD 70.45, Thickness 8.50

Pkg. 5



**232928#** Retaining Ring

Replacing: 1986928  
Servicing: 37MT, 10478805, 10478806,  
10478811, 10478814, 10478819, 10478825,  
10478826, 10478890, 10478921, 10478927,  
10478928



**232929** Thermostat

Replacing: 10498158, 10468899  
Servicing: 37MT, 41MT, 42MT, 10478824,  
10478836, 10478953, 10478964, 10478965,  
10478967, 10478979, 10478997, 10479019,  
10479027



Pkg. 5

**232933** Stop Collar

Replacing: 10457034  
Servicing: 28MT, 10479619, 1113287  
ID 13.00, OD 20.00, Height 6.40  
*Used w/ retaining ring: HC-CARGO 232934.*



**232985** Mounting Shim

Servicing: 5MT, 10MT  
OD 124.20, Thickness 0.079"

Pkg. 5



**232988** Thrust Collar

Replacing: 10495897, 10495828  
Servicing: 5MT, 10MT, PG100, PG150,  
10455001, 10455006, 10455008, 10455009,  
10455010, 10455011, 10455012, 10455013,  
10455015  
ID 12.00, OD 19.00, Height 2.60  
*Stop collar: HC-CARGO 233013.*

Pkg. 10



**232993** Screw

Replacing: 10475635  
Servicing: PG260F2, PG260M, 22506694,  
8000032, 8000321, 9000786, 9000798,  
9000805, 9000806, 9000812, 9000819,  
9000820, 9000821  
Thread M5-1.25, Total length 15.65,  
Thread length 11.00, Slot type E6 torx



Pkg. 5

**232916** Gasket

Servicing: 40MT, 50MT  
ID 93.50, ID/ mount. hole 16.85,  
OD 137.35, Thickness 1.65,  
No./ mount. holes 3



Pkg. 10

**232917** Gasket

Replacing: 112632  
Servicing: 10MT, 20MT, 22MT, 27MT  
ID 89.50, ID/ mount. hole 10.20,  
OD 153.45, Thickness 0.80,  
No./ mount. holes 3



Pkg. 5

**232918** Gasket

Replacing: 10475908  
Servicing: PG260M, 8000032, 8000321,  
9000786, 9000798, 9000805, 9000806,  
9000812, 9000819, 9000820, 9000821,  
9000822, 9000834  
ID 59.00, OD 70.00, Thickness 0.40

Pkg. 5


**232994#** Grommet

Replacing: 1893303

Servicing: 5MT, SD200, 1109521, 1109522, 1109523, 1109524, 1109526, 1109528, 1109530

 Dim. A 21.00, Dim. B 16.70, Dim. D 0.25  
 Aluminium.

Pkg. 5


**232995#** Grommet

Replacing: 1893304

Servicing: 5MT, SD200, 1109521, 1109522, 1109523, 1109524, 1109526, 1109528, 1109530

Pkg. 5


**232998** Insulator

Replacing: 1914873

Servicing: 30MT, 35MT, 37MT, 40MT, 41MT, 42MT, 50MT, 1009812, 10461025, 10461031, 10461047, 10478800, 10478807, 10478808, 10478813

**232999** Insulator

Replacing: 1955990, 1949620

Servicing: 40MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1113818, 1113820, 1113824

Pkg. 10


**233000** Insulator

Replacing: 1988100

Servicing: 37MT, 41MT, 42MT, 10461025, 10461031, 10478801, 10478802, 10478803, 10478804, 10478805, 10478806, 10478809, 10478810


**233007** Connection

Replacing: 1988134, 10476198

Servicing: 42MT, 10478968, 10478971, 10478977, 10478978, 10478980, 10478983, 10478984, 10478985, 10478986, 10478987, 10478988

 Mount. hole 7.55,  
 Mount. hole 2 14.45, Total length 67.00  
 Connecting field coil to solenoid.

Pkg. 5


**233009** Retaining Ring

Replacing: 1928022

Servicing: 10MT, 15GR, 20MT, 22MT, 25MT, 27MT, 30MT, 35MT, 10455304, 10455316, 10455317, 10455318, 10455319, 10455320, 10455321

 Thickness 1.75, Material Steel  
 Stop collar: HC-CARGO 233010.

Pkg. 5


**233010** Stop Collar

Replacing: 1851546

 Servicing: 30MT, 35MT, 1113089, 1113090, 1113111, 1113115, 1113124, 1113136, 1113137, 1113138, 1113139, 1113150, 1113153, 1113155  
 Used w/ retaining ring: HC-CARGO 233009.

Pkg. 5


**233011** Stop Collar

Replacing: 1928021

Servicing: 10MT, 15GR, 20MT, 22MT, 25MT, 27MT, 30MT, 35M, 10455304, 10455340, 10455355, 1998281

 ID 14.30, OD 20.00, Height 4.00  
 Used w/ retaining ring: HC-CARGO 233009.

Pkg. 5


**233012#** Thrust Collar

Replacing: 1964410

Servicing: 20MT, 22MT, 25MT, 27MT, 10455500, 1107575, 1107577, 1107582, 1107591, 1107599, 1107863, 1107871, 1109197, 1109208

 ID 12.50, OD 19.00, Height 2.70  
 Stop collar: HC-CARGO 233011. Retaining ring: HC-CARGO 233009.

Pkg. 5


**233013** Stop Collar

Replacing: 1927849

Servicing: 5MT, 8MT, 10MT, SD210, -250, -255, -260, -300, PG100, -150, -200, -250, 09000756, 09000794, 09000801, 10455001

 ID 12.00, OD 17.30, Height 4.30  
 Used w/ retaining ring: HC-CARGO 233014.

Pkg. 5


**233014** Retaining Ring

Replacing: 1927848

Servicing: 5MT, 8MT, 10MT, SD210, -250, -255, -260, -300, PG100, -150, -200, -250, 09000756, 09000794, 09000801, 10455001

 Thickness 1.60  
 Use w/ HC-CARGO 233013.





Pkg. 5

**233015** Thrust Collar

Replacing: 1941067, 1927850  
 Servicing: 5MT, 8MT, 10MT, SD200, -300, 10455004, 10455007, 10455016, 10455017, 10455018, 10455019, 10455020, 10455021, 10455022  
 ID 12.16, OD 17.50, Height 2.45  
 Stop collar: HC-CARGO 233013.



Pkg. 5

**233142** Gasket

Replacing: 1964857  
 Servicing: 30MT, 35MT, 37MT, 40MT, 41MT, 42MT, 50MT  
 ID 33.50, OD 40.00, Thickness 2.50,  
 Material Rubber  
 Bracket: HC-CARGO 232565.



Pkg. 5

**233144** Connection

Replacing: 1945862  
 Servicing: 50MT, 10478800, 10478843, 10478846, 10478848, 10478849, 10478850, 10478851, 10478852, 10478853, 10478854, 10478855  
 Mount. hole 14.55,  
 Mount. hole 2 14.55, Total length 55.25  
 Connecting field coil to solenoid.

Pkg. 10



**233155** Adjustment Shims

Replacing: 14057993  
 Servicing: 5MT, 10MT, SD200, SD210  
 OD 122.00, Material Steel



Pkg. 5

**233158** Oil Wick

Replacing: 1985247  
 Servicing: 37MT, 41MT, 42MT, 10461025, 10461031, 10478801, 10478802, 10478803, 10478804, 10478805, 10478806, 10478809, 10478810  
 Height/ thickness 10.50



Pkg. 5

**233159** Oil Wick

Replacing: 1988138, 1978754  
 Servicing: 37MT, 41MT, 42MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061  
 Height/ thickness 13.00



Pkg. 5

**233160<sup>#</sup>** Plug

Servicing: 37MT, 41MT, 42MT  
 OD 21.00, Height 9.50



Pkg. 5

**233162<sup>#</sup>** Pipe Plug

Replacing: 9427882, 453465, 10476564, 10476561, 10040001  
 Servicing: 10MT, 20MT, 22MT, 25MT, 27MT, 30MT, 35MT, 40MT, 50MT, 1009812, 10455321, 10455323, 10455336, 10459003, 10459005



Pkg. 10

**233408** Screw

Replacing: 9427815, 1984000, 1894931, 1891278  
 Servicing: 5MT, 10MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018, 10455019  
 Thread 10.32, Total length 41.00/64",  
 Thread length 1/2", Head type Hex  
 washer  
 w/ lock.



Pkg. 10

**233411** Screw

Replacing: 9413260, 132255  
 Servicing: 5MT, 10MT, 15MT, 20MT, 22MT, 25MT, 27MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455010, 10455011  
 Thread 1/4"-20 UNF, Total length 20.40,  
 Thread length 15.50



Pkg. 10

**233412** Screw

Replacing: 443527, 274875  
 Servicing: 10MT, 15MT, 20MT, 22MT, 25MT, 27MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310  
 Thread 8-32, Total length 47.00/64",  
 Thread length 5.00/8"  
 Hex washer head drive w/ serrated flange.

Pkg. 10



**233413** Screw

Replacing: 1959514

Servicing: 15MT, 20MT, 22MT, 25MT, 27MT, 1107506, 1107508, 1107509, 1107510, 1107511, 1107512, 1107513, 1107515, 1107516, 1107517

Thread 8-32, Total length 53.00/64", Thread length 3.00/4", Head type Hex washer

Pkg. 10



**233416#** Screw

Replacing: 1930611

Servicing: 30MT, 35MT, 1009812, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807

Thread 1/4"-20.00, Total length 15.45, Thread length 5/16"

Pkg. 10



**233417** Screw

Replacing: 1967747

Servicing: 10MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455314, 10455315

Thread 8-18, Total length 47.00/64", Thread length 5.00/8", Head type Hex washer w/ notch.

Pkg. 10



**233418** Nut

Replacing: 9412305

Servicing: 35MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800

Thread 5/16"-24, OD 1/2", Lock nut Yes Nylon insert.

Pkg. 10



**233419** Washer Kit

Replacing: 1970988

Servicing: 10MT, 20MT, 22MT, 25MT, 27MT, 10455314, 10455320, 10455322, 10455323, 10455324, 10455325, 10455326, 10455327, 10455331

ID 19.00/32.00, OD 9.00/32.00, Thickness 0.098"

Pkg. 10



**233694** Washer

Servicing: 28MT

ID 10.45, OD 23.60, Thickness 0.20, Material Steel

Pkg. 10



**233695** Washer

Servicing: 28MT

ID 10.50, OD 23.00, Thickness 0.80

Pkg. 10



**233979#** Insulator

Replacing: 1988125

Servicing: 37MT, 41MT, 42MT

Pkg. 5



**234301** Brake Washer

Servicing: 37MT

ID 23.80, OD 54.00, Thickness 3.40, Material Fiber

Pkg. 5



**234302#** Brake Washer

Replacing: 1985235

Servicing: 37MT, 10478805, 10478806, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819, 10478825, 10478826

ID 23.80, OD 54.00, Thickness 3.40

Pkg. 10



**235239** Drain Tube

Servicing: 00E091, 110397, 110566, 111534, 112161, 17610-Q1010, CER3087

Replacing Remy (Delco)

Pkg. 10



**235688** Stop Collar

Servicing: 19011501, 39mt  
ID 18.00, OD 24.40, Height 5.80

Pkg. 10



**235689** Retaining Ring

Replacing: 10511746  
Servicing: 38mt, 39mt  
ID/ housing 16.77,  
OD/ housing 20.67, Thickness 1.98,  
Material Steel, Position External  
Stop collar: HC-CARGO 235688.

Pkg. 10



**237966** Stud

Servicing: 10465054, 1113267, 1113270,  
1113296  
Thread 1/20", Thread 1/4",  
Total length 33.50

**Armatures**
**12 Volt**

**131930** Armature

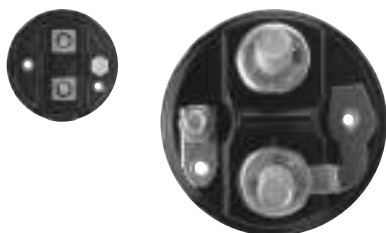
Replacing: 2134013, 2130701

Servicing: 2130, dm2130

 3 kW, Shaft length 311.75,  
Core thickness 73.65, No./ splines 6,  
Rotation CR

**Solenoids**
**Solenoid Parts**
**Solenoid Caps**

Pkg. 5


**131320#** Solenoid Cap

Replacing: 2137060

Servicing: 2130, 2140509, dm2130, dm2140

 No./ terminals 3, Bracket type Crimp  
HC-CARGO 131007.

**12 Volt**

**131006** Solenoid

Replacing: 2140509, 2140009

 12 V, B+ M8, Kl. 15a M5, Kl. 50 6.30,  
OD 45.65, OD/ cover 48.45,  
Total length 116.65, Height/ B+ 12.90,  
Width/ kl. 15a 13.00, Width/ kl. 50 8.70,  
Coil bolt M8, Coil bolt 2 7.75,  
No./ terminals 4  
Cap: HC-CARGO 133769.

**132069** Solenoid

Replacing: 2137081

Servicing: 2130, dm2130, dm2134

 12 V, B+ M10, Kl. 50 M5, ID/ cover 29.60,  
OD 57.00, OD/ cover 59.35,  
Total length 176.75, Height/ B+ 15.45,  
Width/ kl. 50 13.85, Coil bolt M10,  
Coil bolt 2 13.45, No./ terminals 3

**Drives**

**130434** Drive

Replacing: 2140108

 ID 12.00, OD 25.30,  
OD/ housing 46.45, Total length 61.70,  
Splines A 9, No./ teeth 9, Rotation CR

**132070** Drive

Replacing: 2155004

Servicing: 2130, dm2130, dm2134

 ID 14.05, OD 34.50,  
OD/ housing 63.00, Total length 77.50,  
Splines A 6, No./ teeth 9, Rotation CR

**Brush Sets**

**140465** Brush Set

Replacing: 2110501

Servicing: 2130, dm2130, dm2134

 12 V, Length 22.15, Lead length 38.00,  
Height 19.90, Thickness 8.81

**USX73-852** Brush Set

Replacing: 2140503

 12 V, Length 15.00, Lead length 50.00,  
Height 15.00, Thickness 8.00

Brush set w/springs: HC-CARGO 140849.

**Bushings**

Pkg. 10


**140040** Bushing

Replacing: 2142076

Servicing: M78, M79

 ID 12.00, OD 15.00, Length 12.00  
Alternative no.: b140040

Pkg. 10


**140043** Bushing

Replacing: 2140071

 ID 12.10, OD 15.05, Length 15.00  
Alternative no.: b140043

Pkg. 10


**140464** Bushing

Replacing: 2130510

Servicing: 2130, dm2130

ID 13.98, OD 18.00, Length 16.30

**Armatures**
**12 Volt**

**235787** Armature

Replacing: 1320-121-00X0

Servicing: 0355-502-0110

 4.5 kW, Shaft length 164.30,  
Core thickness 53.91, No./ splines 9,  
No./ teeth 9

**24 Volt**

**136517** Armature

Replacing: 1320-073-00x0

 Servicing: 0350-552-0311, 0350-552-0324,  
0350-552-0328, 0350-552-0334, 0350-552-  
0338, 0350-552-0363, 0350-552-0367, 0350-  
552-0415

 5.5 kW, Shaft length 176.80,  
Core thickness 65.00, No./ teeth 12

**138964** Armature

Replacing: 1320-097-00x0

 Servicing: 0350-602-0118, 0350-602-0140,  
0350-602-0149, 0350-602-0233, 0350-602-  
0240, 0350-602-0248, 0350-602-0250, 0350-  
602-0258

 6 kW, Shaft length 207.00,  
Core thickness 65.00, No./ teeth 12

**234106#** Armature

Replacing: 1320-077-00x0

 Servicing: 0350-402-0217, 0350-402-0228,  
0350-402-0247, 0350-402-0251, 0350-402-0257,  
0350-402-0260, 0350-402-0270, 0351-402-0116

 4.5 kW, Shaft length 160.00,  
Core thickness 58.00, No./ teeth 8

**234107** Armature

Replacing: 1320-098-00x0

 Servicing: 0350-502-0047, 0350-502-0057,  
0351-502-0033, 0351-502-0042

 4.5 kW, Shaft length 170.00,  
Core thickness 58.00, No./ teeth 8

**234108** Armature

Replacing: 1320-100-00x0

 Servicing: 0350-702-0150, 0350-702-0160,  
0350-702-0170, 0350-702-0180, 0350-702-0289,  
0350-702-0294, 0350-702-0319, 0350-702-0329

 7 kW, Shaft length 206.00,  
Core thickness 75.00, No./ teeth 12

**Field Cases**

**136524#** Field Case

Replacing: 1310-072-00x0

 Servicing: 0350-702-0141, 0350-702-0224,  
0350-702-0226, 0350-702-0234, 0350-702-0235,  
0350-702-0245, 0350-702-0249, 0350-702-0265

 24 V, 7 kW, OD/ middle 115.60,  
Length 121.20, Brush gear w/o,  
Magnets w/o

**136525#** Field Case

Replacing: 1355-028-00x0

 Servicing: 0350-552-0311, 0350-552-0324,  
0350-552-0328, 0350-552-0334, 0350-552-  
0338, 0350-552-0363, 0350-552-0367,  
28100-1700

 24 V, 5.5 kW, OD/ middle 100.50,  
Length 81.00, Brush gear w/o,  
Magnets w/o

**138969#** Field Case

Replacing: 1355-030-00x0

 Servicing: 0350-602-0090, 0350-602-0092,  
0350-602-0110, 0350-602-0118, 0350-602-  
0130, 0350-602-0139, 0350-602-0210, 0350-  
602-0212

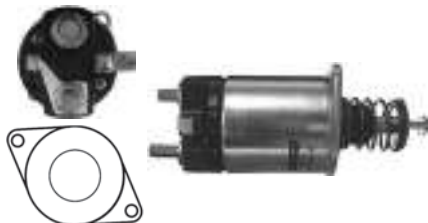
 24 V, 5.5/6 kW, OD/ middle 100.30,  
Length 111.15, Brush gear w/o,  
Magnets w/o

**232483#** Field Case

Replacing: 1310-108-00x0

 Servicing: 0350-602-0250, 0350-602-0258,  
0350-602-025X

 24 V, 6 kW, OD/ middle 100.40,  
Length 112.30, Brush gear w/o,  
Magnets w/o

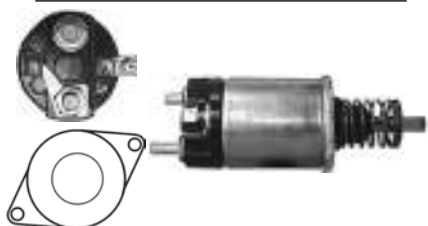
**Solenoids**
**24 Volt**

**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, 0350-552-0334, 0350-552-0338

24 V, B+ M10, Kl. 50 9.40, ID/ cover 21.80, OD 65.20, OD/ cover 64.75, Total length 195.45, Height/ B+ 25.10, Width/ kl. 50 24.95, Coil bolt M10, Coil bolt 2 17.55, No./ terminals 3

Cap: HC-CARGO 234554.

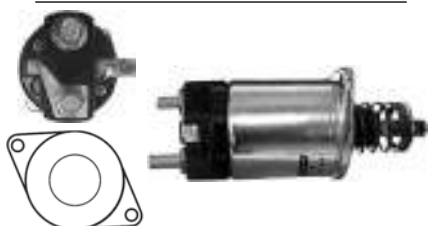

**136171 Solenoid**

Replacing: 1350-101-00x9

Servicing: 0350-702-0224, 0350-702-0226

24 V, B+ M10, Kl. 50 9.40, ID/ cover 22.30, OD 64.00, OD/ cover 64.65, Total length 203.25, Height/ B+ 24.40, Width/ kl. 50 25.20, Coil bolt M10, Coil bolt 2 18.35, No./ terminals 3

Cap: HC-CARGO 234554.

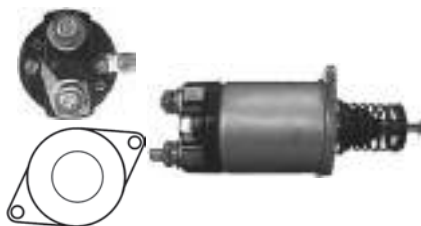

**136173 Solenoid**

Replacing: 1350-098-00x9

Servicing: 0350-402-0240, 0350-402-0244, 0350-402-0247, 0350-502-0010, 0350-502-0019, 0350-502-0020, 0350-502-0024, 0350-502-0027

24 V, B+ M10, Kl. 50 9.40, ID/ cover 22.15, OD 64.00, OD/ cover 64.35, Total length 193.45, Height/ B+ 25.00, Width/ kl. 50 26.00, Coil bolt M10, Coil bolt 2 18.65, No./ terminals 3

Cap: HC-CARGO 234554.

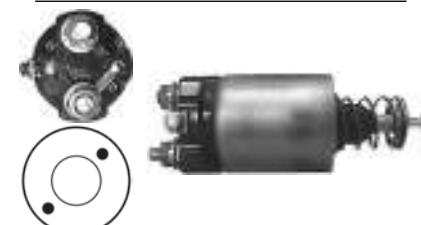

**136174 Solenoid**

Replacing: 1350-101-11x9, 1350-101-11x8, 1350-101-10x9

Servicing: 0350-702-0141, 0350-702-0230, 0350-702-0234, 0350-702-0235, 0350-702-0240, 0350-702-0245, 0350-702-0249, 0350-702-0260

24 V, B+ M10, Kl. 50 9.40, ID/ cover 22.30, OD 65.00, OD/ cover 64.65, Total length 199.30, Height/ B+ 25.60, Width/ kl. 50 24.10, Coil bolt M10, Coil bolt 2 18.55, No./ terminals 3

Cap: HC-CARGO 234554.


**136522 Solenoid**

Replacing: 1350-076-00x9

Servicing: 0350-602-0016, 0350-602-0020, 23300-96508, 23300-97061

24 V, B+ M10, Kl. 50 9.40, ID/ cover 22.25, OD 65.00, OD/ cover 64.80, Total length 192.80, Height/ B+ 23.70, Width/ kl. 50 13.00, Coil bolt M10, Coil bolt 2 17.90, No./ terminals 3

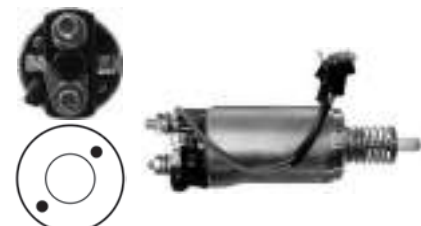

**136523 Solenoid**

Replacing: 1350-079-10x9, 1350-079-01x9, 1350-079-0109

Servicing: 0350-552-0062, 0350-552-0063, 0350-552-0110, 0350-552-0211, 03500-552-0211, 28100-1443, 28100-1630

24 V, B+ M10, Kl. 50 9.40, ID/ cover 22.00, OD 63.85, OD/ cover 64.30, Total length 195.00, Height/ B+ 24.30, Width/ kl. 50 14.20, Coil bolt M10, Coil bolt 2 18.55, No./ terminals 4

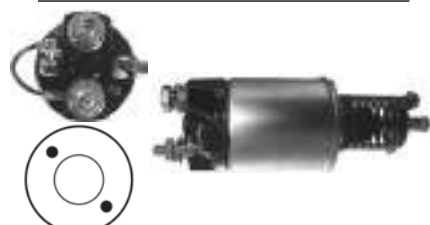
Cap: HC-CARGO 234552.


**136540 Solenoid**

Replacing: 1350-105-11x9, 1350-105-10x9, 1350-105-00x9

Servicing: 0351-702-0042, 0351-702-0073, 0351-702-0212, 0351-702-0224, 0351-702-0232, 0351-702-0243, 0351-702-0252, 0351-702-0292

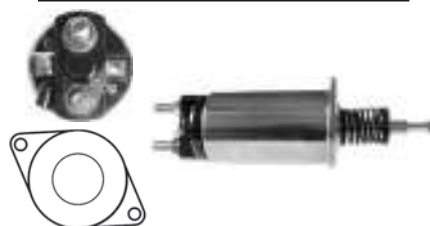
24 V, B+ M10, ID/ cover 21.60, OD 69.90, OD/ cover 64.90, Total length 253.90, Height/ B+ 26.80, Coil bolt M10, Coil bolt 2 29.80, No./ terminals 4


**137280 Solenoid**

Replacing: 1350-084-0119, 1350-083-20x9

Servicing: 0350-702-0024, 0350-702-0025, 0350-702-0060

24 V, B+ M10, Kl. 15a 9.40, Kl. 50 9.40, ID/ cover 22.20, OD 65.00, OD/ cover 64.45, Total length 202.50, Height/ B+ 24.50, Width/ kl. 15a 12.30, Width/ kl. 50 12.40, Coil bolt M10, Coil bolt 2 17.85, No./ terminals 4


**138967 Solenoid**

Replacing: 1350-111-11x9, 1350-111-10x9, 1350-109-32x9, 1350-109-31x9

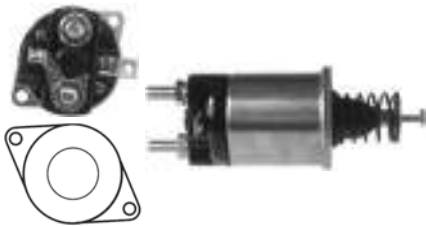
Servicing: 0351-702-0610, 0351-702-0612, 0351-702-0620, 0351-702-0622, 0351-702-0630, 0351-702-0632, 0351-702-0680, 0351-702-0682

24 V, B+ M10, Kl. 50 9.40, ID/ cover 21.60, OD 69.85, OD/ cover 64.50, Total length 266.20, Height/ B+ 30.20, Width/ kl. 50 25.95, Coil bolt M10, Coil bolt 2 27.85, No./ terminals 3



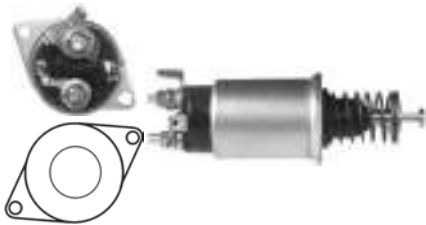
**232485#** Solenoid

Replacing: 1350-102-20x9  
 Servicing: 0351-602-025X, 0351-602-0413, 0351-602-0423  
 24 V, B+ M10, ID/ cover 20.80, OD 65.00, OD/ cover 65.00,  
 Total length 205.25, Height/ B+ 30.70,  
 Coil bolt M10, Coil bolt 2 25.70,  
 No./ terminals 3



**234544** Solenoid

Replacing: 1350-114-02x9  
 Servicing: 0350-502-0047, 0351-502-0042  
 24 V, B+ M10, Kl. 50 9.40, ID/ cover 22.25, OD 64.70,  
 OD/ cover 64.85, Total length 190.80,  
 Height/ B+ 27.85, Width/ kl. 50 24.95,  
 Coil bolt M10, Coil bolt 2 27.85,  
 No./ terminals 3



**234662** Solenoid

Replacing: 1350-126-71x9, 1350-126-70x9, 1350-126-03X9, 1350-126-02x9  
 Servicing: 0350-502-0214, 0350-502-0219, 0350-502-0233, 0350-502-0244, 0350-502-0512  
 24 V, B+ M8, Kl. 50 9.40, ID/ cover 22.40, OD 52.20,  
 OD/ cover 44.75, Total length 180.50,  
 Height/ B+ 21.85, Width/ kl. 50 11.55,  
 Coil bolt M8, Coil bolt 2 22.95,  
 No./ terminals 3



**333019** Solenoid

Replacing: 1350-121-00X9  
 Servicing: 0350-602-0233, 0350-602-0321  
 24 V, B+ M10, OD 65.10,  
 Total length 175.00, No./ terminals 3

**Solenoid Parts**

**Solenoid Caps**



**234552** Solenoid Cap

Servicing: 1350-079-01x9, 1350-079-10x9, 1350-084-01X9, 1350-084-10x9, 1350-121-00x9  
 No./ terminals 3



**234554** Solenoid Cap

Replacing: 1359-063-00x9, 1359-063-00x8  
 Servicing: 0350-402-0247, 0350-502-0019, 0350-502-0027, 0350-502-0067, 0350-502-0077, 0350-552-0311, 0350-552-0328, 0350-552-0338  
 No./ terminals 3  
 HC-CARGO 136170, 136171, 136173.

**Moving Contacts**



**234551** Moving Contact

Servicing: 1350-079-01x9, 1350-079-10x9, 1350-084-01X9, 1350-084-10x9, 1350-084-11X9, 1350-084-20X9, 1350-097-00x9, 1350-101-00x9  
 Shaft measurement 31.85, Thickness 5.00  
 Plate: 42.00x20.00x5.40 mm.

**Drives**



**136511** Drive

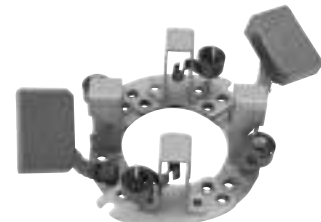
Replacing: 1361-053-10x0  
 Servicing: 0350-702-0141, 0350-702-0150, 0350-702-0180, 0350-702-0224, 0350-702-0226, 0350-702-0234, 0350-702-0235, 0350-702-0245  
 ID 20.10, OD 47.50,  
 OD/ housing 80.20, Total length 96.35,  
 Splines A 16, No./ teeth 11, Rotation CR



**136512#** Drive

Replacing: 1361-049-01x0  
 Servicing: 0350-552-0311, 0350-552-0324, 0350-552-0328, 0350-552-0334, 0350-552-0338, 0350-552-0343, 0350-552-0347, 0350-552-0353  
 ID 17.00, OD 40.30,  
 OD/ housing 71.60, Total length 80.80,  
 Splines A 16, No./ teeth 11, Rotation CR

**Brush Gears**



**136528** Brush Gear

Replacing: 1331-046-00x0, 1331-043-00x0  
 Servicing: 0350-702-0224, 0350-702-0234, 0350-702-0245, 0350-702-0265, 0350-702-0273, 0350-702-0284, 0350-702-0293, 0350-702-0314  
 OD 76.60  
 Neg. brushes. Brush set: HC-CARGO 140828.




**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, 0350-552-0367, 0350-552-0415

OD 72.65

Neg. brushes. Brush set: HC-CARGO 140829.

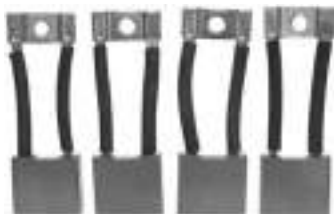

**232484** Brush Gear

Replacing: 1331-039-10x0

 Servicing: 0350-552-0347, 0350-552-0357,  
0350-552-0516, 0350-552-0910, 0350-602-  
0250, 0350-602-0258, 0350-602-025X

24 V, OD 72.85

6 kW.

**Brush Sets**

**140822#** Brush Set

Replacing: 2660-006-00x0

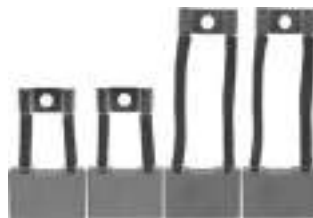
 Servicing: 0300-552-0011, 0300-552-0210,  
0300-552-0420, 0300-552-0910

 24 V, Length 25.00, Lead length 52.00,  
Height 25.00, Thickness 8.00

**140823** Brush Set

Replacing: 2660-057-00x0

 Servicing: 0350-552-0020, 0350-552-0030,  
0350-552-0063, 0350-552-0110, 0350-552-0141,  
0350-552-0211, 0350-602-0016, 0350-602-0037

 24 V, Length 20.00, Lead length 37.50,  
Height 28.00, Thickness 10.00

**140824** Brush Set

Replacing: 2660-068-10x0, 2660-068-00x0

 Servicing: 0351-702-0031, 0351-702-0042,  
0351-702-0073, 0351-702-0212, 0351-702-0224,  
0351-702-0232, 0351-702-0243, 0351-702-0252

 24 V, Length 22.00, Lead length 73.00,  
Lead length 2 37.00, Height 35.00,  
Thickness 10.00

**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, 0350-702-0265, 0350-702-0273

 24 V, 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, 0350-602-0139, 0350-602-0212

 24 V, Length 20.00, Lead length 39.50,  
Height 28.00, Thickness 10.00

**Bushings**

**140520** Bushing

Replacing: 2620-011-00x0, 2602-000-00x0

ID 19.00, OD 23.00, Length 19.00


**140832** Bushing

Replacing: 2620-105-00x9

 Servicing: 0350-103-0012, 0350-702-0011,  
0350-702-0025, 0350-702-0035, 0350-702-  
0043, 0350-702-0060, 0350-702-0070, 0350-  
702-0090

 ID 20.25, OD 23.30, Length 21.05  
w/ teflon.

Pkg. 5


**140835** Bushing

Replacing: 2620-094-00x9

 Servicing: 0350-402-0020, 0350-402-0116,  
0350-402-0123, 0350-402-0133, 0350-402-  
0217, 0350-402-0228, 0350-402-0247, 0350-  
402-0251

 ID 17.10, OD 19.05, Length 19.96  
w/ teflon.

**140836** Bushing

Replacing: 2620-108-00x9

 Servicing: 0350-402-0010, 0350-402-0032,  
0350-402-0260, 0350-402-0347, 0350-502-0020,  
0350-502-0032, 0350-502-0060, 0350-502-0131

 ID 19.10, OD 19.10, Length 19.93  
w/ teflon.

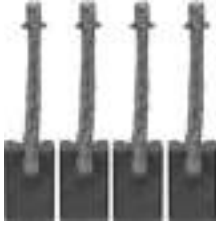
**140838#** Bushing

Replacing: 2620-106-00x9

 Servicing: 0350-702-0011, 0350-702-0025,  
0350-702-0035, 0350-702-0043, 0350-702-  
0060, 0350-702-0070, 0350-702-0090, 0351-  
702-0011

 ID 35.56, OD 38.22, Length 21.87  
w/ teflon.

**Brush Sets**



**140574** Brush Set

Replacing: IM0006

Servicing: m.101-12v-0,4kw

12 V, Length 15.00, Lead length 35.00,  
Height 10.00, Thickness 7.00

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**Drives**
**Drive Parts**
**Springs**

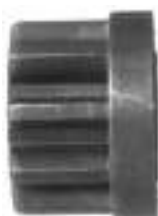
Pkg. 10


**234256# Spring**

 Replacing: 33431  
 Servicing: 32468, 32468a, 32468b, 33605,  
 33835, 35763, 35763a, 35765, 35765a  
 OD 12.15, Length 25.95

**Pinion**

**234121# Pinion**

 Replacing: 33844  
 Servicing: 33835  
 ID 10.25, OD 32.00, Height 31.00,  
 No./ teeth 11

**234122# Pinion**

 Replacing: 34949a  
 Servicing: 34934, 35707, 35709, 36086, 36123  
 ID 9.70, OD 26.90, Height 20.30,  
 No./ teeth 9

**Various**

Pkg. 10


**234254# Stop Collar**

 ID 12.55, OD 28.65, Height 9.75  
 Drive: HC-CARGO 234122.

Pkg. 10


**234261# Retaining Ring**

 Replacing: 33842  
 Servicing: 33835, 36914

**Brush Sets**

**141210 Brush Set**

 Replacing: 33849  
 Servicing: 33835  
 12 V, Length 16.80, Lead length 35.00,  
 Lead length 2 41.45, Height 9.50,  
 Thickness 6.30

**141211 Brush Set**

 Replacing: 32572  
 12 V, Length 14.20, Lead length 51.00,  
 Height 9.40, Thickness 7.90

**Bushings**

Pkg. 10


**141214 Bushing**

 Replacing: STC7100, 141214  
 ID 15.80, OD 20.00, Length 12.55

Pkg. 10


**141215 Bushing**

 Replacing: STC7101, 141215  
 ID 10.00, OD 19.05, Length 12.25

Pkg. 10


**141216 Bushing**

 Replacing: STC7102, 141216  
 Servicing: 33605, 33835  
 ID 12.70, OD/ collar 19.10, OD 15.80,  
 Length 11.40, Height/ collar 1.72

Pkg. 10


**141217 Bushing**

 Replacing: STC7103, 141217  
 Servicing: 33835  
 ID 9.60, OD/ collar 17.75, OD 12.70,  
 Length 9.62, Height/ collar 1.63



## Armatures

12 Volt



### 137042# Armature

Replacing: at13890, 1389040at30sm, 1389040

Servicing: 1149540MO30SM, 5071240MO30SM, sm02556, sm11495

Shaft length 184.60,  
Core thickness 55.25,  
No./ splines 6, Rotation ACR



### 137044# Armature

Replacing: at17800, at17767, 1780040at30sm, 1780040

Servicing: 1065221mo30sm, 4820440MO30SM, 4836940MO30SM, sm10652, sm11478, sm14916, sm48204

Shaft length 261.00,  
Core thickness 55.00,  
No./ splines 6, Rotation ACR



### 234213 Armature

Replacing: at13855, 1385540at30sm, 1385540

Servicing: 1077740dv30sm, 1122940-m030sm, 1799640MO30SM, 2030940mo30sm, 4367040mo30sm, 4367140mo30sm, 4367240MO30SM, 4769540mo30sm

Shaft length 198.50,  
Core thickness 55.20,  
No./ splines 6, Rotation ACR



### 234217 Armature

Replacing: 5667340, 5663540AT30SM

Shaft length 168.10,  
Core thickness 55.25,  
No./ splines 7, Rotation ACR

## C.E. Brackets



### 136655 C.E. Bracket

Replacing: cp551353as, cp20716, cp20250, cp01456, 4743140cp30sm, 2071640cp30sm, 2025040cp30sm, 1693240cp30sm

Servicing: 0139940m030sm, 0228940mo30sm, 0246540mo30sm, 0246640MO30SM, 0599440-m030sm, 0599540mo30sm, 0797740mo30sm, 0996140mo30sm

12 V. w/ brushes.



### 136660 C.E. Bracket

Replacing: cp551406as, cp551406a, 5703840cp30sm, 5668140cp30sm, 1822140cp30sm, 1127040cp30sm, 0261240cp30sm

Servicing: 0203740sm30sm, 0255640-mo30sm, 157440MO30SM, 1574440MO30SM, 1574540mo30sm, 1819040mo30sm, 4438540MO30SM, 5059240MO30SM

12 V. w/ brushes.



### 137045 C.E. Bracket

Replacing: cp48749, cp48719, cp48231, cp48230, cp48229, cp17188, 4872940sc-30sm, 4872940cp30sm, 4872940

Servicing: 1065221mo30sm, 1147840MO30SM, 4820140MO30SM, 4820440MO30SM, 4820540MO30SM, 4836940MO30SM, 4838740mo30sm, 4886540mo30sm

12 V. w/ brushes.



### 231003# C.E. Bracket

Replacing: 5265040cp30sm

Servicing: 4412040M030SM, 5273440M030SM

12 V. w/ brushes.



### 231004 C.E. Bracket

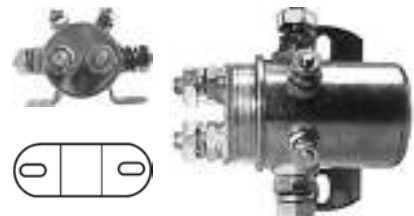
Replacing: cp18197a3, 566864cp30sm, 5668640c930sm, 2136140c930sm, 1819740cp30sm

Servicing: 1819140M030SM, 4733040mo30sm, 56666440M030SM, 5666640M030SM, SM18191

12 V. w/ brushes.

## Solenoids

12 Volt



### 138068 Solenoid

Replacing: so51189

12 V, 200 Amp, Intermittent load 900 Amp., B+ 5/16" UNF, Kl. 50 10-32 UNF, OD 42.00, Total length 89.35, Height/ B+ 12.00, Width/ kl. 50 8.00, Coil bolt 5/16" UNF, Coil bolt 2 12.00, Seconds 5, No./ terminals 6 Silver contact.

**24 Volt**

**230697 Solenoid**

Replacing: 6095740

24 V, B+ M8, Kl. 50 6.30,  
 ID/ cover 22.60, OD 53.20,  
 OD/ cover 44.45, Total length 166.30,  
 Height/ B+ 22.20, Width/ kl. 50 24.45,  
 Coil bolt M8, Coil bolt 2 22.20,  
 No./ terminals 3

**Drives**

**135400 Drive**

 Replacing: DV70175, dv18019,  
 7017540DV30SM, 7017540, 1801940dv30sm,  
 1801940

 Servicing: 0139940m030sm,  
 0228940mo30sm, 0246540mo30sm,  
 0246640MO30SM, 0319940m030sm,  
 0996340mo30sm, 1065221mo30sm,  
 1097028m030sm

 ID 12.85, OD 31.75, Total length 36.75,  
 Splines A 6, No./ teeth 10, Rotation ACR  
 Bronze.

**135401 Drive**

Replacing: dv16375, 1637540dv30sm

 Servicing: 0255640-m030sm,  
 4411940-m030sm, sm02556, sm44119,  
 SM48510

 ID 12.85, OD 43.00,  
 OD/ housing 41.30, Total length 36.40,  
 Splines A 6, No./ teeth 11, Rotation ACR  
 Bronze.

**135402 Drive**

 Replacing: dv70104, dv47871, dv08154,  
 7010440dv30sm, 4787140dv30sm,  
 0815440dv30sm

 Servicing: 0814240M030SM,  
 4820440M030SM, 4820540M030SM,  
 4886540mo30sm, 5275640M030SM,  
 5672740M030SM, sm08142, sm14916,  
 sm17183

 ID 12.15, OD 27.00, Total length 35.65,  
 Splines A 6, No./ teeth 8, Rotation ACR  
 Bronze.

**135403 Drive**

Replacing: dv02557, 0255740dv30sm

 Servicing: 0996140mo30sm, sm09961,  
 smh12b31, SMH12B37

 ID 12.15, OD 29.00,  
 OD/ housing 41.75, Total length 35.00,  
 Splines A 6, No./ teeth 9, Rotation ACR  
 Bronze.

**135404 Drive**

Replacing: dv20346, 2034640dv30sm

 Servicing: 1122940-m030sm,  
 1574440M030SM, 1574540mo30sm,  
 1799640M030SM, 5059240M030SM,  
 5071240M030SM, SM002610, sm02610,  
 sm10629

 ID 13.00, OD 36.55,  
 OD/ housing 41.80, Total length 35.50,  
 Splines A 6, No./ teeth 9, Rotation ACR

**135406 Drive**

Replacing: dv44192, 4419240dv30sm

 Servicing: 4412040M030SM,  
 5273440M030SM, sm44120

 ID 12.85, OD 29.00,  
 OD/ housing 41.75, Total length 36.85,  
 Splines A 6, No./ teeth 9, Rotation ACR  
 Bronze.

**135408 Drive**

Replacing: dv18200, 1820040dv30sm

 Servicing: 1819040-m030sm,  
 1819040mo30sm, 1819140M030SM,  
 2134940-M030SM, 2134940M030SM,  
 5213140-m030sm, 5213140M030SM

 ID 12.15, OD 29.00,  
 OD/ housing 41.50, Total length 36.55,  
 Splines A 6, No./ teeth 9, Rotation ACR  
 Bronze.

**135409 Drive**

 Replacing: dv551067as, dv551067a,  
 dv551067, dv47338, 5695KT30SM,  
 5695340KT30SM, 4733840dv30sm

 Servicing: 0599440-m030sm,  
 0599540mo30sm, 1570140mo30sm,  
 1635340-m030sm, 4733040mo30sm,  
 5129640mo30sm, 5665740M030SM

 ID 10.45, OD 32.25, Total length 28.00,  
 Splines A 7, No./ teeth 10, Rotation ACR



**135410** Drive

Replacing: dv551092as, dv551092a

Servicing: smh12a102, smh12a201, smh12a202, SMH13A102, SMH13A201, SMH13A202, SMH13A62  
ID 10.50, OD 32.20, OD/ housing 41.75, Total length 30.00, Splines A 4, No./ teeth 10, Rotation ACR Bronze.



**230399** Drive Kit

Replacing: 6024140ge30sm

Servicing: 6013840Mo30SM, 6019440mo30sm  
OD 40.00, Total length 19.50, No./ teeth 16

**Drive Parts**

**Pinion**



**139395** Pinion

Replacing: 280104

ID 20.50, OD 41.00, Height 11.50, Splines 2, No./ teeth 16

**Brush Sets**



**140714** Brush Set

Replacing: kt20249, kt10900, 6073540kt30sm, 5716740kt30sm, 5265440KT30SM, 4793640kt30sm, 2024940kt30sm

Servicing: 0139940m030sm, 0196540mo30sm, 0203740sm30sm, 0228940mo30sm, 0246540mo30sm, 0246640MO30SM, 0255640-mo30sm, 0319940m030sm

12 V, Length 11.10 (0.437"), Lead length 70.00, Lead length 2 34.44, Height 12.70 (0.500"), Thickness 7.90 (0.311") w/ bushings: HC-CARGO 140747.



**140747** Brush Set

Servicing: smh12a102

12 V, Length 11.10 (0.437"), Lead length 73.50, Lead length 2 37.00, Height 12.70 (0.500"), Thickness 7.90 (0.311")



**140749** Brush Set

Replacing: kt47601, kt21368, 4760140kt30sm, 2136840kt30sm

Servicing: 1819140M030SM, 2134940Mo30SM, 4367240M030SM, 4367340mo30sm, 4733040mo30sm, 5082740M030SM, 5129640mo30sm, 5213240Mo30SM

12 V, Length 11.10 (0.437"), Lead length 73.00, Lead length 2 37.00, Height 12.70 (0.500"), Thickness 7.90 (0.311")



**141053** Brush Set

Replacing: 391705

12 V, Length 14.90 (0.587"), Lead length 43.50, Height 9.40 (0.370"), Thickness 6.20 (0.244")

**Bushings**

Pkg. 10



**141226** Bushing

Replacing: bg661011s, 5664940

ID 13.20, OD 19.10, Length 11.90



**141227** Bushing

Replacing: bg3037s

Servicing: 0139940m030sm, 0228940mo30sm, 0246540mo30sm, 0246640M030SM, 0255640-mo30sm, 0261040mo30sm, 0599440-m030sm  
ID 8.50, OD 11.70, Length 10.00

Pkg. 10



**141228** Bushing

Replacing: bg3038s

Servicing: 0139940m030sm, 0228940mo30sm, 0246540mo30sm, 0246640M030SM, 0255640-mo30sm, 0261040mo30sm, 0599440-m030sm  
ID 17.10, OD/ collar 25.30, OD 20.10/25.30, Length 13.50, Height/ collar 1.55

**Sundry Parts**

**Various**



**231162** Stop Collar Kit

Replacing: kt18900, 5695240KT30SM, 1890040kt30sm, 1890040

Servicing: 1819040mo30sm, 1819140M030SM, 2134940Mo30SM, 5213140M030SM, 5213240Mo30SM, 5666240-mo30sm, 5666240mo30sm

**Armatures**
**12 Volt**

**130238** Armature

Replacing: ne029, 075658

Servicing: D8E121, D8E142, D8E152, D8E21, D8E81, D9E26, D9E37, D9E41

0.9 kW, Shaft length 239.55, Rotation CR, Core thickness 55.85, No./ splines 12


**130241** Armature

Replacing: ne034, 077771

Servicing: D8E117, D8E133, D8E137, D8E139, D8E140, D8E147, D8E151, D9E11, D9E17, D9E19, D9E28, D9E7, D9E9

0.9/1.05/1.15 kW, Shaft length 250.35, Core thickness 56.00, No./ splines 12, Rotation CR


**130949#** Armature

Replacing: ne296

Servicing: 534002A, 534003A, 534003B, 534003C, 534004A, 534004B, 534005A, 534005B, 534005C

0.8/1 kW, Shaft length 210.00, Rotation CR, Core thickness 60.00, No./ splines 9


**131020** Armature

Replacing: ne041, 095955

Servicing: D11E156, d11e161

2.5 kW, Shaft length 310.00, Rotation CR, Core thickness 76.00, No./ splines 12


**131069** Armature

Replacing: ne040, 095425

Servicing: d11e153, d11e153t

2.9 kW, Shaft length 330.00, Core thickness 75.40, No./ splines 12, Rotation CR


**131094#** Armature

Replacing: ne288

Servicing: 532002A, 532002B, 532002C, 532003A, 532003B, 532004A, 532004B, 532004C, 532009A, 532009B, 532010A, 532010B, 532018A

0.8/0.95/1 kW, Shaft length 244.50, Core thickness 56.50, No./ splines 11, Rotation CR


**131190** Armature

Replacing: ne050, 099741

Servicing: d11e172, d11e272

2.5 kW, Shaft length 282.90, Core thickness 75.65, No./ splines 9, Rotation CR


**131813** Armature

Replacing: ne053, 102380, 101581

Servicing: d9e100, d9e101, d9e108, d9e123, d9e124, d9e125, d9e127, d9e129, d9e137, d9e138, d9e200, d9e237, d9e238, d9e276, d9e278

1.05/1.2 kW, Shaft length 188.70, Core thickness 60.00, No./ splines 9, Rotation CR


**132027** Armature

Replacing: 594148, 182175, 182049

Servicing: d9r105, d9r1050, d9r106, d9r116, d9r118, d9r119, d9r122, d9r126, d9r134, d9r135, d9r139, d9r142, d9r144, d9r149, d9r73

2/2.2/3.1 kW, Shaft length 137.70,

Core thickness 60.00, Rotation CR

Gear: HC-CARGO 135867.


**132028** Armature

Replacing: 594028, 192053, 182053

Servicing: d9r112, d9r121, d9r84, D9RP256

2/3.1 kW, Shaft length 128.80,

Core thickness 60.00, No./ teeth 15,

Rotation CR

Gear: HC-CARGO 135867.


**132107** Armature

Replacing: 182227, 104147

Servicing: D10E85, D10E88, D10E881, D10E882, D10E89, D10E92, D10E921, d15e30te

2.15 kW, Shaft length 238.50,

Core thickness 65.30, No./ splines 9,

Rotation CR


**132109** Armature

Replacing: 105294

Servicing: d11e191, d11e192, d11e195

2.5 kW, Shaft length 305.00,

Core thickness 75.90, No./ splines 9,

Rotation CR





**132173** Armature

Replacing: ne046, 098356  
 Servicing: d11e169, d11e176  
 2.8/2.9 kW, Shaft length 319.20,  
 Core thickness 75.50, No./ splines 9,  
 Rotation CR



**132199** Armature

Replacing: ne054, 101649  
 Servicing: d11e177  
 1.4 kW, Shaft length 291.50,  
 Core thickness 76.20, No./ splines 9



**132486** Armature

Replacing: TM200B01601B  
 Servicing: HK988300, MG120413, MG120445,  
 MG122404, MG122433, tm000a06101,  
 TM000A06901, TM000A14901  
 2 kW, Shaft length 152.00,  
 Core thickness 53.20, No./ teeth 9,  
 Rotation CR/ACR



**132618** Armature

Replacing: 101923  
 Servicing: d9e31, d9e32, d9e40, d9e45,  
 d9e53, d9e64, d9e75, d9e82, d9e87, d9e95  
 1.05/1.2 kW, Shaft length 203.50,  
 Core thickness 60.00, No./ splines 9,  
 Rotation CR



**133136** Armature

Replacing: ne042, 095981  
 Servicing: D11E142, d11e159, d11e165  
 1.95 kW, Shaft length 280.50,  
 Core thickness 75.90, No./ splines 12,  
 Rotation CR



**133214** Armature

Replacing: ne500, 095965  
 Servicing: d11e155  
 2.9 kW, Shaft length 337.50,  
 Core thickness 75.70, No./ splines 12,  
 Rotation CR



**133221** Armature

Replacing: ne295  
 Servicing: 532012A, 532012B, 532021A,  
 532023A  
 0.75 kW, Shaft length 219.50,  
 Core thickness 56.60, No./ splines 9,  
 Rotation ACR



**133970** Armature

Replacing: NC082, 092999  
 3.5 kW, Shaft length 328.00,  
 Core thickness 75.00, No./ splines 12,  
 Rotation CR



**134513** Armature

Replacing: 594526  
 Servicing: d6ra10, D6RA100, D6RA105,  
 d6ra11, D6RA115, d6ra12, d6ra13, D6RA132,  
 d6ra133, d6ra15, d6ra16, d6ra162,  
 D6RA165, D6RA168  
 1.1 kW, Shaft length 111.90,  
 Core thickness 44.20, No./ teeth 13,  
 Rotation CR/ACR



**134628** Armature

Replacing: ne089, 098360  
 1.5 kW, Shaft length 257.50,  
 Core thickness 65.00, No./ splines 10,  
 Rotation CR



**134736** Armature

Replacing: 2EM0689H  
 Servicing: M000A0240Z, M35216, M39376,  
 M39646, M43196, MC107023, MC108024,  
 MC109015, MC109018, MC109021,  
 MC109025, MC109028  
 0.8 kW, Shaft length 183.10,  
 Core thickness 60.00, No./ splines 8,  
 Rotation CR



**134935** Armature

Replacing: 074771  
 Servicing: d11e131, d11e146  
 2.9 kW, Shaft length 325.50,  
 Core thickness 75.90, No./ splines 6,  
 Rotation CR


**135387** Armature

Replacing: ne824, 594344, 594278, 594112, 182591

Servicing: 1250128, d7r1, d7r11, d7r12, D7R127, d7r13, d7r14, d7r15, d7r151, d7r16, d7r17, d7r18, d7r19, d7r2, d7r20, d7r22, d7r23  
1.4/1.7 kW, Shaft length 141.00, Core thickness 50.00, No./ splines 16


**136427** Armature

Replacing: 074653

Servicing: d11e119, d11e119t, d11e129, d11e129t, d11e137, d11e141, D11E154  
2.9 kW, Shaft length 337.50, Core thickness 75.65, No./ splines 6, Rotation CR


**136881** Armature

Replacing: 095972

Servicing: d11e158, d11e160  
2.6 kW, Shaft length 305.40, Core thickness 75.60, No./ splines 12, Rotation CR


**137291** Armature

Replacing: 075371

Servicing: d11e120  
2.6 kW, Shaft length 305.50, Core thickness 75.70, No./ splines 6, Rotation CR


**139434** Armature

Replacing: 594519

Servicing: d7e1, d7e15, D7E16, d7e18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E27, d7e29, D7E30, d7e31, d7e32, D7E38, d7e4  
0.85/1 kW, Shaft length 155.50, Core thickness 50.00, No./ splines 10


**139593** Armature

Replacing: 594531, 594529

Servicing: D6RA100, D6RA105, D6RA107, D6RA115, D6RA12, D6RA137, d6ra138, d6ra141, D6RA15, d6ra161, D6RA163, d6ra168, D6RA185  
1.1 kW, Shaft length 111.92, Core thickness 44.30, No./ teeth 8, Rotation CR


**230250** Armature

Replacing: 594530, 594528

Servicing: 626002, d6ra100, d6ra101, d6ra104, d6ra105, d6ra107, d6ra108, d6ra109, d6ra110, D6RA114, d6ra115, D6RA15, D6RA167  
1.1 kW, Shaft length 112.00, Core thickness 44.00, No./ teeth 7


**233503#** Armature

Replacing: 092010, 076828

Servicing: D8E116, D8E99  
0.75 kW, Shaft length 231.40, Core thickness 55.90, No./ splines 9, Rotation ACR


**233767** Armature

Replacing: 594518

Servicing: d7e1, d7e16, D7E18, d7e19, D7E2, d7e20, d7e22, d7e23, D7E25, d7e26, d7e27, D7E30, D7E31, D7E32, D7E38, D7E39, D7E4  
0.85 kW, Shaft length 155.50, Core thickness 50.00, No./ splines 10, Rotation CR


**235493#** Armature

Replacing: 594520

Servicing: d7es2, d7es4  
1.4 kW, Shaft length 160.40, Core thickness 50.00, No./ splines 10, Rotation ACR


**235790** Armature

Replacing: NE018, 58071

Servicing: d11e102, d11e111, d11e135, d11e140, d11e144, D11E61, d11e70, d11e74, d11e75, d11e78, d11e84, d11e86, d11e93, d11e95  
Shaft length 310.50, Core thickness 75.90, No./ splines 6, Rotation CR


**235870** Armature

1.8 kW, Shaft length 145.50, Core thickness 49.70, No./ teeth 16



**236611** Armature  
 Replacing: 594673, 236611  
 Servicing: D6GS11, D6GS12  
 1 kW, Shaft length 111.85,  
 Core thickness 44.30, No./ teeth 13,  
 Rotation CR



**236796** Armature  
 Replacing: 236653  
 Servicing: D6G1, D6G32, D6G321, TS12E9,  
 TS14E11, TS14E110  
 1.3 kW, Shaft length 111.90,  
 Core thickness 44.25, No./ teeth 10,  
 Rotation CR



**239544** Armature  
 Replacing: 594112  
 Servicing: 188839, d7r19, d7r22, d7r23, d7r28,  
 d7r281, d7r33, d7r34, d7r35, d7r40, d7r43,  
 d7r44, D7R46, d7r47, D7R48, d7r49, d7r53  
 2.2 kW, Shaft length 141.95,  
 Core thickness 50.00, No./ teeth 16,  
 Rotation CR

**24 Volt**



**132953** Armature  
 Replacing: 059724  
 Servicing: d13e105, d13e111, d13e73,  
 d13e73te, d13e74, d13e74te, d13e78, d13e78te,  
 d13e79, d13e79te, d13e80, d13e88, d13e95  
 7.7/8.4 kW, Shaft length 406.10,  
 Core thickness 84.85, No./ splines 6,  
 Rotation CR



**132954<sup>#</sup>** Armature  
 Replacing: 075914  
 Servicing: D13E107TE, d13e109te, D13E110,  
 D13E110TE, d13e76, d13e77, d13e77t, d13e86te,  
 d13e87te, D13E93TE, D13E94TE, d13e96te  
 8.8 kW, Shaft length 463.30,  
 Core thickness 85.00, No./ splines 6,  
 Rotation CR/ACR



**132956** Armature  
 Replacing: 106062  
 Servicing: d13e117te, d13e118te, d13e119te,  
 d13e120te, d13e121te, d13e122te, D13E123,  
 D13E1231TE, d13e123te  
 8.8 kW, Shaft length 432.90,  
 Core thickness 84.85, No./ splines 19,  
 Rotation CR/ACR



**139221<sup>#</sup>** Armature  
 Replacing: 073695  
 Servicing: d11e122, d11e122t, d11e128,  
 d11e128t  
 4.7 kW, Shaft length 342.55, Rotation CR,  
 Core thickness 75.85, No./ splines 6



**231466** Armature  
 Replacing: 594192  
 Servicing: d13hp701, d13hp702, d13hp703,  
 d13hp704, d13hp705, d13hp709  
 7.7 kW, Shaft length 433.00,  
 Core thickness 85.00, No./ splines 19,  
 Rotation CR



**233697** Armature  
 Replacing: ne936, 594219  
 Servicing: D13HP601, d13hp605, d13hp607,  
 d13hp608, d13hp609, d13hp613  
 6.6 kW, Shaft length 397.00,  
 Core thickness 84.80, No./ splines 19

**Yokes w/magnets**



**133079** Gear Set  
 Replacing: 594237, 594234, 594232, 594207,  
 594151, 594105, 594021, 594019, 594015  
 Servicing: d6ra10, d6ra12, d6ra13, D6RA132,  
 D6RA141, d6ra16, d6ra18, d6ra20, d6ra22,  
 D6RA23, d6ra26, d6ra30, d6ra32, D6RA33  
 12 V, 1.1 kW, Oil sealed No, Waterproof No  
 Outer gear plate: HC-CARGO 133954.



**135420** Gear Set  
 Replacing: 594022, 594020  
 Servicing: D6RA15, D6RA47, D6RA7  
 12 V, 1.1 kW  
 Outer gear plate: HC-CARGO 133954.



**136908** Gear Set  
 Replacing: 594024  
 Servicing: d6ra20, D6RA21, D6RA42,  
 D6RA43, D6RA44  
 12 V, 1/1.3 kW, Rotation ACR


**138187#** Gear Set

Replacing: 594448, 594412, 594238, 594236  
 Servicing: d6ra100, D6RA101, D6RA104, d6ra107, d6ra109, d6ra110, D6RA185, D6RA63, D6RA70, d6ra76, D6RA77, d6ra78, d6ra79, D6RA84  
 12 V, 1/1.3 kW, Rotation ACR  
 Outer gear plate: HC-CARGO 133954.


**231072** Gear Set

Replacing: 594363  
 Servicing: D6RA181, D6RA81  
 12 V, 1.1 kW

**12 Volt**

**137399** Yoke

Replacing: 594535, 594534  
 Servicing: 626002, d6ra10, d6ra100, d6ra101, d6ra104, d6ra105, d6ra107, d6ra108, d6ra109, d6ra110, D6RA114, d6ra115, d6ra12  
 12 V, 1.1 kW, OD/ middle 63.55, Length 96.25, Brush gear w/o, Magnets w/


**230020** Yoke

Servicing: D6RA42, D6RA43  
 12 V, OD/ middle 63.40, Length 96.25, Rotation ACR, Brush gear w/o, Magnets w/

**Field Cases**

**135392** Field Case

Replacing: ne845, 594305, 594276, 594115  
 Servicing: d7r1, d7r11, D7R12, D7R127, d7r13, d7r15, d7r151, d7r16, d7r17, d7r18, d7r2, D7R20, D7R22, D7R24, d7r25, d7r26, D7R27  
 12 V, 1.4/1.7 kW, OD/ middle 76.30, Length 119.35, Brush gear w/, Magnets w/o  
 Field coil: HC-CARGO 138857.


**139985** Field Case

Replacing: 594354, 594277  
 Servicing: 188839, d7r19, D7R23, d7r28, D7R281, D7R34, d7r36, D7R37, D7R40, d7r43, D7R46, D7R48, D7R49, D7R61, D7R64, D7RP204  
 12 V, 2/2.2 kW, OD/ middle 76.20, Length 116.15, Brush gear w/, Magnets w/o  
 Field coil only: HC-CARGO 233853.


**231476** Field Case

Replacing: 594523, 594522, 594478, 594477  
 Servicing: d7e1, d7e15, d7e16, d7e18, d7e19, D7E2, d7e20, d7e22, d7e23, D7E25, d7e26, d7e27, d7e29, D7E30, d7e31, d7e32, D7E38  
 12 V, 0.85/1 kW, OD/ middle 78.30, Brush gear w/, Magnets w/o  
 Brush gear: HC-CARGO 139224. Brush set: HC-CARGO PSX1554.


**234386** Field Case

Replacing: 594394  
 Servicing: d7r47, D7RS129, D7RS130, D7RS131, D7RS29, D7RS30, D7RS301, D7RS31  
 12 V, 2 kW, OD/ middle 76.20, Length 116.50, Rotation ACR, Brush gear w/, Magnets w/o

**Field Case Parts**
**Magnets**

**138850** Magnet (north)

Servicing: 626002, D6RA10, D6RA100, D6RA114, D6RA13, D6RA16, D6RA161, D6RA18, D6RA20, D6RA22, D6RA38, D6RA5, D6RA52, D6RA64  
 Length 45.55, Height 8.00, Width 29.85, Pole type North


**138851** Magnet (south)

Length 45.60, Height 10.40, Width 30.00, Pole type South

**Field Coils**
**12 Volt**

**131127** Field Coil

Replacing: ne092, 102101, 101061, 099382  
 Servicing: d9e100, d9e102, d9e131, D9E138, d9e200, D9E238, d9e300, d9e31, d9e32, d9e40, d9e43, d9e44, d9e45, d9e46, D9E49, D9E51  
 12 V, 1.05 kW, Height 80.65, Width 197.40, Internal height 48.65, Inner width 24.20


**132108#** Field Coil

Replacing: ne103, 104150

Servicing: d10e85, d10e87, d10e88, d10e881, d10e882, d10e89, d10e90, d10e92, d10e921, d10e922

12 V, 2.15 kW, Height 110.65, Internal height 78.35, Inner width 25.00


**132110#** Field Coil

Replacing: ne427, 105328

Servicing: d11e191, d11e192

12 V, 2.5 kW, Height 144.45, Width 239.25, Internal height 85.45, Inner width 27.35


**133167** Field Coil

Replacing: 182201, 099745

Servicing: d11e172, d11e272

12 V, 2.5 kW, Height 131.20, Width 268.25, Internal height 85.70, Inner width 26.00


**133168** Field Coil

Replacing: ne098, 101646

Servicing: d11e177

12 V, 1.4 kW, Height 114.55, Width 255.70, Internal height 72.85, Inner width 25.20


**133991** Field Coil

Replacing: 101582

Servicing: d9e101, d9e107, d9e108, d9e109, d9e110, d9e113, d9e114, d9e123, d9e124, d9e125, d9e127, d9e129, d9e132, d9e136, D9E137

12 V, 1.05 kW, Height 79.25, Width 197.80, Internal height 47.30, Inner width 24.00


**134083#** Field Coil

Replacing: ne081, 095033, 077774

Servicing: D9E11, d9e16, d9e21, D9E7, d9e9

12 V, 1.05/1.15 kW, Height 92.85, Width 189.20, Internal height 62.80, Inner width 20.40


**134360#** Field Coil

Replacing: ne510, 098802, 095755, 094701, 093566, 093141, 076885

Servicing: D8E109, d8e117, D8E121, d8e122, d8e124, D8E126, D8E132, D8E133, d8e137, D8E140, D8E142, D8E147, d8e151, D8E152, D8E21

12 V, 0.9 kW, Height 93.20, Width 184.60, Internal height 62.75, Inner width 16.95


**136320** Field Coil

Replacing: 594240, 594157, 544059, 182498, 182051

Servicing: d9r105, d9r1050, d9r106, D9R116, d9r118, d9r119, d9r122, d9r126, d9r134, d9r135, d9r139, d9r142, D9R144, d9r149, d9r73

12 V, 2/2.2/3.1 kW, Height 85.00, Width 104.50, Internal height 47.25, Inner width 23.50


**136428** Field Coil

Replacing: 074077

Servicing: d11e119, d11e119t, d11e129, d11e129t, d11e131, d11e137, d11e141, d11e146, d11e154, d11e155, d11e169

12 V, 2.9 kW, Height 119.45, Internal height 86.75, Inner width 26.70


**137289** Field Coil

Replacing: 073315

Servicing: d11e118, d11e120, d11e158, d11e160

12 V, 2.6 kW, Height 101.50, Internal height 64.15, Inner width 26.15


**138857** Field Coil

Replacing: 182594

Servicing: D7R1, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, d7r16, D7R17, D7R18, D7R2, D7R20, d7r24, D7R25, D7R26, D7R27, D7R3

 12 V, 1.4/1.7 kW, Height 60.15, Internal height 31.15, Inner width 14.30  
 Yoke: HC-CARGO 135392.

**233853#** Field Coil

Servicing: 188839, d7r19, d7r28, D7R281, D7R37, D7R40, d7r43, D7R46, D7R48, D7R49, D7R61, D7R64

12 V, 2/2.2 kW, Height 65.40, Width 175.00, Internal height 34.80, Inner width 16.60


**235789** Field Coil

Replacing: 97895

Servicing: d11e102, d11e111, d11e140, d11e144, D11E61, d11e70, d11e74, d11e75, d11e77, d11e93, d11e95, d11e97

12 V, 3 kW, Height 128.45, Width 251.00, Internal height 85.00, Inner width 25.50

**24 Volt**

**137957** Field Coil

Replacing: 182039

Servicing: d13e117te, d13e118te, d13e119te, d13e120te, d13e121te, d13e122te, D13E123, D13E1231TE, d13e123te

24 V, 8.8 kW, Height 165.50, Internal height 110.90, Inner width 30.50


**230599** Field Coil

Replacing: 594195

Servicing: d13hp701, d13hp702, d13hp703, d13hp705, d13hp709

24 V, 7.7/8 kW, Height 167.45, Width 306.80, Internal height 112.60, Inner width 27.85


**230733** Field Coil

Replacing: 594221

Servicing: d13hp601, d13hp605, d13hp607, d13hp608, d13hp609, d13hp613

24 V, 6.6/7.2 kW, Height 145.00, Internal height 89.30, Inner width 29.15

**C.E. Brackets**

**137219** C.E. Bracket

Replacing: TM009C02001Z

Servicing: MG120413, MG122404, MG122433, MG232415, tm000a06101, TM000A06901

ID 76.50


**230032** C.E. Bracket

Replacing: 594253, 594130, 594129

Servicing: D6RA10, D6RA100, D6RA107, D6RA110, d6ra12, D6RA13, D6RA132, D6RA133, D6RA141, D6RA15, D6RA16, D6RA161, D6RA162, D6RA163

 Include: *Brush set: HC-CARGO PSX144-145K. Brush gear: HC-CARGO 133647. Gasket: HC-CARGO 134106.*

**230214** C.E. Bracket

Servicing: d9r105, d9r118, D9R121, d9r122, d9r73, D9R84, d9r89, d9r90, d9r91, d9r97, d9r99


**231000** C.E. Bracket

Replacing: 2EM0578E

Servicing: M000A0240Z, M04686, M35216, M39376, M39646, M43196, MC107023, MC108024, MC108027, MC108030, MC109011, MC109015

ID 84.50


**231351**<sup>#</sup> C.E. Bracket

Replacing: 180546

Servicing: D13E117TE, D13E118TE, D13E123, D13E1231TE, d13e123te, d13hp703

ID 101.00

*w/ springs and negative brushes.*

**231354** C.E. Bracket

Servicing: 626002, D6RA10, D6RA100, D6RA101, D6RA104, D6RA105, D6RA107, D6RA114, D6RA115, D6RA12, D6RA13, D6RA137, D6RA138


**233914**<sup>#</sup> C.E. Bracket

Replacing: 73726n

Servicing: d11e122, d11e122t


**235187** C.E. Bracket

Servicing: d7e1, d7e15, d7e16, d7e18, d7e19, d7e2, d7e20, d7e22, d7e23, D7E25, d7e26, d7e27, d7e29, D7E30, d7e31, D7E32, D7E39

**D.E. Brackets**

**135485** D.E. Bracket

Replacing: 2EM0654B

Servicing: M39646, MC107012, MC107023, MC109018, MC109025, TM000A27301





**230218** D.E. Bracket

Replacing: 096414

Servicing: D11E163, d11e169, D11E173, D11E176, d11e177, D11E187



**231193** D.E. Bracket

Replacing: tm090a04301

Servicing: M39376, mc109032



**231238** D.E. Bracket

Replacing: 594579

Servicing: d6ra132, d6ra162, D6RA163, D6RA249, D6RA293, d6ra32, d6ra62, D6RA93



**231537** D.E. Bracket

Replacing: 594569

Servicing: d6ra133, d6ra33, d6ra46, d6ra56, d6ra61, d6ra72, d6ra73



**231849** D.E. Bracket

Replacing: 100234



**233125** D.E. Bracket

Servicing: d9r73



**233317** D.E. Bracket

Replacing: 594488

Servicing: d7r13, d7r18, d7r25, d7r35



**233318** D.E. Bracket

Replacing: 594487

Servicing: d7r12, D7R127, D7R2, d7r20, d7r24, d7r26, d7r27, D7R32, D7R4, D7R8, D8R27, D8R29



**233801#** D.E. Bracket

Servicing: d9r119, d9r149, D9RP160



**234152** D.E. Bracket

Replacing: 594592

Servicing: d6ra83, D6RAD183, D6RADP359



**234172** D.E. Bracket

Servicing: M52100, M53486, TM000A07901, TM000A08401



**234188** D.E. Bracket

Replacing: 594573

Servicing: d6ra45, d6ra53



**234390** D.E. Bracket

Replacing: 594501

Servicing: D7RS130, d7rs30, D7RS301



**234391** D.E. Bracket

Replacing: 594502

Servicing: D7RS131, d7rs31



**235133** D.E. Bracket

Replacing: 594510

Servicing: d7e19, d7e22, d7e27, d7e4, d7e6, TS10E3, TS10E4, TS10E5


**235335** D.E. Bracket

Replacing: 594508

Servicing: d7e18, d7e28, D7E38, d7e4, d7e8, d7ed28, D7ED281

Bearing: HC-CARGO 141233.


**236805** D.E. Bracket

Replacing: 594597

Servicing: d6ra105, d6ra115

### I.M. Brackets


**139139** I.M. Bracket

Servicing: d9r112, D9R116, D9R118, D9R119, d9r121, D9R122, D9R142, D9R144, D9R149, d9r73, d9r84, d9r89, d9r90, d9r91, D9R97, d9r99

Bushing: HC-CARGO 140258. Needle bearing: HC-CARGO 140375.


**231196** I.M. Bracket

Replacing: TM008B00601Z

Servicing: HK988300, MG120413, MG120445, tm000a06101, TM000A14901


**231720#** I.M. Bracket

Replacing: 074657

Servicing: d11e118, d11e119, d11e120, d11e131, d11e137, d11e139t, d11e141, d11e146, d11e148, d11e158, D11E167T, d11e193

### Solenoids

#### 12 Volt

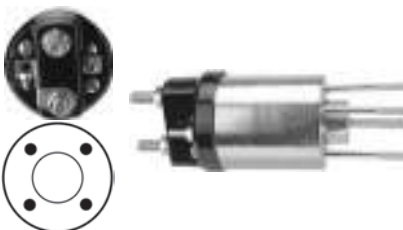

**131009** Solenoid

Replacing: ne361, ne355

Servicing: 532026A, 6020E, 6020EF, 6020F, 6035F, 6081E, 6081F

12 V, B+ M8, Kl. 50 6.30, OD 46.00, OD/ cover 47.80, Total length 107.80, Height/ B+ 16.00, Width/ kl. 50 16.35, Coil bolt M8, Coil bolt 2 8.55, No./ terminals 3

Cap: HC-CARGO 131321.


**131071** Solenoid

Replacing: ced539, ced512, ced510, ced502, ced501, 182438, 095759, 094795, 074764, 073302

Servicing: d10e47, d10e48, d10e54, d10e63, d10e64, d10e73, d10e80, d10e84, d11e118, d11e119, d11e119t, d11e120, D11E126, d11e129

12 V, B+ M8, Kl. 50 M5, OD 54.35, OD/ cover 60.80, Total length 171.35, Height/ B+ 14.70, Width/ kl. 50 11.50, Coil bolt M8, Coil bolt 2 11.35, No./ terminals 3

Cap: HC-CARGO 134401.


**131171** Solenoid

Replacing: ced529, 182461, 102217

Servicing: d10e88, d10e881, d10e882, d10e89, d10e90, d9e102, d9e108, d9e127, D9E36, d9e38, d9e48, d9e49, d9e50, d9e51, d9e53

12 V, B+ M8, Kl. 50 6.30, OD 53.90, OD/ cover 47.00, Total length 113.15, Height/ B+ 15.40, Width/ kl. 50 14.50, Coil bolt M8, Coil bolt 2 11.00, No./ terminals 3

Cap: HC-CARGO 132033.

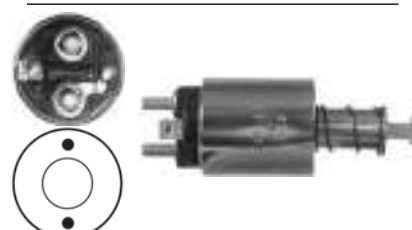

**131208** Solenoid

Replacing: 077265

Servicing: 6099C, 6099D

12 V, B+ M8, Kl. 50 6.30, OD 45.80, OD/ cover 47.75, Total length 127.65, Height/ B+ 16.70, Width/ kl. 50 9.25, Coil bolt M8, Coil bolt 2 9.80, No./ terminals 3

Cap: HC-CARGO 133768.


**131431** Solenoid

Replacing: 442911

12 V, B+ M8, Kl. 50 9.40, OD 52.15, OD/ cover 44.35, Total length 125.55, Height/ B+ 18.70, Width/ kl. 50 11.70, No./ terminals 3

Cap: HC-CARGO 134620. Moving contact: HC-CARGO 139853.





**131584** Solenoid

Replacing: ne138, ced544, ced538, ced533, 105489, 103794, 103489, 102849

Servicing: D10E88, D10E881, D10E882, D10E89, D9E127, D9E38, D9E48, D9E49, D9E51, D9E53, D9E56, D9E57, D9E61, D9E62, D9E64, D9E66

12 V, B+ M8, Kl. 50 6.30, ID/ cover 25.15, OD 54.00, OD/ cover 44.25, Total length 112.20, Height/ B+ 15.35, Width/ kl. 50 14.15, Coil bolt M8, Coil bolt 2 10.70, No./ terminals 3  
Cap: HC-CARGO 132826. Moving contact: HC-CARGO 132037.



**131797** Solenoid

Replacing: NE362

Servicing: 6056H, 6056J, 6109F, 6109G, 6109H, 6109K, 6109L

12 V, B+ M8, Kl. 50 M5, OD 45.80, OD/ cover 47.65, Total length 128.00, Height/ B+ 14.50, Width/ kl. 50 13.60, Coil bolt M8, Coil bolt 2 15.10, No./ terminals 3  
Cap: HC-CARGO 133768.

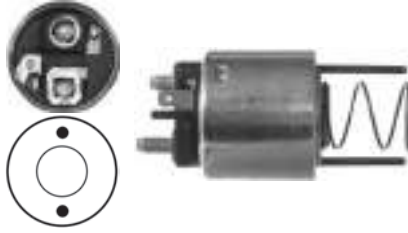


**131798** Solenoid

Replacing: NE137, ne132, ced468, ced461, ced460, ced458, ced454, ced451, ced448, ced444, ced442, ced439

Servicing: d10e66, d10e72, d10e74, d10e79, d10e96, d8e107, d8e112, d8e115, d8e117, d8e120, d8e121, d8e123, d8e129, d8e130, d8e131

12 V, B+ M8, Kl. 15a M5, Kl. 50 6.30, ID/ cover 20.15, OD 46.75, OD/ cover 51.35, Total length 158.50, Height/ B+ 19.00, Width/ kl. 15a 10.00, Width/ kl. 50 12.45, Coil bolt M8, Coil bolt 2 14.55, No./ terminals 4  
Cap: HC-CARGO 131333.

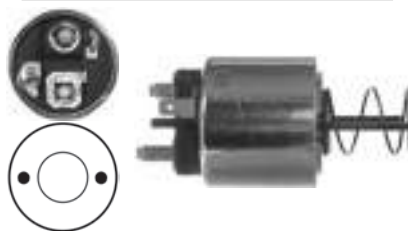


**132024** Solenoid

Replacing: ced550, 181404

Servicing: d9e104, d9e40, d9r90, d9r96, d9r97

12 V, B+ M8, Kl. 50 6.30, ID/ cover 25.10, OD 54.00, OD/ cover 45.20, Total length 112.10, Height/ B+ 16.25, Width/ kl. 50 13.45, Coil bolt M8, Coil bolt 2 12.15, No./ terminals 3  
Cap: HC-CARGO 132826.



**132025** Solenoid

Replacing: ced568, ced549, 594156, 594098, 181069, 100462

Servicing: d9r121, d9r122, D9R126, D9R73, D9R84, D9R89, d9r91

12 V, B+ M8, Kl. 50 6.30, ID/ cover 25.15, OD 54.00, OD/ cover 48.65, Total length 112.25, Height/ B+ 15.00, Width/ kl. 50 14.25, Coil bolt M8, Coil bolt 2 10.60, No./ terminals 3  
Cap: HC-CARGO 132826.



**132268** Solenoid

Replacing: ne129, ced514, ced511, 300752, 182452, 102197, 098048, 096666

Servicing: d11e163, d11e164, d11e169, d11e172, d11e173, d11e176, d11e177, d11e178, d11e187, d11e272

12 V, B+ M8, Kl. 15a M5, Kl. 50 6.30, ID/ cover 25.10, OD 54.30, OD/ cover 59.50, Total length 164.40, Height/ B+ 22.25, Width/ kl. 15a 8.80, Width/ kl. 50 12.55, Coil bolt M8, Coil bolt 2 12.35, No./ terminals 4  
Cap: HC-CARGO 134145.



**132623#** Solenoid

Replacing: ne443, ced443, 182448, 096573

Servicing: d11e148, d11e161, d11e188, d11e192

12 V, B+ M8, Kl. 50 6.30, OD 47.50, OD/ cover 52.00, Total length 158.50, Height/ B+ 18.85, Width/ kl. 50 14.00, Coil bolt M8, Coil bolt 2 16.00, No./ terminals 3  
Cap: HC-CARGO 131330.



**132976** Solenoid

Replacing: ne777, ced552, 594604, 594370, 594325, 594322, 594319, 594275, 594273, 594269, 594268, 594267

Servicing: D6RA10, d6ra12, d6ra13, D6RA141, D6RA15, d6ra20, D6RA210, D6RA39, d6ra40, D6RA41, d6ra42, D6RA44, D6RA45, D6RA46

12 V, B+ M8, Kl. 50 6.30, ID/ cover 25.30, OD 54.15, OD/ cover 46.15, Total length 80.60, Height/ B+ 16.00, Width/ kl. 50 12.60, Coil bolt M8, Coil bolt 2 11.00, No./ terminals 3  
Cap: HC-CARGO 132826.



**132977** Solenoid

Replacing: ne139, CES569, ced569, CED564, CED563, 594189, 594188, 594119, 594117, 594087, 594047, 182563

Servicing: 626002, d6ra107, d6ra109, D6RA114, D6RA12, D6RA16, D6RA161, d6ra162, D6RA168, D6RA17, D6RA18, D6RA19, d6ra22, D6RA23

12 V, B+ M8, Kl. 50 6.30, ID/ cover 25.00, OD 54.00, OD/ cover 48.85, Total length 80.45, Height/ B+ 15.00, Width/ kl. 50 10.50, Coil bolt M8, Coil bolt 2 10.60, No./ terminals 3  
Cap: HC-CARGO 134402.


**133050** Solenoid

Replacing: TM400B08301

Servicing: tm000a06101

12 V, B+ M8, Kl. 50 9.40, OD 55.15,  
OD/ cover 48.60, Total length 144.00,  
Height/ B+ 27.65, Width/ kl. 50 12.45,  
Coil bolt M8, Coil bolt 2 19.40,  
No./ terminals 3  
Cap: HC-CARGO 133286.


**133120** Solenoid

Replacing: NE347

 Servicing: 532025A, 532025B, 534032A,  
534047A, 534051A, 534052A

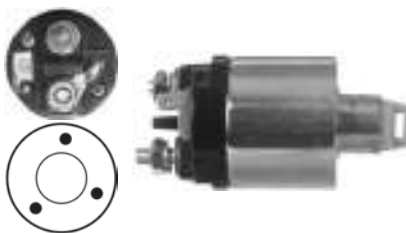
12 V, B+ M8, Kl. 50 6.30,  
ID/ cover 23.15, OD 50.90,  
OD/ cover 51.55, Total length 96.85,  
Height/ B+ 16.15, Width/ kl. 50 12.60,  
Coil bolt M8, Coil bolt 2 12.15,  
No./ terminals 3  
Cap: HC-CARGO 132274.


**133121** Solenoid

Replacing: NE346

 Servicing: 534023A, 534039A, 534044A,  
534046A, 534050A, 534050B

12 V, B+ M8, Kl. 50 6.30,  
ID/ cover 23.25, OD 52.00,  
OD/ cover 52.00, Total length 94.80,  
Height/ B+ 13.00, Width/ kl. 50 11.35,  
Coil bolt M8, Coil bolt 2 9.00,  
No./ terminals 3  
Cap: HC-CARGO 133771.


**133122** Solenoid

Replacing: ne348

 Servicing: 534029A, 534031A, 534042A,  
534042B, 534043A

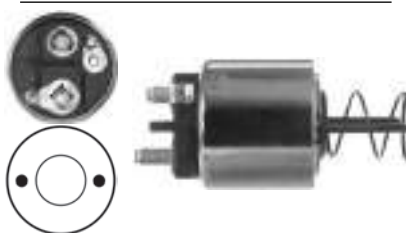
12 V, B+ M8, Kl. 50 6.30,  
ID/ cover 23.25, OD 50.75,  
OD/ cover 51.65, Total length 97.00,  
Height/ B+ 15.85, Width/ kl. 50 11.55,  
Coil bolt M8, Coil bolt 2 12.10,  
No./ terminals 3  
Cap: HC-CARGO 132035.


**133123** Solenoid

Replacing: NE350

Servicing: 534045A, 534048A, 534049A

12 V, B+ M8, Kl. 50 6.30,  
ID/ cover 23.30, OD 50.80,  
OD/ cover 51.55, Total length 97.00,  
Height/ B+ 16.40,  
Width/ kl. 50 11.85, Coil bolt M8,  
Coil bolt 2 12.00, No./ terminals 3  
Cap: HC-CARGO 131172.


**133128** Solenoid

 Replacing: ne815, NE785, CED565, ced518,  
594355, 594155, 504047, 182520, 182464,  
099932

 Servicing: D7E19, D7E26, d7e4, d7e6,  
D9E101, d9e36, D9E38, d9e54, D9E62,  
D9R119, D9R122, D9R149, D9RP160, TS10E4,  
TS10E5

12 V, B+ M8, Kl. 50 6.30,  
ID/ cover 25.20, OD 54.15,  
OD/ cover 44.35, Total length 111.15,  
Height/ B+ 15.50, Width/ kl. 50 11.00,  
Coil bolt M8, Coil bolt 2 10.00,  
No./ terminals 3  
Cap: HC-CARGO 134402.


**133149#** Solenoid

Replacing: ced426, 182441, 079476

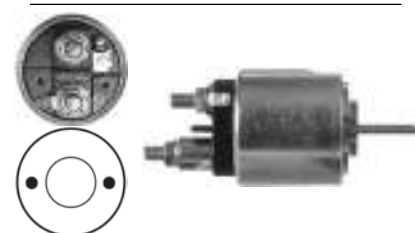
 Servicing: d8e108, d8e109, d8e114,  
d8e125, d8e126, d8e136, d8e71, d8e75,  
d8e82, d8e83, d8e87, d8e88, d8e95

12 V, B+ M8, Kl. 50 6.30, OD 47.30,  
OD/ cover 52.40, Total length 146.00,  
Height/ B+ 16.50, Width/ kl. 50 26.55,  
Coil bolt M8, Coil bolt 2 15.20,  
No./ terminals 3  
Cap: HC-CARGO 133376.


**133150** Solenoid

 Replacing: CED465, CED457, CED456,  
CED455, CED445, ced438, 300591, 182188,  
095699

Servicing: d10e59, d8e132, d8e134, d8e157,  
d8e158, d9e11, d9e14, d9e18, d9e20, d9e41  
12 V, B+ M8, Kl. 50 M5,  
ID/ cover 20.20, OD 47.65,  
OD/ cover 52.40, Total length 158.00,  
Height/ B+ 18.90, Width/ kl. 50 14.50,  
Coil bolt M8, Coil bolt 2 16.45,  
No./ terminals 4


**133151** Solenoid

Replacing: ced517, 182457, 099378

 Servicing: d9e131, d9e132, d9e43, D9E44,  
d9e83

12 V, B+ M8, Kl. 50 6.30,  
ID/ cover 25.25, OD 54.25,  
OD/ cover 48.00, Total length 123.30,  
Height/ B+ 10.70, Width/ kl. 50 13.55,  
Coil bolt M8, Coil bolt 2 14.70,  
No./ terminals 3  
Cap: HC-CARGO 133156.



**133163** Solenoid

Replacing: ced540, 182459, 104604

Servicing: d9e137, d9e138, d9e237, d9e238, d9e276, d9e39, D9E40, d9e52, d9e76, d9e77, d9e771

12 V, B+ M8, Kl. 50 6.30, ID/ cover 25.30, OD 53.90, OD/ cover 44.50, Total length 112.00, Height/ B+ 15.00, Width/ kl. 50 14.25, Coil bolt M8, Coil bolt 2 10.00, No./ terminals 3  
Cap: HC-CARGO 132826.



**133166** Solenoid

Replacing: ced528, 182463, 108458, 102190

Servicing: d9e278, d9e46, d9e68, d9e78, d9e79

12 V, B+ M8, Kl. 50 M5, ID/ cover 25.00, OD 53.90, OD/ cover 48.35, Total length 118.00, Height/ B+ 20.35, Width/ kl. 50 16.60, Coil bolt M8, Coil bolt 2 19.60, No./ terminals 3  
Cap: HC-CARGO 134402.



**133169** Solenoid

Replacing: ced429, ced416, ced41, ced406, ced402, 182442, 076870, 053459

Servicing: d11e144, d11e58, d11e69, d11e75, d11e78, d11e84, d11e85, d8e104, d8e106, d8e111, d8e113, d8e116, d8e119, d8e122, d8e124

12 V, B+ M8, Kl. 50 6.30, OD 47.70, OD/ cover 53.30, Total length 154.00, Height/ B+ 15.90, Width/ kl. 50 14.65, Coil bolt M8, Coil bolt 2 15.20, No./ terminals 3  
Cap: HC-CARGO 133376.



**133178** Solenoid

Replacing: 612459

Servicing: 6160D, 6160E, 6160F, 6160G, 6169A, 6169B

12 V, B+ M8, Kl. 50 M5, OD/ cover 51.15, Total length 122.00, Height/ B+ 19.60, Width/ kl. 50 13.90, Coil bolt M8, Coil bolt 2 9.00, No./ terminals 3  
Cap: HC-CARGO 131323.



**133289** Solenoid

Replacing: 36120-11130

Servicing: M39646, MC109018, MC109025, MG112014, MP112040

12 V, B+ M8, Kl. 50 6.30, ID/ cover 25.15, OD 51.55, OD/ cover 45.15, Total length 122.30, Height/ B+ 16.55, Width/ kl. 50 21.00, Coil bolt M8, Coil bolt 2 16.00, No./ terminals 4  
Cap: HC-CARGO 134915.



**133532** Solenoid

Replacing: ne159, ced541, 104594

Servicing: D9E278, d9e46, d9e55, d9e68, d9e78, d9e79

12 V, B+ M8, Kl. 50 6.30, ID/ cover 25.20, OD 54.00, OD/ cover 48.20, Total length 112.25, Height/ B+ 15.00, Width/ kl. 50 13.85, Coil bolt M8, Coil bolt 2 10.30, No./ terminals 3  
Cap: HC-CARGO 132826.

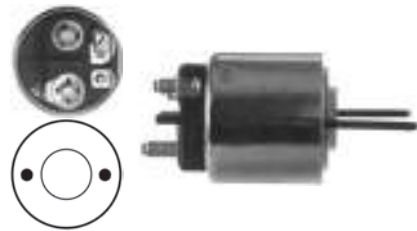


**133533** Solenoid

Replacing: NE142, NE141, ced548, ced546, CED537, 594053, 182460, 106143, 106142

Servicing: d10e85, d10e92, d10e921, d10e922, d9e113, d9e114, D9E137, D9E138, D9E237, D9E238, D9E276, D9E39, d9e45, D9E76, D9E761

12 V, B+ M8, Kl. 50 6.30, ID/ cover 25.30, OD 54.00, OD/ cover 48.00, Total length 112.25, Height/ B+ 15.30, Width/ kl. 50 13.90, Coil bolt M8, Coil bolt 2 10.50, No./ terminals 3  
Cap: HC-CARGO 132826.

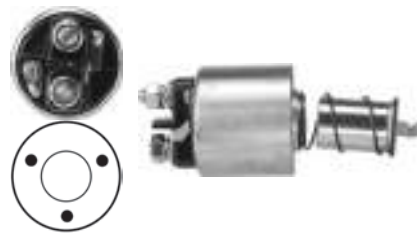


**133534** Solenoid

Replacing: ne140, ne134, ced543, 182462, 105254

Servicing: d10e87, d9e100, D9E140, d9e200, d9e300, d9e81, d9e87, d9e95

12 V, B+ M8, Kl. 15a 4.70, Kl. 50 6.30, ID/ cover 25.00, OD 54.00, OD/ cover 48.00, Total length 112.00, Height/ B+ 15.25, Width/ kl. 15a 14.95, Width/ kl. 50 14.00, Coil bolt M8, Coil bolt 2 10.45, No./ terminals 4  
Cap: HC-CARGO 133633.



**135390** Solenoid

Replacing: 594426, 594365, 594140, 594118

Servicing: d6ra100, D6RA42, D6RA43, d6ra572, d7r1, d7r11, d7r15, d7r151, d7r3, D7R45, TMO00A27601

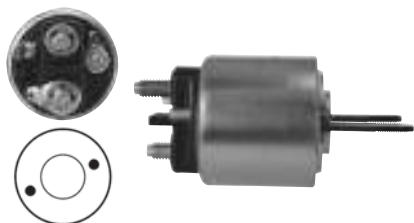
12 V, B+ M8, Kl. 50 M5, ID/ cover 25.25, OD 53.90, OD/ cover 47.85, Total length 80.30, Height/ B+ 16.00, Width/ kl. 50 8.35, Coil bolt M8, Coil bolt 2 11.25, No./ terminals 3  
Cap: HC-CARGO 132034.


**136255** Solenoid

Replacing: 594704, 594607, 594280, 594271, 182717

Servicing: d6ra132, d6ra17, d6ra18, D6RA185, d6ra19, d6ra22, d6ra27, d6ra29, d6ra32, d6ra34, d6ra40, d6ra50, d6ra52, d6ra54

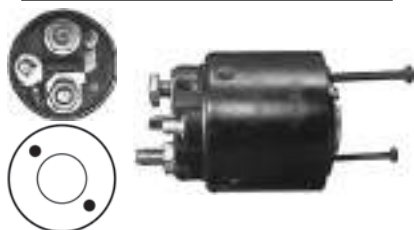
12 V, B+ M8, Kl. 50 M6,  
ID/ cover 25.15, OD 53.90,  
OD/ cover 45.65, Total length 91.60,  
Height/ B+ 27.25, Width/ kl. 50 13.30,  
Coil bolt M8, Coil bolt 2 11.20,  
No./ terminals 3  
Cap: HC-CARGO 136367.


**137300** Solenoid

Replacing: 594054

Servicing: d9r116, d9r144

12 V, B+ M8, Kl. 50 6.30,  
ID/ cover 25.30, OD 53.85,  
OD/ cover 44.30, Total length 111.80,  
Height/ B+ 15.20, Width/ kl. 50 16.15,  
Coil bolt M8, Coil bolt 2 10.60,  
No./ terminals 4  
Insulated return. Cap: HC-CARGO 232010.


**139476** Solenoid

Replacing: ced5033, 594452, 594447, 594421, 594347

Servicing: d7e18, d7e29, D7E30, d7e31, D7E32, D7E38, D7E4, D7E40, D7E41, D7E42, D7E7, D7E8, TS8E3, TS8E4, TS8E5

12 V, B+ M8, Kl. 50 M6,  
ID/ cover 25.00, OD 53.75,  
OD/ cover 45.75, Total length 80.70,  
Height/ B+ 15.30, Width/ kl. 50 9.00,  
Coil bolt M8, Coil bolt 2 11.10,  
No./ terminals 3  
Cap: HC-CARGO 231268.


**230222** Solenoid

Replacing: 594138

Servicing: D6RA26, D6RA30, D6RA47

12 V, B+ M8, Kl. 50 6.30,  
ID/ cover 25.35, OD 54.00,  
OD/ cover 49.55, Total length 80.40,  
Height/ B+ 15.15, Width/ kl. 50 13.30,  
Coil bolt M8, Coil bolt 2 9.40,  
No./ terminals 3


**231163** Solenoid

Replacing: 594362

Servicing: D6RA181, D6RA59, D6RA81, D6RA91

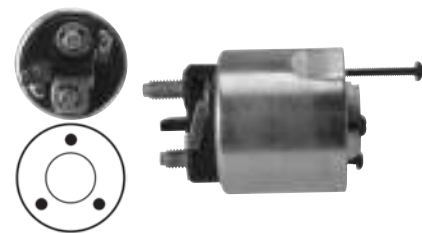
12 V, B+ M8, Kl. 50 M6,  
ID/ cover 17.60, OD 54.00,  
OD/ cover 51.90, Total length 89.30,  
Switch dim. 7.50, Height/ B+ 29.50,  
Width/ kl. 50 13.30, No./ terminals 3


**231610** Solenoid

Replacing: 594181

Servicing: D6RA37, D6RA50, D6RA51, D6RA511, D6RA57, D6RA571

12 V, B+ M8, Kl. 50 M5,  
ID/ cover 25.00, OD 53.95,  
OD/ cover 45.40, Total length 91.00,  
Height/ B+ 19.00, Width/ kl. 50 12.95,  
Coil bolt M8, Coil bolt 2 14.70,  
No./ terminals 3  
Cap: HC-CARGO 231765.


**231718** Solenoid

Replacing: 594208

Servicing: D6RA133, D6RA141, D6RA33, D6RA41, D6RA45, D6RA46, D6RA53, D6RA61, D6RA63

12 V, B+ M8, Kl. 50 6.30,  
ID/ cover 25.20, OD 54.00,  
OD/ cover 44.50, Total length 80.15,  
Height/ B+ 15.00, Width/ kl. 50 6.30,  
Coil bolt M8, Coil bolt 2 9.35,  
No./ terminals 3  
Cap: HC-CARGO 132826.


**232011** Solenoid

Replacing: ne421, ced530, 182458, 102295

12 V, B+ M8, Kl. 15a M5, Kl. 50 6.30,  
ID/ cover 25.20, OD 54.00,  
OD/ cover 44.50, Total length 112.30,  
Height/ B+ 15.00, Width/ kl. 15a 8.80,  
Width/ kl. 50 14.90, Coil bolt M8,  
Coil bolt 2 10.40, No./ terminals 3


**232012** Solenoid

Replacing: ne898, 594183, 594048

Servicing: D6RA12, D6RA16, d6ra161, D6RA38, D6RA66, D6RA661, D6RA72, d6ra721, d6ra74, D8R27, D8R29

12 V, B+ M8, Kl. 50 M5,  
ID/ cover 25.25, OD 53.85,  
OD/ cover 45.40, Total length 91.40,  
Height/ B+ 19.70,  
Width/ kl. 50 13.30, Coil bolt M8,  
Coil bolt 2 14.65, No./ terminals 3  
Cap: HC-CARGO 231766.





**232041** Solenoid

Replacing: 594638, 594411  
 Servicing: d6ra105, d6ra115, d7r44, D7R47, D7R49, D8R49  
 12 V, B+ M8, KI. 50 M5,  
 ID/ cover 25.25, OD 54.00,  
 OD/ cover 45.85, Total length 91.00,  
 Height/ B+ 19.45, Width/ kl. 50 10.70,  
 Coil bolt M8, Coil bolt 2 9.35,  
 No./ terminals 3  
 Cap: HC-CARGO 232204.



**233708** Solenoid

Replacing: 594266  
 Servicing: d9r149  
 12 V, B+ M8, KI. 50 M6,  
 ID/ cover 39.35, OD 54.00,  
 OD/ cover 51.85, Total length 119.00,  
 Height/ B+ 15.58, Width/ kl. 50 10.80,  
 Coil bolt M8, Coil bolt 2 10.85,  
 No./ terminals 3  
 Cap: HC-CARGO 136367.



**233795** Solenoid

Replacing: 594454, 594413, 594380  
 Servicing: D7ES1, D7ES2, d7es4, d7es5  
 12 V, B+ M8, ID/ cover 28.45, OD 54.20,  
 OD/ cover 48.80, Total length 108.50,  
 Height/ B+ 18.20, Coil bolt M8,  
 Coil bolt 2 15.25, No./ terminals 3  
 Cap: HC-CARGO 233076



**234089** Solenoid

Replacing: 594309  
 Servicing: d7r14, d7r39  
 12 V, B+ M10, KI. 50 M5,  
 ID/ cover 25.35, OD 53.95,  
 OD/ cover 48.00, Total length 100.85,  
 Height/ B+ 28.50, Width/ kl. 50 10.60,  
 Coil bolt M8, Coil bolt 2 9.15,  
 No./ terminals 3



**234153** Solenoid

Replacing: 594401  
 Servicing: D6RA293, d6ra83, D6RA92, D6RA93  
 12 V, B+ M8, KI. 50 M6,  
 ID/ cover 25.30, OD 54.00,  
 OD/ cover 45.85, Total length 79.65,  
 Height/ B+ 15.40, Width/ kl. 50 7.50,  
 Coil bolt M8, Coil bolt 2 9.20,  
 No./ terminals 3  
 Cap: HC-CARGO 231268. Moving contact: HC-CARGO 132037.



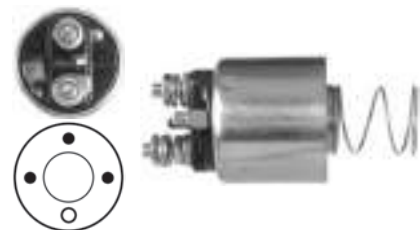
**234388** Solenoid

Replacing: 594391  
 Servicing: D7RS129, D7RS130, D7RS29, D7RS30, D7RS301  
 12 V, B+ M8, KI. 50 4.70,  
 ID/ cover 25.00, OD 54.00,  
 OD/ cover 49.10, Total length 95.25,  
 Height/ B+ 20.40, Coil bolt M8,  
 Coil bolt 2 8.85  
 Cap: HC-CARGO 233076. Moving contact: HC-CARGO 132037.



**234389** Solenoid

Replacing: 594392  
 Servicing: D7RS131, d7rs31  
 12 V, B+ M8, KI. 50 6.30,  
 ID/ cover 24.40, OD 54.40,  
 OD/ cover 48.40, Total length 90.90,  
 Height/ B+ 25.55, Width/ kl. 50 15.00,  
 Coil bolt M8, Coil bolt 2 9.30,  
 No./ terminals 3



**234579** Solenoid

Replacing: ced580, 594046  
 Servicing: D6RA133, d6ra21, D6RA56, d6ra6, d6ra61, D6RA73, D7R35  
 12 V, B+ M8, KI. 50 6.30,  
 ID/ cover 24.80, OD 54.10,  
 Height/ B+ 20.60, Width/ kl. 50 6.30,  
 Coil bolt M8, Coil bolt 2 15.00,  
 No./ terminals 3  
 Cap: HC-CARGO 132826.

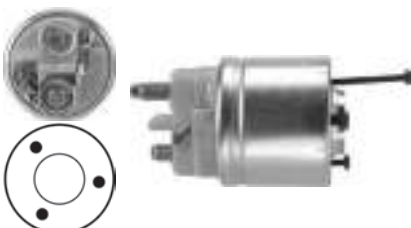


**234778** Solenoid

Replacing: 594288  
 Servicing: D7E1, TS8E1  
 12 V, B+ M8, KI. 50 6.30,  
 ID/ cover 25.20, OD 54.00,  
 OD/ cover 47.50, Total length 83.45,  
 Height/ B+ 20.40, Width/ kl. 50 14.15,  
 Coil bolt M8, Coil bolt 2 9.30,  
 No./ terminals 3  
 Cap: HC-CARGO 132033.


**234846** Solenoid

Replacing: 594463  
 Servicing: d7ed28, D7ED281  
 12 V, B+ M8, Kl. 50 M6,  
 ID/ cover 23.80, OD 51.00,  
 OD/ cover 45.15, Total length 119.00,  
 Height/ B+ 20.80, Width/ kl. 50 10.80,  
 Coil bolt M8, Coil bolt 2 9.65,  
 No./ terminals 3


**234944** Solenoid

Replacing: 594449  
 Servicing: D6RA101, D6RA104, d6ra110  
 12 V, B+ M8, Kl. 50 M5, OD 54.00,  
 OD/ cover 52.00, Total length 88.00,  
 Height/ B+ 16.50, Width/ kl. 50 10.00,  
 No./ terminals 3  
 Cap: HC-CARGO 233501. Moving contact: HC-CARGO 132037.


**234969** Solenoid

Replacing: 594407  
 Servicing: 1250128, d7e15, d7e20,  
 TM000A34101, TM000A36101  
 12 V, B+ M8, Kl. 50 6.30, ID/ cover 25.20,  
 OD 54.00, OD/ cover 45.60,  
 Total length 80.85, Height/ B+ 15.55,  
 Width/ kl. 50 15.00, Coil bolt M8,  
 Coil bolt 2 10.80, No./ terminals 3  
 Cap: HC-CARGO 132826.


**235077** Solenoid

Servicing: hq808670, mg122202, mg122433,  
 TM000A18601, TM000A23601  
 12 V, B+ M8x14.50, Kl. 50 6.30,  
 OD 55.30, Total length 111.50,  
 Height/ B+ M8x14.50, Width/ kl. 50 6.30,  
 No./ terminals 3  
 Cap: HC-CARGO 134626.


**235106** Solenoid

Replacing: 594348  
 Servicing: D6G3, d7e16, D7E2, d7e23,  
 D7E25, D7E5, TS10E1, TS8E2  
 12 V, No./ terminals 3


**235210** Solenoid

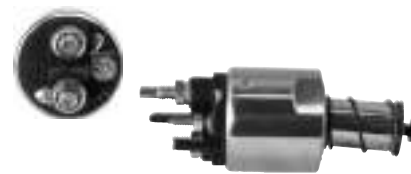
Replacing: 2EMO588F  
 12 V, B+ M8, Kl. 50 6.30, OD 52.37,  
 OD/ cover 47.20, Total length 101.37,  
 Height/ B+ 14.73, Coil bolt M8,  
 Coil bolt 2 14.19, No./ terminals 3  
 Cap: HC-CARGO 235384.


**235268** Solenoid

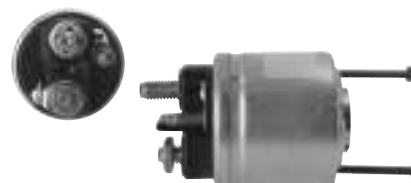
Replacing: 594474  
 Servicing: D7RS150, d7rs50  
 12 V, B+ M8, Kl. 15a M8, Kl. 50 6.30,  
 OD 54.17, OD/ cover 51.76,  
 Total length 145.42, Height/ B+ 60.00,  
 Width/ kl. 15a 30.00, Width/ kl. 50 17.00,  
 Coil bolt M8, Coil bolt 2 6.76, No./terminals 3


**235416** Solenoid

Replacing: 594431  
 Servicing: d7r48  
 12 V, No./ terminals 3  
 Cap: HC-CARGO 132826.


**235869** Solenoid

Replacing: 594610  
 Servicing: d7e27, D7E47  
 12 V, B+ M8, Kl. 15a M5, Kl. 50 M5,  
 OD 53.80, Total length 94.20,  
 Height/ B+ 24.42, Width/ kl. 50 21.55,  
 Coil bolt M8, Coil bolt 2 M8,  
 No./ terminals 3


**236258** Solenoid

Replacing: 594438  
 Servicing: d7e19, d7e22, d7e26, d7e6,  
 TS10E3, TS10E4, TS10E5  
 12 V, B+ M8, Kl. 50 M5, OD 54.15,  
 Total length 74.70, Height/ B+ 15.00,  
 Width/ kl. 50 14.10, Coil bolt M8,  
 Coil bolt 2 9.00, No./ terminals 3


**236269** Solenoid

Replacing: 594658  
 Servicing: D7G11, TS22E5, TS22E5B,  
 TS22E8, TS22E9  
 12 V, B+ M8, Kl. 50 M5, OD 54.00,  
 Height/ B+ 19.50, Width/ kl. 50 10.50,  
 No./ terminals 3



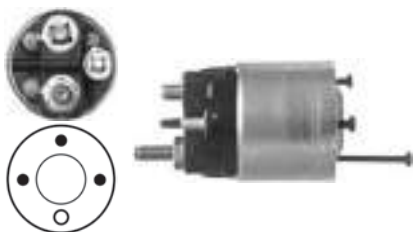
**236406** Solenoid  
12 V, No./ terminals 3



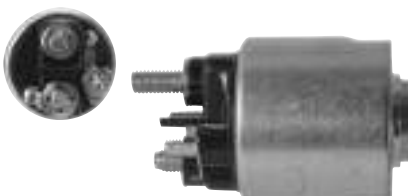
**236626** Solenoid  
Replacing: 594743, 236626  
Servicing: 191335, D6GS11, D6GS12, D6GS13, D6GS14, D7GS10, D7GS8, D7GS9, TS10E26, TS18E3  
12 V, B+ M8, Kl. 50 Plug, OD 54.00, Total length 100.30, Height/ B+ 19.50, Coil bolt M8, Coil bolt 2 9.45, No./ terminals 3  
Cap: HC-CARGO 236637.



**236801** Solenoid  
Replacing: 594646, 236801  
Servicing: D6G1, D6G32  
12 V, OD 54.00, No./ terminals 3



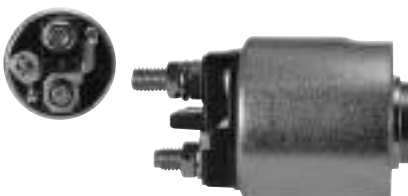
**236859** Solenoid  
Replacing: 594461  
Servicing: D6RAD183, D6RADP359  
12 V, B+ M8, Kl. 50 M6, ID/ cover 23.95, OD 51.40, OD/ cover 47.20, Total length 88.65, Height/ B+ 8.75, Width/ kl. 50 10.40, Coil bolt M8, Coil bolt 2 16.80, No./ terminals 3



**236975** Solenoid  
Replacing: 594414  
Servicing: D6RA137, d6ra138, D6RA187, D6RA188, D6RA87  
12 V, B+ M8, Kl. 50 M6, OD 54.00, OD/ cover 46.00, Total length 89.30, Height/ B+ 17.50, Width/ kl. 50 10.81, Coil bolt M8, Coil bolt 2 M8, No./ terminals 3



**236980** Solenoid  
Servicing: TM000A31201  
12 V, B+ M8, Kl. 50 6.30, OD 52.51, OD/ cover 49.10, Total length 118.10, Switch dim. 7.83, Height/ B+ 13.90, Coil bolt M8, Coil bolt 2 13.00, No./ terminals 3



**237444** Solenoid  
Replacing: 594444  
Servicing: d6ra91  
12 V, B+ M8, Kl. 50 M6, OD 53.90, Total length 89.25, Height/ B+ 30.00, Width/ kl. 50 13.00, Coil bolt M8, Coil bolt 2 22.45, No./ terminals 3



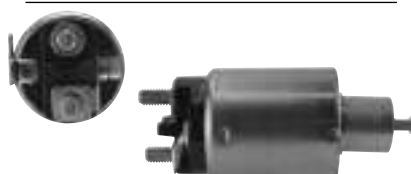
**237686** Solenoid  
Servicing: D7E39, TS8E6  
12 V, B+ M8, Kl. 50 M5, OD 54.00, Total length 59.00, Height/ B+ 14.50, Width/ kl. 50 10.00, No./ terminals 3



**239966** Solenoid  
Replacing: 594459  
Servicing: d7e52  
12 V, B+ M8, OD 54.00, Total length 97.07, Height/ B+ 18.00, No./ terminals 2



**330427** Solenoid  
Servicing: tm000a38001  
12 V, B+ M8, Kl. 50 Plug, OD 49.76, Total length 125.00, Height/ B+ 15.00, Coil bolt M8, Coil bolt 2 13.00, No./ terminals 3



**330549** Solenoid  
Servicing: TM000A27301, TM000A27601, TM000A37201  
12 V, B+ M8, Kl. 50 6.30, OD 49.70, Total length 120.20, Height/ B+ 14.50, Coil bolt M8, Coil bolt 2 12.80



**330689** Solenoid  
Replacing: 594724  
Servicing: D6G5  
12 V, B+ M8, Kl. 50 M6, OD 54.29, Total length 89.46, Height/ B+ 20.80, Width/ kl. 50 7.37, Coil bolt M8, Coil bolt 2 9.32, No./ terminals 3


**331697** Solenoid

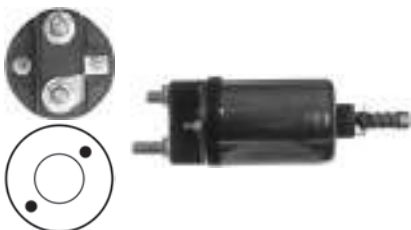
Servicing: TM000A31001

12 V, B+ M8, Kl. 50 6.30, OD 49.30, OD/ cover 46.50, Total length 120.00, Switch dim. 8.00, Height/ B+ 15.50, Coil bolt M8, Coil bolt 2 12.70, No./ terminals 3


**332529** Solenoid

Servicing: TS14E110

12 V, B+ M8, Kl. 50 M5, OD 54.00, OD/ cover 51.95, Total length 91.25, Switch dim. 6.70, Height/ B+ 15.50, Width/ kl. 50 10.50, Coil bolt M8, Coil bolt 2 10.00, No./ terminals 3

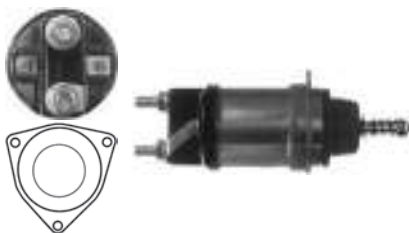
**24 Volt**

**132966** Solenoid

Replacing: 182424, 099686

Servicing: d13e111, d13e116, d13e73, d13e73te, d13e74, d13e74te, d13e81, d13e81t, d13e88, d13e95

24 V, B+ M10, Kl. 50 M5, OD 65.30, OD/ cover 70.00, Total length 212.45, Height/ B+ 29.20, Width/ kl. 50 12.90, Coil bolt M10, Coil bolt 2 17.35, No./ terminals 3

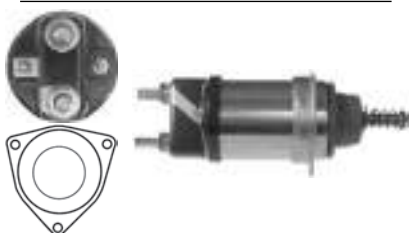
Cap: HC-CARGO 138172. Moving contact: HC-CARGO 138173.


**132967** Solenoid

Replacing: ced616te, cED616, 182423, 099687

Servicing: d13e100te, d13e104te, d13e105 24 V, B+ M10, Kl. 50 M5, OD 65.85, OD/ cover 69.75, Total length 224.00, Height/ B+ 28.40, Width/ kl. 50 13.60, Coil bolt M10, Coil bolt 2 16.85, No./ terminals 3

Cap: HC-CARGO 138172. Moving contact: HC-CARGO 138173.

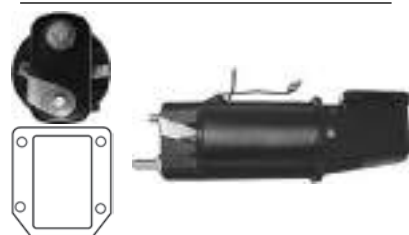

**132968** Solenoid

Replacing: ced621, 182432, 181142, 101091

Servicing: D13E107TE, d13e109te, D13E110, D13E110TE, d13e117te, d13e118te, D13E123, D13E123ITE, d13e123te, d13e76, d13e77, d13e77t

24 V, B+ M10, Kl. 50 M5, OD 68.20, OD/ cover 69.85, Total length 228.70, Height/ B+ 28.85, Width/ kl. 50 12.40, Coil bolt M10, Coil bolt 2 17.55, No./ terminals 3

Cap: HC-CARGO 136005. Moving contact: HC-CARGO 138174.


**135292** Solenoid

Replacing: ced71, 182430, 046695

Servicing: d15e29, d15e29te, d15e30, d15e30te

24 V, B+ M10, OD 74.70, OD/ cover 74.70, Total length 276.00, Height/ B+ 29.70, Coil bolt M10, Coil bolt 2 14.10, No./ terminals 3

Cap: HC-CARGO 138176. Moving contact: HC-CARGO 138175.


**135820** Solenoid

Replacing: ced624, 594075

Servicing: d13e119te, d13e120te, d13e121te, d13e122te, d13hp702, d13hp705, d13hp709

24 V, B+ M10, Kl. 15a M5, Kl. 50 M5, OD 70.65, OD/ cover 70.00, Total length 228.30, Height/ B+ 28.60, Width/ kl. 15a 6.25, Width/ kl. 50 12.65, Coil bolt M10, Coil bolt 2 17.50, No./ terminals 4

Cap: HC-CARGO 233535.


**138945** Solenoid

Replacing: 594220

Servicing: d13hp605, d13hp607, d13hp608

24 V, B+ M10, Kl. 50 M5, OD 65.80, OD/ cover 69.95, Total length 229.00, Height/ B+ 28.20, Width/ kl. 50 12.85, Coil bolt M10, Coil bolt 2 16.85, No./ terminals 3

Cap: HC-CARGO 233535.


**235151** Solenoid

Servicing: M000A0301

24 V, B+ M10, Kl. 50 M5, OD 64.11, Total length 213.00, Height/ B+ 18.16, Coil bolt M10, Coil bolt 2 17.79, No./ terminals 3



**Safety Switches**

**24 Volt**



**235150** Safety Switch

Servicing: M000A0301  
24 V

**Solenoid Parts**

**Solenoid Caps**



**131330** Solenoid Cap

Servicing: CED401, CED403, CED404, CED407, ced408, CED409, ced41, CED410, ced413, CED42, D11E188, D11E192, D8E111, D8E116, D8E74  
No./ terminals 3  
HC-CARGO 131000, 132623.



**131332** Solenoid Cap

Servicing: 182442, ced402, ced406, ced416, ced436, ced444, D8E140, D9E11, D9E27, D9E7  
No./ terminals 4  
HC-CARGO 133153, 133169.



**131333** Solenoid Cap

Servicing: ced437, ced446, ced448, ced454, ced458, ced460, ced468, D10E66, D10E72, D10E74, D8E107, D8E117, D8E121, D8E130, D8E131  
No./ terminals 3  
HC-CARGO 131798.



Pkg. 5

**132033** Solenoid Cap

Servicing: 102217, 594047, 594048, 594119, 594288, ced529, D6RA30, D6RA40, D6RA47, D7E1, D9E101, D9E108, D9E36, D9E38, D9E48  
No./ terminals 3, Bracket type Crimp  
HC-CARGO 131171.



Pkg. 5

**132034** Solenoid Cap

Servicing: 101062, 188839, CED521, D6RA100, D6RA101, D6RA104, D6RA37, D6RA42, D6RA43, D6RA51, D6RA511, D6RA57, D6RA571, D6RA572  
No./ terminals 3, Bracket type Crimp  
HC-CARGO 135390.



Pkg. 5

**132826** Solenoid Cap

Servicing: 102849, 103794, 104594, 104604, 105489, 106142, 106143, 1250128, ced533, CED537, ced538, ced540, ced541, ced544, ced546  
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  
No./ terminals 3  
HC-CARGO 130997, 133143.



**133156** Solenoid Cap

Servicing: 99378, ced517, D9E131, D9E132, D9E43, D9E44, D9E83  
No./ terminals 3, Bracket type Crimp  
HC-CARGO 133151.

Pkg. 5



**133287** Solenoid Cap

Servicing: 1250300, 1250302, M000A0240Z, M04686, M39646, M42373, M43196, M52100, M53486, M60082, m62957, MC107023, MC108024  
No./ terminals 3, Bracket type Crimp  
HC-CARGO 132917, 133052, 133288, 138618, 139408, 231977.



**133376** Solenoid Cap

Servicing: CED4, ced412, ced416, cED420, ced422, ced429, CED43, CED44, CED47, CED48, CED49, D8E104, D8E109, D8E122, D8E124, D8E126  
No./ terminals 3  
HC-CARGO 133149.



**133620** Solenoid Cap

Servicing: 074764, ced502, ced504, ced510, ced512, D10E48, D10E63, D10E80, D11E120, D11E131, D11E156, D11E158, D11E184, D11E191  
No./ terminals 3  
HC-CARGO 133502.


**133633** Solenoid Cap

**Servicing:** 105254, 182462, ced504, ced510, ced512, ced543, D9E100, D9E140, D9E200, D9E300, D9E81

**No./ terminals** 4, **Bracket type** Crimp  
*HC-CARGO 133534.*


**134145** Solenoid Cap

**Servicing:** 096666, 098048, 182452, ced511, ced514, D11E109, D11E142, D11E159, D11E163, D11E169, D11E173, D11E176, D11E177, D11E187

**No./ terminals** 4  
*HC-CARGO 132268.*


**134401** Solenoid Cap

**Servicing:** 073302, 182438, ced501, ced539, D11E119, D11E119T, D11E120, D11E126, D11E131, D11E137, D11E154, D11E155, D11E158

**No./ terminals** 3  
*HC-CARGO 131071.*


**134402** Solenoid Cap

**Replacing:** 235020, 134402

**Servicing:** 182458, 594438, 626002, D6RA105, D6RA107, D6RA114, D6RA115, D6RA12, D6RA16, D6RA161, D6RA168, D6RA18, D6RA22, D6RA38

**No./ terminals** 3, **Bracket type** Crimp  
*HC-CARGO 132977, 133128, 133166, 232011.*


**134626** Solenoid Cap

**Servicing:** MG120413, MG122404, MG232415, TM000A06901

**No./ terminals** 3, **Bracket type** Crimp  
*HC-CARGO 235077, 138820, 231981.*


**134915** Solenoid Cap

**Servicing:** MG112014, MP112040

**No./ terminals** 4, **Bracket type** Crimp  
*HC-CARGO 133289.*


**136005** Solenoid Cap

**Replacing:** 182148

**Servicing:** D13E107TE, d13e109te, D13E110, D13E110TE, D13E117TE, D13E118TE, D13E123, D13E1231TE, D13E123TE, d13e76, d13e77, d13e77t

**No./ terminals** 3  
*HC-CARGO 132968.*

Pkg. 5


**136367** Solenoid Cap

**Servicing:** D6G33, D6RA132, D6RA162, D6RA163, D6RA167, D6RA249, D6RA32, D6RA62, D6RA65, D6RA67, D7EP12, D7R19, D7R28, D7R281, D7R43

**No./ terminals** 3, **Bracket type** Crimp  
*HC-CARGO 136255, 233708.*


**138172** Solenoid Cap

**Servicing:** 182428, ced67, D11E122, D11E122T

**No./ terminals** 3  
*HC-CARGO 132967.*


**138176** Solenoid Cap

**Replacing:** 182152

**Servicing:** 182152, d15e29, D15E29TE, d15e30, d15e30te

**No./ terminals** 3  
*HC-CARGO 135292.*


**139647** Solenoid Cap

**Replacing:** 182149

**Servicing:** d13e100te, D13E101TE, d13e104te, d13e105, d13e108te, d13e111, d13e116, d13e73, d13e73te, d13e74, d13e74te, d13e81

**No./ terminals** 3  
*HC-CARGO 132966.*

Pkg. 5


**231268** Solenoid Cap

**Servicing:** 594347, 594401, ced5033, D6RA181, D6RA293, D6RA59, D6RA81, D6RA83, D6RA91, D6RA92, D6RA93, D7E18, D7E29, D7E30, D7E31

**No./ terminals** 3, **Bracket type** Crimp  
*HC-CARGO 139476, 234153.*



Pkg. 20

**231765** Solenoid Cap

Servicing: 190895, 594181, D6G3, D6RA110, D6RA37, D6RA51, D6RA511, D6RA57, D6RA571, D7E16, D7E2, D7E23, D7E25, D7E5, D7G3, TS18E13  
No./ terminals 3, Bracket type Crimp  
HC-CARGO 231610.



**231766** Solenoid Cap

Servicing: 594181, D8R27, D8R29  
No./ terminals 3, Bracket type Crimp  
HC-CARGO 232012.



**232010** Solenoid Cap

Servicing: 594054, D9R116, D9R144  
No./ terminals 4, Bracket type Crimp  
HC-CARGO 137300.



**233076** Solenoid Cap

Servicing: 594380, 594391, D7ES1, D7ES2, D7ES4, D7ES5, D7RS129, D7RS130, D7RS29, D7RS30, D7RS301  
No./ terminals 3  
HC-CARGO 233795, 234388.



**233481** Solenoid Cap

Replacing: 594297  
Servicing: d13hp601  
No./ terminals 4



**233535** Solenoid Cap

Replacing: 594292  
Servicing: D13E120TE, D13HP605, D13HP607, d13hp608, D13HP702, d13hp709  
No./ terminals 2  
HC-CARGO 138945.

Pkg. 5



**235384** Solenoid Cap

Servicing: TM000A27301, TM000A27601, TM000A37201  
No./ terminals 3, Bracket type Crimp  
HC-CARGO 235210.

Pkg. 5



**236240** Solenoid Cap

Servicing: D7G4  
No./ terminals 4, Bracket type Crimp



Pkg. 5

**236627** Solenoid Cap

Servicing: 191335, D6GS11, D6GS12, D6GS13, D6GS14, D6GS19, D7GS10, D7GS8, D7GS9, TS18E3  
No./ terminals 3

Pkg. 5



**236802** Solenoid Cap

Servicing: D6G1, D6G32, d7e52, g6g32  
No./ terminals 2

**Moving Contacts**

Pkg. 5



**132037** Moving Contact

Replacing: 233862, 132037  
Servicing: 103794, 104594, 104694, ced538, ced541, ced546, D7E47, D7G11, d7r17, d7r19  
Shaft measurement 29.25, Thickness 2.45  
Alternative no.: b132037

Pkg. 5



**132124** Moving Contact

Servicing: 099378, 099932, 101062, 102190, 102849, 104327, ced517, ced518, CED521, ced528, ced533, ced540  
Length 28.30, Shaft measurement 27.80, Thickness 2.50, Width 14.00



Pkg. 5

**132145** Moving Contact

Servicing: ced417, cED418, ced421, ced423, ced427, ced428, ced434, ced435, ced436, ced437, ced438, ced439, ced441, ced442, ced444

Length 28.30, Shaft measurement 39.15, Thickness 2.30, Width 14.00



Pkg. 5

**132146** Moving Contact

Servicing: ced514, ced519, ced601, ced615, cED616, ced621

Length 33.30, Shaft measurement 33.70, Thickness 2.55, Width 15.00



Pkg. 10

**133275** Moving Contact

Servicing: 1250300, 1250302, M000A0240Z, M39376, M39646, M42373, M43168, M43196, M53486, MC107023, MC108024, MC109018, MC109021

Length 26.00, Shaft measurement 26.00, Thickness 2.60, Width 16.00/11.00



Pkg. 5

**135363** Contact Plate

Length 33.35, Thickness 3.00, Width 15.00



Pkg. 5

**138173** Contact Plate

Servicing: ced67

Length 46.30, Thickness 3.00, Width 18.00



Pkg. 5

**138174** Contact Plate

Servicing: 182148

Length 46.40, Thickness 5.00, Width 18.00



Pkg. 5

**235826** Solenoid Cap


Pkg. 100

**B132037** Moving Contact

Replacing: 132037

Servicing: d7e22, D8R49

Shaft measurement 28.71, Thickness 2.42  
 Alternative no.: 132037

**Fixed Contacts**

Pkg. 10


**134152** Fixed Contact

Total length 47.65, Length/ rear collar 42.00, Thread length 36.20, Thread size M8



Pkg. 10

**134153** Fixed Contact

Total length 28.50, Length/ rear collar 23.50, Thread length 15.85, Thread size M8



Pkg. 10

**134154** Fixed Contact

Servicing: d7e22

Total length 37.50, Length/ rear collar 32.00, Thread length 22.70, Thread size M8

**Various**

Pkg. 5


**138601** Gasket

Servicing: D13E110, D13E110TE, D13E111, D13E117TE, D13E118TE, D13E123, D13E1231TE, D13E123TE, D13HP601, D13HP607

ID 21.65, ID/ mount. hole 5.35, OD 64.45, Thickness 2.45, No./ mount. holes 4, Material Rubber



**230950** Plunger

Replacing: 594417, 594289

Servicing: D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, d7e20, D7E22, d7e23, D7E25, d7e26, d7e27, d7e29, D7E30, d7e31, d7e32, D7E38  
OD 83.00, Lever w/o  
Lever: HC-CARGO 231148.

**Drives**



**130425** Drive

Replacing: 060991

Servicing: 6139b, 6139C

ID 12.00, OD 29.00,  
OD/ housing 46.00, Total length 59.85,  
Splines A 9, No./ teeth 9, Rotation ACR



**130432** Drive

Replacing: 096118, 093297, 092079,  
078862, 076651

Servicing: 532005A, 532007A, 532020A,  
532020B, 532026A, 533000A, 533002A, 533003A,  
533004A, 534003A, 534003B, 534003C, 534004A  
ID 12.00, OD 25.25,  
OD/ housing 46.20, Total length 68.05,  
Splines A 9, No./ teeth 9, Rotation CR



**130434** Drive

Replacing: 079692

Servicing: 532001B, 532017A

ID 12.00, OD 25.30,  
OD/ housing 46.45, Total length 61.70,  
Splines A 9, No./ teeth 9, Rotation CR



**130456** Drive

Replacing: 070672, 055105

Servicing: 182442, D11E109, d11e142,  
d11e143, D11E159

ID 14.00, OD 29.00,  
OD/ housing 59.20, Total length 76.15,  
Splines A 6, No./ teeth 9, Rotation CR



**130461** Drive

Replacing: ne485, ne185, 097298, 096859,  
093670, 093509, 092179, 078265, 075165,  
075162, 073684, 059058

Servicing: D10E48, D10E63, D10E80,  
D8E104, D8E122, D8E124, D8E76, D8E96

ID 12.00, OD 25.30,  
OD/ housing 46.90, Total length 69.00,  
Splines A 9, No./ teeth 9, Rotation CR



**130462<sup>#</sup>** Drive

Replacing: 077991

Servicing: d8e103

ID 12.00, OD 25.25,  
OD/ housing 47.00, Total length 86.65,  
Splines A 12, No./ teeth 9, Rotation ACR



**130463** Drive

Replacing: 095381, 093321, 092448,  
092181, 079011, 078861, 077776

Servicing: d8e107, d8e115, d8e117, d8e129,  
d8e133, d8e134, d8e137, d8e139, D8E140,  
d8e147, d8e151, d8e54, d9e11, d9e18, d9e19

ID 12.00, OD 25.30,  
OD/ housing 46.85, Total length 66.40,  
Splines A 12, No./ teeth 9, Rotation CR



**130757** Drive

Replacing: ne160, 075679, 053770

Servicing: D11E126, d11e93

ID 14.00, OD 36.10,  
OD/ housing 53.15, Total length 75.75,  
Splines A 6, No./ teeth 9, Rotation CR



**130758** Drive

Replacing: 077171

Servicing: d8e110, d8e116, d8e99

ID 12.00, OD 29.00,  
OD/ housing 41.25, Total length 59.00,  
Splines A 9, No./ teeth 9, Rotation ACR



**130759** Drive

Replacing: 097062, 093623, 076980

Servicing: d8e121, d8e142, d8e152, D8E21,  
d8e81, d9e12, d9e20, d9e22, d9e26, d9e34,  
d9e35, d9e37, d9e41

ID 12.00, OD 25.25,  
OD/ housing 46.30, Total length 59.45,  
Splines A 12, No./ teeth 9, Rotation CR



**130760** Drive

Replacing: 095464

Servicing: d8e130, d8e131, d8e54

ID 12.00, OD 25.25,  
OD/ housing 46.40, Total length 60.10,  
Splines A 9, No./ teeth 9, Rotation ACR


**130761** Drive

Replacing: 095958, 095956

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 CR

**130762** Drive

Replacing: 095990

Servicing: D11E142, d11e159, d11e165

 ID 14.00, OD 29.20,  
 OD/ housing 54.25, Total length 76.00,  
 Splines A 12, No./ teeth 9, Rotation CR

**130948** Drive

Replacing: 106009, 098896

 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,  
 Splines A 9, No./ teeth 9, Rotation CR

**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 CR

**131111** Drive

Replacing: 099931

 Servicing: d9e100, d9e101, d9e109,  
 d9e110, d9e113, d9e114, d9e124, d9e125,  
 d9e127, d9e129, d9e136, d9e137, d9e138,  
 d9e200, d9e237

 ID 12.60, OD 28.00,  
 OD/ housing 45.40, Total length 60.60,  
 Splines A 8, No./ teeth 9, Rotation CR

**131117** Drive

Replacing: 097843, 096507

 Servicing: d11e163, d11e169, d11e176,  
 d11e177

 ID 12.00, OD 29.23,  
 OD/ housing 53.25, Total length 84.00,  
 Splines A 9, No./ teeth 9, Rotation CR

**131170** Drive

Replacing: 099738

Servicing: d11e172, D11E272

 ID 12.00, OD 27.75,  
 OD/ housing 46.00, Total length 61.60,  
 Splines A 9, No./ teeth 10, Rotation CR

**131173** Drive

Replacing: 095304, 093511, 093304, 079801

Servicing: d8e144

 ID 12.00, OD 25.30,  
 OD/ housing 47.00, Total length 66.50,  
 Splines A 12, No./ teeth 9, Rotation ACR

**131186** Drive

Replacing: 098555

Servicing: d10e72

 ID 12.00, OD 25.35,  
 OD/ housing 53.45, Total length 71.00,  
 Splines A 9, No./ teeth 9, Rotation ACR

**131187** Drive

Replacing: 095609

Servicing: d9e16, d9e21

 ID 12.10, OD 25.50,  
 OD/ housing 49.75, Total length 83.70,  
 Splines A 9, No./ teeth 9, Rotation CR

**131188** Drive

 Replacing: 096119, 093625, 092081,  
 078863, 075593

 Servicing: 532011A, 533001A, 6155H,  
 6155J, 6155K, 6155L

 ID 12.00, OD 25.30,  
 OD/ housing 47.05, Total length 67.80,  
 Splines A 9, No./ teeth 9, Rotation ACR

**131343** Drive

Replacing: ne155, 589173, 059390

 Servicing: d15e29, D15E29TE, d15e30,  
 d15e30te

 ID 20.00, OD 46.80,  
 OD/ housing 65.25, Total length 151.70,  
 Splines A 6, No./ teeth 12, Rotation CR



**131999** Drive

Replacing: ne883, ne209, 594245, 185182, 182047, 105538

Servicing: d9r134, d9r73

ID 12.00, OD 31.80,  
OD/ housing 54.00, Total length 61.50,  
Splines A 9, No./ teeth 12, Rotation CR



**132020** Drive

Replacing: 105540

Servicing: d9r121, d9r84

ID 12.00, OD 27.70,  
OD/ housing 54.00, Total length 61.50,  
Splines A 9, No./ teeth 10, Rotation CR



**132021** Drive

Replacing: 181277, 180826

Servicing: d9r90

ID 12.00, OD 34.40,  
OD/ housing 54.50, Total length 76.50,  
Splines A 9, No./ teeth 11, Rotation CR



**132022** Drive

Replacing: 594040, 181068

Servicing: d9r105, d9r1050, D9R91

ID 12.00, OD 36.50,  
OD/ housing 54.00, Total length 61.50,  
Splines A 9, No./ teeth 9, Rotation CR  
Gear shaft: HC-CARGO 133336.



**132170** Drive

Replacing: 079646

ID 14.00, OD 39.75,  
OD/ housing 60.00, Total length 84.75,  
Splines A 6, No./ teeth 10, Rotation CR



**132175** Drive

Replacing: 101292

Servicing: d9e131, d9e132, d9e43, d9e44, d9e83

ID 12.00, OD 25.25,  
OD/ housing 47.00, Total length 64.65,  
Splines A 9, No./ teeth 9, Rotation CR



**132176** Drive

Replacing: 102846

Servicing: d9e57, d9e98

ID 12.00, OD 25.35,  
OD/ housing 47.00, Total length 60.70,  
Splines A 9, No./ teeth 9, Rotation ACR



**132177** Drive

Replacing: 103611

Servicing: d10e85, d10e92, D10E921, d10e922

ID 12.00, OD 29.00,  
OD/ housing 46.00, Total length 59.00,  
Splines A 9, No./ teeth 11, Rotation CR



**132178** Drive

Replacing: 104502, 103624

Servicing: d11e184, d11e188

ID 11.65, OD 27.75,  
OD/ housing 54.00, Total length 76.10,  
Splines A 12, No./ teeth 10, Rotation CR



**132181** Drive

Replacing: 106140

Servicing: 534023A, 534029A, 534031A, 534032A, 534039A, 534042A, 534042B, 534043A, 534044A, 534047A, 534054D, 534055E

ID 12.00, OD 25.25,  
OD/ housing 46.25, Total length 53.00,  
Splines A 9, No./ teeth 9, Rotation CR  
w/ lever.



**132190** Drive

Replacing: 098098

Servicing: d10e66, d10e74

ID 12.00, OD 25.20,  
OD/ housing 47.25, Total length 64.40,  
Splines A 9, No./ teeth 9, Rotation CR



**132191** Drive

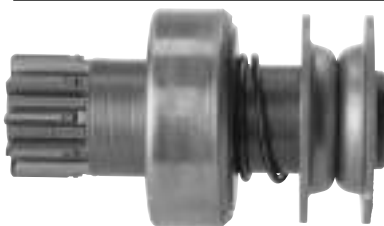
Replacing: 098437

Servicing: d8e148

ID 12.00, OD 28.90,  
OD/ housing 47.00, Total length 61.00,  
Splines A 9, No./ teeth 9, Rotation ACR


**132200** Drive

Replacing: 105332, 105325  
 Servicing: d11e191, d11e192  
 ID 12.00, OD 27.15,  
 OD/ housing 46.55, Total length 78.55,  
 Splines A 9, No./ teeth 10,  
 Drive type Steel, Rotation CR  
 Alternative no.: 132200z


**132200z** Drive

Replacing: 105332, 105325  
 ID 12.00, OD 27.10,  
 OD/ housing 46.55, Total length 78.55,  
 Splines A 9, No./ teeth 10,  
 Drive type Steel, Rotation CR  
 Alternative no.: 132200


**132206** Drive

Replacing: 104927  
 Servicing: d10e88, d10e881, d10e882,  
 d10e89  
 ID 12.00, OD 25.30,  
 OD/ housing 47.00, Total length 59.00,  
 Splines A 9, No./ teeth 9, Rotation CR


**132899** Drive

Replacing: 075379  
 Servicing: d11e120, d11e131, D11E158  
 ID 14.00, OD 34.25,  
 OD/ housing 65.55, Total length 75.75,  
 Splines A 6, No./ teeth 9, Rotation CR


**132962** Drive

Replacing: ne575, ne515, ne195, 589074,  
 101598, 094635, 092718, 079333  
 Servicing: D13E107TE, d13e109te, D13E110,  
 D13E110TE, d13e77, d13e77t, d13e86te,  
 d13e87te, D13E94TE, d13e96te  
 ID 16.00, OD 46.85,  
 OD/ housing 65.35, Total length 150.50,  
 Splines A 6, No./ teeth 12, Rotation CR  
 For wet clutch.


**132964** Drive

Replacing: ne169, 589077, 094202  
 Servicing: d13e105, d13e111, d13e95  
 ID 16.70, OD 46.65,  
 OD/ housing 65.30, Total length 122.50,  
 Splines A 6, No./ teeth 12, Rotation CR


**132974** Drive

Replacing: ne784, ne778, 594031, 594029,  
 184448  
 Servicing: d6ra10, d6ra12, d6ra16, d6ra18,  
 d6ra20, d6ra23, d6ra26, d6ra37, d6ra38,  
 d6ra41, d6ra45, d6ra46, d6ra5, d6ra51, d6ra57  
 ID 12.00, OD 25.80,  
 OD/ housing 46.00, Total length 51.00,  
 Splines A 9, No./ teeth 9


**132975** Drive

Replacing: 594032, 184488  
 Servicing: D6RA13  
 ID 12.00, OD 29.30,  
 OD/ housing 48.00, Total length 51.00,  
 Splines A 9, No./ teeth 9, Rotation CR


**133233** Drive

Replacing: ne207, 180754  
 Servicing: d9e93  
 ID 12.00, OD 28.80,  
 OD/ housing 47.00, Total length 54.80,  
 Splines A 9, No./ teeth 9, Rotation ACR


**133336** Drive

Replacing: ne212, 182178  
 Servicing: d9r91  
 OD 36.40, OD/ housing 53.80,  
 Total length 129.20, No./ teeth 9, Rotation CR  
 Drive: HC-CARGO 132022.


**133442** Drive

Replacing: ne187, 589053, 588799, 097338,  
 093079, 059305  
 Servicing: d11e122, d11e122t, d11e128,  
 d11e128t, d11e130, d11e89, d11e89t,  
 d11e89te, d11e90, d11e90t  
 ID 17.00, OD 40.20, OD/ housing 65.60,  
 Total length 102.00, Splines A 6,  
 No./teeth 10, Drive type Bronze, Rotation CR  
 Bronze.


**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 CR





**133897** Drive

Replacing: ne776, 594042, 186456, 184530, 182176, 180827

Servicing: d9r112, d9r118, D9R119, d9r122, d9r135, d9r149, d9r89, d9r99, D9RP160, D9RP256

ID 12.00, OD 29.15,  
OD/ housing 46.15, Total length 61.55,  
Splines A 9, No./ teeth 11, Rotation CR



**134292** Drive

Replacing: 183412

Servicing: d9r97

ID 12.00, OD 34.00,  
OD/ housing 53.25, Total length 76.50,  
Splines A 9, No./ teeth 11, Rotation ACR  
OE w/ gear shaft: HC-CARGO 139288.



**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 CR



**134645** Drive

Replacing: 099623

Servicing: d10e75, d10e81, d10e83

ID 12.00, OD 25.60,  
OD/ housing 47.00, Total length 71.80,  
Splines A 12, No./ teeth 9, Rotation CR



**135083** Drive

Replacing: ne830, 594108, 186020, 185441

Servicing: D6RA100, D6RA132, D6RA162, D6RA163, D6RA249, D6RA293, d6ra32, d6ra33, d6ra39, D6RA46, d6ra48, D6RA49, D6RA56, d6ra59

ID 12.00, OD 27.70,  
OD/ housing 46.00, Total length 51.45,  
Splines A 9, No./ teeth 10, Rotation CR



**135084** Drive

Replacing: ne831, 594368, 594136, 188256, 185290

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,  
Splines A 9, No./ teeth 10, Rotation CR



**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 ACR  
Alternative no.: 333203



**135282** Drive

Replacing: 184194

Servicing: d9r116, d9r144

ID 12.00, OD 42.00,  
OD/ housing 53.00, Total length 83.85,  
Splines A 9, No./ teeth 11, Rotation CR  
Gear shaft: HC-CARGO 230963.



**135389** Drive

Replacing: 594185, 549185, 185915

Servicing: 188839, d7r12, D7R127, d7r13, d7r16, d7r18, d7r19, d7r20, d7r25, d7r26, d7r27, d7r28, D7R281, D7R32, d7r35, d7r40

ID 12.00, OD 29.00,  
OD/ housing 54.00, Total length 54.50,  
Splines A 9, No./ teeth 11, Rotation CR



**135647** Drive

Replacing: 594214, 186938, 186867

Servicing: D6RA137, d6ra138, D6RA141, d6ra161, D6RA165, D6RA185, D6RA187, D6RA188, D6RA51, d6ra511, D6RA53, d6ra571, d6ra572

ID 12.00, OD 25.30,  
OD/ housing 46.30, Total length 51.60,  
Splines A 5, No./ teeth 9, Rotation CR



**136426** Drive

Replacing: ne484, ne483, 074658, 056328

Servicing: d11e119, d11e119t, d11e129, d11e129t, d11e137, d11e141, D11E154, D11E155, d11e92, d11e92t

ID 16.00, OD 40.00,  
OD/ housing 65.65, Total length 82.65,  
Splines A 6, No./ teeth 10, Rotation CR



**136619** Drive

Replacing: 180753

Servicing: d9e92

ID 12.00, OD 25.25,  
OD/ housing 47.00, Total length 54.80,  
Splines A 9, No./ teeth 9, Rotation ACR


**136642** Drive

Replacing: 099394, 097394  
 Servicing: d11e167t, d11e202  
 ID 14.10, OD 35.50,  
 OD/ housing 60.00, Total length 83.70,  
 Splines A 12, No./ teeth 9, Rotation CR


**137271** Drive

Replacing: 101910  
 Servicing: d9e51  
 ID 12.00, OD 40.15,  
 OD/ housing 47.65, Total length 70.25,  
 Splines A 9, No./ teeth 13, Rotation ACR


**137455** Drive

Replacing: 594086, 185457  
 Servicing: D6RA22, D6RA52  
 ID 12.00, OD 29.50,  
 OD/ housing 47.60, Total length 50.85,  
 Splines A 9, No./ teeth 9, Rotation CR


**137733** Drive

Replacing: 594419, 594252, 594177  
 Servicing: 626002, d6ra100, d6ra105,  
 d6ra107, d6ra109, D6RA114, D6RA133,  
 d6ra162, D6RA163, D6RA249, D6RA293,  
 D6RA56, D6RA59  
 ID 12.00, OD 27.75,  
 OD/ housing 46.35, Total length 51.70,  
 Splines A 5, No./ teeth 10, Rotation CR


**138113** Drive

Replacing: 594247, 187077  
 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 CR


**138208** Drive

Replacing: 180719  
 Servicing: d11e272  
 ID 12.00, OD 27.70,  
 OD/ housing 53.50, Total length 65.45,  
 Splines A 9, No./ teeth 10, Rotation CR


**138408** Drive

Replacing: 594106, 184671  
 Servicing: D6RA11, d6ra40  
 ID 12.00, OD 25.50,  
 OD/ housing 47.65, Total length 65.90,  
 Splines A 9, No./ teeth 9, Rotation CR


**139153** Drive

Replacing: 594033, 594030  
 Servicing: D6RA15, D6RA7  
 ID 12.00, OD 25.20,  
 OD/ housing 48.00, Total length 56.65,  
 Splines A 9, No./ teeth 9, Rotation CR


**139318** Drive

Replacing: 594034, 184795  
 Servicing: d6ra17, d6ra19, d6ra27, d6ra29,  
 d6ra34, d6ra50, d6ra54, d6ra60  
 ID 12.00, OD 29.65,  
 OD/ housing 47.65, Total length 66.70,  
 Splines A 9, No./ teeth 9, Rotation ACR


**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 CR


**139473** Drive

Replacing: 594725, 594287, 193512, 187863  
 Servicing: D7E1, d7e16, D7E2, d7e23,  
 D7E25, d7e26, D7E39, d7e5, d7e52, D7E7,  
 TS8E3, TS8E4, TS8E5  
 ID 11.00, OD 25.30,  
 OD/ housing 46.00, Total length 41.00,  
 Splines A 5, No./ teeth 9, Rotation CR


**139477** Drive

Replacing: ne971, 594345, 187788, 182848  
 Servicing: d7e15, d7e18, D7E19, D7E20,  
 D7E27, D7E38, d7e4, d7e6, d7e8, d7ed28,  
 D7EP12  
 ID 11.00, OD 23.80,  
 OD/ housing 46.00, Total length 44.00,  
 Splines A 5, No./ teeth 8, Rotation CR



**139478** Drive

Replacing: 594279, 187528, 059427  
 Servicing: D7R12, D7R127, d7r19, D7R27, d7r28, D7R281, D7R32, D7RP123  
 ID 12.00, OD 29.00,  
 OD/ housing 54.00, Total length 54.00,  
 Splines A 10, No./ teeth 11, Rotation CR



**139898** Drive

Replacing: 182243  
 Servicing: d9e108  
 ID 12.20, OD 26.75,  
 OD/ housing 47.85, Total length 54.75,  
 Splines A 9, No./ teeth 10, Rotation CR



**139905** Drive

Replacing: 594251, 186321  
 Servicing: d9r142  
 ID 12.00, OD 31.90,  
 OD/ housing 54.40, Total length 61.30,  
 Splines A 9, No./ teeth 10, Rotation CR



**230253** Drive

Replacing: ne210, 182052  
 Servicing: d9r121, d9r84  
 OD 68.80, Total length 129.30,  
 Splines A 9, No./ teeth 10, Rotation CR  
 Drive: HC-CARGO 132020.



**230353** Drive

Replacing: ne957, 594303, 187567  
 Servicing: d7r17, D7R42, D7RP82  
 ID 12.00, OD 27.95,  
 OD/ housing 47.60, Total length 54.85,  
 Splines A 10, No./ teeth 10, Rotation CR



**230354** Drive

Replacing: ne966, 594324, 187983  
 Servicing: d7r22, d7r23  
 ID 12.00, OD 31.85,  
 OD/ housing 54.00, Total length 54.75,  
 Splines A 10, No./ teeth 10, Rotation CR



**230963** Drive

Replacing: 594043  
 Servicing: d9r116, d9r144  
 OD 68.60, Total length 152.30, Splines A 9, No./ teeth 11, Rotation CR  
 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,  
 Splines A 5, No./ teeth 9, Rotation CR



**231093** Drive

Replacing: 594389  
 Servicing: D7RS129, D7RS130, D7RS131, D7RS29, D7RS30, D7RS301, D7RS31  
 ID 16.25, OD 28.80,  
 OD/ housing 53.00, Total length 91.20,  
 Splines A 9, No./ teeth 11, Rotation ACR



**231204** Drive

Replacing: 182177  
 Servicing: d9r90  
 OD 34.40, No./ teeth 11, Rotation CR  
 Drive: HC-CARGO 132021. Shaft: HC-CARGO 233528.



**231413** Drive

Replacing: ne955, 594295, 187449  
 Servicing: d13hp601  
 ID 19.00, OD 41.30, Total length 114.50,  
 Splines A 19, No./ teeth 11, Rotation CR



**231667** Drive

Replacing: 594110, 594035, 185744, 184799  
 Servicing: D6RA21, D6RA42, d6ra43  
 ID 12.00, OD 29.50,  
 OD/ housing 47.60, Total length 51.45,  
 Splines A 9, No./ teeth 9, Rotation ACR


**231932** Drive

Replacing: 594410, 188993

Servicing: d7r34, d7r53, D7R56, D7RP204, D8R1, TM000A34101, TM000A36101

 ID 12.10, OD 32.00,  
 OD/ housing 53.60, Total length 55.00,  
 Splines A 9, No./ teeth 10, Rotation CR

**232632** Drive

Replacing: 103066

Servicing: d13e117te, d13e118te, d13e119te, d13e120te, d13e121te, d13e122te, D13E123, D13E1231TE, d13e123te, d13hp605, d13hp607

 ID 19.00, OD 46.30,  
 OD/ housing 58.00, Total length 118.45,  
 Splines A 19, No./ teeth 12, Rotation CR

**233450** Drive

Replacing: NE869, 594107, 185283

Servicing: D6RA30

 ID 12.15, OD 29.50,  
 OD/ housing 48.00, Total length 50.75,  
 Splines A 9, No./ teeth 11, Rotation CR

**233496** Drive

Replacing: 594291

Servicing: d13hp613, d13hp709

 ID 19.00, OD 56.20, Total length 118.50,  
 Splines A 19, No./ teeth 11, Rotation CR

**233996** Drive

Replacing: 594378

Servicing: D7ES1, D7ES2, D7ES4

 ID 11.20, OD 23.20,  
 OD/ housing 46.50, Total length 74.90,  
 Splines A 10, No./ teeth 8, Rotation ACR

**234086** Drive

Replacing: 594382, 188595

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 CR

**234088** Drive

Replacing: 594308, 187084

Servicing: d7r14

 ID 12.00, OD 32.70,  
 OD/ housing 54.00, Total length 69.45,  
 Splines A 10, No./ teeth 10, Rotation CR

**234231** Drive

Replacing: 594436

Servicing: D7E19, d7e20, D7E22, d7e27

 ID 11.00, OD 23.60,  
 OD/ housing 47.10, Total length 41.20,  
 Splines A 10, No./ teeth 8, Rotation CR  
 Alternative no.: 234231Z

**234231Z** Drive

Replacing: 594436

 ID 11.00, OD 23.65,  
 OD/ housing 46.20, Total length 41.05,  
 Splines A 5, No./ teeth 8,  
 Drive type Steel, Rotation CR  
 Alternative no.: 234231

**234819** Drive

Replacing: 594631

Servicing: 190895, D7G26, d7g3

 ID 12.00, OD 28.90,  
 OD/ housing 50.00, Total length 45.00,  
 Splines A 10, No./ teeth 11, Rotation CR

**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 CR

**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 10, No./ teeth 8, Rotation CR



**235085** Drive

Replacing: ne573, 054104  
 Servicing: d11e69  
 ID 14.00, OD 38.65,  
 OD/ housing 59.00, Total length 83.00,  
 Splines A 6, No./ teeth 10, Rotation CR



**235086** Drive

Replacing: ne152, 054174  
 Servicing: d11e70, d11e75  
 ID 14.00, OD 34.39,  
 OD/ housing 57.66, Total length 76.28,  
 Splines A 6, No./ teeth 9, Rotation CR



**235087** Drive

Replacing: ne153, 054335  
 Servicing: d11e111, d11e140, d11e144,  
 d11e74, d11e74t, d11e84  
 ID 14.17, OD 39.75,  
 OD/ housing 57.71, Total length 76.04,  
 Splines A 6, No./ teeth 10, Rotation CR



**235088** Drive

Replacing: ne306, ne305  
 ID 14.00, OD 40.00,  
 OD/ housing 57.80, Total length 75.15,  
 Splines A 6, No./ teeth 10, Rotation CR



**235179** Drive

Replacing: 594356, 594314  
 Servicing: D6RA167, D6RA180, D6RA67,  
 D6RA80, d6ra91  
 ID 12.00, OD 29.60,  
 OD/ housing 47.00, Total length 65.95,  
 Splines A 10, No./ teeth 9, Rotation CR



**235252** Drive

Replacing: 594472  
 Servicing: D7RS150, d7rs50  
 ID 12.00, OD 29.00,  
 OD/ housing 53.15, Total length 92.80,  
 Splines A 9, No./ teeth 11, Rotation ACR



**235840** Drive

Replacing: 101763  
 Servicing: D9E103, D9E130, d9e50  
 ID 12.03, OD 46.90,  
 OD/ housing 46.90, Total length 75.00,  
 Splines A 9, No./ teeth 9,  
 Drive type Steel, Rotation CR



**236238** Drive

Replacing: 594465  
 Servicing: D7G4  
 ID 12.00, OD 31.50,  
 OD/ housing 49.85, Total length 55.00,  
 Splines A 10, No./ teeth 10, Rotation CR



**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 CR



**236477** Drive

Servicing: 191335, D7GS8  
 ID 16.20, OD 29.50,  
 OD/ housing 48.65, Total length 82.00,  
 Splines A 8, No./ teeth 11, Rotation ACR



**236607** Drive

OD 29.00, Total length 93.50, Splines A 10, No./ teeth 9, Rotation CR



**236609** Drive

Replacing: 594665  
 Servicing: D6GS11, D6GS12, 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 ACR


**236797** Drive

Replacing: 192978, 191601  
 Servicing: D6G1, D6G3, D6G32, D6G33, D6G5  
 ID 12.00, OD 25.30,  
 OD/ housing 47.95, Total length 45.45,  
 Splines A 10, No./ teeth 9, Rotation CR


**236896** Drive

Replacing: 594453  
 Servicing: d7es5, TS10E26  
 ID 10.00, OD 25.30, Total length 75.20,  
 Splines A 10, No./ teeth 9, Rotation ACR


**236985** Drive

Servicing: TM000A31201  
 ID 12.02, OD 29.10,  
 OD/ housing 29.14, Total length 51.30,  
 Splines A 8, No./ teeth 9, Rotation CR


**237291** Drive

Servicing: D7GS9  
 ID 12.10, OD 29.10,  
 OD/ housing 48.69, Total length 82.00,  
 Splines A 8, No./ teeth 9, Rotation CR


**237776** Drive

Replacing: 594696, 192125  
 Servicing: D7E40, D7E41, TS8E3, 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 CR


**239359** Drive

Replacing: 191769  
 Servicing: D7E18, D7E19, d7e22, D7E27,  
 D7E38, D7E4, D7E47, D7E6, D7E8, D7ED281,  
 TS10E3, TS10E4, TS10E5  
 ID 11.00, OD 23.60,  
 OD/ housing 47.10, Total length 41.20,  
 Splines A 5, No./ teeth 8,  
 Drive type Steel, Rotation CR


**330104** Drive

Servicing: ts22e5, ts22e5b, ts22e8, ts22e9  
 ID 12.05, OD 32.20,  
 OD/ housing 48.65, Total length 45.47,  
 Splines A 8, No./ teeth 10,  
 Drive type Steel, Rotation CR


**330452** Drive

Replacing: 594726  
 Servicing: TS8E2, TS8E6  
 ID 11.05, OD 25.38,  
 OD/ housing 46.20, Total length 41.20,  
 Splines A 5, No./ teeth 9,  
 Drive type Steel, Rotation CR


**330533** Drive

Replacing: 194480, 194440  
 Servicing: TS10E1  
 ID 11.05, OD 45.00,  
 OD/ housing 44.45, Total length 44.45,  
 Splines A 5, No./ teeth 8,  
 Drive type Steel, Rotation CR


**330568** Drive

Servicing: 1250128  
 OD 14.65, OD/ housing 55.48,  
 Total length 110.20, Splines A 19,  
 Splines B 4, Rotation CR


**330800** Drive

Servicing: TS18E13, ts22e26  
 ID 12.09, OD 28.85,  
 OD/ housing 49.88, Total length 45.55,  
 Splines A 8, No./ teeth 11,  
 Drive type Steel, Rotation CR


**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 ACR  
 Alternative no.: 135085

**Drive Parts**

**Caps**



**134162** Dp Cap  
ID 46.05, OD 47.10

Pkg. 10



**134205** Dp Cap  
ID 51.10, OD 53.25

Pkg. 25



**134254** Dp Cap  
ID 44.90, OD 46.25

Pkg. 100



**134271** Dp Cap  
ID 65.02, OD 66.90

Pkg. 10

**Gaskets**



**134170#** Dp Gear  
ID 11.90, OD 25.20, Height 24.80,  
No./ teeth 9

Pkg. 10

**Gears**



**134168** Dp Gear  
ID 12.00, OD 25.10, Height 31.90,  
No./ teeth 9

Pkg. 10



**134169** Dp Gear  
ID 12.10, OD 25.20, Height 24.90,  
No./ teeth 9

Pkg. 10



**134171** Gear  
ID 11.90, OD 25.00, Height 31.90,  
No./ teeth 9

Pkg. 10



**134173** Dp Gear  
ID 11.90, OD 25.00, Height 25.40,  
No./ teeth 9

Pkg. 10



**134174#** Dp Gear  
ID 13.00, OD 25.20, Height 25.45,  
No./ teeth 9

Pkg. 10



**134177#** Dp Gear  
ID 14.00, OD 34.30, Height 42.60,  
No./ teeth 9

Pkg. 10



**134180#** Dp Gear  
ID 11.90, OD 25.30, Height 44.40,  
No./ teeth 9

Pkg. 10



**134181** Dp Gear  
ID 11.80, OD 25.50, Height 41.45,  
No./ teeth 9

Pkg. 10



**134184#** Dp Gear  
ID 11.90, OD 28.95, Height 47.25,  
No./ teeth 9

Pkg. 10



**134185#** Dp Gear  
ID 12.00, OD 27.70, Height 28.65,  
No./ teeth 10

Pkg. 10



**134233** Dp Gear  
ID 12.10, OD 25.00, Height 32.60,  
No./ teeth 9

Pkg. 10



**134234** Dp Gear  
ID 12.00, OD 25.20, Height 26.70,  
No./ teeth 9



**137012#** Gear Wheel  
ID 12.00, OD 25.45, Height 36.40,  
No./ teeth 9

### Rollers

Pkg. 1000



**134212** Roller  
OD 6.00, Length 9.70

Pkg. 500



**134215** Dp Rollers  
OD 5.50, Length 9.70

Pkg. 500



**134222** Dp Rollers  
OD 6.00, Length 8.80

Pkg. 1000



**134244** Dp Rollers  
OD 6.35, Length 9.35

Pkg. 100



**139590** Dp Rollers  
OD 5.90, Length 8.00

### Springs

Pkg. 500



**134218** Dp Springs  
Length 13.70

Pkg. 500



**134220** Dp Springs  
Length 14.15

Pkg. 1250



**134263** Dp Springs  
Length 14.15

Pkg. 2000



**134264** Dp Springs  
Length 12.35

### Pinion



**139953** Pinion  
Servicing: HK988300, mg120413, MG120445,  
TM000A14901  
ID 13.25, OD 32.55, Height 18.25,  
Splines 19, No./ teeth 10



**235327** Pinion  
Servicing: mg122433  
ID 13.68, OD 39.63, Height 18.26,  
Splines 19, No./ teeth 13



**237086** Pinion  
Servicing: HQ808670, MG122202,  
mg122433, TM000A18601  
ID 13.74, OD 39.51, Height 18.27,  
Splines 19, No./ teeth 13



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**330887** Pinion

Servicing: 1250449  
ID 15.80, OD 46.28, Height 16.69,  
Splines 22, No./ teeth 33

**Various**

Pkg. 10



**236360** Plug

OD/ collar 18.00, OD 16.55, Length 4.10,  
Height/ collar 0.90

**Planet Gears**



**135081** Planet Gear (new)

Replacing: 594538  
Servicing: d6ra10, d6ra12, d6ra13,  
D6RA132, d6ra16, d6ra18, d6ra20, d6ra22,  
d6ra26, d6ra30, d6ra32, d6ra33, d6ra37,  
d6ra38, d6ra39  
Shaft dia./ middle 12.00,  
Total length 113.40, Splines 9  
Outer gear: HC-CARGO 133954.



**135388** Planet Gear

Replacing: 594141  
Servicing: d7r1, d7r2, d7r3, d7r4, D7R45,  
d7r5, d7r7  
Shaft dia./ middle 11.90,  
Total length 126.70, Splines 9



**138151** Planet Gear

Replacing: 594373, 594187  
Servicing: 188839, d7r11, d7r12, D7R127,  
d7r13, d7r15, d7r151, d7r16, d7r18, d7r19,  
d7r20, d7r24, d7r25, d7r26, d7r27, d7r28  
Shaft dia./ middle 11.90,  
Total length 90.00, Splines 9



**233994** Planet Gear

Replacing: 594283  
Servicing: D7R12, D7R127, d7r17, d7r19,  
d7r22, d7r23, D7R27, d7r28, D7R281, D7R32,  
D7R42, D7RP123, D7RP82  
Shaft dia./ middle 12.00,  
Total length 119.70, Splines 10



**234151#** Planet Gear

Replacing: 594551  
Servicing: D6RA107, D6RA70, d6ra83,  
D6RA92, D6RAD183, D6RADP359, D6RAP404  
Shaft dia./ middle 12.00,  
Total length 111.75, Splines 10



**234387** Planet Gear

Replacing: 594699, 594395  
Servicing: D7RS129, D7RS130, D7RS131,  
d7rs29, d7rs30, D7RS301, d7rs31, d7rs50  
Shaft dia./ middle 30.00,  
Total length 131.80/144.80, Splines 9,  
Rotation ACR  
Drive: HC-CARGO 231093, 235252.



**235706** Planet Gear

Replacing: 594541  
Servicing: D6RA138, d6ra141, d6ra161,  
D6RA163, D6RA293, d6ra511, d6ra53,  
d6ra56, d6ra571, d6ra572, D6RA59,  
d6ra661, d6ra74  
Shaft dia./ middle 11.95,  
Total length 111.50, Splines 10,  
No./ teeth 15, Rotation CR



**235707** Planet Gear

Replacing: 594542  
Servicing: d6ra133, d6ra162, D6RA249,  
d6ra62, d6ra73, D6RA93  
Shaft dia./ middle 18.00,  
Total length 112.90, Splines 10,  
No./ teeth 22, Rotation CR



**235708** Planet Gear

Replacing: 594547  
Servicing: d6ra721  
Shaft dia./ middle 12.20,  
Total length 113.00, Splines 10,  
Rotation CR



**235709** Planet Gear

Replacing: 594549  
Servicing: d6ra100, d6ra108, d6ra109  
Shaft dia./ middle 12.00,  
Total length 112.00, No./ teeth 3

**Gear Parts**
**Gear Shafts**

**233528** Gear Shaft

Servicing: 182177

 OD/ shaft 14.00, Total length 144.00,  
No./ splines 9

**233529#** Gear Shaft

Servicing: 594152

 OD/ shaft 14.30, Total length 129.00,  
No./ splines 9

**235498** Gear Shaft

Replacing: 594152

 Servicing: d9r105, d9r112, d9r118, d9r119,  
d9r121, d9r122, d9r142, d9r149, d9r73,  
d9r84, d9r89, d9r91, d9r99, D9RP160,  
D9RP256

 OD/ shaft 9.95, Total length 129.55,  
No./ splines 9

**236695#** Gear Shaft

Servicing: M60082, tm000a13901

 OD/ shaft 9.91, Total length 105.60,  
No./ splines 8

**Outer Gear**

**133403** Outer Gear

Replacing: 35137-32510

 Servicing: M42373, M52100, M53486,  
MG112014, MG112022, MP112033,  
MP112040, MP112041, MP112042, MP112043,  
TM000A07901, TM000A08401

 ID 49.15, OD 65.00, Height 30.20,  
No./ teeth 43

**133954** Outer Gear

 Servicing: 594538, 594541, 594542, d6ra15,  
D6RA30, D6RA42, D6RA43, D6RA47, d6ra7  
OD 80.15, Height 24.60, No./ teeth 59  
Cap: HC-CARGO 233460.

**233592** Outer Gear

Replacing: 135081

 Servicing: D6RA168, d6ra40, D6RA63,  
D6RA68

OD 55.10, No./ teeth 37


**234891** Outer Gear

Servicing: 594470

OD 68.00, No./ teeth 59


**333036** Outer Gear

 ID 53.60, OD 67.60, Height 35.60,  
No./ teeth 56

Pkg. 5


**333037** Outer Gear

Servicing: ESW20ER121

 ID 53.60, OD 67.60, Height 35.40,  
No./ teeth 56

**Gear Covers**

Pkg. 10


**233460** Gear Plate

ID 15.60, OD 49.43, Thickness 3.95

Pkg. 10


**331011** Gear Plate

 Servicing: D6RA181, d6ra68, d6ra81,  
D6RAD183, D6RADP359

ID 14.15, OD 51.80

**Gear Wheels**

Pkg. 10



**135325** Gear Wheel

Servicing: 594019  
ID 4.00, OD 18.30, Height 7.40,  
No./ teeth 22  
Bushing: HC-CARGO 140952.



**235159** Gear Wheel

Servicing: d6ra  
OD 19.80, No./ teeth 15

**Various**

Pkg. 10



**135326** Steel Pin

Servicing: 594019, 626002, D6RA100,  
D6RA114, D6RA15, D6RA167, D6RA168,  
D6RA181, D6RA42, D6RA43, D6RA47,  
D6RA63, d6ra67, D6RA68  
OD 4.00, Length 13.90



Pkg. 5

**135867** Armature Gear

Servicing: 182175, D9R112, D9R116,  
D9R118, D9R119, D9R121, D9R122, D9R142,  
D9R144, D9R149, D9R73, D9R84, D9R89,  
D9R90, D9R91  
ID 10.00, OD 21.10, Height 34.40,  
No./ teeth 15

Pkg. 5



**137579** Washer

Replacing: 2590944  
ID 21.60, OD 38.60, Thickness 2.50  
Reduction gear: HC-CARGO 231377.

Pkg. 10



**230088** Steel Pin

Servicing: 594187, D8R49  
OD 5.00, Length 18.00

Pkg. 10



**236215** Washer

Servicing: d9r105, d9r112, D9R116, d9r118,  
d9r119, d9r122, d9r142, d9r144, d9r149,  
D9R73, d9r89, d9r90, d9r91, d9r97, d9r99  
ID 18.00, OD 29.70, Thickness 1.10,  
Material Fiber

**Levers**



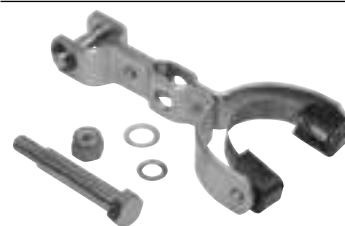
**132029** Lever Kit

Replacing: 182048  
Servicing: d9r105, d9r1050, d9r106, d9r116,  
d9r118, d9r119, d9r121, d9r122, D9R126,  
d9r135, d9r139, d9r144, d9r149, d9r73,  
d9r84  
Dist. 25.35, ID 5.15, Length 90.70  
Lever only: HC-CARGO 134866.



**132971** Lever Kit

Replacing: 182156, 182154  
Servicing: d13e100te, D13E101TE,  
d13e104te, d13e105, D13E107TE,  
d13e108te, d13e109te, D13E110,  
D13E110TE, d13e111, d13e116, d13e72  
Dist. 41.15, ID 8.45, Length 120.00



**132972** Lever Kit

Replacing: 182163  
Servicing: d15e29, D15E29TE, d15e30,  
d15e30te  
Dist. 42.10, ID 10.25, Length 138.65



**133077** Lever Kit

Replacing: 594068, 181084  
Servicing: d6ra10, d6ra100, d6ra108, d6ra109,  
d6ra11, d6ra12, d6ra13, D6RA132, D6RA141,  
d6ra15, d6ra16, d6ra17, d6ra18, d6ra19  
Dist. 25.80, ID 5.30, Length 75.20  
Lever only: HC-CARGO 134105.



**133139** Lever Kit

Replacing: 300838  
Servicing: d10e85, d10e87, d10e88,  
d10e881, d10e882, d10e89, d10e90, d10e92,  
d10e921, d10e922, D9EP119  
Dist. 25.60, ID 5.30, Length 90.75

Pkg. 5


**134105** Lever

**Servicing:** D6RA10, D6RA100, D6RA12, D6RA13, D6RA132, D6RA15, D6RA16, D6RA162, D6RA163, D6RA18, D6RA20, D6RA22, D6RA249, D6RA293  
**Dist.** 25.80, **ID** 5.30, **Length** 75.20  
*Lever w/ plunger: HC-CARGO 133077.*


**134813<sup>#</sup>** Lever Kit

**Replacing:** 182056  
**Servicing:** d10e59, d10e66, d10e69, d10e72, d10e74, d10e96, d10e97, D8E130, D8E131, d8e54, D9E11, d9e12, d9e14, d9e19, d9e20, d9e22  
**Dist.** 20.15, **ID** 10.00, **Length** 91.65

Pkg. 5


**134866** Lever

**Servicing:** D9E100, D9E101, D9E108, D9E131, D9E132, D9E136, D9E137, D9E138, D9E200, D9E237, D9E238, D9E276, D9E278, D9E300, D9E36  
**Dist.** 25.60, **ID** 5.40, **Length** 90.65  
*Lever w/ plunger: HC-CARGO 132029.*

Pkg. 5


**135515** Lever

**Servicing:** 1250128, 188839, D7R1, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, D7R16, D7R18, D7R19, D7R2, D7R20, D7R22, D7R23  
**Dist.** 25.50, **ID** 5.30, **Length** 82.20  
*Lever w/ plunger: HC-CARGO 139439.*


**136620** Lever Kit

**Replacing:** 182058, 098945  
**Servicing:** d10e86, d9e100, d9e101, d9e102, D9E103, d9e104, d9e107, d9e108, d9e109, d9e111, d9e113, d9e114, d9e123, d9e124, d9e125  
**Dist.** 25.60, **ID** 5.40, **Length** 90.65  
*Lever only: HC-CARGO 134866.*


**137732** Lever Kit

**Replacing:** 594422, 594374, 594259, 594255  
**Servicing:** 626002, d6ra101, d6ra104, d6ra105, d6ra107, d6ra110, D6RA114, d6ra115, d6ra133, D6RA137, d6ra138, D6RA141, d6ra161  
**Dist.** 22.35, **ID** 5.30, **Length** 73.25  
*Lever only: HC-CARGO 138854.*


**138112** Lever Kit

**Replacing:** 594298, 593253, 182036  
**Servicing:** d13e117te, d13e118te, d13e119te, d13e120te, d13e121te, d13e122te, D13E123, D13E1231TE, d13e123te, d13hp601, d13hp605  
**Dist.** 37.00, **ID** 8.30, **Length** 121.40


**138114** Lever Kit

**Replacing:** 594069  
**Servicing:** d9r112, d9r134, d9r142, D9RP256  
**Dist.** 25.30, **Length** 109.75

Pkg. 5


**138854** Lever

**Replacing:** 594460  
**Servicing:** 626002, D6RA105, D6RA110, D6RA114, D6RA115, D6RA133, D6RA137, D6RA138, D6RA141, D6RA161, D6RA162, D6RA163, D6RA167  
**Dist.** 21.70, **ID** 5.35, **Length** 73.20  
*Lever only: HC-CARGO 137732.*


**139439** Lever Kit

**Replacing:** 594390, 594281, 594262  
**Servicing:** 1250128, 188839, d7r1, d7r11, d7r12, D7R127, d7r13, d7r14, d7r15, d7r151, d7r16, d7r18, d7r19, d7r2, d7r20, d7r22  
**Dist.** 24.40, **ID** 5.15, **Length** 82.30  
*Lever only: HC-CARGO 135515.*


**139533** Lever Kit

**Replacing:** 36114-11130  
**Servicing:** M56290  
**Dist.** 22.30, **Length** 77.25

Pkg. 20


**231148** Lever

**Servicing:** D7E1, D7E16, D7E18, D7E19, D7E2, D7E22, D7E23, D7E25, D7E26, D7E30, D7E32, D7E38, D7E39, D7E4, D7E40, D7E42, D7E5  
**Dist.** 19.00, **Length** 83.00

Lever Parts

Various

Pkg. 10



**134142** Spacer

Servicing: D10E74, D11E163, D11E169, D11E172, D11E173, D11E176, D11E177, D11E187, D11E272, D8E117, D8E121, D8E130, D8E131, D8E132  
OD 12.00, Height 11.00



**231192** Spring Kit

Servicing: HQ808670, mg120413, MG122202, tm000a06101, TM000A18601, TM000A23601

Pkg. 10



**237685** Lever Support

Servicing: D7E1, D7E15, D7E16, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, d7e29, D7E39, D7E5, d7e6, D7E7, D7ED281, TS10E1

Length 21.52  
Plastic.

Clutches



**231269** Clutch

Servicing: HK988300, HQ808670, mg120413, MG120445, MG122202, mg122433, TM000A14901, TM000A18601  
Total length 117.00/131.00, Splines 19



**237115** Clutch

Servicing: TM000A23601  
Total length 117.80/131.00, Splines 19

Brush Gears



**132812** Brush Gear

Servicing: D9E100, D9E131, D9E138, D9E140, D9E200, D9E238, D9E300, D9E40, D9E43, D9E44, D9E45, D9E46, D9E49, D9E51, D9E53, D9E54

OD 55.50  
Brush set: HC-CARGO PSX1304

Pkg. 5



**132995** Brush Gear

Servicing: D9E101, D9E108, D9E123, D9E132, D9E136, D9E137, D9E237, D9E276, D9E278, D9E36, D9E38, D9E39, D9E48, D9E56, D9E57, D9E61

OD 69.90  
Brush set: HC-CARGO PSX1332.



**133341** Brush Gear

Replacing: 36169-32510  
Servicing: 1250299, 1250301, M42373, M53486, MG112014, MG112022, MP112033, MP112040, MP112041, MP112042, MP112043, TM000A08401  
12 V, OD 67.35  
Pos. brush: HC-CARGO 140967.



**133646** Brush Gear

Replacing: 594072, 181961  
Servicing: d6ra10, D6RA12, D6RA16, D6RA18, D6RA20, D6RA45, D6RA47, D6RA6, D6RA61, D6RA7, d6ra8  
OD 62.50  
Spring and brush set: HC-CARGO PSX146-147K.



**133647** Brush Gear

Replacing: 594070, 186381, 183957  
Servicing: 626002, D6RA10, D6RA100, D6RA101, D6RA104, D6RA105, D6RA107, D6RA110, D6RA114, D6RA115, d6ra12, D6RA13, D6RA132  
OD 61.75  
Spring and brush set: HC-CARGO PSX146-147K.



**134642** Brush Gear

Servicing: D9R112, D9R116, D9R118, D9R121, D9R122, D9R142, D9R144, D9R73, D9R84, D9R89, D9R90, D9R91, D9R97, D9R99, D9RP256  
OD 69.90  
Brush set: HC-CARGO PSX140-1414. Brush spring: HC-CARGO 135201.



**135467** Brush Gear

Replacing: 3EM092301D  
Servicing: M000A0240Z, M04686, M35216, M39376, M39646, M43196, MC107012, MC107023, MC108024, MC108027, MC108030, MC109011  
12 V, OD 74.00  
Neg. brushes. Brush set: HC-CARGO 140349.


**136763** Brush Gear

Replacing: 594780

Servicing: 1250128, 1250449, 188839, D7G20, D7G26, D7R1, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, D7R16, D7R17, D7R18, D7R19

OD 77.40

Brush set: HC-CARGO PSX1584.


**138642** Brush Gear

Replacing: 2106053, 184630

Servicing: D13E117TE, D13E118TE, D13E123, D13E1231TE, d13e123te, d13hp703

24 V, OD 90.00

Neg. brushes. Brush set: HC-CARGO PSX1124.


**138643** Brush Gear

Replacing: 182187

Servicing: d13e100te, D13E101TE, d13e104te, d13e105, d13e108te, d13e111, d13e116, d13e73, d13e73te, d13e74, d13e74te, d13e81

OD 89.90

Neg. brushes. Brush set: HC-CARGO PSX83-844.


**139224** Brush Gear

Replacing: 594479, 594351, 594290

Servicing: d7e1, d7e15, d7e16, d7e18, d7e19, D7E2, d7e20, d7e22, d7e23, D7E25, d7e27, d7e29, D7E30, d7e31, d7e32, D7E38, D7E39

12 V, OD 59.75

Brush set: HC-CARGO PSX1554.


**230126** Brush Gear

Replacing: 182467

Servicing: d15e29, D15E29TE, d15e30, d15e30te

OD 104.60

Neg. brushes. Brush set: HC-CARGO PSX884.


**231841** Brush Gear

Replacing: 594381

Servicing: ACR, D7ES1, D7ES2, D7ES4, d7es5, TS10E26

OD 59.60


**233617** Brush Gear

Replacing: 594222

Servicing: d13hp605, d13hp607, d13hp608

OD 95.20

Brush set: HC-CARGO 141067.


**233771** Brush Gear

Servicing: d9r119, d9r149, D9RP160

OD 84.60

Brush set: HC-CARGO PSX140-1414.


**234119** Brush Gear

Replacing: 190097

Servicing: 190895, D7G11, D7G3, D7G4, D7GS9

12 V, OD 29.85

1.7 kW.


**235390** Brush Gear

Servicing: TM000A27301, TM000A27601, TM000A31001, TM000A37001

12 V


**239731** Brush Gear

Servicing: 191335, D7GS10, D7GS8, TS18E1, ts18e3, ts18er123

12 V


**333317** Brush Gear

Replacing: 594674

Servicing: D6GS11, D6GS12, D6GS13, D6GS14, TS12E9

12 V, OD 60.25

**Brush Gear Parts**

**Brush Springs**



**132571** Brush Spring Set  
OD 7.25, Length 29.70

Pkg. 10



**134902** Brush Spring

Replacing: 300842  
Servicing: D10E 85, -87, -88, -89, -90  
OD 11.90, Length 26.90

Pkg. 10



**135018** Brush Spring

Replacing: 092533, 092528  
Servicing: d11e101, d11e102, d11e105, d11e107, d11e108, d11e109, d11e110, d11e111, d11e115, d11e123, d11e126, d11e135, D11E155  
OD 11.50, Length 23.90

Pkg. 10



**135422** Brush Spring

Servicing: D7R..., D7RS..., D8R49, ts18e33, TS18E331  
OD 8.55, Length 26.00

Pkg. 10



**135423** Spring Retainer

Servicing: D8R49, ts18e33, TS18E331  
OD 18.10, Height 6.15

Pkg. 10



**233766** Brush Spring

OD 11.85, Length 33.50

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

**236615** Brush Spring

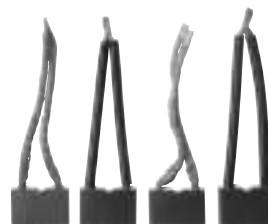
Servicing: D6G1, d6g3, D6G32, D6G321, D6G33, D6G5, D6GS11, D6GS12, D6GS13, D6GS14, D6GS19, TS12E10, TS12E9, TS14E11, TS14E110  
OD 7.90

**Brush Sets**



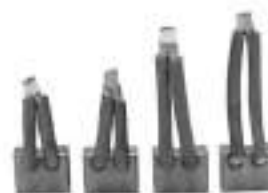
**140840<sup>#</sup>** Brush/Spring Kit

Replacing: 182117  
Servicing: D11E119, D11E119T, D11E120, D11E158, D11E167T, D11E169, D11E176  
Length 17.00, Lead length 74.50, Lead length 2 51.50, Height 25.00, Thickness 10.00  
Brush set only: HC-CARGO PSX1254.  
Alternative no.: psx1254



**140851** Brush/Spring Kit

Replacing: 182145  
Servicing: d11e122, d11e122t, d11e128, d11e128t, d11e130, d11e89, d11e89t, d11e89te, d11e90, d11e90t, d11e98, d11e98t, d11e98te  
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  
24 V, Length 20.00, Lead length 69.50, Lead length 2 46.00, Height 25.00, Thickness 10.00



**141224** Brush Set

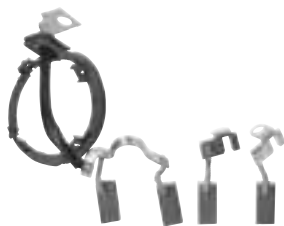
12 V, Length 15.15, Lead length 61.00/93.00, Lead length 2 30.00, Height 11.85, Thickness 4.42



**141244** Brush Set

Servicing: TM000A27301, TM000A27601, TM000A31001, TM000A37001  
12 V, Length 12.00, Lead length 27.00, Lead length 2 20.00/29.00, Height 12.00, Thickness 4.50




**141274** Brush Set

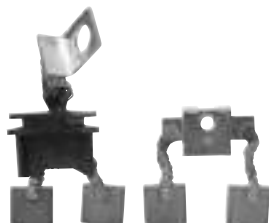
Servicing: D6RA137, d6ra138, D6RA187, D6RA188  
 12 V, Length 21.10, Lead length 90.00,  
 Lead length 2 22.00, Height 10.00,  
 Thickness 7.45


**142037** Brush Set

Servicing: 1250303, S0001250303, TA000A37301, TM000A37001, TM000A37201, TM000A37301  
 12 V, 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 V, Length 12.00, Lead length 32.50,  
 Lead length 2 25.00, Height 12.00,  
 Thickness 4.50


**142058** Brush Set

12 V, Length 12.00, Lead length 30.00,  
 Lead length 2 64.50, Height 12.00,  
 Thickness 4.50


**142071** Brush

Servicing: 1250295, TM000A33401  
 12 V, Length 11.83, Lead length 30.50,  
 Height 16.07, Thickness 4.45  
 Cable length B+=50.50 mm.


**PSX106-1072** Brush Set

Replacing: 182072, 078166  
 12 V, Length 14.00, Lead length 66.50,  
 Height 15.00, Thickness 7.00


**PSX1124** Brush Set

Replacing: 182146, 180237, 078900  
 Servicing: D13E107TE, d13e109te, D13E110, D13E110TE, d13e76, d13e77, d13e77t, d13e86te, d13e87te, D13E93TE, D13E94TE, d13e96te  
 24 V, Length 17.00, Lead length 40.00,  
 Height 18.00, Thickness 10.00


**PSX115-1162** Brush Set

Replacing: PSX71-922, 182064, 092655, 075943, 075269  
 Servicing: d10e48, d10e54, d10e57, d10e63, d10e64, d10e65, d10e76, d10e80, d10e84, d8e104, d8e106, d8e108, d8e109, d8e112, d8e113  
 12 V, Length 14.00, Lead length 66.00,  
 Height 18.00, Thickness 6.90

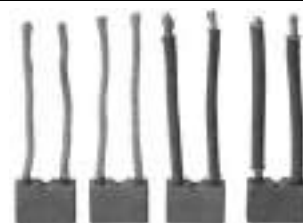
Pkg. 5


**PSX119-1202** Brush Set

Replacing: 182070  
 Servicing: d8e107, d8e111, d8e116, d8e130, d8e131, D8E141, d8e148, d8e154, D8E54, d8e74, d8e99  
 12 V, Length 14.30, Lead length 65.00,  
 Height 14.90, Thickness 6.90


**PSX122-123-124** Brush Set

Replacing: 182073  
 12 V, Length 15.10, Lead length 54.00,  
 Lead length 2 34.00, Height 12.45,  
 Thickness 4.50/8.90


**PSX1254** Brush Set

Replacing: psx1254, 092744  
 12 V, Length 17.25, Lead length 73.00,  
 Height 24.95, Thickness 9.95  
 Set w/ springs: HC-CARGO 140840.  
 Alternative no.: 140840


**PSX1292/1P** Brush Set

Replacing: 594065, 182065, 092878  
 Servicing: d9e100, d9e102, d9e104, d9e111, d9e131, d9e138, d9e140, d9e200, d9e238, d9e300, d9e31, d9e40, d9e43, d9e44, d9e45  
 12 V, Length 15.00, Lead length 62.00,  
 Lead length 2 42.00, Height 10.10,  
 Thickness 6.50/9.60



**PSX1304** Brush Set

Replacing: 300687, 182068, 092883  
 12 V, Length 15.10, Lead length 64.00,  
 Lead length 2 41.00, Height 10.05,  
 Thickness 6.50/9.65



**PSX1324** Brush Set

Replacing: 182118, 092925, 075707  
 Servicing: d11e148, d11e156, d11e161,  
 d11e172, d11e177, d11e184, d11e187,  
 d11e188, d11e191, d11e192, d11e195,  
 d11e272  
 12 V, Length 14.05, Lead length 66.00,  
 Height 17.90, Thickness 9.90



**PSX1332** Brush Set

Replacing: 594066, 182067, 182066, 092914  
 Servicing: d9e101, d9e107, d9e108,  
 d9e109, d9e113, d9e114, d9e123, d9e124,  
 d9e125, d9e127, d9e129, d9e132, d9e136,  
 d9e137, d9e237  
 12 V, 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 V, 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 V, Length 18.45, Lead length 44.50,  
 Height 14.90, Thickness 6.85



**PSX138-1392** Brush Set

Replacing: psx138-1392  
 12 V, 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 V, Length 21.95, Lead length 47.00,  
 Height 17.90, Thickness 8.90



**PSX142-1434** Brush Set

Replacing: psx142-1434  
 Servicing: 1250128, 1250449, 188839,  
 D7G20, D7R1, D7R11, D7R12, D7R127,  
 D7R13, d7r14, D7R15, D7R151, D7R16,  
 D7R18, D7R19, D7R2  
 12 V, Length 13.75, Lead length 35.50,  
 Height 13.80, Thickness 6.85



**PSX142-1444** Brush Set

Replacing: psx142-1444, 187779, 187778  
 Servicing: 188839, D7G26, D7R1, D7R11,  
 D7R12, D7R127, D7R13, D7R15, D7R151,  
 D7R16, D7R17, D7R18, D7R19, D7R2, D7R22,  
 D7R23, D7R25  
 12 V, 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: PSX148-1494, PSX144-145K,  
 594386, 594317, 594127, 594063, 594062,  
 594060  
 Servicing: d6ra101, D6RA104, d6ra110,  
 d6ra12, D6RA13, D6RA141, D6RA15, d6ra16,  
 d6ra161, D6RA167, d6ra17, d6ra18, D6RA19,  
 d6ra20  
 12 V, Length 18.00, Lead length 91.00,  
 Lead length 2 45.00/50.00, Height 11.00,  
 Thickness 4.50/9.00  
 Only spring: HC-CARGO 610203. Only gasket:  
 HC-CARGO 610204. 2 component.



**PSX146-147K** Brush Set

Replacing: 594064, 594061  
 Servicing: D6RA10, D6RA7, D6RA8  
 12 V, Length 14.00, Lead length 92.00,  
 Lead length 2 47.00, Height 11.00,  
 Thickness 4.50/9.00  
 Spring only: HC-CARGO 610205. insulator  
 only: HC-CARGO 610204.


**PSX148-157K** Brush Set

Replacing: PSX148-157K

Servicing: d6ra13, d6ra15, d6ra17, d6ra19, d6ra21, d6ra22, d6ra23, d6ra25, d6ra26, d6ra28, d6ra29, d6ra30, d6ra32, d6ra34, d6ra39

 12 V, 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 V, Length 18.00, Lead length 72.00, Lead length 2 45.00, Height 11.00, Thickness 4.50/9.00

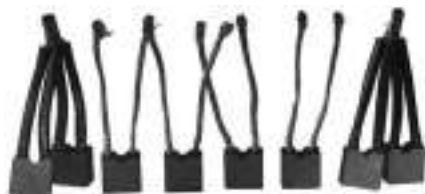

**PSX148-159K** Brush Set

Replacing: PSX148-159K, 594360, 594169

Servicing: D6RA133, D6RA180, D6RA181, D6RA33, D6RA37, D6RA47, D6RA51, D6RA511, D6RA57, D6RA571, d6ra67, d6ra78, d6ra79, D6RA80

12 V, Length 18.00, Lead length 41.00, Lead length 2 46.50, Height 11.00, Thickness 4.50/9.00

Only spring: HC-CARGO 610203. Only gasket: HC-CARGO 610204. 2 component.


**PSX152-1538** Brush Set

Replacing: 182037

Servicing: d13e117te, d13e118te, d13e119te, d13e120te, d13e121te, d13e122te, D13E123, D13E1231TE, d13e123te, d13hp701, d13hp702

24 V, Length 17.00, Lead length 67.50, Height 18.00, Thickness 10.00


**PSX1554** Brush Set

Replacing: psx1554, 187144

Servicing: D7E... 2 component, D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30

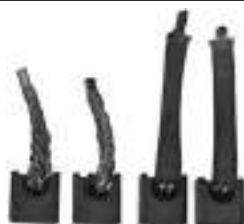
12 V, Length 11.00, Lead length 31.50, Height 8.00, Thickness 6.40


**PSX1564** Brush Set

Replacing: psx1564, 187888

Servicing: ACR, 2 component

12 V, Length 11.00, Lead length 30.00, Height 8.00, Thickness 6.40


**PSX1584** Brush Set

Replacing: psx1584

Servicing: D7R..., d7r48

12 V, Length 13.70, Lead length 56.00, Lead length 2 37.00, Height 14.00, Thickness 7.00


**PSX160-1644** Brush Set

Replacing: psx160-1644, 191060, 190986

Servicing: 190895, 191335, D7G11, D7G3, D7G4, D7GS10, D7GS8, D7GS9, TS18E3

 12 V, Length 11.50, Lead length 28.00, Lead length 2 25.50, Height 13.00, Thickness 7.00  
 2 component.

**PSX1614** Brush Set

Replacing: PSX1614

Servicing: D8R... 2 component

12 V, Length 13.80/14.00, Lead length 36.00, Height 13.70, Thickness 7.00


**PSX166-1674** Brush Set

Replacing: PSX166-1674, 191849, 191771

Servicing: D6G1, D6G2, d6g3, D6G5

 12 V, Length 15.50, Lead length 38.50, Lead length 2 24.00, Height 10.00, Thickness 3.90/6.40  
 2 component.

**PSX168-1674** Brush Set

Replacing: psx168-1674, 192285

Servicing: D6GSP19

 12 V, Length 15.50, Lead length 38.50, Lead length 2 22.00, Height 10.00, Thickness 3.90/6.40  
 2 component. Overload protection.

**PSX169-1704** Brush Set

Replacing: PSX169-1704, 191773, 191772

Servicing: ACR, D6G1, D6G3, D6G32, D6G33, D6G5, D6GS11, D6GS12, D6GS13, D6GS14, D6GS19, TS12E10, TS12E9, TS14E11

 12 V, Length 15.50, Lead length 22.50, Lead length 2 39.00, Height 10.00, Thickness 3.90/6.40  
 2 component. Overload protection.



**PSX54-692** Brush Set

Replacing: 182069, 072595  
6 V, Length 14.50, Lead length 56.35,  
Height 18.00, Thickness 10.00



**PSX64-702** Brush Set

Replacing: 72591a, 075452, 072591  
12 V, Length 17.00, Lead length 60.00,  
Height 18.00, Thickness 7.00



**PSX77-784** Brush Set

Replacing: 72632h, 182112, 072632, 072619  
Servicing: d11e58, d11e69, D11E84,  
d11e85, D8E105  
12/24 V, Length 14.00,  
Lead length 65.00, Height 18.00,  
Thickness 7.00



**PSX81-824** Brush Set

Replacing: 300679, 182115, 182114,  
075093, 072631  
Servicing: d11e118, d11e119, d11e119t,  
d11e120, d11e129, d11e129t, d11e131,  
d11e137, d11e141, d11e146, d11e153,  
d11e153t, d11e154  
12 V, Length 17.00, Lead length 73.50,  
Height 25.00, Thickness 10.00  
Set w/ springs: HC-CARGO 140840.



**PSX83-844** Brush Set

Replacing: 182153, 182132, 072630  
Servicing: D11E122, D11E122T, D13E111  
24 V, Length 17.00, Lead length 73.50,  
Height 25.00, Thickness 10.00  
Set w/ springs: HC-CARGO 140851.  
Alternative no.: 140851



**PSX884#** Brush Set

Replacing: 182162  
Servicing: d15e29, D15E29TE, d15e30,  
d15e30te  
24 V, Length 20.00, Lead length 50.00,  
Height 18.00, Thickness 12.00



**USX64-652** Brush Set

Replacing: 182194  
6 V, Length 15.00, Lead length 46.00,  
Height 15.00, Thickness 8.00



**USX682** Brush Set

Replacing: 618481, 075238  
12 V, Length 15.00, Lead length 46.00,  
Height 15.00, Thickness 8.00

**Brushes**

Pkg. 100



**PS115** Brush

Replacing: PSX115-1162  
12 V, Length 14.10, Lead length 65.50,  
Height 17.95, Thickness 6.92  
Alternative no.: PSX115-1162

Pkg. 100



**PS116** Brush

Replacing: PSX115-1162  
12 V, Length 14.30, Lead length 66.00,  
Height 17.95, Thickness 6.95  
Alternative no.: PSX115-1162

Pkg. 100



**PS129A** Brush

Replacing: PSX1292/1P  
12 V, 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  
12 V, Length 15.00, Lead length 41.50,  
Height 9.85, Thickness 6.50/9.85  
Alternative no.: PSX1292/1P

Pkg. 100


**PS132A** Brush

Replacing: PSX1324

 12 V, Length 14.10, Lead length 66.00,  
 Height 17.85, Thickness 9.90

Alternative no.: PSX1324

Pkg. 100


**PS133A** Brush

Replacing: PSX1332

 12 V, Length 15.00, Lead length 63.50,  
 Height 11.80, Thickness 7.30/12.25

Alternative no.: PSX1332

Pkg. 100


**PS133B** Brush

Replacing: PSX1332

 12 V, Length 15.00, Lead length 48.00,  
 Height 11.75, Thickness 7.00/12.30

Alternative no.: PSX1332

Pkg. 100


**PS136** Brush

Replacing: PSX136-1374

 12 V, Length 18.50, Lead length 45.50,  
 Height 14.90, Thickness 6.90

Alternative no.: PSX136-1374

Pkg. 100


**PS137** Brush

Replacing: PSX136-1374

 12 V, Length 18.55, Lead length 43.50,  
 Height 15.00, Thickness 6.90

Alternative no.: PSX136-1374

Pkg. 100


**PS140/0** Brush

Replacing: psx140-1414

 12 V, 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 V, Length 22.00, Lead length 45.00,  
 Height 17.90, Thickness 8.90

Alternative no.: PSX140-1414

Pkg. 100


**PS142** Brush

Replacing: PS142

 12 V, Length 13.75, Lead length 35.50,  
 Height 13.80, Thickness 6.85

Pkg. 100


**PS143** Brush

Replacing: PS143

 12 V, Length 13.75, Lead length 35.50,  
 Height 13.80, Thickness 6.85

Pkg. 100


**PS144** Brush

Replacing: psx142-1444

 12 V, Length 17.95, Lead length 46.00,  
 Height 11.00, Thickness 4.50/9.05

Alternative no.: PSX142-1444

Pkg. 100


**PS145** Brush

Replacing: 188571

 12 V, 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


**PS146** Brush

Replacing: PSX146-147K

 12 V, Length 13.90, Lead length 43.00,  
 Height 10.85, Thickness 4.50/9.05

Alternative no.: PSX146-147K

Pkg. 100



**PS147#** Brush

Replacing: PSX146-147K

12 V, Length 13.90, Lead length 90.00,  
Lead length 2 51.00, Height 10.85,  
Thickness 4.50/8.90

Alternative no.: PSX146-147K

Pkg. 100

**PS155B** Brush

Replacing: 187144

Servicing: D7E... 2 component

12 V, Length 11.00, Lead length 31.50,  
Height 8.00, Thickness 6.40

Pkg. 100



**PS169B** Brush

Replacing: PS169B, 191773, 191772

Servicing: ACR

12 V, Length 15.50, Lead length 22.50,  
Height 10.00, Thickness 3.90

2 component. Overload protection.

Pkg. 100



**PS170B** Brush

Replacing: PS170B, 191773, 191772

Servicing: ACR

12 V, Length 15.50, Lead length 39.00,  
Height 10.00, Thickness 6.40

2 component. Overload protection.

Pkg. 100



**PS99** Brush

Replacing: PSX1324

12 V, Length 14.25, Lead length 65.80,  
Height 17.95, Thickness 9.95

Alternative no.: PSX1324

**Bushings**

Pkg. 10



**140038** Bushing

Replacing: 098888

ID 10.07, OD 13.05, Length 12.00

Alternative no.: b140038

Pkg. 10



**140043** Bushing

Replacing: 051914

Servicing: 532004C, D10E48, D10E59,  
D10E63, D10E72, D10E74, D10E75, D10E80,  
D10E81, D10E83, D10E85, D10E88, D10E881,  
D10E882

ID 12.10, OD 15.05, Length 15.00

Alternative no.: b140043

Pkg. 10



**140064** Bushing

Replacing: 035070

Servicing: D10E66

ID 12.07, OD 15.05, Length 20.00

Alternative no.: b140064

Pkg. 10



**140065** Bushing

Replacing: 604521, 047852

Servicing: D11E109, D11E120, D11E131,  
D11E142, D11E155, D11E156, D11E158,  
D11E159, D11E167T

ID 14.07, OD 18.05, Length 20.15

Alternative no.: b140065

Pkg. 10



**140066** Bushing

Replacing: 072101, 030828

Servicing: D11E131, D11E155, D11E156,  
D11E167T

ID 16.00, OD 19.15, Length 15.00

Alternative no.: b140066

Pkg. 10



**140067** Bushing

Replacing: 050488

Servicing: D11E120, D11E131, D11E156,  
D11E158, D11E163, D11E169, D11E172,  
D11E173, D11E176, D11E177, D11E187,  
D11E272

ID 20.02, OD 24.06, Length 12.00

Alternative no.: b140067

Pkg. 10



**140068** Bushing

Replacing: 047403

ID 17.05, OD 21.05, Length 20.00

Alternative no.: b140068

Pkg. 10


**140119** Bushing

Replacing: 074952

Servicing: D10E48, D10E63, D10E66, D10E72, D10E74, D10E80, D10E85, D10E92, D10E921, D8E109, D8E126, D9E16, D9E21  
 ID 16.00, OD 20.00, Length 10.00  
 Alternative no.: b140119

Pkg. 10


**140258** Bushing

Replacing: 105464

Servicing: D9R112, D9R116, D9R118, D9R119, D9R121, D9R122, D9R142, D9R144, D9R149, D9R73, D9R84, D9R89, D9R90, D9R91, D9R97, D9R99  
 ID 10.03, OD 13.04, Length 13.00  
 Alternative no.: b140258

Pkg. 10


**140259** Bushing

Replacing: 105715

Servicing: D9R112, D9R116, D9R118, D9R119, D9R121, D9R122, D9R142, D9R144, D9R149, D9R73, D9R84, D9R89, D9R90, D9R91, D9R97, D9R99  
 ID 10.06, OD 13.04, Length 16.00  
 Alternative no.: b140259

Pkg. 10


**140429** Bushing

Replacing: 36112-11140

Servicing: M000A0240Z, M04686, M35216, M39376, M39646, M43196, M56290, MC107023, MC108024, MC108027, MC108030, MC109011, MC109015  
 ID 12.02, OD 16.00, Length 9.50  
 Alternative no.: b140429

Pkg. 10


**140440** Bushing

Replacing: 104164

Servicing: D10E88, D10E881, D10E882, D10E89  
 ID 16.00, OD 20.00, Length 8.00  
 Alternative no.: b140440


**140472** Bushing Kit

Replacing: ne666, 182157

Servicing: d13e100te, D13E101TE, d13e104te, d13e105, d13e108te, d13e111, d13e116, d13e72, d13e73, d13e73te, d13e74, d13e74te


**140473** Bushing Kit

Replacing: ne486, 182158

Servicing: D13E107TE, d13e109te, D13E110, D13E110TE, d13e117te, d13e118te, d13e119te, d13e120te, d13e121te, d13e122te, D13E123

Pkg. 10


**140496** Bushing

Servicing: D6G1, D6G3, D6G32, D6G33, D6G5, D6RA10, D6RA12, D6RA13, D6RA132, D6RA133, D6RA138, D6RA141, D6RA15, D6RA16, D6RA161  
 ID 12.06, OD 15.04, Length 10.00  
 Alternative no.: b140496

Pkg. 10


**140497** Bushing

Servicing: 626002, D6RA10, D6RA100, D6RA101, D6RA104, D6RA105, D6RA107, D6RA110, D6RA114, D6RA115, D6RA12, D6RA13, D6RA132  
 ID 6.05, OD/ collar 13.76, OD 10.02, Length 8.30, Height/ collar 2.10  
 Alternative no.: b140497

Pkg. 10


**140498** Bushing

Servicing: 626002, D6RA100, D6RA101, D6RA104, D6RA114, D6RA132, D6RA15, D6RA162, D6RA163, D6RA167, D6RA168, D6RA181, D6RA249  
 ID 18.05, OD 22.04, Length 5.00  
 Alternative no.: b140498

Pkg. 10


**140499** Bushing

Servicing: 626002, D6G1, D6G3, D6G32, D6G33, D6G5, D6GS11, D6GS12, D6GS13, D6GS14, D6GS19, D6RA100, D6RA101, D6RA104, D6RA114  
 ID 6.02, OD 9.00, Length 7.10  
 Alternative no.: b140499

Pkg. 10


**140501** Bushing

Replacing: 078039  
 ID 12.00, OD/ collar 18.00, OD 15.06, Length 16.00, Height/ collar 1.50  
 Alternative no.: b140501





**140526** Bushing Kit

Replacing: ne002, 182142

Servicing: d11e184, d11e189, d11e191, D11E192, d11e195, d11e197, d11e198



**140531** Bushing Kit

Replacing: ne003, 182061

Servicing: d10e59, d10e69, d10e75, d10e81, d10e83, d8e104, D8E105, d8e106, d8e107, d8e110, d8e111, d8e112, d8e113, d8e114, d8e115



**140533** Bushing Kit

Replacing: ne379, ne005, 182063

Servicing: 532001AB, 532001B, 532005A, 532007A, 532011A, 532012A, 532012B, 532017A, 532020A, 532020B, 532021A, 532023A, 532024A

ID 12.07, OD 15.07, Length 12.01



**140534#** Bushing Kit

Replacing: ne006, 182074

Servicing: d8e103, d8e155, d8e157, d8e158, d8e163, D8E164



**140535#** Bushing Kit

Replacing: ne623, 182095



**140536** Bushing Kit

Replacing: ne007, 182096

Servicing: d10e85, d10e87, d10e88, d10e881, d10e882, d10e89, d10e90, d10e92, d10e921, d10e922



**140537** Bushing Kit

Replacing: ne008, 182136

Servicing: d11e108, d11e118, d11e119, d11e119t, d11e120, d11e131, d11e137, d11e139, d11e139t, d11e141, d11e144, d11e146, d11e148



**140539** Bushing Kit

Replacing: ne010, 182138

Servicing: d11e122, d11e122t, d11e128, d11e128t, d11e129, d11e129t, d11e138, d11e138t, d11e149



**140540** Bushing Kit

Replacing: ne011, 182139

Servicing: 182442, D11E120, D11E126, d11e142, d11e143, d11e153, d11e153t, d11e154, d11e155, d11e156, d11e158, d11e159, d11e160



**140541** Bushing Kit

Replacing: ne012, 182140

Servicing: d11e163, d11e164, d11e169, d11e172, d11e173, d11e176, d11e177, d11e178, d11e187, d11e188, d11e192, d11e272



**140543** Bushing Kit

Replacing: ne381

Servicing: 6056H, 6056J, 6099C, 6099D, 6109F, 6109G, 6109H, 6109K, 6109L, 6160D, 6160E, 6160F, 6160G, 6169A, 6169B, 6177A, 6177C

Pkg. 10



**140615** Bushing

Servicing: D6RA110, D6RA132, D6RA133, D6RA161, D6RA162, D6RA163, D6RA249, D6RA30, D6RA32, D6RA33, D6RA45, D6RA46, D6RA51, D6RA56

ID 6.00, OD/ collar 13.76, OD 10.20, Length 8.20, Height/ collar 1.55  
Alternative no.: b140615

Pkg. 10



**140667** Bushing

Replacing: 068763, 050531

Servicing: D11E163

ID 14.05, OD 18.05, Length 15.00

Pkg. 10



**140669** Bushing  
 Replacing: 071437  
 ID 25.03, OD/ collar 39.00, OD 32.07,  
 Length 20.00, Height/ collar 3.50  
 Alternative no.: b140669

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Pkg. 10



**140670** Bushing  
 Replacing: 071381  
 ID 16.05, OD 20.04, Length 24.90  
 Alternative no.: b140670

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Pkg. 10



**140671** Bushing  
 Replacing: 074330  
 ID 27.05, OD 35.07, Length 14.40  
 Alternative no.: b140671

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Pkg. 10



**140672** Bushing  
 Replacing: 046388  
 ID 20.05, OD 28.05, Length 29.00  
 Alternative no.: b140672

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Pkg. 10



**140673** Bushing  
 Replacing: 046390  
 ID 20.05, OD/ collar 33.00, OD 28.07,  
 Length 24.90, Height/ collar 3.00  
 Alternative no.: b140673

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Pkg. 10



**140676** Bushing  
 Replacing: 095654  
 Servicing: D11E155, D11E167T  
 ID 20.04, OD 24.05, Length 16.00  
 Alternative no.: b140676

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Pkg. 10



**140679** Bushing  
 Replacing: 048499  
 ID 20.10, OD 24.07, Length 18.00  
 Alternative no.: b140679

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Pkg. 10



**140680** Bushing  
 Replacing: 074322, 055330  
 Servicing: D13HP601, D13HP605, D13HP607,  
 D13HP702, D13HP703, D13HP709  
 ID 17.08, OD 21.05, Length 24.00  
 Alternative no.: b140680

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Pkg. 10



**140683** Bushing  
 Replacing: 075289  
 ID 25.02, OD 30.04, Length 15.00  
 Alternative no.: b140683

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Pkg. 10



**140684** Bushing  
 Replacing: 096485  
 Servicing: D11E163  
 ID 14.05, OD 18.03, Length 16.00  
 Alternative no.: b140684

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Pkg. 10



**140734** Bushing  
 Servicing: D7G11, D7G26, D7GS10, D7GS9,  
 D7R13, D7R16, D7R17, D7R18, D7R2, D7R20,  
 D7R22, D7R23, D7R25, D7R26, D7R34, D7R4,  
 D7R43  
 ID 7.02, OD 10.00, Length 6.10  
 Alternative no.: b140734

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Pkg. 10



**140735** Bushing  
 Servicing: D7G11, D7G26, D7GS10, D7GS9,  
 D7R13, D7R16, D7R17, D7R18, D7R2, D7R20,  
 D7R22, D7R23, D7R25, D7R26, D7R34, D7R4,  
 D7R43  
 ID 20.02, OD 24.03, Length 5.00  
 Alternative no.: b140735

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Pkg. 10

**140952** Bushing

Servicing: D6RA15, D6RA168, D6RA42, D6RA43, D6RA47, D6RA63, D6RA68, D6RA7  
ID 4.00, OD 7.00, Length 7.40

Pkg. 10



**140959** Bushing

Replacing: 103063  
Servicing: D13HP601, D13HP605, D13HP607, D13HP702, D13HP703, D13HP709  
ID 19.00, OD 23.02, Length 25.00  
Alternative no.: b140959

Pkg. 10



**141097** Bushing

Servicing: D13HP601, D13HP605, D13HP607, D13HP702, D13HP703, D13HP709  
ID 21.92, OD 28.05, Length 18.00

Pkg. 10



**141145** Bushing

Servicing: M52100, M53486, MP112033, MP112040, MP112042, TM000A07901, TM000A08401  
ID 8.15, OD 11.50, Length 11.25



Pkg. 10

**141146** Bushing

ID 10.10, OD 14.00, Length 12.00

Pkg. 10



**141160** Bushing

Servicing: D6RA165, D6RA185, D6RA85  
ID 18.08, OD 22.06, Length 4.95

Pkg. 10



**141221** Bushing

Servicing: 594436  
ID 11.01, OD 12.10, Length 15.30

Pkg. 10



**141252** Bushing

Servicing: 1250303, S0001250303, TM000A27301, TM000A31001, TM000A37001, TM000A37201, TM000A37301  
ID 12.02, OD/ collar 19.66, OD 16.00, Length 10.96, Height/ collar 2.06



Pkg. 10

**141264** Bushing

Servicing: TM000A31201  
ID 19.00, OD 23.50, Length 10.00



**142000** Bushing Kit

Replacing: 594458  
Servicing: D7ES1, d7es2, d7es4

Pkg. 10



**142009** Bushing

Servicing: 594631  
ID 12.09, OD 14.03, Length 22.90

Pkg. 10



**142027** Bushing













ID 12.00, OD 15.40, Length 10.00

Pkg. 10



**142028** Bushing

Servicing: D6G1, D6G3, D6GS11, D6GS12, D6GS13  
ID 14.00, OD 18.05, Length 6.40

 <p><b>142076</b> Bushing                      Servicing: 1250449                      ID 10.07, OD 13.05, Length 9.99</p>	 <p><b>B140065</b> Bushing                      Replacing: 604521, 047852                      ID 14.07, OD 18.05, Length 20.15                      Alternative no.: 140065</p>	 <p><b>B140119</b> Bushing                      Replacing: 074952                      ID 16.00, OD 20.00, Length 10.00                      Alternative no.: 140119</p>
 <p><b>B140038</b> Bushing                      Replacing: 098888                      ID 10.07, OD 13.05, Length 12.00                      Alternative no.: 140038</p>	 <p><b>B140066</b> Bushing                      Replacing: 072101, 030828                      ID 16.00, OD 19.15, Length 15.00                      Alternative no.: 140066</p>	 <p><b>B140258</b> Bushing                      Replacing: 105464                      ID 10.03, OD 13.04, Length 13.00                      Alternative no.: 140258</p>
 <p><b>B140043</b> Bushing                      Replacing: 051914                      ID 12.10, OD 15.05, Length 15.00                      Alternative no.: 140043</p>	 <p><b>B140067</b> Bushing                      Replacing: 050488                      ID 20.02, OD 24.06, Length 12.00                      Alternative no.: 140067</p>	 <p><b>B140259</b> Bushing                      Replacing: 105715                      ID 10.06, OD 13.04, Length 16.00                      Alternative no.: 140259</p>
 <p><b>B140064</b> Bushing                      Replacing: 035070                      ID 12.07, OD 15.05, Length 20.00                      Alternative no.: 140064</p>	 <p><b>B140068</b> Bushing                      Replacing: 047403                      ID 17.05, OD 21.05, Length 20.00                      Alternative no.: 140068</p>	 <p><b>B140440</b> Bushing                      Replacing: 104164                      ID 16.00, OD 20.00, Length 8.00                      Alternative no.: 140440</p>



Pkg. 100

**B140496** Bushing

Replacing: 140496  
 Servicing: TS12E9  
 ID 12.06, OD 15.04, Length 10.00  
 Alternative no.: 140496

Pkg. 100



**B140497** Bushing

Replacing: 140497  
 ID 6.05, OD/ collar 13.76, OD 10.02,  
 Length 8.30, Height/ collar 2.10  
 Alternative no.: 140497

Pkg. 100



**B140498** Bushing

Replacing: 140498  
 ID 18.05, OD 22.04, Length 5.00  
 Alternative no.: 140498

Pkg. 100



**B140499** Bushing

Replacing: 140499  
 Servicing: TS12E9, TS14E11  
 ID 6.02, OD 9.04, Length 7.00  
 Alternative no.: 140499



Pkg. 100

**B140501** Bushing

Replacing: 078039  
 ID 12.00, OD/ collar 18.00, OD 15.06,  
 Length 16.00, Height/ collar 1.50  
 Alternative no.: 140501

Pkg. 100



**B140615** Bushing

Replacing: 140615  
 ID 6.00, OD/ collar 13.76, OD 10.20,  
 Length 8.20, Height/ collar 1.50  
 Alternative no.: 140615

Pkg. 100



**B140669** Bushing

Replacing: 071437  
 ID 25.02, OD/ collar 39.00, OD 32.10,  
 Length 19.80, Height/ collar 3,45  
 Alternative no.: 140669

Pkg. 100



**B140670** Bushing

Replacing: 071381  
 ID 16.05, OD 20.04, Length 24.90  
 Alternative no.: 140670



Pkg. 100

**B140671** Bushing

Replacing: 074330  
 ID 27.05, OD 35.07, Length 14.40  
 Alternative no.: 140671

Pkg. 100



**B140672** Bushing

Replacing: 046388  
 ID 20.05, OD 28.05, Length 29.00  
 Alternative no.: 140672

Pkg. 100



**B140673** Bushing

Replacing: 046390  
 ID 20.05, OD/ collar 33.00, OD 28.07,  
 Length 24.90, Height/ collar 3.00  
 Alternative no.: 140673

Pkg. 100



**B140676** Bushing

Replacing: 095654  
 ID 20.04, OD 24.05, Length 16.00  
 Alternative no.: 140676

Pkg. 100


**B140679** Bushing

Replacing: 048499

 ID 20.10, OD 24.07, Length 18.00  
 Alternative no.: 140679

Pkg. 100


**B140680** Bushing

Replacing: 074322, 055330

 ID 17.08, OD 21.05, Length 24.00  
 Alternative no.: 140680

Pkg. 100


**B140683** Bushing

Replacing: 075289

 ID 25.02, OD 30.04, Length 15.00  
 Alternative no.: 140683

Pkg. 100


**B140684** Bushing

Replacing: 096485

 ID 14.05, OD 18.03, Length 16.00  
 Alternative no.: 140684

Pkg. 100


**B140734** Bushing

Replacing: 140734

 ID 7.02, OD 10.00, Length 6.10  
 Alternative no.: 140734

Pkg. 100


**B140735** Bushing

Replacing: 140735

 ID 20.02, OD 24.03, Length 5.00  
 Alternative no.: 140735

Pkg. 100


**B140959** Bushing

Replacing: 103063

 ID 19.00, OD 23.02, Length 25.00  
 Alternative no.: 140959

Pkg. 5

**Bearings**
**Needle Bearings**

**140919** Needle Bearing

Replacing: 186448

 Servicing: 626002, D6RA100, D6RA107,  
 D6RA110, D6RA114, D6RA137, D6RA138,  
 D6RA167, D6RA168, D6RA181, D6RA187,  
 D6RA188, d6ra67

 ID 10.00, OD 14.00, Height 14.00, Rolls 12  
 Closed end.

Pkg. 5


**141001** Needle Bearing

 Servicing: 188839, D7G11, D7R1, D7R13,  
 D7R16, D7R17, D7R18, D7R2, D7R20, D7R25,  
 D7R3, D7R4, D7R40, D7R45, D7R61, D7R8,  
 D7RP82

 ID 10.00, OD 14.00, Height 12.00,  
 Rolls 16

Pkg. 10


**141168** Needle Bearing

 Servicing: 626002, D6RA100, D6RA114,  
 D6RA167, D6RA181, d6ra67, d6ra81,  
 D6RA91, D6RAD183, D6RADP359

ID 4.00, OD 8.00, Height 7.90, Rolls 7

Pkg. 10


**141225** Needle Bearing

 Servicing: 191335, D6GS11, D6GS12,  
 D6GS13, D6GS14, D6GS19, D7GS10, D7GS8,  
 D7GS9, D7RS129, D7RS130, D7RS131,  
 D7RS150, d7rs29

ID 29.50, OD 36.70, Height 13.30

Pkg. 5


**142003** Needle Bearing

Servicing: d7es5, TS10E26

ID 26.10, OD 33.00, Height 13.70

### Repair Kits



**133078** Stop Collar Kit

Replacing: 594084

Servicing: d6ra10, d6ra11, d6ra12, d6ra13, D6RA132, d6ra133, d6ra141, d6ra15, d6ra16, d6ra161, d6ra162, D6RA163, D6RA168, d6ra17



**135635** Repair Kit

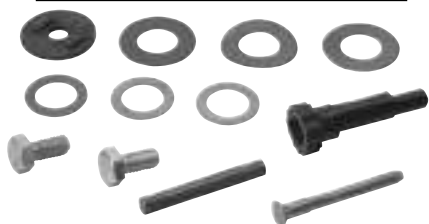
Servicing: d6ra10, d6ra12, d6ra8



**135636** Repair Kit

Replacing: 594243

Servicing: d6ra100, d6ra101, d6ra104, d6ra105, D6RA107, d6ra110, d6ra115, D6RA132, d6ra16, D6RA162, D6RA163, D6RA168, d6ra18



**136227** Repair Kit

Replacing: 182060

Servicing: d10e85, d10e87, d10e88, d10e881, d10e882, d10e89, d10e90, d10e92, d10e921, d10e922, D8E117, D8E121, D8E130, D8E131



**231074** Stop Collar Kit

Replacing: 594242

Servicing: 626002, d6ra100, d6ra105, d6ra107, d6ra108, d6ra109, D6RA114, D6RA137, d6ra138, D6RA165, D6RA167, D6RA168, D6RA180



**231117** Repair Kit

Replacing: 182050

Servicing: d9r105, d9r1050, d9r106, d9r112, d9r116, d9r118, d9r119, d9r121, d9r122, D9R126, d9r134, d9r135, d9r139, d9r142, d9r144



**233616** Repair Kit

Replacing: 594302

Servicing: d13hp601, D13HP607



**234021** Repair Kit

Replacing: 594200

Servicing: d13hp605, d13hp607, d13hp608, d13hp609, d13hp613, d13hp701, d13hp702, d13hp703, d13hp704, d13hp705, d13hp709

### Sundry Parts

#### C.E. Covers



**137573** Cover

Replacing: 097802

Servicing: d9e100, D9E101, D9E132, D9E136, D9E137, D9E138, D9E200, D9E237, D9E238, D9E276, D9E278, d9e300, D9E36, D9E38, D9E39

OD 41.15, Height 10.20



**231195** Cover Kit

Servicing: HQ808670, MG122202, tm000a06101, TM000A18601, TM000A23601

Pkg. 5



**231495** Cover

ID 13.75, OD 14.30, Height 13.95



**232848** Cover

Servicing: d11e119, D11E119T, D11E120, d11e131, D11E155, d11e167t, D11E188, d11e191, d11e192



**Oil Seals**

Pkg. 5


**134481** Oil Seal

 Servicing: 182178, D9R91  
 ID 18.30, OD 30.20, Height 6.95

Pkg. 5


**139588** Oil Seal

 Replacing: 074981  
 Servicing: d13e110, D13E110TE, d13e117te, d13e118te, D13E120TE, D13E123, D13E1231TE, D13E123TE  
 ID 25.70, OD 37.15, Height 6.80

Pkg. 5


**231573** Oil Seal

 Servicing: D13HP601, D13HP605, D13HP607, D13HP702, D13HP703, D13HP709  
 ID 21.60, OD 32.15, Height 6.70

Pkg. 5


**232855** Oil Seal

 Servicing: D7ES1, d7es2, D7ES4  
 ID 31.85, OD 41.45, Height 5.65

**O-rings**

Pkg. 10


**134488** O-ring

Thickness 2.00

Pkg. 10


**134776** O-ring

 Servicing: 2541182, A13N183  
 ID 12.00, Thickness 3.00

Pkg. 10


**134931** O-ring

 Servicing: D11E120, D11E126, D11E184, D11E191  
 ID 52.00, Thickness 3.00

Pkg. 5


**136431** O-ring

 Replacing: 055578  
 Servicing: D11E120, D11E122, D11E122T, D11E126, d11e131, D11E137, D11E142, D11E154, D11E156, D11E158, D11E159, D11E167T, D11E184  
 ID 106.00, Thickness 4.50

Pkg. 10


**138193** O-ring

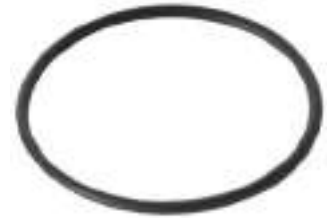
 Servicing: d9r91  
 ID 71.00, Thickness 3.00

Pkg. 10


**231331** O-ring

 Replacing: 092524  
 ID 49.20, Thickness 2.75

Pkg. 10


**233985** O-ring

Thickness 1.83, Material Nioprene

**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


**132381** Cover

OD 48.85, Height 10.30

Pkg. 10



**133388** Adaptor

Servicing: D9E131, D9E132, D9E43, D9E44, D9E83  
Thread size M8

Pkg. 5



**134106** Rubber Seal

ID 51.50, OD 61.20, Thickness 5.60,  
Material Rubber

Pkg. 10



**134107** Rubber Seal

OD 25.80, Length 34.00

Pkg. 10



**134140** Connection

Servicing: D8E132  
Old type.

Pkg. 25



**134289** Insulator

ID 10.80, OD 13.80, Length 22.55

Pkg. 10



**134699** Washer

ID 12.15, OD 23.80, Thickness 1.00,  
Material Fiber

Pkg. 10



**134756** Gasket

ID/ mount. hole 5.00, Leng  
th 51.55, Thickness 0.40, Width 41.45  
mm, No./ mount. holes 2

Pkg. 10



**134779** Plate

Thickness 1.45, Gasket w/o



**134790** Stop Collar Kit

Replacing: 097804

Servicing: d10e66, d10e72, d10e74, d10e75,  
d10e79, d10e81, d10e83, d10e85, d10e87,  
d10e88, d10e881, d10e882, d10e89, d10e90



**134791** Stop Collar Kit

Replacing: 073294

Servicing: d10e47, d10e48, d10e54,  
d10e57, d10e59, d10e63, d10e64, d10e65,  
d10e68, d10e69, d10e73, d10e76, d10e80,  
d10e84, d11e163

ID 12.00, OD 17.50, Height 6.10

Pkg. 10



**135014** Insulator

Servicing: D10E88, D10E881, D10E882,  
D10E89, D11E163, D11E167T, D11E169,  
D11E172, D11E173, D11E176, D11E177,  
D11E187, D11E191

Dim. A 22.55, Dim. B 21.65,  
Dim. D 12.51



**135317** Rubber Seal

Pkg. 10



**135516** Cover

Servicing: D8R49  
OD 23.90, Height 15.80

Pkg. 10


**135645** Screw

Replacing: 182041

Servicing: 182442, d11e108, d11e118, d11e119, d11e119t, d11e120, d11e122, d11e122t, d11e128, d11e128t, d11e129, d11e129t, d11e130

Thread M10,

Total length 16.70, Thread length 11.00

Pkg. 10


**135846** Retaining Ring

Servicing: 188839, 190895, D6G1, D6G32, D6G5, D6RA107, D6RA110, D6RA137, D6RA138, D6RA187, D6RA188, D6RA293, D6RA37, D6RA53

Stop collar: HC-CARGO 137742.

Pkg. 5


**135879** Grommet

Servicing: D10E85, D10E92, D10E921, D9E100, D9E11, D9E123, D9E138, D9E200, D9E237, D9E276, D9E278, D9E300, D9E36, D9E39, D9E45

Pkg. 10


**135968** Grommet

Servicing: D7RP123, D7RS130, D7RS131, D7RS30, D7RS301, D7RS31, D9R121, D9R122, D9R142, D9R149, D9R73, D9R84, D9R89, D9R90, D9R91

Dim. A 25.40, Dim. B 22.40, Dim. D 8.00

Pkg. 5


**136273** Gasket

Replacing: 092645

ID 28.00, ID/ mount. hole 6.15, OD 54.50, Thickness 1.30, No./ mount. holes 5

Pkg. 5


**136280** Gasket

Length 306.80, Thickness 0.45, Width 57.90 mm

Pkg. 5


**136323** Insulator

**136671** Stop Collar Kit

Replacing: 059454

Servicing: d11e122, d11e122t, d11e128, d11e128t, d11e130, d11e138, d11e138t, d11e149, d11e89, d11e89t, d11e89te, d11e90, d11e90t

ID 17.00, OD 25.00, Height 8.10

Pkg. 25


**136736** Insulator

ID 11.50, OD 16.60, Thickness 1.00

Pkg. 5


**137493** Insulator

Pkg. 10


**138140** Seal Kit

Replacing: 096486, 077526


**138645** Sealing Kit

Replacing: 182038

Servicing: d13e117te, d13e118te, d13e119te, d13e120te, d13e121te, d13e122te, D13E123, D13E1231TE, d13e123te, D13HP601, D13HP605


**138646** Sealing Kit

Replacing: 072175

Servicing: D13E101TE, d13e108te, d13e111, d13e116, d13e72, d13e73, d13e73te, d13e74, d13e74te, d13e78, d13e78te, d13e79, d13e79te



**138647** Washer Kit

Replacing: 182160

Servicing: d13e117te, d13e118te, d13e119te, d13e120te, d13e121te, d13e122te, D13E123, D13E1231TE, d13e123te, D13HP605

4 mixed plates.



**138649** Washer Kit

Replacing: 182155

Servicing: D13E101TE, d13e105, d13e108te, d13e111, d13e116, d13e72, d13e73, d13e73te, d13e74, d13e74te, d13e78, d13e78te, d13e79

Pkg. 10



**138766** Brake Washer

ID 12.20, OD 19.00, Thickness 0.80



**139174** Brake Washer

Replacing: 182197

Servicing: D11E126, D11E131, D11E158, D11E167T, d13e100te, D13E101TE, d13e104te, d13e105, D13E107TE, d13e108te, d13e109te, D13E110

ID 37.85, OD 54.00, Thickness 4.25

Pkg. 10



**139380** Connection

Replacing: 079243

Servicing: d11e131

Mount. hole 8.00, Mount. hole 2 8.00, Total length 97.45



**139535** Connection

Replacing: 182159

Servicing: d13e100te, D13E101TE, d13e104te, d13e105, D13E107TE, d13e108te, d13e109te, D13E110TE, d13e111, d13e117te, d13e118te

Mount. hole 12.60,

Mount. hole 2 12.60, Total length 82.20

Pkg. 100



**192405** Socket Screw

Replacing: 192405

Thread M5, Length 45.00, DIN norm 912, ISO Norm 4762

Pkg. 10



**230565** Stop Collar

Servicing: D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30, D7E31, D7E32, D7E38

ID 11.10, OD 16.00, Height 3.55

Used w/ retaining ring: HC-CARGO 230566.

Pkg. 5



**230566** Retaining Ring

Servicing: D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30, D7E31, D7E32, D7E38

Thickness 1.20

Stop collar: HC-CARGO 230565.

Pkg. 5



**230707** Insulator

Servicing: D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30, D7E31, D7E32, D7E38



**231194** Stop Collar Kit

ID 12.10, OD 17.40, Height 5.00



**231697#** Fiber Washer

Servicing: D13HP601, d13hp605, D13HP607, D13HP702, D13HP703, D13HP709

ID 35.85, OD 50.30, Thickness 4.70, Material Fiber


**231717** Stop Collar Kit

Replacing: 059453

Servicing: 182442, d11e120, d11e131, d11e142, d11e143, d11e153, d11e153t, d11e158, d11e159, d11e165, D11E167T, d11e170, d11e180

ID 14.00, OD 20.00, Height 6.10

Pkg. 5


**233164** Drain Tube

Servicing: HQ808670, MG122202, MG122433, mp112033, mp112040, mp112042, TM000A18601, TM000A23601

ID 7.70, OD 11.55, Length 9.90

Pkg. 5


**233656** Connector

Servicing: d13hp601, D13HP605, d13hp607

Pkg. 10


**233818** Washer

Servicing: d7e1, D7E18, D7E38, D7E4, D7E6, D7E7, D7E8, D7ES1, D7ES2, D7ES4, D7ES5, TS10E26

ID 8.20, OD 15.95, Thickness 0.80, Material Steel

Pkg. 10


**233819** Washer

Servicing: d7e1, D7E16, D7E19, D7E2, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30, D7E31, D7E32, D7E40, D7E41, D7E42, D7E47

ID 4.25, OD 13.65, Thickness 1.00, Material Steel

Pkg. 10


**234888** Gasket

Servicing: 191335, D7GS10, D7GS8, D7GS9, D7RS129, D7RS130, D7RS131, D7RS150, D7RS29, D7RS30, D7RS301, d7rs31, d7rs50, TS18E3

ID 29.80, OD 36.70, Thickness 2.40

Pkg. 10


**234987** Washer

ID 6.30, OD 15.50, Thickness 1.00, Material Metal

Pkg. 10


**235158** Gasket

Servicing: d7es1, D7ES2, D7ES4, d7es5, TS10E26

ID 17.60, Length 40.50, Thickness 0.50, Width 23.50 mm, Material Cardboard

Pkg. 10


**236094** Drain Tube

Servicing: m52100, TM000A07901

Pkg. 10


**236711** Washer

Servicing: 626002, D6RA105, D6RA114, D6RA115, D6RA137, D6RA138, D6RA187, D6RA188, D6RA293, D6RA37, D6RA42, d6ra43, D6RA431, D6RA57

ID 6.00, OD 12.00, Thickness 0.30

Pkg. 10


**236712** Washer

Servicing: 626002, D6RA114, D6RA137, D6RA138, D6RA187, D6RA188, D6RA22, D6RA293, D6RA42, D6RA43, D6RA431, D6RA52, D6RA571, d6ra59

ID 6.00, OD 12.00, Thickness 1.00

Pkg. 10


**236895** Gasket

 Servicing: d7es5, TS10E26  
 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. 100



**331638** Plug

Servicing: d7es5

OD 15.00, Thickness 2.00,

Material Rubber

Pkg. 10

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**332877** Bushing

Servicing: TS10E26

ID 8.07, OD 11.06, Length 9.50

**Drives**


**235780** Drive

Replacing: 0224052

ID 11.00, OD 25.20,

OD/ housing 46.25, Total length 64.00,

Splines A 6, No./ teeth 9,

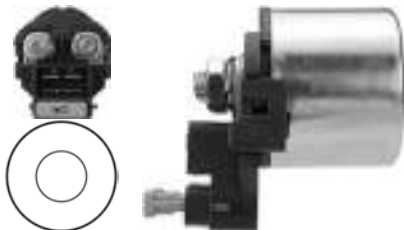
Drive type Steel, Rotation ACR

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### Solenoids

#### 12 Volt



**234860** Solenoid

Servicing: Honda MC  
12 V, OD 34.00, Total length 43.00,  
No./ terminals 6  
15 A fuse.

### Drives



**134722** Drive

Replacing: st212-3708600b, ct212-3708600  
ID 16.00, OD 36.10,  
OD/ housing 72.00, Total length 107.60,  
Splines A 4, No./ teeth 10



**134723** Drive

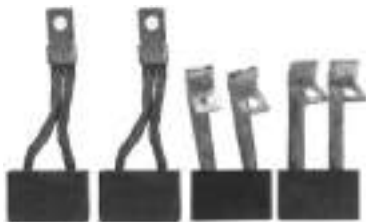
Replacing: ct352d-3708600-3, 3708600-3,  
24.3708600  
ID 16.00, OD 36.45,  
OD/ housing 65.50, Total length 107.50,  
Splines A 12, No./ teeth 10, Rotation CR

### Brush Sets



**140872** Brush Set

Replacing: 24.3708025  
12 V, Length 21.70, Lead length 74.00,  
Height 22.45, Thickness 17.50



**140873** Brush Set

Replacing: 20.3709125, 20.3709115,  
20.3708125, 20.3708115  
24 V, Length 20.38, Lead length 67.80,  
Lead length 2 42.50, Height 31.90,  
Thickness 11.81



**141083** Brush Set

Replacing: Renault, Peugeot, Citroen, Elec-  
tric power steering  
Length 21.15, Lead length 60.50,  
Height 12.25, Thickness 6.95



**MOSX5-68** Brush Set

Replacing: mosx5-68  
12 V, Length 22.60, Lead length 66.00,  
Height 15.95, Thickness 11.00

### Bushings



**140578#** Bushing

ID 35.15, OD 44.00, Length 39.55

Pkg. 10



**141206** Bushing

Replacing: Siemens  
ID 12.50, OD/ collar 18.00, OD 16.00,  
Length 20.00, Height/ collar 2.00

Pkg. 10



**141207** Bushing

Replacing: Siemens  
ID 19.22, OD 22.53, Length 11.00

Pkg. 10



**141208** Bushing

Replacing: Siemens  
ID 14.02, OD 18.04, Length 17.00

**Armatures**

**137091** Armature

Replacing: 2134014178

Servicing: 0136355072, 0136355074, 0136355077, 0136355078, B136364072, B136364076, B136364081

1.5 kW, Shaft length 174.50, Core thickness 73.00


**137093** Armature

Replacing: 2134014180, 2134014175, 2134014170

Servicing: 0136355050, 0136355057, 0136355058, 0136355059, 0136355060, 0136355061, 0136355064, 0136355067, 0136355068, 0136355070

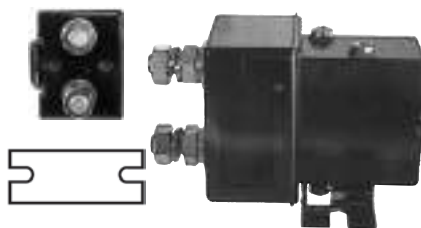
1.5 kW, Shaft length 205.00, Core thickness 73.00

**Solenoids**
**12 Volt**

**133695** Solenoid

Replacing: cey113, 099845

12 V, 100 Amp, Intermittent load 500 Amp., B+ M8, Kl. 15a M5, Kl. 50 M5, OD 47.70, OD/ cover 52.35, Coil bolt M8, Total length 105.55, Height/ B+ 18.85, Width/ kl. 15a 13.90, Width/ kl. 50 14.00, Coil bolt 2 19.35, Seconds 5, No./ terminals 4


**138684** Solenoid

Replacing: sw80-751pe, 3212

12 V, 100 Amp, B+ M8, Total length 94.00, Height/ B+ 19.00, Coil bolt M8, Coil bolt 2 19.80, No./ terminals 4 Silver contact.

**24 Volt**

**133697** Solenoid

Replacing: cez113, 098932

24 V, 100 Amp, Intermittent load 500 Amp., B+ M8, Kl. 15a M5, Kl. 50 M5, OD 47.65, OD/ cover 52.35, Total length 106.25, Height/ B+ 19.00, Width/ kl. 15a 13.85, Coil bolt M8, Coil bolt 2 19.00, Width/ kl. 50 14.30, Seconds 5, No./ terminals 4


**135308#** Solenoid

Replacing: em15-4124, 4124

24 V, Kl. 15a 6.30, Kl. 50 6.30, ID/ cover 8.60, OD 60.00, OD/ cover 53.45, Total length 80.50, Width/ kl. 15a 9.00, Width/ kl. 50 9.25, No./ terminals 2


**235817** Solenoid

24 V, 120 Amp, OD 92.00, Total length 134.00, No./ terminals 4

**Brush Gear Parts**

Pkg. 4


**132711** Brush Spring

Length 27.25

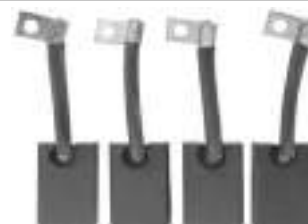
Pkg. 4


**132712** Brush Spring

 Length 28.80  
12/24 V. 3 kW.

**Brush Sets**

**140408** Brush Set

 12/24 V, Length 26.05, Lead length 37.50, Height 12.78, Thickness 8.92  
2 kW.

**140410** Brush Set

 12/24 V, Length 27.96, Lead length 47.50, Height 19.86, Thickness 8.90  
3 kW.



**140918** Brush Set

Replacing: 2137014038, 16.770.295

Servicing: 0136352005, 0136355049, 0136355050, 0136355057, 0136355058, 0136355059, 0136355060, 0136355061, 0136355064, 0136355065

24 V, Length 25.50, Lead length 32.00, Height 25.85, Thickness 8.90  
1.5/2.5 kW.



**141063** Brush Set

12/24 V, Length 17.00, Lead length 150.00, Lead length 2 150.00, Height 16.00, Thickness 9.10



**141068** Brush Set

24 V, Length 21.55, Lead length 36.00, Height 21.92, Thickness 5.95



**141100** Brush Set

Servicing: ACR

12 V, Length 17.00, Lead length 165.00, Lead length 2 152.00, Height 15.90, Thickness 8.95/9.10



**141193** Brush Set

24 V, Length 26.50, Lead length 55.00, Height 19.80, Thickness 9.95

**Bushings**

Pkg. 10



**141064** Bushing

ID 14.13, OD 18.05, Length 13.39

## Regulators

### 14 Volt



#### 233624 Regulator

Replacing: d646, 1119576, 1118999,  
1118997, 1118779, 1118381

Servicing: 10DN

14.2 V setting, 18 Amp,  
Dist./ mount. holes 97.85,  
Regulator type Mechanical,  
Terminal type L-B+-F(A)  
*Pos. or neg. ground. A-circuit.*



#### 233625 Regulator

Dist./ mount. holes 97.75,  
Regulator type Mechanical,  
Terminal type D+ - DF-B+

## Brush Sets



#### 130988 Brush Set

14 V, Length 25.00, Lead length 41.35,  
Height 14.00, Thickness 8.00



#### 141266 Brush Set

12 V, Length 26.00, Lead length 38.00,  
Height 13.50, Thickness 5.50

## Solenoids

### 6 Volt



#### 130503 Solenoid

6 V, 130 Amp, B+ M8, Kl. 50 M5, OD 43.00, Total length 63.35, Height/ B+ 19.00, Width/ kl. 50 11.95, Coil bolt M8, Coil bolt 2 19.00, No./ terminals 3  
Ground (bottom). Flat bearing bracket.

### 12 Volt



#### 130281 Solenoid

Replacing: 0331101003, 0331101001, 0331100014, 0331100005, 16.670.127, ie14aa, 63631425

Servicing: 0001400016, 0001401011, 0001401012, 0001401019, 0001401023, 0001401026, 0001401027, 0001401028, 0001401041, 0001401044

12 V, B+ Cable, OD 85.90, Total length 93.80



#### 130293 Solenoid

Replacing: 0331302033

Servicing: 0001208019, 0001208020, 0001208027, 0001208028, 0001208030, 0001208031, 0001208040, 0001208041, 0001211018, 0001211019

12 V, B+ M8, Kl. 15a 6.30, Kl. 50 M5-6.30, ID/ cover 20.75, OD 50.30, OD/ cover 50.25, Total length 144.60, Height/ B+ 12.00, Width/ kl. 15a 15.00, Width/ kl. 50 45.00, Coil bolt M8, Coil bolt 2 13.00, No./ terminals 4  
Cap: HC-CARGO 131334.

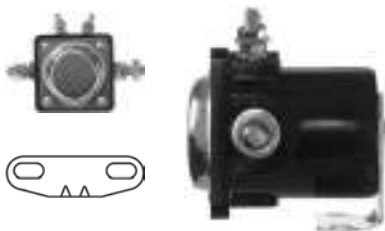


#### 130377 Solenoid

Replacing: 30430-1

Servicing: MTA12-P30, MTA12P-7, MTD12-14, MTS12-1, MTS12-21, MTS12-22, MTS12-23, MTS12-23S, MTS12-29, MTS12-39, MTS12-42

12 V, B+ M8, Kl. 50 6.30, OD 54.70, OD/ cover 64.35, Total length 148.85, Height/ B+ 22.40, Width/ kl. 50 22.80, Coil bolt M8, Coil bolt 2 22.40, No./ terminals 3  
Cap: HC-CARGO 131325.



#### 130493 Solenoid

Replacing: 3225629, 2098360, SW03, D9AZ11450A, D2DZ11450A, C7AF11450A, BD7T11450T, B6AZ11450A, SAS-4211Y, 15-407, f903

12 V, Intermittent load 150 Amp., B+ 5/16" UNF, Kl. 50 10-32 UNF, OD 42.30, Total length 62.30, Height/ B+ 15.00, Width/ kl. 50 10.50, Coil bolt 5/16" UNF, Coil bolt 2 15.00, No./ terminals 4

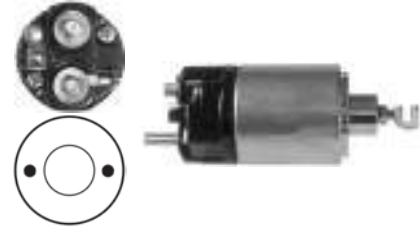


#### 130499 Solenoid

Replacing: d6tz11390a, 3205022, 3204049, 3202630, d992, d982, d981, d978, d975, d974, d969, d967, d966, d965, d960, d958, d956, d952, d948, d943

Servicing: 10MT, 20MT, 25MT, 27MT

12 V, B+ 3/8" UNC, Kl. 15a 8-32 UNC, Kl. 50 8-32 UNC, ID/ cover 31.35, OD 59.80, OD/ cover 65.10, Total length 122.15, Coil bolt 3/8" UNC, No./ terminals 4  
Cap: HC-CARGO 130497.



#### 130814 Solenoid

Replacing: 053400-3810, 053400-3720, 053400-3710, 053400-3410, 053400-3350, 053400-3330, 053400-2880, toj400

Servicing: 028000-0430, 028000-1370, 028000-1850, 028000-1975, 028000-1976, 028000-2001, 028000-2150, 028000-2151, 028000-2240

12 V, B+ M8, Kl. 50 6.30, OD 49.85, OD/ cover 49.80, Total length 137.60, Height/ B+ 18.35, Width/ kl. 50 10.65, Coil bolt M8, Coil bolt 2 8.60, No./ terminals 3  
Cap: HC-CARGO 134627.



#### 130848 Solenoid

Replacing: 8088006

Servicing: b76-0.5/12  
12 V



#### 130904 Solenoid

Replacing: 443930157911, 0157912

Servicing: 02914207, 11490400, 443115142062, 443115142063, 443115142071, 443115142110, 443115142112, 443115142162, 9142063

12 V, B+ M10, Kl. 15a 6.30, Kl. 50 6.30, ID/ cover 24.20, OD 54.70, OD/ cover 55.20, Total length 134.20, Height/ B+ 21.25, Width/ kl. 15a 9.85, Width/ kl. 50 10.25, Coil bolt M10, Coil bolt 2 22.75, No./ terminals 4  
Cap: HC-CARGO 133413.


**131006** Solenoid

Replacing: 2140509, 2140009, 683507, 683411, 683186, 683041, 682110, 682108, 682106, 682104, 681774, 680954, 680642, 680563

12 V, B+ M8, Kl. 15a M5, Kl. 50 6.30, OD 45.65, OD/ cover 48.45, Total length 116.65, Height/ B+ 12.90, Width/ kl. 15a 13.00, Width/ kl. 50 8.70, Coil bolt M8, Coil bolt 2 7.75, No./ terminals 4

Cap: HC-CARGO 133769.


**131009** Solenoid

Replacing: ne361, ne355

Servicing: 532026A, 6020E, 6020EF, 6020F, 6035F, 6081E, 6081F

12 V, B+ M8, Kl. 50 6.30, OD 46.00, OD/ cover 47.80, Total length 107.80, Height/ B+ 16.00, Width/ kl. 50 16.35, Coil bolt M8, Coil bolt 2 8.55, No./ terminals 3

Cap: HC-CARGO 131321.


**131010** Solenoid

Replacing: 708289, 701426, 701424, 682115, 682102, 681411, 618511, 618480, 618136, 618010, 606913, 606903

Servicing: 533003, 533004, 6045B, 6139BC, 6155HJKL, 6185A, 6185ABC, 6185B, 6185C, 6219A, 6219ABC, 6219B, 6219C, 6227A, 6227AB

12 V, B+ M8, Kl. 30h M5, Kl. 50 6.30, OD 45.80, OD/ cover 47.55, Total length 106.60, Height/ B+ 12.35, Width/ kl. 30h 13.00, Width/ kl. 50 8.95, No./ terminals 4

Cap: HC-CARGO 133769.


**131080** Solenoid

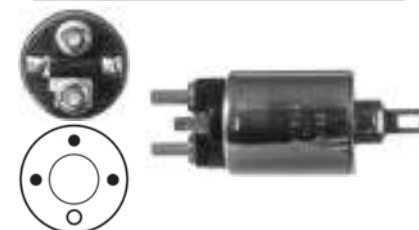
Replacing: 19024764

12 V, 50 Amp, Intermittent load 500 Amp., B+ M8, Kl. 50 6.30, OD 39.70, Total length 86.40, Height/ B+ 12.25, Width/ kl. 50 9.55, Coil bolt M8, Coil bolt 2 12.25, Seconds 5, No./ terminals 3


**131253** Solenoid

Replacing: 19024762

12 V, 60 Amp, Intermittent load 500 Amp., B+ M8, Kl. 50 6.30, OD 39.65, Total length 85.75, Height/ B+ 11.85, Width/ kl. 50 9.85, Coil bolt M8, Seconds 5, Coil bolt 2 11.85, No./ terminals 4

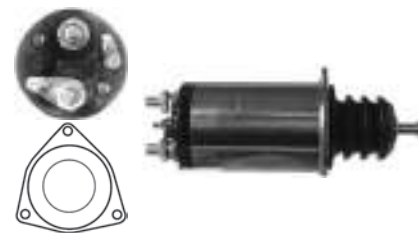

**131802** Solenoid

Replacing: md607933, m371x82373, m371x81871, m371x81371, m371x80571, m371x55072, m371x55071, m371x54871

Servicing: M001T50471, M002T10171, M002T10271, M002T20181, M002T20181A, M002T20182, M002T20281, M002T23181, M002T50581, M002T50981

12 V, B+ M8, Kl. 50 6.30, OD 51.30, OD/ cover 44.75, Total length 131.00, Height/ B+ 18.25, Width/ kl. 50 15.10, Coil bolt M8, Coil bolt 2 18.25, No./ terminals 3

Cap: HC-CARGO 133273.


**132495** Solenoid

Replacing: 0-47100-3031, 0-47100-3030, 0-47100-2690, 0-47100-2650

Servicing: 0-21000-3271, 0-21000-3480, 0-21000-3520, 0-21000-3650, 0-21000-3661, 0-21000-3690, 0-21000-3711, 0-21000-3783

12 V, B+ M10, Kl. 50 M5, OD 70.00, OD/ cover 69.45, Total length 215.70, Height/ B+ 28.50, Width/ kl. 50 18.75, Coil bolt M10, Coil bolt 2 28.00, No./ terminals 3

Cap: HC-CARGO 138897.


**132594** Solenoid

Replacing: 6211-39

Servicing: 1320015, 1320023, 1320027, 1320028, 1320029, 1320045, 1320075, 1320092, 1320142, 1320161, 1320183, 1320502, 1320510

12 V, OD 98.40, Total length 60.70


**132939** Solenoid

12 V, 80 Amp, Intermittent load 150 Amp., B+ M8, Kl. 15a M5, Kl. 50 M5, OD 41.85, Total length 64.50, Seconds 5, Height/ B+ 20.65, Width/ kl. 15a 11.35, Width/ kl. 50 11.35, Coil bolt M8, Coil bolt 2 20.65, No./ terminals 4  
*Insulated.*





**133076** Solenoid

Replacing: sm302-02, SM302-04, SM302-08, SM302-16, SM302-19, SM302-24, SM302-40, SM402-04N

12 V, B+ M8, Kl. 50 6.30, OD 50.65, OD/ cover 43.80, Total length 130.00, Height/ B+ 17.30, Coil bolt M8, Coil bolt 2 10.70, No./ terminals 3  
Cap: HC-CARGO 133782.



**133616** Solenoid

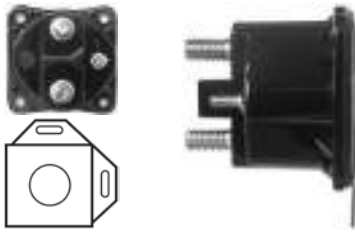
12 V, 80 Amp, Intermittent load 150 Amp., B+ M8, Kl. 15a M5, Kl. 50 M5, OD 41.85, Total length 89.65, Height/ B+ 18.00, Width/ kl. 15a 11.45, Width/ kl. 50 11.45, Coil bolt M8, Coil bolt 2 10.00, Seconds 5, No./ terminals 6  
Insulated return. Silver contact.



**133695** Solenoid

Replacing: cey113, 099845

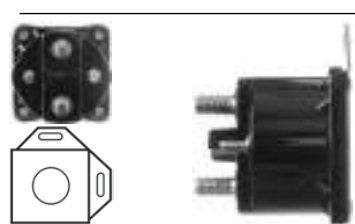
12 V, 100 Amp, Intermittent load 500 Amp., B+ M8, Kl. 15a M5, Kl. 50 M5, OD 47.70, OD/ cover 52.35, Total length 105.55, Height/ B+ 18.85, Width/ kl. 15a 13.90, Width/ kl. 50 14.00, Coil bolt M8, Seconds 5, Coil bolt 2 19.35, No./ terminals 4



**133855** Solenoid

Replacing: SAZ-4201X, SAZ-4201R, SAZ-4201ENY, SAZ-4201ELY, SAZ-4201E, SAZ-4201CJ, SAZ-4201CA, SAZ-4201BR

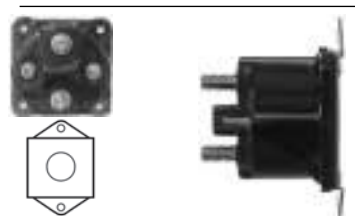
12 V, 100 Amp, Intermittent load 800 Amp., B+ M8, Kl. 50 M5, OD/ cover 48.95, Total length 54.30, Height/ B+ 14.25, Width/ kl. 50 9.70, Coil bolt M8, Coil bolt 2 14.10, No./ terminals 3  
3.95-4.15 coil resistance.



**133856** Solenoid

Replacing: sw1162, SAZ-4201N, SAZ-4201EW, SAZ-4201DDY, SAZ-4201CPY, SAZ-4201BW, SAZ-4201BU, SAZ-4201BBY, 15-486

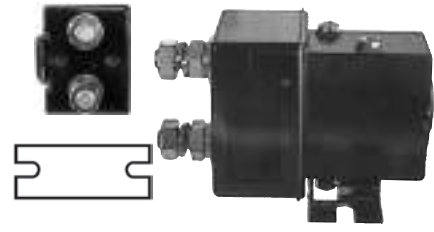
12 V, 100 Amp, Intermittent load 800 Amp., B+ M8, Kl. 15a M5, Kl. 50 M5, OD/ cover 49.25, Total length 54.75, Height/ B+ 14.20, Width/ kl. 15a 9.85, Width/ kl. 50 9.95, Coil bolt M8, Coil bolt 2 14.20, No./ terminals 4  
3.95-4.15 coil resistance.



**133857** Solenoid

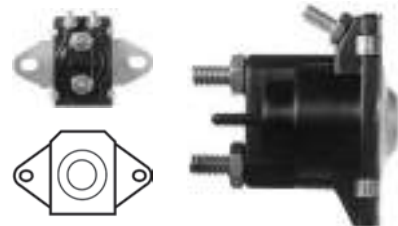
Replacing: SAZ-4201U, SAZ-4201EY, SAZ-4201BC, SAZ-4201AP, SAZ-4201AHY, 15-487, 15-400, 15-368, 15-351, 15-275

12 V, 100 Amp, Intermittent load 800 Amp., B+ M8, Kl. 15a M5, Kl. 50 M5, OD/ cover 54.75, Total length 55.50, Height/ B+ 14.45, Width/ kl. 15a 9.90, Width/ kl. 50 9.80, Coil bolt M8, Coil bolt 2 14.30, No./ terminals 4  
3.95-4.15 coil resistance.



**138684** Solenoid

12 V, 100 Amp, B+ M8, Total length 94.00, Height/ B+ 19.00, Coil bolt M8, Coil bolt 2 19.80, No./ terminals 4  
Silver contact.



**139856** Solenoid

12 V, B+ M8, Kl. 15a M4, Kl. 50 M4, OD 56.00, Total length 55.80, Height/ B+ 10.55, Width/ kl. 15a 9.20, Width/ kl. 50 9.75, Coil bolt M8, Coil bolt 2 10.40, No./ terminals 4



**139858** Solenoid

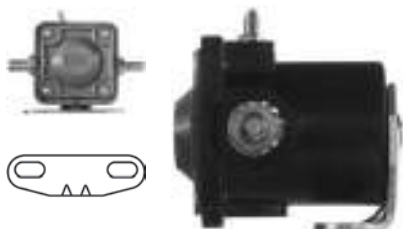
Replacing: 2095606, 1658883, SAZ4201J, 15-66, 15-5c, 15-288, 1114537, 1114206  
12 V, 100 Amp, Intermittent load 600 Amp., B+ M8, Kl. 15a M5, Kl. 50 M5, OD 41.90, Total length 63.45, Height/ B+ 18.75, Width/ kl. 15a 12.75, Width/ kl. 50 12.75, Coil bolt M8, Coil bolt 2 18.55, No./ terminals 4



**139859** Solenoid

12 V, B+ M8, Kl. 15a M5, Kl. 50 M5, OD 53.85, Total length 64.00, Height/ B+ 12.30, Width/ kl. 15a 8.25, Width/ kl. 50 8.50, Coil bolt M8, Coil bolt 2 12.15, No./ terminals 4

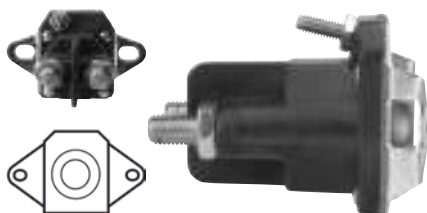



**139860** Solenoid

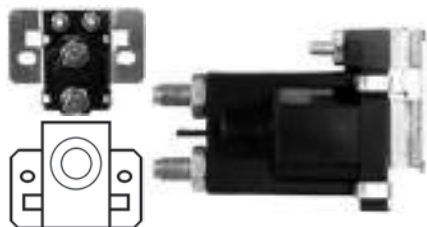
12 V, Kl. 50 M5, OD 54.00,  
Total length 64.20, Height/ B+ 13.25,  
Width/ kl. 50 8.55, Coil bolt 13.55,  
No./ terminals 3


**231525** Solenoid

12 V, 80 Amp, B+ 1/4"-20,  
Kl. 15a 10-24 UNC, Kl. 50 10-24 UNC,  
Total length 66.45, Height/ B+ 18.00,  
Coil bolt 1/4"-20, Coil bolt 2 18.00,  
No./ terminals 4  
*Insulated return.*


**231526** Solenoid

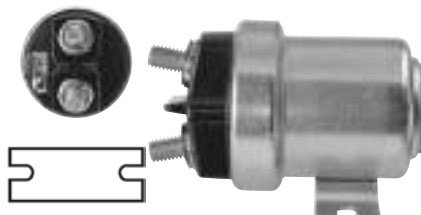
12 V, 80 Amp, B+ 5/16"-24, Kl. 50 M4,  
OD 55.85, Total length 55.15,  
Height/ B+ 9.50, Width/ kl. 50 10.20,  
Coil bolt 5/16"-24, Coil bolt 2 9.50,  
No./ terminals 3  
*Relay w/ 1/4" B+: HC-CARGO 234070.*


**231527** Solenoid

12 V, 80 Amp, B+ 5/16"-24, Kl. 15a M5,  
Kl. 50 M5, OD 54.20, Total length 77.65,  
Height/ B+ 11.55, Width/ kl. 15a 7.00,  
Width/ kl. 50 6.90, Coil bolt 5/16"-24,  
Coil bolt 2 11.45, No./ terminals 4


**231807** Solenoid

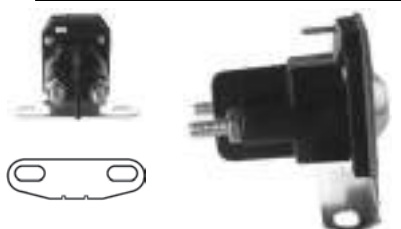
12 V, 200 Amp, Intermittent load 800 Amp.,  
B+ M8, Kl. 15a 6.30, Kl. 50 6.30,  
OD 45.00, OD/ cover 47.55,  
Total length 105.00, Height/ B+ 11.85,  
Width/ kl. 15a 11.30, Width/ kl. 50 11.75,  
Coil bolt M8, Coil bolt 2 11.90,  
Seconds 5, No./ terminals 4


**231809** Solenoid

12 V, 200 Amp, Intermittent load 800 Amp.,  
B+ M8, Kl. 50 6.30, OD 45.00,  
OD/ cover 47.30, Total length 104.65,  
Height/ B+ 11.20, Width/ kl. 50 11.60,  
Coil bolt M8, Coil bolt 2 11.50,  
Seconds 5, No./ terminals 3


**234070** Solenoid

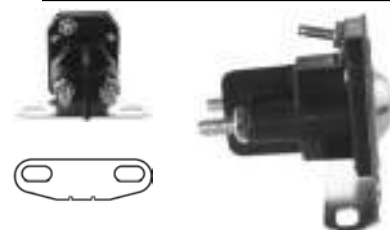
12 V, B+ 1/4"-20, Kl. 50 M5,  
Total length 66.40, Height/ B+ 17.00,  
Width/ kl. 50 15.95, Coil bolt 1/4"-20,  
Coil bolt 2 17.00, No./ terminals 3  
*Relay w/ 5/16" B+: HC-CARGO 231526.*


**234071** Solenoid

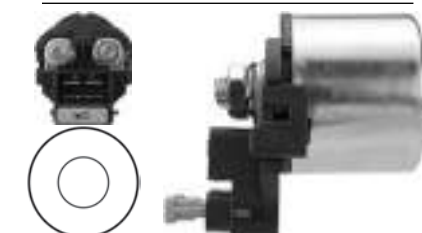
12 V, 80 Amp, B+ 5/16"-24,  
Kl. 50 6.30, Total length 64.25,  
Height/ B+ 16.70, Width/ kl. 50 11.15,  
Coil bolt 5/16"-24, Coil bolt 2 16.70,  
No./ terminals 3


**234072** Solenoid

12 V, 80 Amp, B+ 5/16"-24, Kl. 15a M5,  
Kl. 50 M5, Total length 66.50,  
Height/ B+ 16.90, Width/ kl. 15a 15.30,  
Width/ kl. 50 15.30, Coil bolt 5/16"-24,  
Coil bolt 2 16.90, No./ terminals 4  
*Insulated return.*


**234073** Solenoid

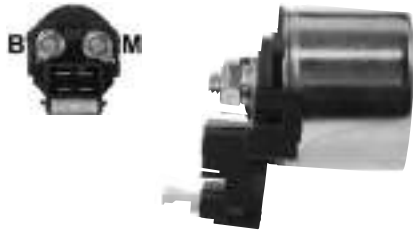
12 V, 80 Amp, B+ 1/4"-20,  
Kl. 15a 10-24 UNC, Kl. 50 M5,  
Total length 64.15, Height/ B+ 16.85,  
Width/ kl. 50 16.25, Coil bolt 1/4"-20,  
Coil bolt 2 16.85, No./ terminals 3


**234860** Solenoid

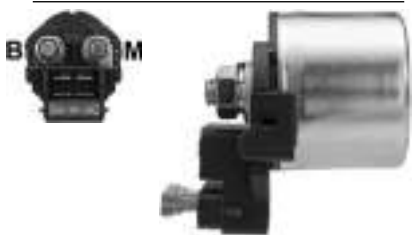
Replacing: ZM-101  
Servicing: Honda MC  
12 V, OD 34.00, Total length 43.00,  
No./ terminals 6  
15 A fuse.


**235442** Solenoid

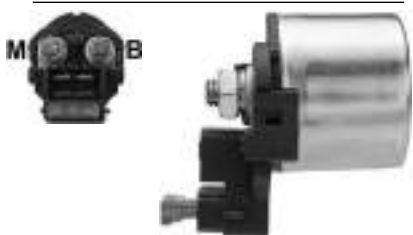
Replacing: 1114218, 1114208  
12 V, 150 Amp, Intermittent load 300 Amp.,  
B+ M8, OD 41.04, Total length 65.86,  
Height/ B+ 14.45, Seconds 5,  
No./ terminals 4  
*Silver contact. Insulated return.*



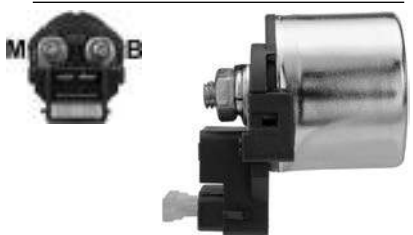
**235593** Solenoid  
 Replacing: ZM-102, 235593  
 12 V, B+ M6, Kl. 15a M6, Kl. 50 Plug,  
 OD 46.82, OD/ cover 46.82,  
 Total length 51.20, Height/ B+ 45.00,  
 Width/ kl. 15a 15.00, Width/ kl. 50 30.00  
 20 A fuses.



**235594** Solenoid  
 12 V, B+ M6, OD 34.00,  
 Total length 43.00, Coil bolt M6  
 30 A fuses.



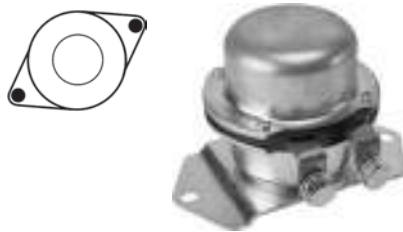
**235595** Solenoid  
 12 V, OD 34.00, Total length 43.00  
 15 A fuses.



**235596** Solenoid  
 12 V, B+ M6, OD 34.00,  
 Total length 43.00, Coil bolt M6  
 20 A fuses.



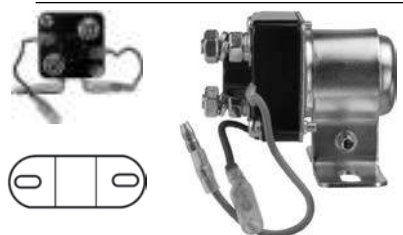
**333001** Solenoid  
 12 V, B+ Bolt, Kl. 50 M4, OD 52.20,  
 Total length 113.30, Height/ B+ M8x1.25,  
 Coil bolt 22.60, Coil bolt 2 16.60,  
 No./ terminals 3



**333003** Solenoid  
 12 V, B+ M8, OD 132.00,  
 Total length 86.00, No./ terminals 3



**333004** Solenoid  
 12 V, 150 Amp, Intermittent load 300 Amp.,  
 Total length 79.60, No./ terminals 6  
 Coil resistance 8.5 Ohms. N.C. contact:  
 60/60 A.



**333006** Solenoid  
 12 V, OD 80.00, Total length 65.00,  
 No./ terminals 4



**333009** Solenoid  
 12 V, 150 Amp, B+ M8, OD 52.20,  
 Total length 109.40, Height/ B+ 11.90,  
 Coil bolt M8, Coil bolt 2 11.90,  
 No./ terminals 4



**333010** Solenoid  
 12 V, OD 67.40, Total length 51.10,  
 No./ terminals 3



**333012** Solenoid  
 12 V, 150 Amp, Intermittent load 300 Amp.,  
 Total length 88.20, No./ terminals 5  
 Coil resistance 8.5 Ohms. N.C. contact:  
 60/60 A.



**333020** Solenoid  
 12 V, Total length 65.80,  
 No./ terminals 4



**333153** Solenoid  
 Manufacturer: Bosch  
 Replacing: 0333009004, 19024761  
 12 V, 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./ terminals 4  
 Silver contact. Insulated return.  
 Alternative no.: 131373, 131373Z


**333160** Solenoid

Manufacturer: Bosch

Replacing: 0333006004

12 V, 80 Amp, Intermittent load 500 Amp.,  
 B+ M8, Kl. 50 6.30, OD 52.10,  
 OD/ cover 45.20, Total length 101.75,  
 Height/ B+ 17.50, Width/ kl. 50 10.65,  
 Coil bolt M8, Coil bolt 2 17.50,  
 Seconds 5, No./ terminals 4  
 Water proof. Silver contact. Insulated return.  
 Alternative no.: 131370

**24 Volt**

**130492** Solenoid

Replacing: 19024765

24 V, 80 Amp, Intermittent load 500 Amp.,  
 B+ M8, Kl. 50 6.30, OD 40.00,  
 Total length 85.00, Height/ B+ 11.30,  
 Width/ kl. 50 10.50, Coil bolt M8,  
 Coil bolt 2 11.30, Seconds 5,  
 No./ terminals 3


**131254** Solenoid

Replacing: 19024763

24 V, 50 Amp, Intermittent load 500 Amp.,  
 B+ M8, Kl. 50 6.30, OD 39.70,  
 Total length 86.30, Height/ B+ 11.80,  
 Width/ kl. 50 9.80, Coil bolt M8,  
 Coil bolt 2 11.80, Seconds 5,  
 No./ terminals 4


**131371** Solenoid

Replacing: 0333006006, 19024759

Servicing: 0333006006

24 V, 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./ terminals 4  
 Silver contact. Insulated return.

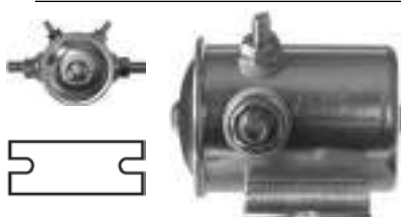
Alternative no.: 333156


**132140** Solenoid

 Replacing: 856121, 856025, 855528,  
 855248, 850686

Servicing: 850277, 850461, 850534, 850598,  
 850604, 850606, 850615, 850628, 850811,  
 850894, 851002, 851004A, 851124, 851339,  
 851360

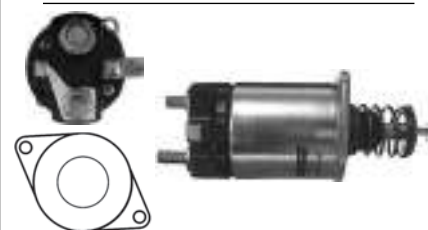
24 V, B+ M14-1.50, Kl. 15a M6,  
 Kl. 50 M6, OD 76.00, OD/ cover 76.35,  
 Total length 216.50, Height/ B+ 33.00,  
 Width/ kl. 15a 18.30,  
 Width/ kl. 50 17.75, Coil bolt M14-1.50,  
 Coil bolt 2 24.60, No./ terminals 4  
 Cap: HC-CARGO 132141. Moving contact: HC-  
 CARGO 132142. Insulated return.


**132940** Solenoid

24 V, 60 Amp, Intermittent load 100 Amp.,  
 B+ M8, Kl. 15a M5, Kl. 50 M5,  
 OD 42.00, Total length 66.35,  
 Height/ B+ 20.40, Width/ kl. 15a 12.50,  
 Width/ kl. 50 12.50, Coil bolt M8,  
 Coil bolt 2 20.40, Seconds 5,  
 No./ terminals 4  
 Insulated.


**133617** Solenoid

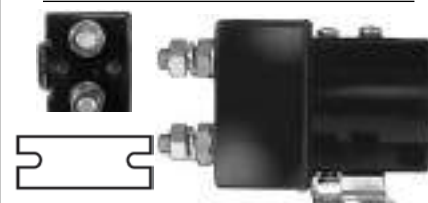
24 V, 50 Amp, Intermittent load 50 Amp.,  
 B+ M8, Kl. 15a M5, Kl. 50 M5, OD 41.70,  
 Total length 88.85, Height/ B+ 17.30,  
 Width/ kl. 15a 10.75, Width/ kl. 50 10.75,  
 Coil bolt M8, Coil bolt 2 17.30,  
 Seconds 5, No./ terminals 6  
 Insulated return.


**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, 0350-552-0334, 0350-  
 552-0338

24 V, B+ M10, Kl. 50 9.40, ID/ cover 21.80,  
 OD 65.20, OD/ cover 64.75,  
 Total length 195.45, Height/ B+ 25.10,  
 Width/ kl. 50 24.95, Coil bolt M10,  
 Coil bolt 2 17.55, No./ terminals 3  
 Cap: HC-CARGO 234554.


**138685** Solenoid

24 V, 100 Amp, B+ M8, Total length 93.80,  
 Height/ B+ 20.25, Coil bolt M8,  
 Coil bolt 2 20.10, No./ terminals 4  
 Silver contact.


**230964** Solenoid

24 V, 200 Amp, Intermittent load 800 Amp.,  
 B+ M8, Kl. 15a 6.30, Kl. 50 6.30, OD 44.90,  
 OD/ cover 47.45, Total length 115.50,  
 Height/ B+ 12.25, Width/ kl. 15a 12.65,  
 Width/ kl. 50 11.70, Coil bolt M8,  
 Coil bolt 2 12.00, Seconds 5, No./ terminals 4


**231808** Solenoid

24 V, 200 Amp, Intermittent load 800 Amp., B+ M8, Kl. 50 6.30, OD 45.15, Total length 114.90, Height/ B+ 11.20, Width/ kl. 50 11.75, Coil bolt M8, Coil bolt 2 11.20, Seconds 5, No./ terminals 4


**231810** Solenoid

24 V, 200 Amp, Intermittent load 800 Amp., B+ M8, Kl. 50 6.30, OD 44.90, OD/ cover 47.45, Total length 114.55, Height/ B+ 11.10, Width/ kl. 50 11.55, Coil bolt M8, Coil bolt 2 11.40, Seconds 5, No./ terminals 3


**235443** Solenoid

24 V, 100 Amp, Intermittent load 200 Amp., Seconds 5, No./ terminals 4  
*Silver contact. Insulated return.*


**333005** Solenoid

24 V, 75 Amp, Intermittent load 150 Amp., Total length 79.60, No./ terminals 6  
*Coil resistance 16 Ohms. N.C. contact: 60/60 A.*


**333007** Solenoid

24 V, OD 67.60, Total length 65.00, No./ terminals 4


**333008** Solenoid

24 V, 150 Amp, B+ M8, Kl. 50 6.30, OD 54.00, Total length 109.40, Height/ B+ 15.00, Width/ kl. 50 60.00, No./ terminals 4


**333011** Solenoid

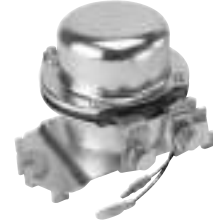
24 V, OD 67.40, Total length 51.10, No./ terminals 3


**333013** Solenoid

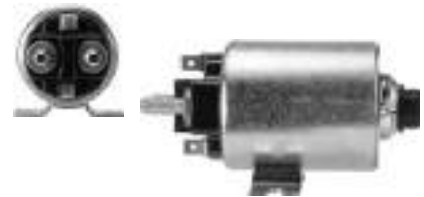
24 V, Intermittent load 1000 Amp., B+ M8, OD 90.00, Total length 133.00, No./ terminals 4


**333015** Solenoid

24 V, 50 Amp, Intermittent load 50 Amp., Total length 86.70, No./ terminals 5  
*Coil resistance 60 Ohms. N.C. contact: 30/30 A.*


**333016** Solenoid

24 V, 35 Amp, Intermittent load 1 Amp., Total length 94.00, Seconds 0.1, No./ terminals 4


**333017** Solenoid

24 V, 100 Amp, B+ M8, Kl. 15a 6.30, Kl. 50 6.30, OD 52.07, Total length 109.40, Height/ B+ 15.00, Width/ kl. 15a 30.00, No./ terminals 4


**333018** Solenoid

24 V, 100 Amp, Kl. 50 M4, Total length 87.00, Height/ B+ M8x1.25, Coil bolt M8x1.25, No./ terminals 3


**333152** Solenoid

Manufacturer: Bosch

Replacing: 0333009013, 0333009002, 19024760

24 V, 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./ terminals 4  
*Silver contact. Insulated return.*  
Alternative no.: 131372





**333156** 5★ Solenoid  
 Manufacturer: Bosch  
 Replacing: 0333006006  
 24 V, 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./ terminals 4  
 Silver contact. Insulated return.  
 Alternative no.: 131371



**333484** 5★ Solenoid  
 Manufacturer: Bosch  
 Replacing: 0333009005  
 24 V



**333531** 5★ Solenoid  
 Manufacturer: Bosch  
 Replacing: 0333009011  
 24 V, 150 Amp, B+ M8, Kl. 15a 6.30,  
 Kl. 50 6.30, OD 50.00, Total length 100.00,  
 Height/ B+ 15.00, Width/ kl. 15a 60.00,  
 Width/ kl. 50 30.00, No./ terminals 4

### 36 Volt



**235646** Solenoid  
 36 V, 50 Amp, Intermittent load 100 Amp.,  
 B+ M8, OD 41.80, Total length 66.80,  
 Seconds 5, No./ terminals 4  
 Insulated return.



**235647** Solenoid  
 36 V, 60 Amp, Intermittent load 150 Amp.,  
 Seconds 5, No./ terminals 4  
 Insulated return.

### Solenoid Parts

#### Fixed Contacts



**231467** Contact Plate  
 Replacing: 6510-68  
 Servicing: S114HD24-2  
 ID 39.85, OD 98.50, Thickness 3.55

#### Brush Sets



**140164** Brush  
 Servicing: Bosch, Webasto  
 10-100 V, Length 19.50, Lead length 35.50,  
 Height 9.93, Thickness 7.94

### Solenoid Shutdown

#### Externally Switched



**090109** Shutdown Solenoid  
 Replacing: 1502es12c3u1b2s1  
 12 V, 0.7 Amp/ hold, 30 Amp/ pull,  
 Thread size 6.00, Hold rating 89N,  
 Pull rating 40N at 25.40 mm, Return spring 9N,  
 Mount. type Flange/bracket, Thread type mm,  
 Elect. connection Plug, Function Pull,  
 Switch External, Plunger External  
 This solenoid can't switch off by itself, it  
 will have to be controlled externally.



**090110** Shutdown Solenoid  
 Replacing: 1502es24c3u1b2s2  
 24 V, 0.25 Amp/ hold, 17 Amp/ pull,  
 Thread size 6.00, Hold rating 89N,  
 Pull rating 40N at 25.40 mm,  
 Return spring 9N,  
 Mount. type Flange/bracket,  
 Thread type mm, Elect. connection Plug,  
 Function Pull, Switch External,  
 Plunger External  
 This solenoid can't switch off by itself, it  
 will have to be controlled externally.



**090111** Shutdown Solenoid  
 Replacing: SA-5174-12, 2001es12e3u1b2s2  
 12 V, 0.6 Amp/ hold, 44 Amp/ pull,  
 Thread size 1/4", Hold rating 178N,  
 Pull rating 75N at 25.40 mm,  
 Return spring 35N,  
 Mount. type Flange/  
 bracket, Thread type Inches,  
 Elect. connection Plug, Function Pull,  
 Switch External, Plunger External  
 This solenoid can't switch off by itself, it  
 will have to be controlled externally.



**090113** Shutdown Solenoid  
 Replacing: SA-5174-24, 2001es24e3u1b2s2  
 24 V, 0.3 Amp/ hold, 23 Amp/ pull,  
 Thread size 6.00, Hold rating 178N,  
 Pull rating 75N at 25.40 mm,  
 Return spring 35N,  
 Mount. type Flange/bracket,  
 Thread type mm, Elect. connection Plug,  
 Function Pull, Switch External,  
 Plunger External  
 This solenoid can't switch off by itself, it  
 will have to be controlled externally.



**090199** Shutdown Solenoid

Replacing: sa-4180-12  
 12 V, 1.1 Amp/ hold, 46 Amp/ pull,  
 Thread size 6.00, Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Return spring 17N,  
 Mount. type Flat w/ 2 fixing holes,  
 Thread type mm,  
 Elect. connection Cable,  
 Function Pull/Push, Switch External,  
 Plunger External  
*This solenoid can't switch off by itself, it  
 will have to be controlled externally.*



**090200** Shutdown Solenoid

Replacing: sa-4182-24  
 24 V, 4 Amp/ hold, 18 Amp/ pull,  
 Thread size 6.00, Hold rating 178N,  
 Pull rating 67N at 25.40 mm,  
 Return spring 17N, Thread type mm,  
 Elect. connection Cable,  
 Function Pull/Push, Switch External,  
 Plunger External  
*This solenoid can't switch off by itself, it  
 will have to be controlled externally.*



**090206** Shutdown Solenoid

Replacing: sa-4920-12, sa-4817-12, sa-4564-12  
 Servicing: Yanmar Diesel  
 12 V, 0.49 Amp/ hold, 36.5 Amp/ pull,  
 Thread size 0.158, Thread type Inches,  
 Switch External, Plunger Internal  
*This solenoid can't switch off by itself, it  
 will have to be controlled externally.*



**090216** Shutdown Solenoid

Replacing: sa-4569-t, SA-3776T,  
 1503es12a5uc5s  
 Servicing: Kubota  
 12 V, 0.7 Amp/ hold, 30 Amp/ pull,  
 Hold rating 85N, Pull rating 44N at 25.40 mm,  
 Return spring 17N, Mount. type Flange,  
 Elect. connection Multiplug,  
 Switch External, Plunger External  
*This solenoid can't switch off by itself, it  
 will have to be controlled externally.*



**090225** Shutdown Solenoid

Replacing: sa-4934-12  
 Servicing: Perkins  
 12 V, 0.49 Amp/ hold, 36.5 Amp/ pull,  
 Thread size 0.25, Thread type Inches,  
 Switch External, Plunger Internal  
*This solenoid can't switch off by itself, it  
 will have to be controlled externally.*



**090226** Shutdown Solenoid

Replacing: sa-4228  
 24 V, 24 V 2, 0.5 Amp/ hold, 25 Amp/ pull,  
 Thread size 6.00, Hold rating 182N,  
 Pull rating 111N at 25.40 mm,  
 Return spring 7N, Thread type mm,  
 Elect. connection Multiplug,  
 Function Pull, Switch External,  
 Plunger External  
*This solenoid can't switch off by itself, it  
 will have to be controlled externally.*



**090228** Shutdown Solenoid

Replacing: SA-4921, SA-4850, sa-4562t,  
 1503es12s5uc5s, 1503ES12S5SUC5S  
 Servicing: Yanmar Motors  
 12 V, 0.49 Amp/ hold, 36.5 Amp/ pull,  
 Thread size 0.158, Thread type Inches,  
 Switch External, Plunger Internal  
*This solenoid can't switch off by itself, it  
 will have to be controlled externally.*



**090281** Shutdown Solenoid

Replacing: sa-4527  
 Servicing: Volvo  
 24 V, 0.5 Amp/ hold, 25 Amp/ pull,  
 Thread size 6.00, Hold rating 236N,  
 Pull rating 89N at 25.40 mm,  
 Mount. type Bracket, Thread type mm,  
 Elect. connection Multiplug,  
 Function Pull/Push, Switch External,  
 Plunger External  
*This solenoid can't switch off by itself, it  
 will have to be controlled externally.*



**090348** Shutdown Solenoid

12 V, 1.1 Amp/ hold, 46 Amp/ pull,  
 Thread size 6.00, Hold rating 182N,  
 Pull rating 111N at 25.40 mm,  
 Return spring 4-8N,  
 Mount. type Flat w/ 2 fixing holes,  
 Thread type mm, Elect. connection Cable,  
 Function Pull, Switch External,  
 Plunger External  
*This solenoid can't switch off by itself, it  
 will have to be controlled externally.*


**090370** Shutdown Solenoid

Replacing: SA-4899-12

Servicing: Kubota D722, Z482

12 V, 1.1 Amp/ hold, 46 Amp/ pull,

Thread size 1/4 - 28 UNF-

2A, Hold rating 182N, Pull rating 111N,

Mount. type Flat w/ 2 fixing holes,

Elect. connection Cable, Switch External,

Plunger External

*This solenoid can't switch off by itself, it will have to be controlled externally.*

**090371** Shutdown Solenoid

Replacing: SA-4899-24

Servicing: Kubota D722, Z482

24 V, 0.5 Amp/ hold, 25 Amp/ pull,

Thread size 1/4 - 28 UNF-2A,

Hold rating 182N, Pull rating 111N,

Elect. connection Cable, Switch External,

Plunger External

*This solenoid can't switch off by itself, it will have to be controlled externally.*

**090373** Shutdown Solenoid

Replacing: SA-4561T, 1503ES12A5UC9S

12 V, 0.972 Amp/ hold, 365 Amp/ pull,

Thread size 0.154, Thread type Inches,

Switch External, Plunger External

*This solenoid can't switch off by itself, it will have to be controlled externally.*

**090431** Shutdown Solenoid

Replacing: 2300-1505

24 V, 24 V 2, 0.57 Amp/ hold, 30 Amp/ pull,

Thread size 5/16", Hold rating 391N,

Pull rating 165N, Return spring 80-115N,

Mount. type Flange/bracket,

Thread type Inches, Function Pull,

Switch External, Plunger External,

Insulated return

*This solenoid can't switch off by itself, it will have to be controlled externally.*
**Internally Switched**

**090160** Shutdown Solenoid

Replacing: SA-5171, 150212c3u1b1s1a

12 V, 0.7 Amp/ hold, 30 Amp/ pull,

Thread size 6.00, Hold rating 89N,

Pull rating 40N at 25.40 mm,

Return spring 17N, Thread type mm,

Mount. type Flange/bracket,

Elect. connection Plug, Switch Internal,

Plunger External

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

**090161** Shutdown Solenoid

Replacing: 150224c3u1b1s2a

24 V, 0.25 Amp/ hold, 17 Amp/ pull,

Thread size 6.00, Hold rating 89N,

Pull rating 40N at 25.40 mm,

Return spring 17N, Thread type mm,

Mount. type Flange/bracket,

Elect. connection Plug, Function Pull,

Switch Internal, Plunger Internal

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

**090168** Shutdown Solenoid

Replacing: 200112e3u1b2s2

12 V, 0.6 Amp/ hold, 44 Amp/ pull,

Thread size 6.00, Hold rating 178N,

Pull rating 75N at 25.40 mm,

Return spring 35N, Thread type mm,

Mount. type Flange/bracket,

Elect. connection Plug, Switch Internal,

Plunger External

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

**090169** Shutdown Solenoid

Replacing: 200124e3u1b2s2

24 V, 0.3 Amp/ hold, 23 Amp/ pull,

Thread size 6.00, Hold rating 178N,

Pull rating 75N at 25.40 mm,

Return spring 35N, Thread type mm,

Mount. type Flange/bracket,

Elect. connection Plug, Function Pull,

Switch Internal, Plunger External,

Aux terminal Yes

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

**090210** Shutdown Solenoid

Replacing: 1751-12A3U1B1S1A

12 V, 1.1 Amp/ hold, 46 Amp/ pull,

Thread size 1/4"-28 stud.,

Hold rating 178N, Pull rating 89N at 25.40 mm,

Return spring 9N, Thread type Inches,

Mount. type Flange/bracket,

Elect. connection Plug, Function Pull,

Switch Internal, Plunger Internal,

Aux terminal Yes

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*


**090224** Shutdown Solenoid

Replacing: sa3405t, 150212c7u2b2s7  
 12 V, 0.25 Amp/ hold, 17 Amp/ pull,  
 Thread size 6.00, Hold rating 89N,  
 Pull rating 40N at 25.40 mm,  
 Return spring 17N, Thread type mm,  
 Switch Internal, Plunger Internal  
*This solenoid can switch off the pull coil,  
 and no external 'control' is necessary.*


**090268** Shutdown Solenoid

Replacing: SA-5157, SA-5019, SA-4668-S,  
 1503ES-12A5UC9SCG28, 1503ES-12A5UC9SCC28  
 Servicing: Kubota 5 series  
 12 V, 0.49 Amp/ hold, 36.5 Amp/ pull,  
 Thread size 0.155, Thread type Inches,  
 Switch Internal, Plunger Internal  
*This solenoid can switch off the pull coil,  
 and no external 'control' is necessary.*


**090297** Shutdown Solenoid

Replacing: 175124A2U1BS1A, 1751 24A2U1BS1A  
 24 V, 1.1 Amp/ hold, 46 Amp/ pull,  
 Thread size 6.00, Hold rating 169N,  
 Pull rating 107N at 25.40 mm,  
 Return spring 7-11N, Thread type mm,  
 Switch Internal, Plunger External,  
 Aux terminal No  
*This solenoid can switch off the pull coil,  
 and no external 'control' is necessary.*


**090317** Shutdown Solenoid

24 V, 0.3 Amp/ hold, 20 Amp/ pull,  
 Hold rating 245N, Return spring 45N,  
 Pull rating 98N at 32.00 mm, Switch Internal,  
 Plunger Internal, Coil commander w/  
*This solenoid can switch off the pull coil,  
 and no external 'control' is necessary.*


**090318** Shutdown Solenoid

12 V, 0.65 Amp/ hold, 37 Amp/ pull,  
 Hold rating 245N, Return spring 45N,  
 Pull rating 98N at 32.00 mm,  
 Switch Internal, Plunger Internal  
*This solenoid can switch off the pull coil,  
 and no external 'control' is necessary.*


**090334** Shutdown Solenoid

Replacing: SA-3991-12  
 Servicing: Sisu Diesel 8366 40253  
 12 V, 1.1 Amp/ hold, 46.5 Amp/ pull,  
 Hold rating 178N, Pull rating 89N, Switch  
 Internal, Plunger Internal  
*This solenoid can switch off the pull coil,  
 and no external 'control' is necessary.*


**090402** Shutdown Solenoid

Replacing: SA-4567T, 1503ES24A5UC5S  
 Servicing: Kubota super 5 series  
 24 V, 0.59 Amp/ hold, 19.6 Amp/ pull,  
 Thread size 0.154, Thread type Inches,  
 Switch Internal, Plunger Internal  
*This solenoid can switch off the pull coil,  
 and no external 'control' is necessary.*

## Kits

## Externally Switched


**090095** Solenoid Shutdown Kit

Replacing: sa-3742-12  
 12 V, 1.1 Amp/ hold, 46 Amp/ pull,  
 Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Mount. type Flange/bracket,  
 Mount. side Left,  
 Elect. connection Cable, Function Pull,  
 Switch External  
*This solenoid can't switch off by itself, it  
 will have to be controlled externally.*


**090096** Solenoid Shutdown Kit

Replacing: sa-3799-12  
 12 V, 1.1 Amp/ hold, 46 Amp/ pull,  
 Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Mount. type Flange/bracket,  
 Mount. side Right,  
 Elect. connection Cable, Function Pull,  
 Switch External  
*This solenoid can't switch off by itself, it  
 will have to be controlled externally.*


**090099** Solenoid Shutdown Kit

Replacing: sa-3742-24  
 24 V, 0.5 Amp/ hold, 25 Amp/ pull,  
 Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Mount. type Flange/bracket,  
 Mount. side Left,  
 Elect. connection Cable, Function Pull,  
 Switch External  
*This solenoid can't switch off by itself, it  
 will have to be controlled externally.*




**090100** Solenoid Shutdown Kit

Replacing: sa-3799-24

24 V, 0.5 Amp/ hold, 25 Amp/ pull,  
 Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Mount. type Flange/bracket,  
 Mount. side Right,  
 Elect. connection Cable, Function Pull,  
 Switch External

*This solenoid can't switch off by itself, it will have to be controlled externally.*


**090103** Solenoid Shutdown Kit

Replacing: sa-4014-12

Servicing: Nippondenso, Zexel

12 V, 1.1 Amp/ hold, 55 Amp/ pull,  
 Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Mount. type Flange/bracket,  
 Mount. side Left,

Elect. connection Cable, Function Pull,  
 Switch External

*This solenoid can't switch off by itself, it will have to be controlled externally.*


**090104** Solenoid Shutdown Kit

Replacing: sa-3999-12

Servicing: Nippondenso, Zexel

12 V, 1.1 Amp/ hold, 55 Amp/ pull,  
 Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Mount. side Right,

Elect. connection Cable, Function Pull,  
 Switch External

*This solenoid can't switch off by itself, it will have to be controlled externally.*


**090105** Solenoid Shutdown Kit

Replacing: sa-4014-24

Servicing: Nippondenso, Zexel

24 V, 0.63 Amp/ hold, 29 Amp/ pull,  
 Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Mount. side Left,

Elect. connection Cable, Function Pull,  
 Switch External

*This solenoid can't switch off by itself, it will have to be controlled externally.*


**090106** Solenoid Shutdown Kit

Replacing: sa-3999-24

Servicing: Nippondenso, Zexel

24 V, 0.63 Amp/ hold, 29 Amp/ pull,  
 Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Mount. side Right,

Elect. connection Cable, Function Pull,  
 Switch External

*This solenoid can't switch off by itself, it will have to be controlled externally.*


**090107** Solenoid Shutdown Kit

Replacing: sa-4026-12

12 V, 1.1 Amp/ hold, 55 Amp/ pull,  
 Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Mount. side Left,

Elect. connection Multiplug,  
 Switch External

*This solenoid can't switch off by itself, it will have to be controlled externally.*


**090108** Solenoid Shutdown Kit

Replacing: sa-4026-24

24 V, 0.63 Amp/ hold, 29 Amp/ pull,  
 Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Mount. side Left,

Elect. connection Multiplug,  
 Function Pull, Switch External

*This solenoid can't switch off by itself, it will have to be controlled externally.*

**Internally Switched**

**090097** Solenoid Shutdown Kit

Replacing: sa-3765-12

12 V, 1.1 Amp/ hold, 46 Amp/ pull,  
 Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Mount. type Flange/bracket,

Mount. side Left, Elect. connection Plug,  
 Function Pull, Switch Internal

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*


**090098** Solenoid Shutdown Kit

Replacing: sa-3800-12

12 V, 1.1 Amp/ hold, 46 Amp/ pull,  
 Hold rating 178N,  
 Pull rating 89N at 25.40 mm,  
 Mount. side Right, Elect. connection Plug,

Function Pull, Switch Internal

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*



**090101** Solenoid Shutdown Kit  
 Replacing: sa-3765-24  
 24 V, 0.5 Amp/ hold, 25 Amp/ pull,  
 Hold rating 178N, Pull rating 89N at 25.40 mm,  
 Mount. side Left, Elect. connection Plug,  
 Function Pull, Switch Internal  
*This solenoid can switch off the pull coil,  
 and no external 'control' is necessary.*



**090102** Solenoid Shutdown Kit  
 Replacing: sa-3800-24  
 24 V, 0.5 Amp/ hold, 25 Amp/ pull,  
 Hold rating 178N, Pull rating 89N at 25.40 mm,  
 Elect. connection Plug, Function Pull,  
 Switch Internal  
*This solenoid can switch off the pull coil,  
 and no external 'control' is necessary.*

**Pull Coil Timers**



**090115** Pull Coil Timer  
 12 V, No./ wires 3



**090116** Pull Coil Timer  
 24 V, No./ wires 3



**090116** Pull Coil Timer  
 Replacing: SA-4092-24  
 24 V, No./ wires 3

**Sundry Parts**

**Various**



**133370** Terminal Lead  
 Servicing: M8  
 ID 8.45, Lead length 107.55



**133371** Terminal Lead  
 Servicing: M8  
 ID 8.45, Lead length 106.45



**133372** Terminal Lead  
 ID 8.45, Lead length 106.75  
 M8.



**133390** Terminal Lead  
 Servicing: M8  
 ID 8.50, Lead length 60.00



**133505** Terminal Lead  
 ID 8.40, Lead length 39.50  
 M8.



**133506** Terminal Lead  
 ID 8.50, Lead length 52.65  
 M8.



**134064** Terminal Lead  
 ID 8.40, Lead length 53.00  
 M8.



**134921** Terminal Lead  
 ID 10.35, Lead length 68.20  
 M10.



**135203** Terminal  
 Servicing: M8



**136766** Terminal Lead  
 ID 8.45, Lead length 67.25  
 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. 10

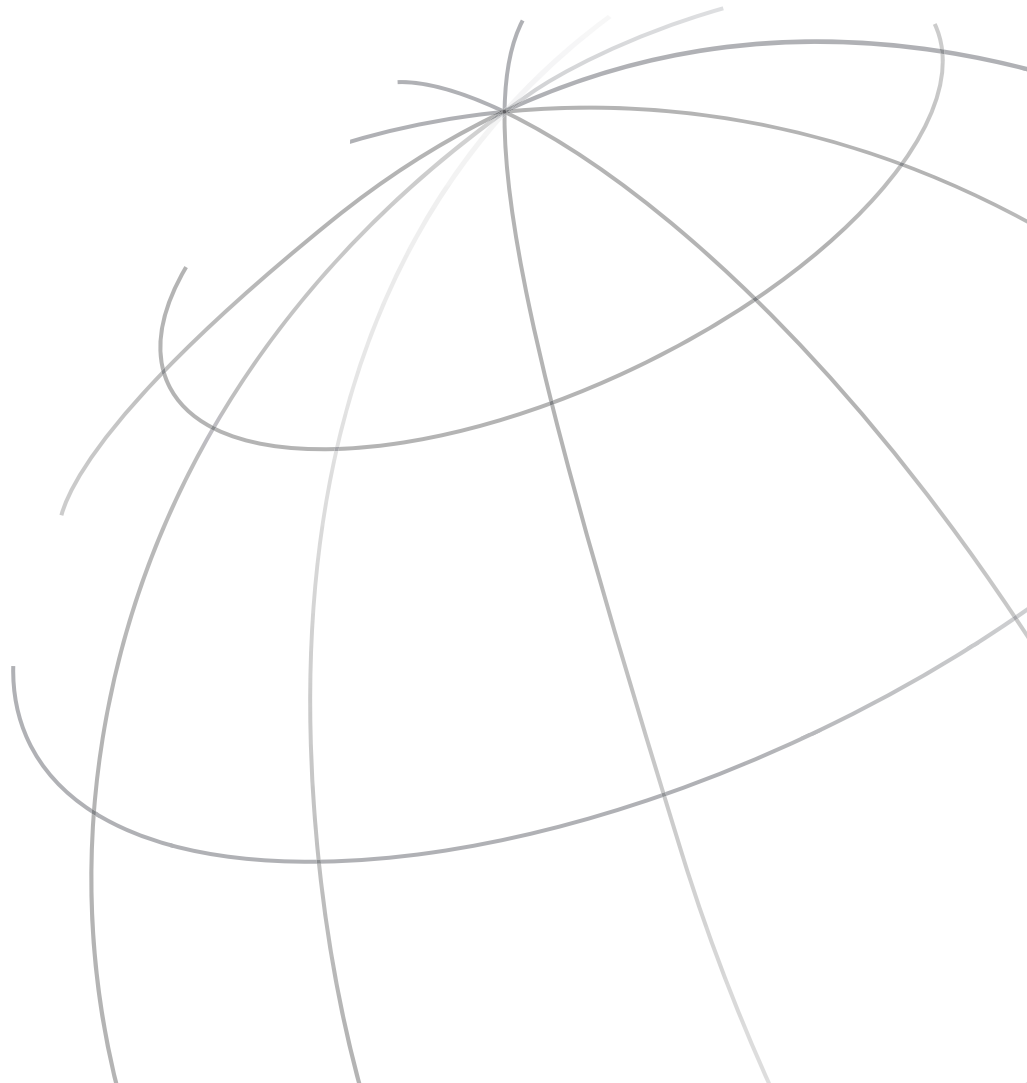
**230793** Terminal LeadID 8.50, Lead length 106.80  
MB.





# Survey Bushing

Edition 2015/2016



**Bushings**



ID	OD	Length	HC-CARGO
4.00	7.00	7.40	140952
5.02	7.97	7.15	142015
5.20	9.00	9.00	141117
6.00	8.79	11.65	142044
6.00	10.20	8.20	140615
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
6.10	8.75	10.65	140939
6.10	10.00	7.45	140787
6.10	10.00	9.95	141046
6.15	10.00	6.85	141132
6.16	10.00	8.91	140993
6.84	11.00	8.00	140994
7.00	11.95	8.50	142014
7.02	9.50	9.25	141249
7.02	10.00	6.10	140734
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	11.90	9.10	140941
8.10	12.00	6.80	141047
8.10	12.00	8.75	140653
8.12	11.55	9.00	141091
8.12	12.12	11.44	140970
8.12	12.45	10.00	140987
8.15	10.90	11.25	141148
8.15	11.00	8.25	141134
8.15	11.50	11.25	141145
8.15	13.00	8.34	140648
8.50	11.70	10.00	141227
8.60	11.00	10.95	134772
9.00	11.00	15.10	251409#
9.05	13.00	8.50	142022
9.20	13.05	13.35	141133
9.35	11.98	12.46	237666
9.60	12.70	9.62	141217
9.60	14.30	9.45	141050
9.87	14.03	12.00	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	10.00	140842

ID	OD	Length	HC-CARGO
10.00	14.00	12.00	140319
10.00	14.00	13.50	140156
10.00	14.00-15.00	25.00	080162
10.00	14.05	9.35	141122
10.00	19.05	12.25	141215
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
10.07	16.55	14.60	140563
10.08	14.02	13.50	140050
10.08	14.02	15.00	140047
10.08	14.09	13.00	140014
10.10	12.95	10.45	140731
10.10	12.98	12.00	332635
10.10	14.00	12.00	141146
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
10.18	14.06	12.30	141025
10.75	12.35	21.00	140998
10.81	12.66	21.00	141027
10.95	13.06	13.10	141220
10.97	13.62	19.90	140937
11.00	13.00	12.60	141150
11.00	13.00	12.60	141149#
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
11.01	12.10	15.30	141221
11.02	14.00	13.00	140428
11.03	13.23	12.70	141153
11.03	13.54	9.00	140929
11.03	13.55	20.00	140997#
11.05	14.72	11.00	140427
11.05	14.72	8.00	140426
11.06	13.03	13.00	140320
11.07	14.05	8.50	141165
11.07	15.08	15.00	140314
11.10	12.60	11.50	140028
11.10	12.60	11.50	140853
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
11.17	15.86	12.70	140660
11.18	15.85	18.85	140666
11.20	15.85	12.35	140103
11.52	15.08	13.00	140315
11.53	13.50	23.00	140690
11.55	15.10	14.00	140309
11.60	13.40	12.30	140627

ID	OD	Length	HC-CARGO	ID	OD	Length	HC-CARGO
11.60	14.08	13.00	140435	12.50	16.00	20.00	141206
11.75	13.40	11.00	140622	12.51	18.24	12.68	141051
11.90	13.00	18.20	141271	12.52	16.00	15.00	140310
11.95	13.15	18.40	141123	12.53	14.02	10.50	140583
11.97	15.24	19.05	140187	12.53	15.10	9.80	140694
11.99	15.11	18.67	140186	12.53	15.50	10.50	140333
12.00	13.17	12.75	140183	12.53	16.05	12.00	140311
12.00	13.20	16.15	140621	12.54	14.72	14.00	140326
12.00	14.00	11.90	140858	12.54	16.53	14.00	140143#
12.00	15.00	11.90	142041	12.54	16.55	10.50	140328
12.00	15.00	12.00	140040	12.54	16.55	14.00	140325
12.00	15.06	16.00	140501	12.55	14.00	19.00	141136
12.00	15.10	10.50	140192	12.55	16.50	10.60	140423
12.00	15.40	10.00	142027	12.55	16.52	7.85	140984
12.00	16.00	10.05	141075	12.55	19.04	13.45	141077
12.00	16.00	13.90	140048	12.55	19.05	11.90	141078
12.00	16.00	16.90	140046	12.56	16.55	14.00	140012
12.00	16.00	19.40	140374	12.56	16.60	6.00	332820
12.00	16.30	22.50	140307	12.57	16.55	15.80	140016
12.01	13.11	15.60	140467	12.57	16.60	10.00	140856
12.02	16.00	10.96	141252	12.58	16.03	11.90	141135
12.02	16.00	9.50	140429	12.59	16.55	18.00	140010
12.03	13.50	18.79	140625	12.60	15.50	12.80	140579
12.03	14.00	20.85	140729	12.60	16.56	11.50	140003
12.03	16.02	17.00	140269	12.60	18.55	19.70	140200
12.04	15.13	10.20	140844	12.62	14.00	19.30	140584
12.04	16.00	16.00	140436	12.63	14.10	10.50	140645
12.05	13.18	20.40	140189	12.70	14.40	12.80	140582
12.05	14.13	15.90	140730	12.70	15.80	11.40	141216
12.05	15.07	13.50	140041	12.73	15.94	20.62	140217
12.05	15.10	7.80	140665	12.74	15.85	19.00	140052
12.06	15.04	10.00	140496	12.75	14.30	19.85	140185
12.06	15.56	5.50	140870	12.75	19.14	14.00	140656
12.07	15.05	14.05	140662	12.76	15.84	12.70	140054
12.07	15.05	20.00	140064	12.76	15.91	16.50	140144
12.07	15.07	12.01	140533	12.77	14.36	17.40	140207
12.07	16.02	11.30	140270	12.78	15.95	19.00	141157
12.08	14.09	13.90	140018	12.80	15.95	14.00	140657
12.08	15.07	16.90	140057	12.83	14.90	21.50	140586
12.08	15.55	5.50	332864	12.90	14.44	17.79	140629
12.09	14.03	22.90	142009	13.00	15.15	12.40	141124
12.09	15.08	19.00	140689	13.00	16.00	15.90	141127
12.09	16.00	12.00	140268	13.03	16.00	16.00	140519
12.09	16.11	14.00	140017	13.04	15.04	12.00	140157
12.10	13.50	11.50	140857	13.04	15.05	14.50	140042
12.10	13.57	11.50	140854	13.04	15.05	21.00	141243
12.10	13.60	13.50	140029	13.20	19.10	11.90	141226
12.10	15.05	15.00	140043	13.25	16.85	16.20	232518#
12.10	16.03	5.50	141198	13.40	13.60	22.20	140623
12.10	16.12	16.00	140009	13.80	19.20	20.15	140308
12.11	14.08	14.00	140036	13.95	16.05	15.90	141128
12.11	14.10	12.00	140500	13.98	18.00	16.30	140464
12.11	16.01	24.00	140049	14.00	16.20	21.20	140329
12.12	14.00	21.00	141095	14.00	17.00	15.00	140485
12.12	15.04	13.90	141031	14.00	17.00	16.00	140906
12.13	13.62	11.50	140030	14.00	18.00	17.00	140313
12.13	13.62	20.00	140782	14.00	18.00	20.00	140316
12.16	13.20	12.65	140262	14.00	18.05	6.40	142028
12.16	13.84	20.00	141056	14.02	15.60	16.00	140775
12.20	15.15	8.40	141115	14.02	18.04	17.00	141208
12.23	14.36	15.70	140322	14.03	17.00	16.20	140601
12.40	16.55	10.40	141237	14.03	17.50	19.00	140521
12.47	15.85	18.00	140996	14.04	20.02	10.00	140006

**STARTER PARTS**



ID	OD	Length	HC-CARGO	ID	OD	Length	HC-CARGO
14.05	17.48	19.00	140487#	15.96	19.11	11.90	140188
14.05	18.03	16.00	140684	15.97	19.12	19.00	140053
14.05	18.05	15.00	140667	16.00	19.15	15.00	140066
14.06	17.06	19.70	140058	16.00	20.00	10.00	140119
14.06	18.03	14.00	140019	16.00	20.00	8.00	140440
14.07	18.05	20.15	140065	16.00	22.30	17.05	141028
14.08	17.58	15.00	140004	16.02	18.50	7.00	140736#
14.08	20.03	17.00	140203	16.05	20.04	24.90	140670
14.10	20.05	10.00	140855	16.05	21.10	16.90	140489
14.13	18.05	13.39	141064	16.09	18.00	22.00	140221
14.16	18.10	11.15	140999	16.09	20.07	11.00	140805
14.16	20.06	12.00	140202	16.12	22.00	19.00	140109
14.20	16.04	10.60	140908	16.25	22.02	29.00	140110
14.20	16.20	15.70	140323	16.27	19.15	15.00	140264
14.20	16.30	19.80	140330	16.35	18.20	19.95	251413#
14.23	16.85	10.00	141204	16.50	20.00	8.00	141013
14.25	17.25	9.15	141151	16.52	19.10	20.00	141235
14.27	17.26	12.45	140321	16.67	19.60	19.00	140140
14.30	15.91	16.49	140181	16.67	19.60	19.00	140172
14.30	16.00	11.50	140033	17.00	19.00	19.70	140777
14.30	16.00	13.70	140031	17.00	20.00	8.00	140505
14.30	16.02	17.00	140862	17.03	18.75	25.00	141016
14.30	16.05	9.95	141161	17.05	21.05	20.00	140068
14.30	17.49	17.97	141201	17.07	21.05	22.00	140658
14.30	17.53	19.00	140215	17.08	21.05	24.00	140680
14.30	19.10	12.50	142084	17.10	19.05	19.96	140835
14.31	19.11	19.20	140071	17.10	20.10/25.30	13.50	141228
14.32	17.62	22.20	140688	17.10	22.20	16.20	141131
14.33	18.05	18.00	140977	17.30	18.85	24.90	141072#
14.34	16.04	20.39	140867	17.50	20.10	7.60	140306
14.35	17.26	12.50	141076	17.50	22.30	28.45	140478
14.36	16.02	10.00	140035	17.53	20.65	17.81	140194
14.36	16.02	23.50	140866	17.60	20.90	7.40	142057
14.38	15.90	17.20	140184	17.60	21.60	9.40	140027
14.39	16.00	18.00	140261	17.93	22.10	7.05	141099
14.40	15.10	25.90	140626	18.00	20.08	25.95	142061
14.41	19.19	24.59	140070	18.00	21.00	8.90	142011
14.43	17.31	13.20	141222	18.00	22.10	8.00	140251
14.44	16.00	15.20	140865	18.01	22.24	5.93	140928
14.50	16.05	25.75	140628	18.02	22.04	5.93	140711
14.50	18.00	15.00	140757	18.03	22.10	6.00	140252
14.52	18.00	17.00	140756	18.03	22.10	7.00	141096
15.00	18.50	11.20	140792	18.03	23.00	9.20	141017
15.00	20.00	19.85	140527	18.05	22.04	5.00	140498
15.03	19.02	19.90	140517	18.05	24.05	19.25	141140
15.03	20.00	16.00	140318	18.06	20.98	8.97	142067
15.07	18.20	14.00	140948#	18.06	20.98	8.97	142083
15.10	22.04	12.70	140005	18.08	22.06	4.95	141160
15.11	18.20	22.20	140062	18.08	23.05	9.30	141197
15.18	18.12	11.90	140614	18.12	22.04	6.79	140927
15.20	17.15	14.00	134894	18.12	22.10	7.10	140869
15.45	17.00	9.85	140624	18.13	24.02	28.00	140211
15.70	19.10	7.00	140950	18.16	23.05	7.43	140654
15.75	19.50	10.00	140962	18.25	22.05	6.70	141139
15.77	17.02	9.81	140964	18.80	20.00	11.00	140484
15.80	20.00	12.55	141214	18.93	22.09	9.00	140779
15.85	20.65	17.30	141129	19.00	20.50	18.50	140182
15.90	17.50	14.20	140193	19.00	20.75	20.15	140060#
15.90	19.10	15.20	140553	19.00	22.00	18.00	140776
15.90	19.10	24.40	141158	19.00	22.30	6.30	140843
15.93	19.20	21.92	140074	19.00	23.00	19.00	140520
15.95	19.13	18.00	140173	19.00	23.00	20.00	140449
15.95	19.15	14.00	140257	19.00	23.02	25.00	140959

ID	OD	Length	HC-CARGO	ID	OD	Length	HC-CARGO
19.00	23.50	10.00	141264	23.25	28.55	5.00	141073
19.03	22.05	9.00	140846	23.55	27.00	5.85	140698
19.05	25.40	19.05	140403	23.85	27.00	5.65	141182
19.06	22.55	14.00	140758	23.90	29.30	5.95	140697
19.10	19.10	19.93	140836	23.93	29.30	6.03	140774
19.10	22.25	20.50	140661	24.00	25.40	10.65	141241
19.10	23.10	13.00	140026	24.20	29.00	18.00	140452
19.10	25.45	19.00	141143	24.90	32.00	17.85	140745
19.11	20.70	17.90	140059	25.02	30.04	15.00	140683
19.11	23.08	9.80	140025	25.03	32.07	20.00	140669
19.12	25.10	12.80	140151	25.47	28.65	21.60	140212
19.13	23.05	13.20	140859	25.50	28.65	17.30	140594
19.13	25.09	10.00	140020	25.60	31.80	8.85	141126#
19.15	22.20	20.35	140102	26.10	30.40	11.35	140256
19.19	31.81	10.29	140404	26.10	32.10	11.60	140692
19.22	22.53	11.00	141207	27.05	35.07	14.40	140671
19.30	22.60	19.25	140406	27.16	31.14	5.63	140572
19.35	20.60	9.50	140944	27.78	32.00	28.00	140450
20.00	22.20	26.80	141191	28.30	33.00	26.35	140154
20.01	25.00	10.80	140905#	28.30	35.70	10.00	140312
20.02	24.03	5.00	140735	28.35	32.25	10.00	140850
20.02	24.06	12.00	140067	28.56	31.77	13.00	140659
20.04	24.05	16.00	140676	30.10	35.00	22.95	140778
20.05	28.05	29.00	140672	30.10	37.08	25.00	140864#
20.05	28.07	24.90	140673	34.50	39.17	41.80	140007
20.10	24.07	18.00	140679	34.50	40.15	43.00	140107
20.10	25.10	8.65	141137#	34.80	44.10	42.75	140114
20.12	25.12	9.25	140995	34.90	39.30	47.00	140171
20.20	25.10	10.65	141138	35.15	44.00	39.55	140578#
20.25	23.30	21.05	140832	35.48	39.10	34.00	141004#
20.31	24.00	13.90	140201	35.56	38.22	21.87	140838#
20.35	26.50	12.50	140317	35.80	39.50	47.80	141003
20.50	26.55	11.90	141141	40.12	48.04	10.50	140011
21.03	25.00	11.80	141212			20.00	080161
21.09	24.70	4.30	141055			30.50	080165
21.25	24.38	25.10	140206			33.50	080232
21.30	24.50	31.75	140477			40.50	080163
21.65	25.05	27.00	140169#				140104
21.67	26.46	12.55	140909#				140472
21.92	28.05	18.00	141097				140473
22.00	26.00	11.95	140949				140526
22.02	26.28	5.19	140696				140528
22.05	25.45	33.60	140746				140531
22.05	26.05	28.00	140170				140534#
22.07	26.00	5.19	141082				140535#
22.14	28.07	11.20	140111				140536
22.22	28.60	31.75	140402				140537
22.25	28.65	29.90	141144				140539
22.30	28.60	9.00	141048				140540
22.34	26.70	5.50	142047				140541
22.35	26.25	34.00	140664				140543
22.35	26.70	9.00	140942				140590
22.40	26.70	8.10	141125				140592
22.68	25.70	25.00	140214				140593
22.71	28.50	5.90	140554				140646
22.80	27.05	5.75	140938				140655
22.85	28.65	5.80	141154				140827
23.02	28.60	4.05	140847				142000
23.04	26.07	8.45	141238				
23.05	28.50	3.95	141155				
23.05	28.64	3.76	141205				
23.05	28.64	3.80	141080				
23.10	27.05	20.00	140397				

**STARTER PARTS**

### Mounting Bushings



#### Type A



ID	OD	Length	HC-CARGO
8.40	13.40	15.40	231520
10.00	18.30	18.00	137801
10.10	18.30	15.40	231309
12.00	19.50	16.20	134783#

#### Type B



ID	OD	Length	HC-CARGO
8.00	13.05	11.00	230220#
8.00	13.05	20.00	134774
8.00	13.50	20.00	136461
8.00	14.00	20.00	134775
8.00	18.00	22.00	137379#
8.00	21.00	20.00	138088#
8.20	13.60	20.00	135211#
8.50	18.07	20.00	138086
8.60	15.30	15.30	134278
10.00	15.00	13.00	139966
10.00	15.00	18.00	134964
10.00	16.50	15.30	134277
10.00	17.00	20.00	233338
10.00	18.10	20.00	137263
10.00	19.03	18.30	137400
10.20	20.20	22.00	230508
10.20	21.00	18.00	139245
10.30	21.00	22.00	137262
10.50	17.10	16.00	234575
10.84	21.07	29.57	234265
12.00	19.70	22.00	134782
12.20	21.10	27.00	137408
12.30	18.00	27.00	137461
12.30	18.08	22.00	137343
12.50	21.00	22.00	230079
12.50	21.20	25.00	138240
12.70	22.23	20.30	232737
13.30	21.15	20.00	138241
13.35	19.35	20.30	233276#
13.40	21.30	27.00	139968

#### Type C



ID	OD	Length	HC-CARGO
8.00	13.00	21.00	138451
8.30	17.00/22.00	15.00	135281#
8.40	14.00	13.00	135216
9.00	11.00/20.00	8.00	138243
10.00	16.50/22.00	20.70	135421
10.10	16.60	16.00	134676
10.20	14.00	17.80	138435
10.20	16.80/21.50	13.00	230910
10.40	16.50/26.00	13.00	233569
10.50	15.50	18.30	234825
10.50	15.50/22.50	18.20	232669
10.50	17.00/22.00	15.00	134276
10.60	22.40	20.15	233313#
11.00	14.00/21.50	8.10	138089
11.00	18.60	26.00	234713
M12	16.15	20.90	139621

#### Type D



ID	OD	Length	HC-CARGO
8.80	15.00	25.00	232063
8.85	13.50	25.20	139747
10.00	16.00	21.00	137497
10.00	16.00-22.00	20.00	232742
10.00	16.00-22.00	21.00	232745
10.00	18.20/22.00	15.00	231560
10.30	17.90/25.00	26.50	138245
10.35	18.00/21.90	21.10	138091
10.45	18.00	17.50	138090
10.50	18.00/24.90	26.50	139592
10.60	18.00	20.00	138244
.....	18.00	21.00	233574

#### Type F



ID	OD	Length	HC-CARGO
M10	17.96	19.01	235788
.....	18.00	20.00	137575
.....	21.00	20.00	231257

**Type G**


ID	OD	Length	HC-CARGO
M10-1.50.....	18.70.....	23.50	<b>233658#</b>
.....	18.30.....	23.00	<b>133752</b>
.....	18.50.....	21.00	<b>234835</b>

**Type H**


ID	OD	Length	HC-CARGO
.....	21.00.....	25.00	<b>233920</b>
.....	21.00.....	32.00	<b>138087</b>

**Type J**


ID	OD	Length	HC-CARGO
10.50.....	18.00.....	13.00	<b>136932</b>
10.50.....	18.00.....	16.00	<b>134792</b>

**Type K**


ID	OD	Length	HC-CARGO
9.43.....	14.87.....	12.99	<b>330706#</b>

**Mounting Bushing Kit**


ID	OD	Length	HC-CARGO
8.00.....	10.80.....	8.00	<b>132573</b>
8.00.....	15.00.....	25.00	<b>131820</b>
8.15.....	15.00.....	56.00	<b>133641</b>
8.20.....	15.00.....	51.00	<b>131821</b>
10.00.....	13.00.....	5.00	<b>131604</b>
10.00.....	13.20.....	7.15	<b>131608</b>
10.00.....	14.50.....	9.00	<b>131607</b>
10.40.....	18.50.....	12.20	<b>137756</b>
10.50.....	18.30.....	14.90	<b>137757</b>
12.30.....	21.00.....	29.00	<b>132572</b>
M10.....	14.85.....	12.55	<b>131605</b>
M10.....	16.60.....	12.00	<b>131606</b>





# Assortments

Edition 2015/2016



Assortment Box and Inserts



**200663** Std pkg 6  
 Profi Service Case, empty.  
 Can be divided using inserts.  
 Dim.: 340 x 265 x 57 mm.  
 Polypropylene (Unbreakable).

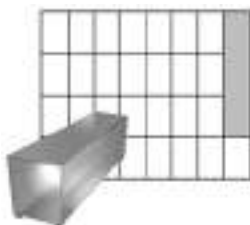
**INSERTS FOR ASSORTMENT BOXES**  
 Polypropylene (Unbreakable)



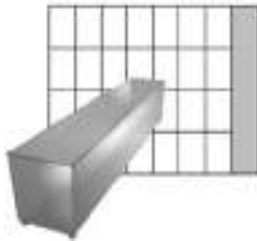
**200664** Std pkg 96  
 Dim.: 55 x 40 x 45 mm.



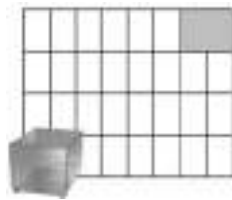
**200665** Std pkg 48  
 Dim.: 110 x 40 x 45 mm.



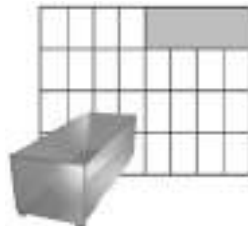
**200666** Std pkg 30  
 Dim.: 165 x 40 x 45 mm.



**200667** Std pkg 24  
 Dim.: 220 x 40 x 45 mm.



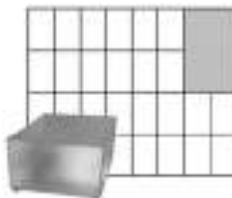
**200668** Std pkg 48  
 Dim.: 55 x 80 x 45 mm.



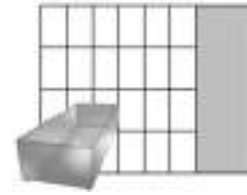
**200669** Std pkg 24  
 Dim.: 55 x 160 x 45 mm.



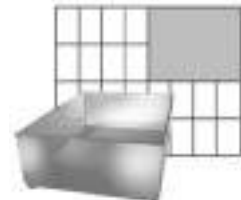
**200670** Std pkg 15  
 Dim.: 55 x 240 x 45 mm.



**200671** Std pkg 24  
 Dim.: 110 x 80 x 45 mm.



**200672** Std pkg 12  
 Dim.: 220 x 80 x 45 mm.



**200673** Std pkg 12  
 Dim.: 110 x 160 x 45 mm.




**200676**  
 Display for 4 Profi Service Cases.  
 Dim.: 330 x 360 x 200 mm




**200693**  
 Display for 4 Profi service cases.  
 Dim.: 313 x 373 x 265 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			



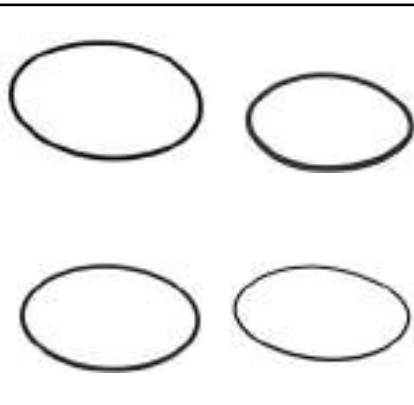
Various Brushes / DC Motors				803005	
HC-CARGO	Item	Qty.			
140164	Brush	10			
140408	Brush Set	4			
140410	Brush Set	4			
H106	Brush	6			
H26	Brush	10			
H54	Brush	10			
H56	Brush	10			
H5-6	Brush	10			
PL5	Brush	6			
SW126	Brush	10			



Terminal Leads				803006	
HC-CARGO	Item	Qty.			
133370	Terminal lead 6 mm <sup>2</sup>	5			
133371	Terminal lead 8 mm <sup>2</sup>	5			
133372	Terminal lead 10 mm <sup>2</sup>	5			
133390	Terminal lead 8 mm <sup>2</sup>	5			
133505	Terminal lead 6 mm <sup>2</sup>	5			
133506	Terminal lead 6 mm <sup>2</sup>	5			
134064	Terminal lead 8 mm <sup>2</sup>	5			
134921	Terminal lead 8 mm <sup>2</sup>	5			
140398	Brush lead 3 mm <sup>2</sup>	1			
140399	Brush lead 6 mm <sup>2</sup>	1			
140400	Brush lead 10 mm <sup>2</sup>	1			
140704	Brush lead 16 mm <sup>2</sup>	1			



Various O-rings				803007	
HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.
132659	O-Ring	5	134486	O-Ring	10
132660	O-Ring	10	134487	O-Ring	10
132891	O-Ring	10	134488	O-Ring	10
132892	O-Ring	5	134489	O-Ring	10
132893	O-Ring	10	134490	O-Ring	5
132900	O-Ring	5	134491	O-Ring	10
133040	O-Ring	5	134612	O-Ring	10
133597	O-Ring	5	134613	O-Ring	5
133598	O-Ring	5	134633	O-Ring	10
133717	O-Ring	5	134692	O-Ring	10
133965	O-Ring	5	134716	O-Ring	10
134482	O-Ring	10	134776	O-Ring	10
134484	O-Ring	10	134931	O-Ring	5
134485	O-Ring	10	134965	O-Ring	5



**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			


**Various Special Bearings**
**803013**

HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.
140222	Ball Bearing 608/2rs	5	140514	Needle Bearing	5
140223	Ball Bearing 6004/2rs	5	140630	Ball Bearing	2
140224	Ball Bearing 6902/2rs	5			
140225	Ball Bearing 6903/2rs	5			
140226	Ball Bearing 6904/2rs	5			
140227	Ball Bearing 6905/2rs	5			
140242	Needle Bearing	5			
140375	Needle Bearing	5			
140381	Needle Bearing	5			
140412	Ball Bearing	5			
140457	Needle Bearing	5			
140468	Needle Bearing	5			
140470	Needle Bearing	5			
140494	Needle Bearing	5			


**Brushes 12V / Bosch**
**803018**

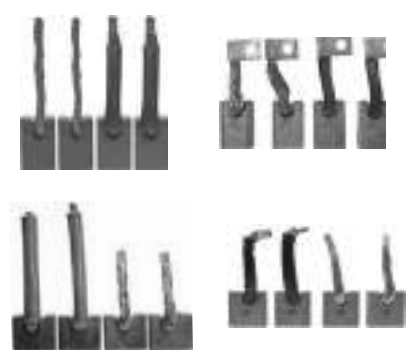
HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.
BSX124	Brush Set	2	BSX124F4	Brush Set	2
BSX754	Brush Set	2	BSX151s4	Brush Set	2
BSX964	Brush Set	2	BSX157-1584	Brush Set	2
BSX1024	Brush Set	2	BSX159-1604	Brush Set	2
BSX1044	Brush Set	2			
BSX764	Brush Set	2			
BSX134-1444	Brush Set	2			
BSX137-1434	Brush Set	2			
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 / Magneti Marelli**
**803021**

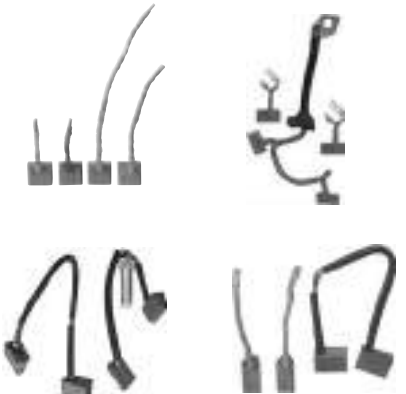
HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.
JSX134	Brush Set	2	MASX17-184	Brush Set	2
JSX162	Brush Set	2	MASX19-204	Brush Set	2
JSX184	Brush Set	2	MASX21-224	Brush Set	2
JSX194	Brush Set	2	MASX23-244	Brush Set	2
JSX21-22	Brush Set	2	MASX25-264	Brush Set	2
JSX23-24-28	Brush Set	2	MASX27-284	Brush Set	2
JSX31-32	Brush Set	2			
JSX33-344	Brush Set	2			
JSX35-364	Brush Set	2			
JSX35-374	Brush Set	2			
JSX52	Brush Set	2			
JSX94	Brush Set	2			
MASX13-144	Brush Set	2			
MASX15-164	Brush Set	2			




Brushes / Hitachi				803023	
HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.
140334	Brush Set	2	140597	Brush Set	2
140335	Brush Set	2			
140336	Brush Set	2			
140337	Brush Set	2			
140338	Brush Set	2			
140339	Brush Set	2			
140340	Brush Set	2			
140341	Brush Set	2			
140376	Brush Set	2			
140377	Brush Set	2			
140378	Brush Set	2			
140379	Brush Set	2			
140567	Brush Set	2			
140595	Brush Set	2			




Brushes / Lucas				803024	
HC-CARGO	Item	Qty.			
140480	Brush Set	2			
140481	Brush Set	2			
140511	Brush Set	2			
140513	Brush Set	2			
LASX15-164	Brush Set	2			
LASX15-274	Brush Set	2			
LASX22	Brush Set	2			
LASX2-34	Brush Set	2			
LASX314	Brush Set	2			
LASX364	Brush Set	2			
LASX37-38-39	Brush Set	2			
LASX40-412P	Brush Set	2			
LASX43-442	Brush Set	2			
LASX44-452P	Brush Set	2			
LASX73-412/1P	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			
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			



Brushes / Valeo				803032	
HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.
PSX115-1162	Brush Set	2	PSX77-784	Brush Set	2
PSX119-1202	Brush Set	2	PSX81-824	Brush Set	2
PSX122-123-124	Brush Set	2			
PSX1292/1P	Brush Set	2			
PSX1304	Brush Set	2			
PSX1324	Brush Set	2			
PSX1332	Brush Set	2			
PSX133K2	Brush Set	2			
PSX136-1374	Brush Set	2			
PSX138-1392	Brush Set	2			
PSX140-1414	Brush Set	2			
PSX144-145K	Brush Set	2			
PSX146-147K	Brush Set	2			
PSX64-702	Brush Set	2			



**Bushings / Valeo**

**803033**

HC-CARGO	Item	Qty.	HC-CARGO	Item	Qty.
140043	..... Bushing .....	10	140537	..... Bushing Kit.....	1
140065	..... Bushing .....	10	140540	..... Bushing Kit.....	1
140119	..... Bushing .....	10	140541	..... Bushing Kit.....	1
140258	..... Bushing .....	10	140615	..... Bushing .....	10
140259	..... Bushing .....	10	B140064	..... Bushing .....	10
140440	..... Bushing .....	10	B140066	..... Bushing .....	10
140473	..... Bushing Kit.....	1	B140496	..... Bushing .....	10
140474	..... Bushing Kit.....	1	B140684	..... Bushing .....	10
140497	..... Bushing .....	10			
140498	..... Bushing .....	10			
140499	..... Bushing .....	10			
140526	..... Bushing Kit.....	1			
140531	..... Bushing Kit.....	1			
140533	..... Bushing Kit.....	1			



**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			

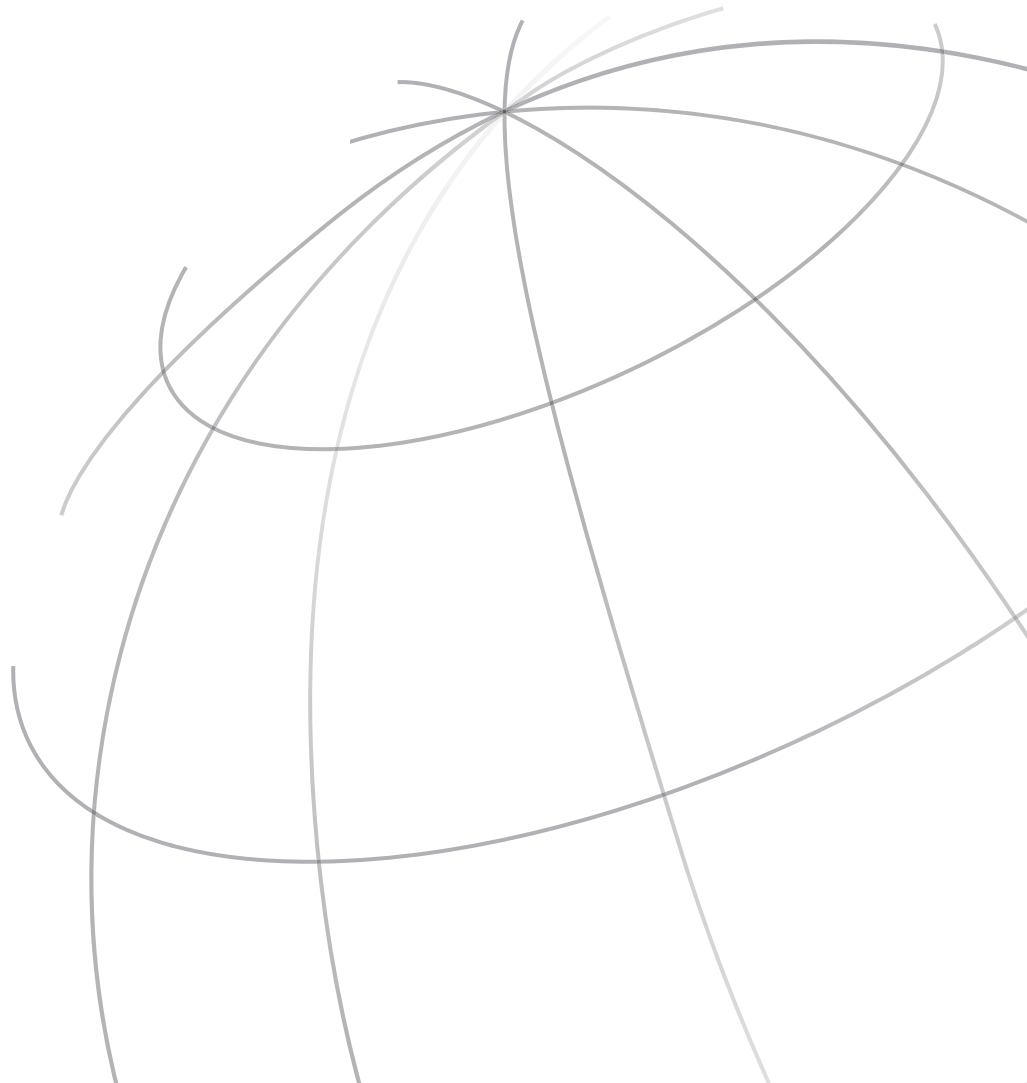




# Cross reference list

OE no. - HC-CARGO no.

Edition 2015/2016



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>BOMBARDIER</b>		0331302056	133643	0331303032	131586	0331303100	131793
295-500-089	139083	0331302058	135358	0331303032	333146	0331303101	134378
		0331302059	131794	0331303033	131791	0331303102	131793
<b>BOSCH</b>		0331302060	233896	0331303034	132261	0331303103	139068
0011516314	235529	0331302061	135358	0331303035	135065	0331303104	134376
0124035480	137177	0331302062	131790	0331303037	132260	0331303105	136036
0311402606	138313	0331302063	130470	0331303038	130476	0331303106	136370
0311451002	135381	0331302064	130468	0331303039	136369	0331303107	137693
0330105001	130304	0331302066	130468	0331303039	333546	0331303108	137826
0330105001	333155	0331302070	130468	0331303040	130476	0331303109	133422
0331100002	130282	0331302071	133141	0331303041	131586	0331303110	131793
0331100005	130281	0331302072	135358	0331303041	333146	0331303112	232419
0331100009	130283	0331302074	134823	0331303042	132263	0331303115	136371
0331100009	333162	0331302075	130471	0331303043	131308	0331303116	136036
0331100011	130282	0331302076	133141	0331303045	132827	0331303117	136036
0331100012	130282	0331302077	131794	0331303045	333166	0331303118	137175
0331100014	130281	0331302081	234858	0331303046	131793	0331303120	136036
0331100016	133554	0331302082	130471	0331303047	130474	0331303121	136369
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Cross reference list

## STARTER PARTS

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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Cross reference list

## STARTER PARTS

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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1004336941	333639	1004336984	134660	1005001949	137622	1005821498	136582

**STARTER PARTS**

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> Continued							
1005821505	137904	1005823403	230727	1006200034	137225	1006200150	234156
1005821516	231661	1005823433	230196	1006200036	230832	1006200152	235704
1005821525	230851	1005823437	230196	1006200037	135068	1006200153	138916
1005821534	234079	1005823456	134058	1006200039	235704	1006200154	235866
1005821539	230850	1005823459	134059	1006200040	135161	1006200155	230833
1005821549	136383	1005823463	134533	1006200041	135841	1006200160	138919
1005821558	137905	1005823474	134059	1006200042	135600	1006200161	230912
1005821576	233856	1005831015	233943	1006200043	135601	1006200163	235704
1005821579	137309	1005831037	234848	1006200044	234502	1006200166	234503
1005821585	137906	1005831040	234847	1006200047	230167	1006200178	235579
1005821596	134406	1005831108	234138	1006200048	133483	1006200180	138919
1005821599	135984	1005831116	234369	1006200049	133483	1006200183	135598
1005821604	135899	1005831126	234397	1006200050	131991	1006200184	138920
1005821615	139695	1005831129	233943	1006200055	138920	1006200185	234142
1005821622	234082	1005831135	234140	1006200056	133459	1006200187	133456
1005821628	134814	1005831144	135892	1006200057	138862	1006200195	139969
1005821630	231656	1005831152	236640	1006200058	135471	1006200201	139969
1005821632	231791	1005831157	235036	1006200059	137920	1006200206	230912
1005821637	137907	1005831159	137629	1006200060	138917	1006200214	332236
1005821649	136134	1005831163	137912	1006200061	137755	1006200230	333405
1005821651	137908	1005831167	137915	1006200062	138918	1006200301	235399
1005821671	231792	1005831169	137630	1006200063	138919	1006200302	235399
1005821683	136199	1005831171	234154	1006200064	138253	1006200303	235025
1005821694	137909	1005831173	233974	1006200067	139012	1006200304	235025
1005821702	137628	1005831175	234369	1006200068	136789	1006200306	235025
1005821711	137327	1005831181	234367	1006200069	137328	1006200307	235025
1005821713	235305	1005831220	234080	1006200070	137754	1006200309	235025
1005821728	137904	1005831234	230608	1006200071	137755	1006200310	235399
1005821731	137155	1005831301	137913	1006200072	138916	1006200316	236833
1005821737	134850	1005831304	236509	1006200074	233907	1006200316	333550
1005821740	230077	1005831340	234847	1006200077	137623	1006200319	239780
1005821746	137915	1005831425	234847	1006200081	137755	1006200342	333464
1005821755	138324	1005831432	138324	1006200082	230551	1006200490	333405
1005821758	139020	1005851008	138924	1006200083	138232	1006200900	135069
1005821768	137629	1005851010	139547	1006200086	137623	1006200902	133484
1005821787	137630	1005851012	139357	1006200087	137921	1006200903	133483
1005821790	137911	1005851014	230773	1006200088	136855	1006200904	133485
1005821793	137912	1005851016	230078	1006200090	235704	1006200909	235704
1005821796	139548	1005851042	139547	1006200093	139021	1006200910	135068
1005821799	137913	1005851054	230966	1006200095	139969	1006200929	333423
1005821811	234367	1005851066	139574	1006200096	138325	1006200972	235025
1005821817	137631	1005851068	139357	1006200097	139012	1006208280	131771
1005821820	137916	1005851069	138924	1006200098	137920	1006208450	131771
1005821826	138357	1005851070	139547	1006200099	138325	1006209012	132163
1005821832	231848	1005851071	139357	1006200100	137886	1006209014	132163
1005821839	230838	1005851072	230078	1006200101	137884	1006209017	132163
1005821857	137914	1005851073	230773	1006200103	135471	1006209029	130406
1005821860	231169	1005851093	139547	1006200104	133483	1006209030	130390
1005821866	234154	1005851095	139547	1006200105	231900	1006209031	130406
1005821881	235036	1005851097	138924	1006200108	234368	1006209032	130390
1005821890	234051	1005851105	233571	1006200109	137886	1006209033	130390
1005821892	233974	1005851151	230773	1006200110	135600	1006209034	130406
1005821898	234083	1005851153	139357	1006200111	137755	1006209039	130390
1005821901	137629	1005852309	235534	1006200112	137463	1006209040	130406
1005821903	137915	1005852311	235534	1006200114	137885	1006209047	130406
1005821906	234241	1005852312	235534	1006200117	137464	1006209049	130390
1005821913	231657	1005852336	136547	1006200118	137886	1006209050	231884
1005821925	230454	1005852371	230610	1006200120	234239	1006209051	130406
1005821932	139906	1005853381	139065	1006200122	137465	1006209052	130406
1005821935	137916	1005853385	139065	1006200123	133459	1006209053	130406
1005821946	230077	1005853388	139065	1006200125	137887	1006209054	231884
1005821955	234157	1006200001	133459	1006200126	230830	1006209055	130406
1005821960	234084	1006200004	133458	1006200127	137328	1006209056	130390
1005821962	137631	1006200005	133459	1006200128	135601	1006209058	130406
1005821976	232184	1006200006	133456	1006200129	135841	1006209059	132193
1005821982	233984	1006200007	137783	1006200130	135068	1006209060	132193
1005821985	139573	1006200010	133459	1006200131	133459	1006209061	130027
1005821988	234237	1006200012	135598	1006200132	138862	1006209066	130406
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1005822396	134610	1006200016	133484	1006200135	136789	1006209071	130390
1005822416	136438	1006200017	133483	1006200136	234085	1006209073	139503
1005822424	135964	1006200018	133459	1006200137	231202	1006209080	130401
1005822449	136790	1006200019	133485	1006200138	230698	1006209081	130402
1005822451	136790	1006200021	133458	1006200141	233580	1006209082	137299
1005822456	134134	1006200022	133459	1006200142	234240	1006209083	230159
1005822465	134307	1006200027	230158	1006200145	137921	1006209101	130406
1005823316	137388	1006200030	135841	1006200148	138916	1006209102	130027
1005823399	135812	1006200032	137783	1006200149	234238	1006209104	130027

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
1006209105	130390	1006209445	130393	1006209536	131104	1006209581	135715Z
1006209107	139503	1006209447	130396	1006209536	333176	1006209582	131104
1006209108	130388	1006209447	333521	1006209536	131104ZZ	1006209582	333176
1006209110	130390	1006209448	131098	1006209537	131433	1006209582	131104ZZ
1006209117	132193	1006209449	131097	1006209537	333172	1006209583	139850
1006209119	132193	1006209449	333233	1006209537	131433Z	1006209583	333221
1006209120	231884	1006209450	131771	1006209538	132205	1006209584	137265
1006209125	132163	1006209451	131772	1006209538	333196	1006209584	333194
1006209127	130406	1006209452	132166	1006209538	132205Z	1006209585	135085
1006209129	130026	1006209460	134644	1006209539	132205	1006209585	333203
1006209140	130390	1006209462	130396	1006209539	333196	1006209587	137265
1006209161	130027	1006209462	333521	1006209539	132205Z	1006209588	138874
1006209162	130404	1006209463	130396	1006209540	133230	1006209590	231015
1006209162	333231	1006209463	333521	1006209541	132204	1006209591	134371
1006209165	130406	1006209466	233842	1006209542	232481	1006209591	134371Z
1006209233	130027	1006209469	131101	1006209543	132216	1006209592	136614
1006209236	130396	1006209469	333519	1006209543	333174	1006209592	333544
1006209236	333521	1006209470	131101	1006209544	132216	1006209594	134371
1006209295	134371	1006209470	333519	1006209544	333174	1006209594	134371Z
1006209295	134371Z	1006209471	130396	1006209544	132216ZZ	1006209595	234806
1006209320	132193	1006209471	333521	1006209545	131433	1006209596	132216
1006209321	132193	1006209472	131097	1006209545	333172	1006209596	333174
1006209322	132193	1006209472	333233	1006209545	131433Z	1006209596	132216ZZ
1006209323	132193	1006209473	131101	1006209547	135115	1006209597	131104
1006209324	132193	1006209473	333519	1006209548	131104	1006209597	333176
1006209325	132193	1006209474	136912	1006209548	333176	1006209597	131104ZZ
1006209329	132193	1006209481	234807	1006209548	131104ZZ	1006209600	135716
1006209332	130406	1006209482	137279	1006209549	133362	1006209600	333194
1006209339	130027	1006209500	131102	1006209549	333201	1006209601	231897
1006209340	130396	1006209500	333220	1006209550	135164	1006209602	138252
1006209340	333521	1006209500	131102Z	1006209551	135714	1006209603	230639
1006209400	130405	1006209501	131432	1006209552	134371	1006209605	139013
1006209400	333520	1006209502	131150	1006209552	134371Z	1006209606	139013
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1006209402	130401	1006209503	333176	1006209553	333221	1006209607	333208
1006209403	130405	1006209503	131104ZZ	1006209554	133362	1006209613	138233
1006209403	333520	1006209504	131104	1006209554	333201	1006209614	234945
1006209404	130396	1006209504	333176	1006209555	139336	1006209618	137481
1006209404	333521	1006209504	131104ZZ	1006209558	139850	1006209618	333178
1006209405	130405	1006209506	131104	1006209558	333221	1006209618	137481Z
1006209405	333520	1006209506	333176	1006209559	133362	1006209619	131104
1006209406	131097	1006209506	131104ZZ	1006209559	333201	1006209619	333176
1006209406	333233	1006209509	131104	1006209560	131434	1006209619	131104ZZ
1006209410	130396	1006209509	333176	1006209560	333548	1006209620	230349
1006209410	333521	1006209509	131104ZZ	1006209561	136888	1006209621	136854
1006209411	130405	1006209510	131433	1006209563	131104	1006209621	333177
1006209411	333520	1006209510	131433Z	1006209563	333176	1006209621	136854Z
1006209412	130405	1006209513	131104	1006209563	131104ZZ	1006209621	136854ZZ
1006209412	333520	1006209513	333176	1006209564	136925	1006209622	230350
1006209414	130396	1006209513	131104ZZ	1006209565	139850	1006209622	333229
1006209414	333521	1006209516	131433	1006209565	333221	1006209624	137483
1006209416	130396	1006209516	333172	1006209566	131433	1006209624	333191
1006209416	333521	1006209516	131433Z	1006209566	333172	1006209626	137170
1006209417	130405	1006209517	131432	1006209566	131433Z	1006209627	139013
1006209417	333520	1006209519	132167	1006209568	131433	1006209628	137480
1006209418	133443	1006209520	131994	1006209568	333172	1006209628	333179
1006209419	230197	1006209521	136723	1006209568	131433Z	1006209628	137480Z
1006209420	138946	1006209522	132168	1006209569	131434	1006209628	137480ZZ
1006209421	130398	1006209523	131995	1006209569	333548	1006209629	137981
1006209422	133853	1006209523	333577	1006209570	131104	1006209629	333216
1006209423	130995	1006209524	132079	1006209570	333176	1006209631	230835
1006209424	130404	1006209524	132079Z	1006209570	131104ZZ	1006209631	333189
1006209424	333231	1006209526	131104	1006209571	132204	1006209632	233838
1006209425	132194	1006209526	333176	1006209572	131104	1006209633	137483
1006209427	130396	1006209526	131104ZZ	1006209572	333176	1006209633	333191
1006209427	333521	1006209527	135569	1006209573	131104	1006209634	137888
1006209428	131097	1006209528	131104	1006209573	333176	1006209634	333192
1006209428	333233	1006209528	333176	1006209573	131104ZZ	1006209635	230835
1006209429	130400	1006209528	131104ZZ	1006209574	137170	1006209635	333189
1006209430	132195	1006209530	131104	1006209574	132216	1006209636	137890
1006209431	130404	1006209530	333176	1006209576	333174	1006209636	333181
1006209431	333231	1006209530	131104ZZ	1006209576	132216ZZ	1006209636	137890Z
1006209432	137299	1006209531	131104	1006209578	135464	1006209637	137889
1006209433	230159	1006209531	333176	1006209578	333523	1006209637	333199
1006209436	131489	1006209531	131104ZZ	1006209579	135086	1006209638	137481
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1006209439	130401	1006209533	136472	1006209580	135713	1006209639	234271
1006209440	234534	1006209534	133362	1006209580	333226	1006209641	138875
1006209444	130402	1006209535	136723	1006209581	135715	1006209641	333183

Cross reference list

## STARTER PARTS

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>							
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1006209642	333214	1006209694	131104ZZ	1006209799	333234	1006209933	137265
1006209643	137890	1006209695	235440	1006209801	234247	1006209936	234158
1006209643	333181	1006209695	333186	1006209801	234247Z	1006209937	137481
1006209643	137890Z	1006209695	235440Z	1006209802	230828	1006209937	333178
1006209645	230828	1006209696	137483	1006209802	333571	1006209937	137481Z
1006209645	333571	1006209696	333191	1006209804	234124	1006209938	333322
1006209646	230352	1006209699	136854	1006209804	333171	1006209939	131104
1006209646	333553	1006209699	333177	1006209804	234124Z	1006209939	333176
1006209647	233831	1006209699	136854Z	1006209805	234946	1006209939	131104ZZ
1006209648	136854	1006209699	136854ZZ	1006209806	234785	1006209940	331010
1006209648	333177	1006209700	131104	1006209806	333551	1006209941	136614
1006209648	136854Z	1006209700	333176	1006209807	234247	1006209941	333544
1006209648	136854ZZ	1006209700	131104ZZ	1006209807	234247Z	1006209943	232623
1006209649	137480	1006209701	131104	1006209809	236891	1006209943	333564
1006209649	333179	1006209701	333176	1006209809	333489	1006209944	137483
1006209649	137480Z	1006209701	131104ZZ	1006209810	235290	1006209944	333191
1006209649	137480ZZ	1006209702	131104	1006209810	333542	1006209946	137890
1006209650	231009	1006209702	333176	1006209812	234535	1006209946	333181
1006209650	333524	1006209702	131104ZZ	1006209812	333195	1006209946	137890Z
1006209652	137891	1006209703	132216	1006209813	236883	1006209947	233720
1006209652	137891Z	1006209703	333174	1006209814	234946	1006209949	234141
1006209653	233720	1006209703	132216ZZ	1006209818	237667	1006209950	230828
1006209655	234293	1006209704	231896	1006209818	333396	1006209950	333571
1006209655	333211	1006209704	333210	1006209820	235290	1006209952	236641
1006209656	233828	1006209705	131104	1006209820	333542	1006209953	236854
1006209656	333193	1006209705	333176	1006209823	330226	1006209958	234946
1006209657	230339	1006209705	131104ZZ	1006209824	330265	1006209959	234902
1006209657	333200	1006209706	137483	1006209824	333188	1006209959	333579
1006209658	234806	1006209706	333191	1006209828	330125	1006209960	234141
1006209659	233839	1006209707	131104	1006209828	333581	1006209961	236375
1006209659	333184	1006209707	333176	1006209834	333355	1006209961	333182
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1006209666	234158	1006209710	132216	1006209862	235798	1006209983	137888
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1006209669	233829Z	1006209710	132216ZZ	1006209902	132163	1006209987	230828
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1006209670	333208	1006209711	333176	1006209905	333172	1006209993	135716
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1006209671	333180	1006209715	137483	1006209906	131104	1006209997	135716
1006209671	230834Z	1006209715	333191	1006209906	333176	1006209997	333194
1006209672	137481	1006209753	233841	1006209906	131104ZZ	1006210100	235798
1006209672	333178	1006209755	234141	1006209908	131434	1006210103	333341
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1006209675	139954	1006209757	333200	1006209910	139850	1006210128	330265
1006209675	333208	1006209758	137480	1006209910	333221	1006210128	333188
1006209677	137481	1006209758	333179	1006209911	134371	1006210141	333235
1006209677	333178	1006209758	137480Z	1006209911	134371Z	1006210143	135085
1006209677	137481Z	1006209758	137480ZZ	1006209912	134371	1006210143	333203
1006209678	230835	1006209759	137890	1006209912	134371Z	1006210145	131433
1006209678	333189	1006209759	333181	1006209914	137279	1006210145	333172
1006209680	230340	1006209759	137890Z	1006209916	135085	1006210145	131433Z
1006209680	333215	1006209760	234293	1006209916	333203	1006210146	330265
1006209681	232623	1006209760	333211	1006209917	135086	1006210146	333188
1006209681	333564	1006209762	138875	1006209917	135086Z	1006210149	333396
1006209683	233840	1006209762	333183	1006209918	132216	1006210152	131434
1006209684	131104	1006209762	138875Z	1006209918	333174	1006210152	333548
1006209684	333176	1006209768	235425	1006209918	132216ZZ	1006210154	236641
1006209684	131104ZZ	1006209775	333094	1006209919	132216	1006210155	132216
1006209685	131104	1006209777	137483	1006209919	333174	1006210155	333174
1006209685	333176	1006209777	333191	1006209919	132216ZZ	1006210155	132216ZZ
1006209685	131104ZZ	1006209779	234902	1006209921	132216	1006210163	333236
1006209686	135716	1006209779	333579	1006209921	333174	1006210171	235798
1006209686	333194	1006209781	236508	1006209921	132216ZZ	1006210185	333341
1006209690	137481	1006209783	234141	1006209922	139850	1007010003	137882
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## STARTER PARTS

O.E.M. names and numbers are used for reference purposes only.

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2005854199	133908	2006209166	130406	2006209431	131207	2006209503	230144
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2005854901	134093	2006209183	130415	2006209435	130932	2006209504	333205
2005855073	133489	2006209185	132365	2006209436	132273	2006209529	131065
2005855076	133489	2006209187	231585	2006209436	333227	2006209529	333190
2005855110	133489	2006209189	130415	2006209437	131711	2006209530	131065
2005855165	133489	2006209200	132697	2006209438	131270	2006209530	333190
2005855166	133489	2006209201	132697	2006209440	131270	2006209530	131065Z
2005855173	133490	2006209212	130415	2006209443	131106	2006209531	132000
2005855174	133490	2006209215	132364	2006209444	131495	2006209531	333230
2005855184	136559	2006209220	333439	2006209444	333515	2006209532	132702
2005855199	136559	2006209233	135989	2006209446	132273	2006209532	333209
2005855276	136558	2006209239	135989	2006209446	333227	2006209533	131475

## STARTER PARTS

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>							
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2006209536	235701	2006382176	130419	2007014051	BSX1004	2339303234	134378
2006209537	132000	2006382176	333173	2007014052	BSX964	2339303236	136786
2006209537	333230	2006382176	130419Z	2007014053	BSX1024	2339303237	137490
2006209539	131475	2006382178	230961	2007014054	BSX1044	2339303240	131791
2006209539	333223	2006382182	230961	2007014055	BSX1044	2339303241	131791
2006209540	137231	2006382188	230961	2007014056	BSX964	2339303245	136615
2006209540	333232	2006382190	135860	2007014057	BSX97F4	2339303246	136036
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2006209542	137231	2006383152	131775	2007014061	BSX1314	2339303252	136779
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2006209543	136509	2006383163	135861	2007014063	142326	2339303258	134824
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2006209544	136509	2006401903	130328	2007014064	BSX964	2339303260	132258
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2006382013	333173	2007011069	137001	2339303001	137613	2339303320	139500
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2339303435	333146	2339305017	234903	2339402161	130303Z	9001049121	131663
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Cross reference list

## STARTER PARTS

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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9001337075	135075	9002338852	136290	9003338820	139499	6033AC0352	141040
9001337081	132152	9002338856	136049	9003338827	135894	6033AC0424	239111
9001337082	131051	9002338862	135999	9003338836	137611	6033AC1436	231647
9001337085	137624	9002338865	135909	9003338853	231563	6033AC1622	231647
9001337087	136788	9002338870	136790	9003338855	136995	6033AC3116	230726
9001337091	139976	9002338882	137162	9003338857	135894	6033AC4002	139700
9001337094	139509	9002338886	137115	9003338886	235534	6033AC4017	231596
9001337095	234657	9002453073	132273	9003338898	136790	6033AC5015	237750
9001337097	139976	9002453073	333227	9005140239	139555	6033AC5028	237766
9001337098	139976	9003330205	237603	9006033136	234087	6033AC5050	142061
9001338010	139499	9003330317	140988	9006033136	333218	6033AC5149	237769
9001338016	233586	9003330901	140903	9006033306	234087	6033AC5186	237770
9001338021	137633	9003330902	140375	9006033306	333218	6033AC5246	237769
9001338029	231023	9003330903	140904	9330041001	233896	6033AC5322	237750
9001338033	137983	9003330905	140911	9330041005	130468	6033AC5394	333398
9001338042	139508	9003331931	139700	9330043002	131586	6033AD0000	234790
9001338056	231593	9003334020	130360	9330043002	333146	6033AD0004	233836
9001338061	231563	9003334024	138254	9330043502	131586	6033AD0004	333593
9001338064	139977	9003334025	132031	9330043502	333146	6033AD0004	233836Z
9001338067	139554	9003334026	132031	9330081028	131141	6033AD0007	233922
9001338073	231082	9003334027	137479	9330081028	333144	6033AD0010	233475
9001338852	137282	9003334028	132031	9330081039	130476	6033AD0011	BSX192-1934
9001338853	231563	9003334029	132031	9330081042	131053	6033AD0012	BSX192-1934
9001338857	137635	9003334030	137479	9330081042	333143	6033AD0014	231648
9001338863	137610	9003334031	136784	9330081045	132254	6033AD0014	333653
9001338869	137381	9003334032	136784	9330081045	333151	6033AD0016	234899
9001338878	137985	9003334033	132031	9330081050	132828	6033AD0044	132079
9001451249	133738	9003334034	132031	9330081060	137693	6033AD0044	132079Z
9001451251	133738	9003334037	137479	9330081061	137693	6033AD0047	231649
9001453583	230448	9003334039	139657	9330081062	132265	6033AD0053	234396
9001453601	138332	9003334039	333496	9330081064	139212	6033AD0056	231650
9001453644	142328	9003334151	139989	9330081065	131143	6033AD0058	230993
9001453644	BSX1774	9003334171	138307	9330081065	333147	6033AD0061	231898
9001453666	140946	9003334314	134661	9330081068	134824	6033AD0061	333509
9001453670	131767	9003334314	333642	9330081068	333145	6033AD0063	234375
9001453717	230841	9003334321	BSX1654	9330091064	139212	6033AD0064	231651

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
6033AD0070	235839	6033AD0401	231648	6033AD3216	238849	6033AD5255	239094
6033AD0070	235860	6033AD0401	333653	6033AD3242	233585	6033AD5256	333530
6033AD0074	233578	6033AD0414	233719	6033AD3244	139056	6033AD5256	333626
6033AD0076	234374	6033AD0414	333206	6033AD3244	333202	6033AD5273	330257
6033AD0077	233835	6033AD0422	134434	6033AD3244	139056Z	6033AD5316	235745
6033AD0077	333204	6033AD0436	233475	6033AD3281	233477	6033AD5316	333658
6033AD0080	235586	6033AD0438	235755	6033AD3283	330031	6033AD5320	235745
6033AD0082	234376	6033AD04380	235755	6033AD3310	231083	6033AD5320	333658
6033AD0086	231267	6033AD0440	231267	6033AD3310	333594	6033AD5334	237750
6033AD0086	333282	6033AD0440	333282	6033AD3328	234947	6033AD5355	237752
6033AD0099	235799	6033AD0442	139056	6033AD3328	333574	6033AD5356	237752
6033AD0121	233585	6033AD0442	333302	6033AD3334	231756	6033AD5359	333358
6033AD0128	139697	6033AD0442	139056Z	6033AD3334	333185	6033AD6014	239112
6033AD0128	333533	6033AD0446	233698	6033AD3338	333237	6033AD6098	239116
6033AD0130	139698	6033AD0450	233215	6033AD3850	139056	6033AD6153	239094
6033AD0130	333300	6033AD0451	235586	6033AD3850	333202	6033AD6160	333314
6033AD0139	234370	6033AD0462	139056	6033AD3850	139056Z	BSX220-221	142310
6033AD0141	234371	6033AD0462	333202	6033AD4013	139657	BSX220-221A	142310
6033AD0144	233215	6033AD0462	139056Z	6033AD4013	333496	F000AL0128	135601
6033AD0148	233837	6033AD0464	235880	6033AD4019	231756	F000AL1001	132194
6033AD0148	333219	6033AD0467	236130	6033AD4019	333185	F000AL1005	140208
6033AD0149	231357	6033AD0467	331683	6033AD4026	139698	F000AL1027	137308
6033AD0151	139697	6033AD0471	139698	6033AD4026	333300	F000AL1040	131104
6033AD0151	333533	6033AD0471	333300	6033AD4026	333650	F000AL1040	333176
6033AD0159	231648	6033AD0471	333650	6033AD4031	231223	F000AL1040	131104ZZ
6033AD0159	333653	6033AD1002	233835	6033AD4034	139056	F000AL1055	134868
6033AD0160	230993	6033AD1002	333204	6033AD4034	333202	F000AL1055	333290
6033AD0162	233922	6033AD1059	233475	6033AD4034	139056Z	F000AL1055	333643
6033AD0165	233477	6033AD1061	233698	6033AD4052	236130	F000AL1074	139011
6033AD0166	234947	6033AD1062	233947	6033AD4052	331683	F000AL1100	230340
6033AD0166	333574	6033AD1062	333212	6033AD4064	139697	F000AL1100	333215
6033AD0167	233477	6033AD1097	234246	6033AD4064	333533	F000AL1209	230835
6033AD0174	231593	6033AD1104	233698	6033AD4080	139657	F000AL1209	333189
6033AD0175	234221	6033AD1107	234244	6033AD4080	333496	F000AL1321	137482
6033AD0180	231357	6033AD1109	234392	6033AD4092	139697	F000AL1326	235724
6033AD0184	231756	6033AD1110	231652	6033AD4092	333533	F000AL1421	139357
6033AD0184	333185	6033AD1158	BSX192-1934	6033AD4096	139697	F000AL1483	136418
6033AD0191	333683	6033AD1159	BSX192-1934	6033AD4096	333533	F000AL1483	235724
6033AD0197	234791	6033AD1245	233922	6033AD4107	139697	F000AL1483	333294
6033AD0198	235585	6033AD1246	231648	6033AD4107	333533	F000AL1505	132989
6033AD0200	231756	6033AD1246	333653	6033AD4108	139697	F000AL1519	131433
6033AD0200	333185	6033AD1248	231652	6033AD4108	333533	F000AL1519	333172
6033AD0206	234244	6033AD1251	230993	6033AD4109	139697	F000AL1519	131433Z
6033AD0209	234392	6033AD1252	235883	6033AD4109	333533	F000AL1520	132168
6033AD0218	234168	6033AD1254	234392	6033AD4118	238845	F000AL1521	136988
6033AD0218	333222	6033AD1267	230175	6033AD4139	333343	F000AL1528	230078
6033AD0219	234246	6033AD1270	234243	6033AD4148	139056	F000AL1698	131104
6033AD0225	230993	6033AD1277	234746	6033AD4148	333202	F000AL1698	333176
6033AD0231	231593	6033AD2012	136743	6033AD4148	139056Z	F000AL1698	131104ZZ
6033AD0242	236130	6033AD3006	139056	6033AD4149	238845	F000AL1881	131996
6033AD0242	331683	6033AD3006	333202	6033AD4156	333420	F000AL1881	333514
6033AD0243	234087	6033AD3006	139056Z	6033AD4161	139698	F000AL1918	138904
6033AD0243	333218	6033AD3018	233585	6033AD4161	333300	F000AL1918	333584
6033AD0250	233948	6033AD3019	233477	6033AD4161	333650	F000AL1919	138899
6033AD0250	333187	6033AD3023	234947	6033AD4177	333597	F000AL1919	333301
6033AD0270	234405	6033AD3023	333574	6033AD4177	333631	F000AL1921	235281
6033AD0285	139657	6033AD3028	235429	6033AD4180	139698	F000AL2000	234945
6033AD0285	333496	6033AD3078	333501	6033AD4180	333300	F000AL2034	138201
6033AD0290	234791	6033AD3078	333616	6033AD4180	333650	F000AL2034	333295
6033AD0304	236130	6033AD3106	233723	6033AD4194	235745	F000AL2035	137268
6033AD0304	331683	6033AD3106	333599	6033AD4194	333658	F000AL2050	139550
6033AD0306	234087	6033AD3108	139056	6033AD4199	333419	F000AL2050	333297
6033AD0306	333218	6033AD3108	333202	6033AD4232	236130	F000AL2050	333649
6033AD0307	234393	6033AD3108	139056Z	6033AD4232	331683	F000AL2051	139550
6033AD0311	231652	6033AD3109	235429	6033AD4240	333505	F000AL2051	333297
6033AD0312	231653	6033AD3110	235849	6033AD4240	333615	F000AL2051	333649
6033AD0312	333547	6033AD3111	139056	6033AD4243	233722	F000AL2630	333678
6033AD0325	234395	6033AD3111	139056Z	6033AD4243	333500	FO00SH0108	133424
6033AD0336	234900	6033AD3120	233837	6033AD5025	239092	FO00SH0123	139498
6033AD0351	234901	6033AD3120	333219	6033AD5055	237752	FO00SH0123	333592
6033AD0368	231648	6033AD3130	233837	6033AD5078	237752	FO00SH0125	137612
6033AD0368	333653	6033AD3130	333219	6033AD5097	BSX206-2074	FO00SH0125	333590
6033AD0370	234947	6033AD3132	233477	6033AD5098	BSX206-2074	FO00SH0139	133424
6033AD0370	333574	6033AD3149	233477	6033AD5126	BSX206-2074	FO00SH0178	238836
6033AD0374	234947	6033AD3172	231593	6033AD5127	BSX206-2074	FO00SH0180	131586
6033AD0374	333574	6033AD3191	233477	6033AD5138	239094	FO00SH0180	333146
6033AD0380	139698	6033AD3192	233477	6033AD5177	BSX216-2174	FO02G20186	133184
6033AD0380	333300	6033AD3196	BSX194-1954	6033AD5178	BSX216-2174	FO05M10053	230835
6033AD0380	333650	6033AD3197	BSX194-1954	6033AD5254	330256	FO05M10053	333189

## STARTER PARTS

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
6211-856	139893	CH1920	130536	028021-0331	136089	028099-3781	132564
6211-858A	230348	CH1922	130536	028021-5010	136088	028099-3800	132004
6211-860	230364	CH1925	130536	028025-0050	232214	028099-3860	132567
6211-961	139708	CH1927	130536	028025-0230	232214	028099-3900	135830
6265-703	139720			028029-0051	135844	028099-3910	139147
6265-704	139724	<b>CUMMINS</b>		028062-0091	136084	028099-3930	132566
6265-705	139722	3603869RX	131364	028062-0200	132888	028099-3940	135310
6400-247	141003	3603870RX	131363	028062-0272	231731	028099-3950	140932
6400-248	141004	3604230RX	131363	028062-0360	132888	028099-3980	140647
6510-2	230435	3604231RX	131364	028062-0480	132888	028099-4000	132867
6510-3	139713			028062-0500	232594	028099-5450	140602
6510-4	139713	<b>DAIHATSU</b>		028062-0530	135746	028099-5460	132405
6510-58	132595	28011-87706-000	132547	028062-0640	137592	028099-5560	132950
6510-59	132597	28110-87505-000	138378	028062-0660	233083	028099-5580	132043
6510-60	230436	28113-87203-000	139051	028062-5050	137592	028099-5590	133356
6510-68	231467	28113-87204-000	139492	028062-5640	233083	028099-5610	132867
6510-79	230437	28118-87201-000	139049	028062-5770	132888	028099-5730	134806
6510-84	230441	28118-87601-000	137377	028062-5790	232594	028099-5730	134806Z
A368	131657	28120-87704-000	231732	028062-6010	231731	028099-5740	235345
A505	131657	28138-87501-000	231213	028062-6180	131837	028099-5741	235345
A889	130136	28142-87502-000	140360	028062-7081	231731	028099-6011	136313
A948	130137	28142-87504-000	140602	028063-0011	132895	028099-6180	140740
BBNG-5G	138390	28150-12030-000	131084	028063-0030	135474	028099-6200	133354
F523	138783	28150-12031-000	131084	028063-0040	132895	028099-6230	139037
F564C	133018	28150-15011-000	131807	028065-0010	137976	028099-6260	132866
NC7-17	230368	28150-15012-000	131807	028065-0100	137976	028099-6300	132866
NC7-7	230369	28150-22011-000	130814	028065-0250	232594	028099-6310	139654
NS85-8Z1	139730	28150-24010-000	231997	028065-0290	232594	028099-6390	230744
NU11-5T1	139714	28150-24061-000	130814	028065-0300	232594	028099-6400	230744
		28150-25010-000	130814	028099-0770	140362	028099-6401	230744
		28150-25032-000	130814	028099-2520	230744	028099-6410	230744
<b>CHRYSLER</b>		28150-31050-000	131084	028099-2600	139037	028099-6411	230744
480428	130536	28150-33020-000	130814	028099-2601	139037	028099-6420	230744
1692659	232905	28150-34070-000	130814	028099-2620	140362	028099-6430	230744
1889799	232905	28150-37010-000	131807	028099-2628	140362	028099-6431	230744
2075553	131392	28150-41011-000	130814	028099-2670	140362	028099-6432	230744
2084091	232837	28150-56011-000	137033	028099-2680	132567	028099-6433	230744
2084666	132741	28150-87203-000	130814	028099-2690	133601	028099-6470	230744
2095122	130536	28150-87205-000	133723	028099-2691	133601	028099-6550	133356
2095137	CHX101P	28150-87305-000	230562	028099-2700	137293	028099-6580	136447
2095145	CHX101P	28150-87505-000	133723	028099-2700	137293Z	028099-6590	136313
2095219	131413	28150-87506-000	133723	028099-2770	140362	028099-6600	135383
2095397	130536	28150-87601-000	230562	028099-2790	132564	028099-6790	132635
2095410	140186	28150-87701-000	131807	028099-2791	132564	028099-6820	132568
2098360	130493	28150-87714-000	138183	028099-2820	132567	028099-6890	230744
2098986	140186	28150-87716-000	138183	028099-2920	132568	028099-7100	132564
2098987	140194	28150-87719-000	138183	028099-2921	132568	028099-7120	132564
2275249	CHX101P	28160-64040-000	137978	028099-2940	132004	028099-7140	132564
2275550	CHX101P	28226-72080-000	139495	028099-3000	139495	028099-7170	140364
2275553	131392	28251-87701-000	139455	028099-3001	139495	028099-7171	140364
2275554	131392	28251-87702-000	136887	028099-3010	132568	028099-7202	139494
2444651	130536	28254-64040-000	233546	028099-3020	132568	028099-7210	135385
2444658	130536	28254-77090-000	138569	028099-3030	132567	028099-7212	135385
2525283	130552			028099-3031	132567	028099-7220	132568
2525287	130538			028099-3040	139495	028099-7230	135384
3180465	235422			028099-3041	139495	028099-7231	135385
3202630	130499	<b>DELCO REMY → REMY</b>		028099-3080	132043	028099-7240	139046
3204049	130499	<b>DENSO</b>		028099-3090	132043	028099-7242	139046
3205022	130499	142067	142067	028099-3110	135310	028099-7520	233689
3225629	130493	237550	237550	028099-3130	134806	028099-7530	136621
3226629	235422	237978	237978	028099-3150	138155	028099-7560	138124
3556382	140187	239078	239078	028099-3160	132565	028099-7590	139654
3656382	140187	333422	333422	028099-3170	133599	028099-7750	139532
3755085	130536	021200-2120	132796	028099-3210	133355	028099-7751	139532
3755267	131393	021200-3251	135590	028099-3230	132865	028099-7752	139532
3755661	233672	021605-0490	235256	028099-3270	133353	028099-7800	139494
3837337	131393	021660-0440	132570	028099-3290	132865	028099-7812	139494
3874817	140187	021660-0441	132570	028099-3310	132405	028099-7880	136088
3932813	131393	021660-0442	132570	028099-3380	135003	028099-8590	136313
3932814	232837	028000-0085	130441	028099-3390	132568	028099-8672	132567
4091920	131220	028017-0050	135127	028099-3400	132044	028099-8701	132567
4094174	130536	028017-0060	135475	028099-3430	140396	028099-8911	233689
5006626	133428	028017-0070	135127	028099-3510	140363	028099-8940	233689
5206607	139212	028017-0110	135128	028099-3550	140976	028099-8960	139532
5206626	133428	028021-0063	136175	028099-3560	140361	028099-8961	139532
5213077	139212	028021-0230	233553	028099-3570	140361	028099-9130	135384
5234382	136888	028021-0291	133716	028099-3780	132564	028099-9131	135384
8133925	131590	028021-0310	136175			028099-9701	237531
CH1411	140194					028100-2450	135749
CH1414	140187						

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>							
028100-2540	135749	028200-1900	132869	028300-1831	131090	028300-5450	233451
028100-2641	135749	028200-2010	135824	028300-1840	132863	028300-5460	136445
028100-2751	137350	028200-2120	132796	028300-1841	132863	028300-5490	132864
028100-2881	135750	028200-2140	134369	028300-1842	132863	028300-5650	138566
028100-2882	135750	028200-2230	132553	028300-1930	130442	028300-5651	138566
028100-3001	135751	028200-2290	135853	028300-1950	130442	028300-5670	138566
028100-3002	135751	028200-2320	134370	028300-1951	130442	028300-5671	138566
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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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028301-0220	230857	028501-1240	138156	028531-0350	140359	053400-3010	231997
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028410-5040	139829	028530-1020	140566	053400-2440	130814	053400-5000	134933
028452-5010	139049	028530-1021	140566	053400-2520	137567	053400-5001	134933

## STARTER PARTS

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>							
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053400-5240	131807	053400-9922	230580	128400-1861	137079	153400-3501	235375
053400-5250	134933	053400-9930	230580	128400-3470	136572	153400-3503	235375
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053400-6321	230488	053480-7790	230898	128401-8620	230899	153400-6520	230582
053400-6380	234661	053480-7900	231626	128800-3140	230386	153400-6640	230576
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053400-9571	137566	128099-5350	234911	153400-2080	230576	949042-3741	231627
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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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949100-5230	140222	60116	131797	601476	B140040	680566	131009
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949100-6070	140222	60567	USX50-514	605028	130432	680589	131083
949100-6080	140222	60846	130424	605055	130432	680642	131006
949102-0070	140777	60991	130425	605670	131006	680663	130432
949103-0390	141237	68412	140040	605751	131006	680952	131208
949103-0540	140325	68412	B140040	605754	131006	680954	131006
949103-1320	140325	68430	140043	605999	132171	680955	131208
949103-1660	141238	68430	B140043	606082	130171	680958	133122
949103-2020	140325	68763	140667	606387	235769	681378	130424
949103-2420	140778	68902	140043	606415	131188	681380	130434
949103-3160	140333	68902	B140043	606416	130434	681397	130422
949103-3160	B140033	68903	140043	606753	131009	681398	132078
949103-3600	140424	68903	B140043	606834	131006	681411	131010
949103-3610	140425	072083	235088	606858	131010	681438	131797
949103-3840	140426	073811	235088	606892	131010	681774	131006
949103-3840	B140426	74042	USX64-652	606893	131009	681873	132185
949103-3850	140427	074043	USX64-652	606894	131010	681878	132185
949103-4320	140965	75217	USX64-652	606896	131797	681898	131596
949103-4330	140792	75226	USX73-852	606903	131010	682102	131010
949103-4340	141011	75238	USX73-852	606906	131006	682104	131006
949104-0990	140788	075244	USX64-652	606910	131006	682106	131006
949105-0100	140767	078042	USX64-652	606913	131010	682108	131006
949105-0110	140768	079238	235088	606916	131208	682110	131006
949105-0160	140767	079240	235088	606919	131208	682115	131010
949105-0200	140767	079325	USX50-512	606923	131006	682150	130432
949120-0240	132894	79692	130434	606924	131006	682215	132344
949140-3440	133717	82775	140064	606925	131006	682244	131007
949140-3680	138433	82775	B140064	606927	131797	682496	133158
949140-3700	132892	84909	140043	607084	USX76-77-78	682685	132184
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949140-5670	133717	87880	140068	607918	131007	683117	132197
949150-1050	135851	87880	B140068	608299	132241	683186	131006
949170-3371	137858	94909	140257	608407	131007	683262	133122
949170-3380	135342	94909	B140257	608818	USX76-77-78	683334	132170
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949170-4070	138608	98888	140038	609592	USX73-852	683456	133122
949170-4260	135344	98888	B140038	609778	USX73-852	683457	133122
949170-9100	133710	581381	131007	611318	231749	683487	133120
949170-9770	135342	583007	131010	611509	132633	683507	131006
949173-0461	132887	583036	131013	611634	131006	683522	133123
949173-0571	132551	583041	USX91-922	611734	131188	683523	133123
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		583261	133120	618136	131010	777265	131208
		583262	131006	618142	130171		
		583277	132181	618206	130176		
		583289	132181	618220	131208		
		583298	132643	618242	132171		
		583302	132622	618283	131006		
		583307	132182	618480	131010		
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		583330	133121	618509	USX50-514		
		583331	133120	618511	131010		
		583333	133122	618539	USX76-77-78		
		583335	133123	618570	USX682		
		583336	132181	618686	133221		
		583342	133899	618687	130949		
		583344	134652	618691	USX91-922		
		583348	140533	618692	USX91-922		
		583357	132632	618695	131009		
		583363	132633	618702	131797		
		583372	140543	618744	131021		
		583486	133121	618747	131006		
		583512	133662	672541	140050		
		583618	133120	672541	B140050		
		584185	135389	680480	132241		
		600609	140042	680549	USX50-512		
		600609	B140042	680558	133177		
		600628	140042	680559	131009		

**DUCELLIER**

**EFEL**

Cross reference list

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO		
<b>EFEL</b> <i>Continued</i>									
08640	130299	10621	133507	17061-26	131716	4145751	130737		
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08643	131450	10631	131429	17061-28	131088	4153587	130361		
09185	130293	10632	133545	17061-3	130737	4154106	130367		
09200	140110	10633	133545	17061-8	130730	4154272	130368		
09203	140109	10639	133507	17127-1	130360	4154273	130369		
09351	138927	10640	131481	17181-2	130359	4154276	130370		
09400	130373	10641	230911	24460-M8011	231001	4154293	130738		
09453	131499	10641	230911Z	25159-1	132724	4155775	132773		
10613	131429	10647	131768	30430-1	130377	4169942	140109		
11400	130477	10648	131766	32138-1	133873	4169954	140110		
11586	131185	10672	232228	32688-1	132272	4169960	130739		
11586	333293	480079	131399	3305-10	140436	4171243	130373		
11586	333635	480098	133546	3305-10	B140436	4174892	JSX184		
11850	131184	480118	131056	3305-13	140156	4185546	134122		
12310	131790	480135	132731	3305-2	140043	4185547	JSX194		
12320	131053	480168	133864	3305-2	B140043	4189399	132202		
12320	333143	480197	130535	3305-3	140064	4189658	130377		
12490	131141	480204	131399	3305-3	B140064	4199658	131437		
12490	333144	480216	130535	3305-40	140065	4202983	130360		
12670	131370	480217	131767	3305-40	B140065	4202988	130737		
12680	131371	480315	133546	3305-44	140014	4226442	130739		
12680	333156	480320	131768	3305-44	B140014	4240449	131220		
12690	333152	480321	130539	3305-56	140043	4243124	130738		
12690	131372Z	480321	130539Z	3305-56	B140043	4249166	130737		
12700	333153	480322	132731	3305-69	140004	4255494	130360		
12700	131373Z	480324	131767	3305-71	140020	4255496	JSX162		
36505	131253	480410	232632	3305-71	B140020	4259228	JSX52		
36510	131254	480411	131056	3305-74	140010	4262294	130355		
36625	131080	480414	231970	3305-74	B140010	4262329	130945		
36630	130492	480417	131770	3305-89	140014	4267879	130377		
72006	138927	480427	130535	3305-89	B140014	4275899	130377		
79273	131453	480436	130535	33804-1	133873	4287975	130945		
80274	131453	480438	130536	3835-38	140269	4287980	130740		
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85215	140197	480466	136318	9586-1	130920	4301320	131779		
85222	140198	480467	132694	<b>FIAT</b>				4309853	130848
<b>ELMOT</b>								4469693	132782
8083006	130945	480468	131769	637403	140046	4474560	132773		
8084046	JSX52	480474	131399	850203	134643	4474695	130739		
8084316	140050	480476	133864	850208	140065	4474964	130373		
8085316	234715	481999	130535	850211	140221	4475032	130739		
8087006	130740	E480320	131768	851075	130539	4475085	131437		
8087186	132202	E480321	130539	851075	130539Z	4475093	131437		
8088006	130848	E480322	132731	852763	130539	4475095	131437		
8097002	133841	E480324	131767	852763	130539Z	4475122	130738		
8121200	136710	E480410	131766	853160	JSX94	4475182	130370		
8183000	136708	E480413	132732	879894	130347	4475185	JSX134		
8187000	136709	E480417	131770	879898	130437	4988517	131930		
9084020	140046	<b>FAG</b>		883323	135644	4988518	231330		
9084040	JSX134	16009	140649	908431	140050	5483624	132268		
9085020	140049	60002RSRC3	140271	4007952	140046	5526426	132268		
9087000	132075	6000C2HRS	140271	4007972	140046	7980335	131112		
9089060	132122	6082RSC3	140222	4019145	139134	7980336	131115		
9140010	133840	<b>FEMSA</b>		4045771	JSX134	7984628	134670		
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9244000	131437	3550	131714	4059387	130735	8122126	333175		
9540000	131437	4059435	130735	4059435	130735	8122126	130418Z		
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9610100	133096	4073339	130361	4073339	130361	8997805	130301		
8020011200	136710	10332-9	131437	4073386	JSX204	8997805	333168		
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8020067000	136709	13784-27	BSX124	4073420	132122	9003925	132049		
8050018000	133096	13784-29	BSX444	4073993	131779	9004229	130418		
8060014040	BSX964	13784-37	JSX162	4106093	131220	9004229	333175		
WE10A	133096	13784-5	JSX52	4109225	130355	9004229	130418Z		
<b>FACET</b>								9004794	130417
10016	131220	13784-59	JSX134	4111194	130439	9006208	130477		
10061	130542	13784-68	JSX52	4113524	130347	9008720	130325		
10527	130540	13784-7	JSX134	4114431	140048	9008721	130325		
10528	130538	13784-83	BSX444	4114432	JSX162	9009423	130281		
10530	138128	13784-84	FESX25-262	4114442	140047	9011087	130328		
10531	131769	14898-1	130449	4120548	130945	9018546	140020		
10533	133545	15053-4	131713	4141057	132075	9018718	130417		
10540	130538	17061-10	130738	4141355	134641	9817132	131141		
10583	131770	17061-12	130731	4141358	134643	9817132	333144		
10612	132695	17061-14	130737	4141881	130359	9817926	130301		
		17061-18	131089	4142225	130360	9817926	333168		
		17061-2	130730	4142235	130737	9817926	130301Z		
		17061-25	131064	4142558	130361				

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9918339	140010	9939194	131998Z	832220411	JXS33-344	C6VY11350A	130535
9918356	130297	9939837	133841	9935196/97	MASX17-184	C6VY11350A1	130535
9918361	130970	9939915	132119			C7AF11350A	130535
9918362	130968	9940019	131589	<b>FORD EU → FORD</b>		C7AF11350A1	130535
9920328	130130	9941300	230757	<b>FORD US → FORD</b>		C7AF11450A	130493
9920368	131773	9941301	132249	<b>FORD</b>		C7NB11350	133546
9920661	130130	9941306	134859			C7NB11350A	133546
9920672	131107	9941307	133567			C80F11350A	131399
9920672	333540	9941308	133566			C8DF11350A	130539
9920699	130283	9941324	132820			C8DF11350B	131399
9920699	333162	9941371	132818			C8DF11350G	131399
9923722	130325	9941371	132818Z			C8JF11350A	130535
9923764	140140	9941461	133083			C8JS11350A	133854
9923779	130417	9941467	132187			C8OF11350A	131399
9923794	130281	9941642	132188			C8TZ11350A	131770
9924342	130328	9941751	131715			C8TZ11350B	131056
9924764	140140	9941845	139220			C8TZ11350D	131056
9925687	130281	9942333	133566			C8VF11350A	130535
9925774	140046	9944575	139104			C8VF11350B	130535
9926095	130301	9945556	135717			C8VF11350B1	130535
9926095	333168	9945557	137190			C8VF11350D	130535
9926095	130301Z	9945630	137191			C8VY11350A	130535
9926113	130970	9946913	135117			C8VY11390A	131396
9926496	130939	9947748	138985			C8WF11350A	131770
9926496	333140	9947748	138985Z			C9FF11350A	133864
9927593	130282	9947959	230809			C9FF11350B	133864
9927783	140202	9948135	139902			C9HE11350A	130539
9927785	130216	9948346	135717			C9HE11350A	130539Z
9927787	140200	9955125	130301			C9HZ10350A	130535
9927789	140202	9955125	333168			C9HZ11350A	130535
9927791	MASX13-144	9955125	130301Z			C9WF11350C	131056
9927792	MASX13-144	9956426	130946			DOAF11052A	140188
9927796	140201	9956524	133970			DOAF11135B	140844
9928448	MASX15-164	9956549	131680			DOAZ11135A	140192
9928450	130386	9956550	131670			D1AZ11059A	132741
9929078	130830	9956552	MASX17-184			D1RY11350B	131399
9929080	MASX15-164	9956556	MASX17-184			D1RY11350C	131399
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9930715	130301	9956666	333144			D20Z13304A	131442
9930715	333168	9957705	131112			D2DZ11450A	130493
9930715	130301Z	9957707	131109			D2RY11350B	131399
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9932507	130215	9959560	130301			D3TZ11390A	131396
9932508	130216	9959560	333168			D4HF11350BA	130539
9932916	140048	9959560	130301Z			D4HF11350BA	130539Z
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9933236	130386	9959805	130302			D4RY11350A	131399
9935727	131437	9959805	333137			D5AF11350AA	130535
9935731	131109	9959805	130302Z			D5AZ11390A	131396
9935940	140256	9959806	132254			D6AF11448AA	140242
9935948	130737	9959806	333151			D6AZ11135A	140242
9936042	131668	9981246	130946			D6EF11350BA	131399
9936044	140268	9983635	131138			D6EF11350AA	131399
9936049	130737	9984108	132254			D6FF11350AA	133864
9936050	132188	9984108	333151			D6GF11350BA	131399
9936594	130475	9984246	130418			D6GF11350AA	131399
9936623	132227	9984246	333175			D6PF11A108BA	130535
9936627	139133	9984246	130418Z			D6PZ11350A	131399
9936660	131143	9986109	131115			D6PZ11350B	130535
9936660	333147	9986112	131109			D6TZ11390A	130499
9936671	131101	9986144	131112			D6VZ11390A	131396
9936671	333519	9986329	139131			D7AZ11057A	140548
9936770	131112	62165801	MASX23-244			D7AZ11059A	132742
9936772	131109	72362701	134681			D7AZ11061A	132739
9936996	131715	77365121	330495			D8AF11055BA	140548
9937207	131716	79081045	132821			D8AF11056AA	140548
9937419	131716	82187534	140014			D8AF11059A	132742
9938231	134017	85541030	138167			D8AF11061AA	132739
9938235	132188	85541050	139900			D8AZ11060A	233027
9938328	132187	85541070	138531			D8VY11450A	231930
9938364	140269	85541080	138533			D9AZ11450A	130493
9938368	140269	90062082	233734			D9PZ11350A	131399
9938390	132228	90117304	135645			E0Z211390A	136632
9938442	230325	99036046	134291			E1HZ11390A	131363
9938503	131437	832220401	JS33			E1PZ11350B	131399
9938576	131437	832220401	JS34				
9939127	132263	832220401	JXS33-344				

## STARTER PARTS

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>FORD Continued</b>							
E2BZ11350A	132751	F2VY11130A	232583	SB356	136635	<b>GENERAL MOTOR</b>	
E2NN11390AA	133043	F2VY11350A	231960	SB417	132917	90421722	136255
E2PZ11350A	132751	F3RZ11061A	136635	SBE324	133339	90421772	136255
E3PZ11062A	135338	F3RZ11130A	231152	SBE325	135467	<b>HARLEY DAVIDSON</b>	
E3PZ11390A	131590	F3RZ11130B	231153	SBE334	135467	71469-65A	231811
E3RZ11390A	138496	F3RZ11130C	231210	SBE345	135467	71469-65B	231811
E3TZ11390A	132473	F3RZ11350A	138209	SBE351	231460	71469-77A	231811
E4FF11055AA	140548	F3RZ11390A	138496	SD152	130535	71469-77B	231811
E4FZ11005A	234346	F3RZ11390B	138496	SD164	130535	<b>HELSELMAN</b>	
E4FZ11135A	140242	F3VY11390A	136632	SD175	130535	SW80-753PEE	138685
E4FZ11390A	131590	F3VY11390B	136632	SD176	130535	<b>HINO</b>	
E4TZ11390A	139614	F4BZ11061A	135467	SD180	131770	28011-1350	136512
E4TZ11N004A	139648	F4BZ11350A	132005	SD301	131399	28011-1460	136511
E5AZ11450A	231930	F4BZ11350A	132005Z	SD302	130535	28111-1130	140835
E5DZ11350A	136633	F4BZ11350B	134918	SD303	133854	28111-1180	140520
E5PF11061A	133339	F4DZ11390A	136632	SD312	132749	28111-1330	140832
E5PF11434AA	133339	F4TZ11005A	139352	SD313	131399	28111-1370	140836
E5PZ11005A	139646	F4TZ11049A	232491	SD320	132751	28120-1370	136525
E5PZ11049A	232490	F4TZ11061A	231460	SD327	231962	28120-1390	138969
E5PZ11067A	231155	F4TZ11091A	231460	SD337	136633	28120-1400	136524
E5PZ11130B	232488	F4TZ11363A	231456	SD340	231961	28140-1280	136529
E5PZ11390A	139614	F4TZ11390A	231457	SD341	231960	28140-1290	136528
E5TZ11049A	133338	F4TZ11K192A	231461	SD353	138209	28142-1080	140822
E5TZ11450A	232220	F4XY11005A	231471	SD357	136633	28142-1120	140823
E6EF11350AA	231962	F4XY11067A	135468	SD499	131986	28142-1310	140829
E6FZ11350A	231962	F4XY11390A	231454	SDE332	132005	28142-1360	140828
E6HZ11350A	133507	F5BU11350AA	139710	SDE332	132005Z	28144-77090	140361
E6HZ11390B	131369	F5BU11350AA	139710Z	SDE334	134918	2814C-46013	140358
E6HZ11390C	131369	F5DZ11350A	136633	SDE339	139609	28150-1452	136523
E7GZ11061A	135467	F5RU11350RA	138209	SDE349	132005	28150-1560	137280
E7GZ11350A	132005	F5RZ11A198A	231377	SDE349	132005Z	28150-2120	234662
E7HZ11390B	139209	F5RZ11A201A	231143	SDE350	134918	28160-1430	136517
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E8BZ11350A	134918	F6VZ11390AA	231178	SE324	232583	28160-1551	234108
E8PZ11350A	139609	F75U11070AA	136636	SE350	231152	28180-1240	136174
E8TZ11450B	231930	F75Z11390AA	231179	SE351	231153	28180-1250	136174
E8TZ11450A	231930	F78Z11390AA	138496	SE352	231210	28180-1251	136174
E90F11448BA	140620	F7RE11A165CA	231347	SH220	231142	28180-1260	136171
E90F11A67AA	136641	F7RU11056AB	140955	SH222	131142	28180-1270	136173
E90Z11005A	136634	F7RU11075AA1	230740	SH223	231142	28180-1330	136170
E90Z11049A	231142	F7RU11165CA	136638	SM256	235633	28180-1341	136174
E90Z11061A	136635	F7RU11434BA	230741	SM315	235633	28180-1390	234544
E90Z11061B	136635	F7RU11434BA	333651	SM461	139352	28180-1532	234662
E90Z11061C	136635	F7RU11A160AB	230743	SM475	136634	28180-2120	234662
E90Z11067A	136636	F7RU11A165CA	231347	SM476	136638	<b>HITACHI</b>	
E90Z11075A	231145	F81U11434AA	232670	SM482	231138	330150	330150
E90Z11135A	140842	F8ZZ11390AB	231179	SW03	130493	94021408	140334
E90Z11350A	136633	F8ZZ11390BA	231179	SW1162	133856	94021409	140334
E90Z11390A	136632	F8ZZ11390AA	231179	SW1533	231930	1811-1631	140340
E90Z11390B	136632	F90Z11350A	136633	SW1533A	231930	2106-1601	140309
E90Z11A165A	136638	FAC11005B	235633	SW1533C	231930	2108-1821	140805
E90Z11A167A	136640	FAS10005B	235634	SW1864	131590	2108-2305	140340
E90Z11A172A	135574	GM20	235634	SW1951A	232220	2108-2306	140340
E90Z11K190A	136641	GM218	235634	SW1951B	232220	2108-4305	140340
E90Z11K190A	136641	MC12	140189	SW1951C	232220	2108-4306	140340
E90Z11005A	136634	MC189A	140242	SW2114	231914	2108-4823	131800
E90Z11061A	136635	MC206	140192	SW2157	139209	2108-6305	140340
E90Z11061B	136635	MC209	140192	SW2188	136632	2108-6306	140340
E90Z11061C	136635	MC209A	140844	SW2207	136632	2108-75002	136208
E90Z11075A	231145	MC220	140188	SW2245	136632	2108F-3500	136208
E90Z11350A	136633	MC244	140188	SW2502	136632	2108-F3500	136208
E90Z11A165A	136638	MC3	140188	SW2502A	136632	2114-11003	135845
E9TZ11450A	231930	MC442	140842	SW2506	138496	2114-11006	137337
ETTZ11450A	231930	MC445	141075	SW2507	138496	2114-11100	230201
F0Z211390A	136632	MC93	140193	SW5038	136632	2114-11109	234797
F0FZ11350A	231961	MCE439	140555	SW5112	231178	2114-11111	137948
F0FZ11K190A	231154	MCE443	135574	SW5189	231179	2114-12108	135828
F0JY11135A	140758	MCE444	140758	SW5203	231178	2114-13123	140786
F0TZ11130B	232576	MS519	132742	SW5204	138496	2114-13123/83121	140786
F0TZ11355A	136637	N807790S36B	230795	SZ592	232945	2114-1315	140335
F0TZ11355H	136637	SA748	234346	SZ628	234294	2114-1316	140338
F1DU10576A	136250	SA749	234346	SZ693	233022	2114-1352	140315
F1RU11A160AB	230743	SB117	132739	SZ749	233027	2114-1353	140870
F2PZ11005A	136634	SB177	132739	SZE888	231456	2114-1353	B140870
F2PZ11049A	231142	SB331	136635	XC1U11005AA	230739		
F2TZ11005A	231138	SB335	136635	XS6411350AA	138209		
F2TZ11049A	231142	SB337	136635	XS6U11390AA	138496		
F2TZ11049B	231142	SB348	136635	XS7U11390AA	138496		
F2TZ11135A	141075	SB353	136635				

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
2114-14100	137829	2114-26607	137830	2114-43001	231303	2114-55003	132449
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2114-1452	140306	2114-27006	132915	2114-43125/53125	140852	2114-55015	132002
2114-15002	132447	2114-27008	135877	2114-43125/63125	140852	2114-5502	132459
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2114-15017	236418	2114-27505	139833	2114-43127/33127	142333	2114-55508	132003
2114-15100	131988	2114-27602	232487	2114-4313	140334	2114-55550	132459
2114-15502	140222	2114-27608	139784	2114-4313/8312	140334	2114-55552	132459
2114-15503	132311	2114-27613	138957	2114-43133	140334	2114-56012	134745
2114-15504	131988	2114-27617	235852	2114-4314	231298	2114-56013	134746
2114-15507	135091	2114-28012	134477	2114-4317	138709	2114-56503	138154
2114-15507	135091ZZ	2114-29003	140336	2114-44101	140927	2114-5661	140310
2114-15508	132448	2114-29006	133611	2114-44101	B140927	2114-5661	B140310
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2114-15550	131986	2114-31009	132454	2114-45004	131783	2114-57004	131800
2114-15554	132003	2114-31100	137119	2114-45007	131783	2114-57503	132093
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2114-1601	140311	2114-31200	235337	2114-45013	132002	2114-57506	133045
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2114-1657	134739	2114-33001	132424	2114-45019	135059	2114-57610	231996
2114-16602	230638	2114-33101	132424	2114-4502	132459	2114-57616	132094
2114-17005	132093	2114-33102	137454	2114-45100	231804	2114-58008	139568
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2114-17505	132093	2114-33122	140334	2114-45504	131986	2114-58503	137947
2114-17602	132093	2114-33122/43133	140334	2114-45508	136144	2114-59002	140338
2114-17606	132094	2114-33123	140338	2114-45511	140222	2114-59002/6315	140338
2114-17612	139784	2114-33127	140922	2114-45550	132459	2114-59002/69002	140338
2114-17616	132094	2114-33127	142333	2114-46012	230866	2114-59003	140933
2114-18101	137933	2114-33127/43127	140922	2114-4661	140310	2114-5963	135975
2114-19003	140336	2114-33127/43127	142333	2114-4661	B140310	2114-61005	134121
2114-19003/29003	140336	2114-3315	140336	2114-47001	131144	2114-61103	135649
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2114-21100	138701	2114-33504	230487	2114-47007	132093	2114-61300	137120
2114-21105	137321	2114-34102	138706	2114-47009	132698	2114-62101	135918
2114-21111	137948	2114-35016	235004	2114-47503	132094	2114-63104	137121
2114-22103	137322	2114-35500	132459	2114-47504	132421	2114-63104	333647
2114-22540	131987	2114-35502	140226	2114-47505	136397	2114-6312	140341
2114-23003	132424	2114-35506	132001	2114-47507	132698	2114-63121	140786
2114-2302	140308	2114-35507	133445	2114-47606	132093	2114-63121/83121	140786
2114-23103	137653	2114-35511	140225	2114-47610	138364	2114-63123	140786
2114-23104	137750	2114-35550	132459	2114-47612	231910	2114-63123/83121	140786
2114-23106	137121	2114-35551	136228	2114-48012	134477	2114-63124	140334
2114-23106	333647	2114-35556	233967	2114-4862	134477	2114-63124/83124	140334
2114-23123/33123	140338	2114-3601	140314	2114-49007	132090	2114-63125	140852
2114-23124	140933	2114-3601	B140314	2114-51004	234797	2114-63126	140953
2114-23124/6313	140933	2114-36013	134744	2114-51005	138959	2114-6313	140336
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2114-2313	140341	2114-37003	132058	2114-51106	134121	2114-64102	137934
2114-2315	140336	2114-37005	133054	2114-51108	134662	2114-65001	131085
2114-2315/6313	140336	2114-37502	133054	2114-51300	137948	2114-65004	131086
2114-2317	138709	2114-37503	132094	2114-52003	133652	2114-65008	133041
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2114-24102	138705	2114-37505	132093	2114-52507	137831	2114-65013	135888
2114-25004	131987	2114-37506	231910	2114-53001	132424	2114-65509	137752
2114-25014	132002	2114-37602	132093	2114-53003	132424	2114-6601	140314
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2114-25502	140225	2114-37673	138170	2114-53105	333647	2114-67002	132420
2114-25504	131987	2114-38007	135953	2114-5312	140336	2114-67006	132058
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2114-25509	135059	2114-39008	137750	2114-5312/8313	140334	2114-67504	133054
2114-25511	140225	2114-39505	139664	2114-53126	140953	2114-67505	132094
2114-2553	132459	2114-3963	135975	2114-53126/63126	140953	2114-67605	232200
2114-25540	133360	2114-40076	132058	2114-5313	140334	2114-67610	135287
2114-25550	132001	2114-4100	137120	2114-5352	140311	2114-68100	138708
2114-25554	138958	2114-41001	135724	2114-5352	B140311	2114-69002	140338
2114-26015	137533	2114-41100	137120	2114-5360	133333	2114-69002/59002	140338
2114-26300	231852	2114-41106	137119	2114-54102	137935	2114-69007	139986
2114-2657	134739	2114-42507	139167	2114-55002	140222	2114-69008	132090

Cross reference list

## STARTER PARTS

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>							
2114-6963	135975	2114-87503	136397	2120-1312	140376	2130-25001	131985
2114-71001	138959	2114-87504	132094	2120-1450	231302	2130-25002	131985
2114-71005	132454	2114-87505	132094	2120-15501	133361	2130-25005	137277
2114-71008	134662	2114-87507	132094	2120-1605	135833	2130-2501	133042
2114-71103	133849	2114-87601	138366	2120-25001	131985	2130-2503	135010
2114-71104	132454	2114-87603	231910	2120-25002	131985	2130-25032	135010
2114-71108	132454	2114-87611	138366	2120-2601	140316	2130-2509	135188
2114-71109	230758	2114-88004	231391	2120-2601	B140316	2130-26007	234479
2114-7155	133609	2114-88100	137932	2120-2700	234555	2130-2601	140313
2114-72005	133652	2114-88101	137933	2120-27002	131431	2130-2601	B140313
2114-72106	139073	2114-88504	230246	2120-3312/2130-3311	140595	2130-2610	137541
2114-72125/83123	140986	2114-89001	132424	2120-3500	131984	2130-26100	235658
2114-72507	138505	2114-89007	132090	2120-35001	131984	2130-2615	139276
2114-73105	137121	2114-91001	133031	2120-37002	131431	2130-27001	132059
2114-73105	333647	2114-91008	132454	2120-37003	131431	2130-27003	133047
2114-73122	140786	2114-91104	134121	2120-4259	135727	2130-27006	135008
2114-73123	140986	2114-92506	138704	2120-4302	140318	2130-2914	235313
2114-73123/83123	140781	2114-93007	231303	2120-4311	140376	2130-2915	135722
2114-73125	140986	2114-93101	133332	2120-4401	140317	2130-3100	132457
2114-73125/83123	140986	2114-93102	137750	2120-4401	B140317	2130-31002	132456
2114-73126	140986	2114-93104	139166	2120-45001	133266	2130-31003	132798
2114-74100	138711	2114-93121	140933	2120-45002	131985	2130-31004	137092
2114-75001	131783	2114-93121/13123	140336	2120-47002	131431	2130-33012	137834
2114-75005	132447	2114-93121/83121	140336	2120-5305	132425	2130-3302	140227
2114-75008	132459	2114-93122	140786	2120-5312/7311	140376	2130-3311	140595
2114-75014	332138	2114-93122/83121	140336	2120-55002	131985	2130-3315	140379
2114-75100	233120	2114-9314	231298	2120-57002	131431	2130-3451	140457
2114-75502	140226	2114-9352	140311	2120-6312/2130-7311	140377	2130-35001	131984
2114-75509	135364	2114-9352	B140311	2120-6312/8311	140377	2130-35004	133437
2114-75562	235485	2114-95002	131086	2120-67002	131431	2130-35008	230556
2114-76013	134749	2114-95005	133360	2120-6810	233603	2130-35009	133605
2114-76015	137938	2114-95007	131852	2120-7311	140376	2130-3503	132003
2114-7657	134740	2114-95008	133445	2120-7312	140339	2130-3509	140222
2114-76611	230229	2114-95009	137707	2120-7312/9311	140339	2130-37003	131144
2114-77004	131144	2114-95014	137413	2120-7500	131984	2130-37004	133749
2114-77007	132698	2114-95015	230054	2120-75002	131985	2130-37005	138809
2114-77008	132421	2114-95501	133042	2120-7530	131984	2130-37008	133749
2114-77505	133044	2114-95502	140226	2120-7550	131984	2130-37010	235076
2114-77506	139784	2114-95505	133360	2120-8350	139165	2130-37011	235068
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2114-77607	139784	2114-95553	132001	2120-9311	140339	2130-41003	136248
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2114-79001	132090	2114-9601	140995	2120-97001	132059	2130-4102	132798
2114-81001	135093	2114-9601	B140995	2120M-5700Y	130811	2130-42101	234099
2114-8110	135478	2114-96014	137833	2120M-8700Y	130811	2130-43015	137836
2114-81107	137321	2114-9661	140660	2130-11001	137092	2130-4305	133334
2114-82003	138342	2114-9661	B140660	2130-1101	132456	2130-4311	140595
2114-82004	135828	2114-97004	131800	2130-1119	133608	2130-43111	140567
2114-82107	230062	2114-97503	131800	2130-12001	135101	2130-43112	140567
2114-82507	139788	2114-97509	133047	2130-13022	133730	2130-4312	140595
2114-83003	231106	2114-97601	139832	2130-1306	133730	2130-4312/7311	140595
2114-83102	137750	2114-97604	139784	2130-1310	140313	2130-4313	231285
2114-83105	139166	2114-97605	138823	2130-1310	B140313	2130-45002	132918
2114-8312	140334	2114-97612	138170	2130-13111	140379	2130-4502	132459
2114-83121	140933	2114-97615	132094	2130-13111/3315	140379	2130-46005	138613
2114-83121/73122	140786	2114-98100	137933	2130-13111/7312	140379	2130-46007	137835
2114-83121/83122	140934	2114-99001	133333	2130-1312	140595	2130-46102	234479
2114-83121/93122	140786	2114-99008	133333	2130-1312/3311	140595	2130-4615	137301
2114-83122/83121	140934	2114I-1700	133044	2130-1402	138121	2130-47001	131144
2114-83123	140986	2114M-4700Y	130811	2130-15005	135718	2130-47005	138739
2114-83124	140334	2114N-1150	130440	2130-1503	135271	2130-47008	139164
2114-83124/83121	140933	2114N-1550	130440	2130-15505	135718	2130-47009	230558
2114-83125	140852	2114N-1560	130440	2130-16006	230890	2130-47012	132059
2114-83126	140986	2114N-1750	130811	2130-16008	234479	2130-51002	132798
2114-8313	140336	2114N-3550	131783	2130-17002	132059	2130-51003	132798
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2114-85562	230464	2114-T7106	139784	2130-2119	133608	2130-5312/2250	140378
2114-8652	139175	2114-T7107	132094	2130-22001	231167	2130-5312/8311	140378
2114-8661	140311	2114-T7160	139784	2130-22102	135101	2130-5312/9312	140378
2114-8661	B140311	2114-T7208	138364	2130-2230	137303	2130-5313	231487
2114-8700	132058	2114-T7306	139784	2130-2306	133730	2130-5500	132453
2114-87002	131800	211N-4700Y	130811	2130-23111	140377	2130-55005	133266
2114-87003	131144	2120-1110	133607	2130-23112	140567	2130-5502	132459
2114-87004	131800	2120-1115	139665	2130-23112/73111	140567	2130-5503	138343
2114-87008	131144	2120-1311	140376	2130-2312	140595	2130-5509	140226



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
2130-56100	230665	2130-95007	135091ZZ	2250-37001	132423	31204-PC1-004	133675
2130-5615	137301	2130-96007	137835	2250-37005	132423	31204-PD1-003	134284
2130-57001	133047	2130-96101	235456	2250-37008	234869	31204-PD4-005	133044
2130-57003	138363	2130-97003	132093	2250-42002	134346	31204-PD4-0050	136397
2130-57004	133043	2130-97004	133749	2250-43015	133057	31204-PM3-J010M	137753
2130-57005	135370	2130-97008	133750	2250-4305	132425	31204-ZA0-003	133711
2130-57011	230558	2130-9820	230715	2250-4322	140337	31206-657-671	137350
2130-57012	133043	2140-1500	137277	2250-45003	132453	31206-HA0-0040	133715
2130-5820	139594	2140-15003	137277	2250-45004	133058	31206-P62-661	135790
2130-61002	137473	2140-1502	132459	2250-47002	132423	31206-PE0-005	133849
2130-61003	132798	2140-15026	132459	2250-47007	139851	31206-PR4-0030	136897
2130-61004	233886	2140-7700	235068	2250-52002	134346	31206-ZA1-003	133713
2130-62102	139176	2144-66500	231852	2250-5210	134346	31206-ZE3-0030	133706
2130-63015	230636	2144-83121	140336	2250-5310	133057	31207-634-005	131085
2130-63022	133730	2210-17002	233122	2250-5322	140378	31207-657-006	130441
2130-63112	140567	2210-31001	136189	2250-5323	140378	31207-657-671	132796
2130-6312	140597	2210M-5700	233122	2250-550	133266	31207-PC2-661	134370
2130-6312/9311	140597	2214-25550	132001	2250-55002	131985	31207-PR4-0030	136896
2130-6313	133731	2240-1310	133730	2250-5700	132914	31207-PA1-003	133714
2130-65001	132450	2240-1311	140379	2250-57003	230697	31207-ZA1-033	133714
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2130-65006	235501	2240-1312	140379	2250-6105	132847	31208-657-300	140362
2130-65008	135091ZZ	2240-1314	231487	2250-6150	132458	31208-657-671	140362
2130-6502	132459	2240-1501	139843	2250-62002	134346	31208-P0G-A01	232311
2130-6700	132059	2240-1511	233438	2250-6323	140378	31208-PC2-671	133661
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2130-72102	139165	2240-2500	139841	2250-7310	133057	31210-POA-0030	234879
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2130-73022	133730	2240-2700	235814	2250-77006	139851	31210-P2A-901	230018
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2130-7312	140379	2240-3615	231286	2250-85004	132453	31210-P2J-J61	232003
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2130-77005	133750	2240-6501	234866	2250-M4700	132914	31210-PE0-6620	230488
2130-77008	139164	2240-6901	231391	2270-3100	133056	31210-PE1-171	133076
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2130-82101	135101	2240-8500	139841	2280-1312/1313	141023	31210-PO1-0030	230488
2130-8220	234099	2240-9500	139841	2280-3500	133266	31210-POA-0030	234879
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2130-8312	140377	2250-1324	140337	2310-31001	136189	31210-PT0-01	137023
2130-8313	133731	2250-1451	140495	23319-M0111	140320	31210-PT0-9050	138009
2130-85003	133605	2250-17002	132423	23378-10G100	133730	31210-PA-A02	232004
2130-85004	133605	2250-17005	139851	2608-8401	140312	31211-PC2-661	136887
2130-8502	233887	2250-17007	234556	3130-2610	137541	31211-PH9-004	140602
2130-8503	230557	2250-21001	133056	3130-72103	139165	31212-PH9-004	133810
2130-8700	133043	2250-23015	133057	6000J	140271	31213-ZE2-0030	139455
2130-87005	135008	2250-2323	140337	GSB107-1100	235632	31215-634-005	140336
2130-87007	132093	2250-2323/4322	140337			31215-657-006	135127
2130-87008	139164	2250-25002	131985	<b>HONDA</b>		31215-ZA1-003	140566
2130-91002	132798	2250-25003	133058	21231-ZE2-0030	133709	31215-ZA1-013	140566
2130-9210	135101	2250-25004	133058	30202-PH9-004	136088	31215-ZE2-0030	140570
2130-92102	135101	2250-27002	132914	31202-ZA1-003	133716	31216-634-005	140336
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2130-9305	133730	2250-3113	138743	31203-PE0-661	134503	31218-ZG4-801	135802
2130-9311	140597	2250-32001	134346	31203-PH9-004	133812	31219-ZE2-003	133710
2130-9312	140378	2250-3323	140378	31204-634-005	131800	31220-P5A-005	231983
2130-9500	133361	2250-35001	131985	31204-634-670	132058	31220-PY3-024	231983
2130-95003	133606	2250-35002	131984	31204-634-671	132058	31231-671-0050	133332
2130-95007	135091	2250-35004	131985	31204-PA5-911	133675	31231-PA0-060	140363
		2250-3601	140489	31204-PA5-991	133675	31231-PD4-0050	133333

## STARTER PARTS

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
1-81151047-0	132495	8-94170206-0	135790	FBH-31	140310	JASX74	140567
1-81151048-0	132495	8-94170207-0	134370	FBH-32	140311	JASX74-75	140379
1-81151054-0	133047	8-94170213-0	136887	FBH-34	140312	JASX77-78	140364
1-81151073-0	231734	8-94172328-0	134510	FBH-38	140313	JASX80-81	140338
1-81151073-1	231734	8-94178037-0	140519	FBH-4	140314	JASX82-83	140349
5-81110011-0	137350	8-94178042-0	140949	FBH-41	140489	JASX84	140362
5-81111001-1	137350	8-94208296-1	131783	FBH-5	140315	JASX85	140363
5-81112015-0	234099	8-94208303-0	132058	FBH-6	140316	JASX86-87	140932
5-81113036-0	136935	8-94218767-0	133031	FBH-7	140317	JASX88	140361
5-81116008-0	140336	8-94218772-0	132058	FBH-8	140318	JASX89	140396
5-81116009-0	140336	8-94228453-0	132698	FBM-10	140319	JASX90	140348
5-81116017-0	132425	8-94228460-0	140597	FBM-16	140320	JASX91	140708
5-81116021-0	133334	8-94228464-0	140597	FBM-16B	140320	JASX92-93	140595
5-81116029-0	140550	8-94239105-0	138355	FBM-16RF	140466	JASX94-95	140337
5-81116030-0	140550	8-94239115-0	136713	FBM-18	140321	JASX96-97	141273
5-81118012-0	133057	8-94242059-0	132798	FBM-28	140322	JASX98-99	140387
5-81118021-0	140379	8-94242060-0	135101	FBM-32	140323	JHTSX-11	140376
5-81118022-0	133661	8-94242061-0	140379	FBM-36	140428	JHTSX-17	140334
5-81118038-0	133333	8-94242064-0	133731	FBM-37	140430	JHTSX-2	140335
5-81119001-0	140337	8-94242065-0	140379	FBM-38	140429	JHTSX-25	140595
5-81119012-0	140313	8-94242071-0	135953	FBM-39	140555	JHTSX-28	140336
5-81119015-0	140377	8-94311463-0	230890	FBM-40	140428	JHTSX-29	140337
5-81119016-0	140377	8-94324622-0	135010	FBN-1	140325	JHTSX-30	141023
5-81121002-1	137092	8-94334787-0	132003	FBN-10	140325	JHTSX-31	140338
5-81121016-0	132457	8-94334978-0	231286	FBN-14	140326	JHTSX-33	140339
5-81121029-0	134369	8-94337444-0	135008	FBN-17	140328	JHTSX-34	140377
5-81121031-0	132796	8-94361908-0	133809	FBN-25	140329	JHTSX-36	140378
5-81121046-0	135649	8-94367770-0	230057	FBN-27	141235	JHTSX-37	140379
5-81123010-0	139455	8-94367772-0	137950	FBN-28	140330	JHTSX-38	140334
5-81123011-0	138570	8-94367783-0	139492	FBN-33	140333	JHTSX-39	140378
5-81123034-0	133805	8-94367791-0	139049	FBN-34	140325	JHTSX-40	140567
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5-81124004-0	132942	8-94377252-0	137753Z	FBN-38	140426	JHTSX-7M	140340
5-81124006-0	132863	8-94377253-0	136896	FBN-39	140427	JHTSX-8M	140340
5-81127027-0	230866	8-94377254-0	136897	FBNK-1	140485	JHTSX-9M	140341
5-81129008-0	140487	8-94377258-0	137955	FBNK-16	140449	JMTSX-11	140345
5-81129009-0	140485	8-94377259-0	137953	FBNK-17	140450	JMTSX-24	140385
5-81129056-0	135478	8-94381931-0	135802	FBNK-20	140487	JMTSX-31	140346
5-81129068-0	137541	8-94424388-0	133730	FBNK-25	140517	JMTSX-36	140347
5-81129116-0	138121	8-94435561-0	132798	FBNK-29	140519	JMTSX-36N	140556
5-81129119-0	135343	8-94435563-0	137277	FBNK-30	140520	JMTSX-37	140386
5-81129143-0	140517	8-94435567-0	135188	FBNK-31	140521	JMTSX-46	140395
5-81151003-0	231735	8-94435568-0	135008	FBNK-32	140517	JMTSX-48	140348
5-81151012-0	231735	8-94435570-0	137301	HP-2	140584	JMTSX-49	140349
5-81151013-0	231735	8-94435571-0	134745	JASX1	140566	JMTSX-49N	140349
5-81151015-0	132059	8-94455181-0	136088	JASX10-11	140963	JMTSX-55	140387
5-81151029-0	132059	8-94478862-0	140379	JASX14	140356	JMTSX-56	140388
5-81151030-0	132423	8-94478863-0	133730	JASX15-6	140340	JMTSX-57	141273
5-81151031-0	132914	8-97025677-0	234868	JASX22	140359	JMTSX-71	141037
5-81151034-0	139510	8-97161789-0	234869	JASX24-25	140841	JMTSX-72	140931
5-81151036-0	132498	8-97161793-0	234866	JASX26-27	141023	JMTSX-9	140391
5-81151038-0	133482	8-97377253-0	136896	JASX29	140391	JNDSX-12	140356
5-81151049-0	135676	9-82111631-0	140340	JASX32-33	140341	JNDSX-13	140357
5-81151054-0	133047	9-82111632-0	140340	JASX34-30	140597	JNDSX-18	140358
5-81151058-0	132423	9-82111644-0	140341	JASX35	140393	JNDSX-20	140359
5-81151058-1	132423	9-82111645-0	140341	JASX36-37	140378	JNDSX-25	140360
5-81151103-0	132423	9-82111646-0	140376	JASX38	140348	JNDSX-28	140393
8-10469039-0	232219	9-82111647-0	140376	JASX39	140602	JNDSX-31	140361
8-11530018-0	132059	9-82111651-0	140376	JASX40-41	140559	JNDSX-32	140362
8-94028460-0	140597	9-82111652-0	140376	JASX42-43	140560	JNDSX-33	140396
8-94115568-0	132001	9-82111657-0	140334	JASX44-28	140921	JNDSX-34	140363
8-94122588-0	230894	9-82111658-0	140334	JASX45-46	140931	JNDSX-35	140364
8-94125889-0	133631	9-82114151-0	140595	JASX47-48	140386	JNDSX-39	140602
8-94136900-0	140567	9-82114152-0	140595	JASX49-61	140852	JNKSX-14	140448
8-94136901-0	133730	9-82115288-0	138026	JASX50-51	140786	JNKSX-15	140488
8-94137713-0	135101	9-82121231-0	133266	JASX52	140740	JNKSX-20	140549
8-94149250-0	133605	9-82121238-0	131984	JASX53	140647	JNKSX-21	140550
8-94152521-0	137434	9-82122380-0	131984	JASX54-55	140953	JNKSX-22	140551
8-94152930-0	140379	9-82150052-0	130811	JASX56-3	140376	JNKSX-5	140518
8-94152967-0	138830	9-82150071-0	130811	JASX57-58	140334	JSDSX-10M	140823
8-94152969-0	134346	9-82150083-0	231735	JASX59-60	140986	JSDSX-15	140828
8-94152970-0	140379	9-92116133-0	140518	JASX62	140359	JSDSX-18	140358
8-94152972-0	231487	9-94381931-0	135802	JASX63	140360	JSDSX-4	140822
8-94152973-0	140379			JASX64-65-67	140933	MP-2	140586
8-94152979-0	138305			JASX66-67	140336	NP-1	140582
8-94152980-0	231287	<b>JAPANESE</b>		JASX69-70	140347	NP-1B	140579
8-94152981-0	136141	FBH-2	140306	JASX70	140347	NP-2	140583
8-94167426-0	137978	FBH-25	140307	JASX71	140388		
8-94167427-0	233546	FBH-26	140308				
8-94167430-0	137021	FBH-3	140309				

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>JOHN DEERE</b>		15852-63020	133288	76497	130853	76883	130484
AM103290	234070	16611-63041	137753	76498	131252	76884	131787
AM30182	133855	16611-63041	137753Z	76538	131252	76885	130855
AR90074	132641	16871-63041	132004	76702	233954	76886	131255
T19510T	140186	17381-63041	134806	76703	130872	76887	130484
		17381-63041	134806Z	76711	130853	76888	131786
<b>KAWASAKI</b>		17381-63211	134807	76712	131252	76891	130855
13168-2131	139051	19013-63021	230578	76715	130872	76892	130855
		19013-63041	139037	76722	130872	76893	130484
		19212-63041	132004	76727	131252	76895	132269
		19837-63070	133454	76731	233955	76896	132269
<b>KIA</b>				76732	233956	76897	130855
35137-32510	133403	<b>LADA</b>		76740	131248	76898	130484
36102-11130	134952	2101-3708120	130368	76753	131248	76899	132269
36102-11140	134952	2101-3708150	130369	76755	130855	76900	131248
36110-21740	135485	2101-3708620	130738	76756	131248	76901	131121
36110-32500	136761	2101-3708805	130367	76763	130855	76902	130855
36110-32510	136761	2108-3708200	131840	76766	130872	76903	130484
36111-32510	139203	2108-3708200	131212	76767	130872	76904	131788
36114-11130	133463	2108-3708620	131439	76770	130853	76905	131788
36120-11130	133289			76771	130853	76906	131786
36120-11140	133289	<b>LEECE-NEVILLE</b>		76772	130872	76908	132269
36120-21740	133288	04231	130535	76773	130872	76910	131248
36120-32510	133289	04234	131399	76776	130872	76911	131248
36130-32510	135468	04489	131056	76777	130853	76912	131248
36131-11140	133463	57597	134488	76781	131248	76913	131248
36139-11140	132005	64235	132731	76786	130855	76914	130853
36139-11140	132005Z	71157	131768	76789	130853	76917	134695
36139-32510	136895	71163	136412	76790	130484	76919	131787
36140-32500	138579	73493	131768	76794	131252	76922	131787
36141-32510	135341	74977	131768	76795	130853	76923	131787
36143-32510	139200	75249	232632	76796	130855	76924	131787
36145-2A000	333479	77452	132140	76798	130853	76925	131786
36145-32510	132011	77461	132142	76799	130853	76926	131247
36150-11150	134736	77491	136412	76800	130855	76928	131248
36150-32500	136334	77600	130539	76803	130855	76929	131787
36150-32510	136334	77600	130539Z	76804	132269	76930	131121
36160-11140	136135	77601	131056	76805	130484	76931	131787
36160-32500	136894	95146	136412	76808	131252	76933	131787
36160-32510	136894	97222	131768	76815	130855	76935	131787
36162-21720	136946	98004	132141	76816	132269	76936	132404
36164-21720	136947	225014	132141	76820	130855	76939	131787
36169-32510	133341	225313	136412	76821	132269	76940	131786
36170-21740	135467	850141	141143	76823	130855	76945	131787
36170-32500	133341	18-56	233175	76824	130855	76954	130484
36173-11140	140349	M0290-4472	131766	76825	131248	76956	131248
36182-21740	140555	M0290-71031	131766	76826	130855	76958	130856
<b>KOHLER</b>		M0290-73493	131768	76827	130855	76961	132269
8275548	140714	M0290-75249	131766	76830	130484	76962	134695
<b>KOMATSU</b>		M029075429	232632	76833	131248	76963	131787
02837-11500	138569	M029097222	131768	76834	131248	76970	131787
<b>KUBOTA</b>		<b>LETRIKA → ISKRA</b>		76835	131248	76978	131787
11173-63021	233703	<b>LUCAS</b>		76836	131248	76979	131121
11197-63071	136896	61611	134899	76837	130855	76980	130484
11197-63081	136897	76397	133531	76842	130484	76982	134695
11420-63041	138956	76415	130872	76848	130484	76983	131786
12234-63202	139436	76417	130872	76849	130484	76985	131121
12264-63071	133713	76425	130872	76850	130855	76986	130853
14182-63041	132942	76426	130872	76852	132269	76989	134899
14278-63081	138355	76443	130872	76854	131248	76993	131787
14278-63521	231213	76445	130872	76855	130855	76994	131785
15061-63042	139037	76449	130872	76858	130853	76995	130484
15231-63032	230895	76450	130872	76862	131248	76996	130855
15401-63271	138570	76453	130872	76863	130484	76997	131121
15425-63081	135102	76458	131252	76864	131248	76998	131787
15451-63041	136315	76460	130872	76865	131248	77002	130484
15451-63261	138569	76464	130872	76866	130484	77003	130484
15461-63511	231764	76465	130872	76868	130484	77004	134696
15504-63021	138878	76466	130872	76869	131248	77008	132404
15504-63031	230909	76468	130872	76870	130484	77009	130484
15504-63041	132004	76469	130872	76873	130484	77010	131248
15511-63261	136887	76470	130872	76875	131787	77011	131786
15521-63041	135002	76471	130872	76876	131787	77012	131787
15601-63042	139037	76474	131252	76877	131787	77016	131787
15601-63043	139037	76477	130872	76878	131787	77017	131787
15606-63042	139037	76485	130872	76879	131787	77018	130484
15611-93311	230721	76486	130872	76880	131787	77021	131786
		76490	131252	76881	131248	77025	131248
				76882	131255	77027	134891

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
77028	130484	77199	133300	54219309	130706	54246741	134427
77031	133187	77204	134457	54240294	135355	54246796	131738
77032	131248	77207	137759	54240295	135355	54246896	130445
77033	131255	77208	134457	54240593	131709	54247025	130203
77034	130855	77209	133590	54240795	130451	54247034	130452
77035	132269	77219	133300	54240984	131723	54247034	130452Z
77036	131785	77221	133301	54241267	140056	54247036	130452
77037	130484	77222	136889	54241267	B140056	54247036	130452Z
77040	131247	77223	136889	54241719	130203	54247077	131035
77050	130484	77229	133301	54241966	130746	54247106	131206
77052	131248	77230	133590	54242044	131732	54247153	131777
77054	131121	77231	133590	54242076	136863	54247177	130746
77055	130853	77252	133301	54242188	136877	54247179	131705
77058	130855	77259	137759	54242194	LASX37-38-39	54247181	131035
77059	131787	77262	235267	54242330	135355	54247184	130447
77066	130484	77265	131208	54242438	232480	54247187	130445
77068	130484	77269	134890	54242521	137326	54247188	130451
77069	130484	77271	137759	54242576	135100	54247295	130747
77072	130484	77287	137759	54242829	137719	54247295	134065
77074	130484	77892	130855	54243248	130209	54247379	130202
77078	130484	77899	132269	54243590	130200	54247383	131656
77080	130484	96403	131787	54243592	130878	54247389	131728
77082	130484	96405	131787	54243781	130897	54247393	132285
77083	130484	134459	134459	54243783	130445	54247396	131708
77084	130484	172580	134459	54243848	130451	54247397	131729
77089	134696	227713	B140062	54243852	130879	54247508	233533
77091	133187	227818	B140062	54243853	140104	54247556	130203
77092	131786	245079	130213	54243855	135500	54247935	130203
77093	133187	250626	140052	54244390	138434	54247959	132291
77094	133187	250678	140060	54244686	131035	54248156	131733
77107	131787	250678	B140060	54244748	130882	54248606	136338
77108	134899	251108	LASX5-62/1P	54244773	140102	54248609	135869
77109	131788	251477	140054	54244775	134452	54248959	131734
77110	134695	253316	140059	54244848	LASX40-412P	54248981	233740
77111	131787	255491	140053	54244938	130453	54249001	132402
77115	131121	255491	B140053	54244971	131298	54249032	131707
77119	131121	255659	LASX22	54244973	130201	54249034	131206
77121	133531	256112	140207	54244979	LASX424	54249035	131705
77122	134888	256746	138138	54244980	137719	54249041	131707
77126	130853	263005	131247	54245079	130213	54249042	131206
77128	131786	263402	130853	54245090	131652	54249043	131707
77129	134483	263403	130853	54245201	131035	54249079	138350
77130	134890	270038	140746	54245266	131737	54249083	138350
77131	133531	270889	138840	54245341	131035	54249109	135764
77132	133531	271364	140144	54245342	131777	54250082	136118
77133	133531	271733	140594	54245343	140103	54251052	131654
77134	132269	271733	B140594	54245374	131169	54251756	131724
77135	134483	271735	142344	54245568	130747	54251818	130205
77136	134886	271735	LASX15-164	54245568	134065	54252038	130206
77138	134886	271737	130195	54245574	130201	54252054	140057
77139	133531	271826	130194	54245576	130213	54252054	B140057
77140	131785	272022	130871	54245900	131709	54252212	130449
77141	133531	272219	130194	54246005	131035	54252236	140058
77143	133531	272334	130195	54246008	130746	54252236	B140058
77147	131785	272394	130196	54246119	130746	54252494	140212
77149	131785	272605	130196	54246123	130747	54252494	B140212
77152	134483	291559	130745	54246123	134065	54255513	131726
77154	132269	291859	131726	54246200	140215	54255952	131655
77156	134695	292031	131725	54246252	131707	54255957	137050
77157	132269	292124	130443	54246253	131206	54255966	140658
77158	131787	292130	130444	54246258	LASX43-442	54255966	B140658
77160	131787	292134	131726	54246259	131652	54256098	131725
77161	134695	26252339	130200	54246285	130453	54256132	140657
77163	131121	26252342	130453	54246290	131652	54256132	B140657
77165	134455	26253078	130452	54246340	130447	54256151	140659
77169	131786	26253078	130452Z	54246418	130203	54256151	B140659
77170	134456	26253757	133368	54246544	130203	54256687	131725
77173	131785	26255073	135869	54246654	130453	54256689	131726
77174	134457	26255474	230265	54246655	137719	54256984	130450
77175	133300	26255553	230269	54246661	130451	54257605	137049
77177	134457	26255652	132286	54246662	130897	54257617	130209
77180	133187	26964041	230264	54246724	130450	54257635	130210
77185	133301	26964058	230266	54246725	130446	54257833	140656
77186	133187	26964059	230266	54246727	232480	54257833	B140656
77190	133301	000028502010	135721	54246728	132965	54258128	130212
77193	133590	35640175	133178	54246729	131732	54258129	138349
77194	134457	52265874	138346	54246733	131709	54258190	130451
77196	134456	54132580	137532	54246738	130445	54258309	132965
77198	134455	54200349	130706	54246739	130447	54258592	LASX314

## STARTER PARTS

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>LUCAS</b> <i>Continued</i>							
54258814	132209	54290804	133592	54644304	131274	60933104	131786
54258818	130213	54290840	133297	54645021	131275	60933109	134888
54259136	139034	54290870	135815	54645590	131276	60933111	133531
54259517	LASX364	54290953	130196	54645844	139177	61194002	131015
54259524	132209	54291022	136770	54646009	131078	61194003	139159
54259688	130446	54291125	134853	54646071	131276	61194012	134446
54259800	130450	54291147	132288	54646676	131275	61194013	131298
54260599	233533	54291195	234219	54646683	131275	61194014	131298
54260640	130206	54291543	133296	54646689	131276	61194015	233880
54261078	130959	54291714	231477	54647433	133200	61194016	233881
54261382	138350	54291735	133591	54647861	137059	61194019	140104
54262100	132291	54291763	139635	54648007	136892	61194021	131274
54262393	131083	54291804	134852	54648102	133200	61194022	132209
54262658	131707	54291911	132586	54648338	139159	61240176	138351
54263217	130196	54291912	132587	54648379	136892	61240701	135784
54263486	130196	54291945	133305	54942884	131015	61240731	136135
54263768	138348	54292157	139032	60600018	130882	66964039	133187
54263852	138346	54292178	137530	60600019	138350	66964044	131121
54263923	132291	54292179	133295	60600020	131298	000072219010	133300
54264662	135764	54292192	136963	60600024	130452	000076892010	130855
54264664	135764	54292376	133368	60600026	136339	000076899010	132269
54264884	140663	54292464	135711	60600029	138349	000077034010	130855
54264884	B140663	54292574	136319	60600047	140593	000077035010	132269
54264889	136875	54292575	136319	60600050	130897	000077121010	133531
54265072	136864	54292576	135100	60600051	134427	000077122010	134888
54265121	136878	54292603	134853	60600054	130196	000077132010	133531
54265243	138351	54292698	133298	60600056	LASX40-412P	000077133010	133531
54265251	136877	54292742	135180	60600066	130453	000077136010	134886
54265377	136879	54292857	233621	60600077	131708	000077152010	134483
54265549	130747	54292929	133296	60600078	131729	000077165010	134455
54265549	134065	54292953	130202	60600117	131015	000077174010	134457
54265558	131192	54293052	136863	60600118	131015	000077175010	133300
54265568	130747	54293053	136863	60600119	131015	000077177010	134457
54265568	134065	54293287	136962	60600120	131274	000077185010	133301
54265871	138346	54293375	135121	60600121	131015	000077196010	134456
54265874	138346	54293451	136261	60600122	131015	000077204010	134457
54266043	135822	54293455	138546	60600125	131274	000077209010	133590
54266044	130196	54293575	135121	60600127	130868	000077219010	133300
54266045	130194	54293699	134852	60600128	131015	000077221010	133301
54266594	233876	54293820	231318	60600129	131015	000077222010	136889
54266596	136864	54293830	133618	60600162	130868	000077229010	133301
54266597	136871	54293877	134852	60600178	140592	000077230010	133590
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54268382	133368	54294922	130452	60600645	131015	054268140010	132852
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54279043	131707	54642420	131275	60600919	140513	054290840010	133297
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54290573	134446	54642959	139177	60600944	140512	054291735010	133591
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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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054293451010	136261	085540221010	131112	085541870010	139655	SSL0013	131248
054293699010	134852	085540281010	131437	085541990010	238841	SSL0023	134899
054293820010	231318	085540321010	134364	085553402010	239075	SSL0900	132270
054293877010	134852	085540341010	138537	085553621010	239080	SSL0901	131015
054293878010	134852	085540351010	138538	26964038D	230342	SSL0902	139159
054293879010	134852	085540371010	132249	26964058A	230266	SSL0903	131274
054294074010	234515	085540381010	230757	26964059B	230266	SSL6001	133050
054294392010	132400	085540401010	230025	26964060A	230268	SSP0003	134452
054294400010	135200	085540431010	132818	76879E	131787	SSP0004	131169
054294409010	134365	085540431010	132818Z	76997F	131121	SSP0013	134446
054294771010	233331	085540441010	132820	LTH102	133463	SSP0014	131298
054294817010	139710	085540451010	132818	LTH103	235210	SSP0015	131298
054294817010	139710Z	085540451010	132818Z	LTH104	135485	SSP0016	233880
054294922010	130452	085540461010	134862	LTH105	231194	SSP0017	233881
054294922010	130452Z	085540471010	133566	LTH107	134736	SSP0020	140104
054294957010	235257	085540481010	132187	LTH108	136135	SSP0023	134459
054295140010	133682	085540491010	131716	LTH112	233867	SSP0024	138138
054295252010	133295	085540521010	132188	LTH203	135573	SSP0025	130871
054295331010	138443	085540561010	132228	LTH204	231192	SSP0026	137532
063602106010	138444	085540581010	133083	LTH205	231196	SSP0027	130879
063602290010	130373	085540591010	132227	LTH206	133050	SSP0030	133463
063602502010	138477	085540601010	131715	LTH207	132486	SSP0031	135573
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063633806010	131112	085540661010	130737	LTH209	231269	SSP0033	231194
063633933010	131115	085540681010	135117	LTH210	138565	SSP0034	231195
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072139001010	131109	085540922010	139104	LTH212	135784	SSP0036	135784
072139003010	133985	085540971010	135717	LTH213	132475	SSP0037	233867
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072163903010	136163	085541070010	138531	SAR0005	135869	SSP6002	140412
072163904010	136163	085541080010	138533	SAR0006	233740	SAAR6000	134736
072164101010	135604	085541110010	231806	SAR0007	131654	SAAR6001	132486
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072164701010	134041	085541210010	230805	SAR0009	131655	TAB102	135822
072165901010	131473	085541220010	231414	SAR0010	130210	TAB103	LASX73-412/1P
072166001010	131474	085541250010	139901	SAR0012	130212	TAB104	131169
072362601010	136734	085541320010	133531	SAR0014	132401	TAB106	140603
072382301010	131670	085541322010	133531	SAR0015	137363	TAB112	140716
072386601010	132951	085541323010	134888	SAR0016	133368	TAB116	LASX44-452P
072397101010	234921	085541325010	133531	SAR0017	130202	TAB117	LASX40-412P
074861761010	130360	085541350010	231479	SBR0001	135764	TAB118	LASX364
074880921010	134044	085541360010	234733	SBR0002	135764	TAB119	LASX314
074880991010	131668	085541370010	235428	SBR6800	231196	TAB124	LASX43-442
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074891101010	134291	085541389010	133591	SBR6901	137219	TAB125	LASX15-164
074893711010	132615	085541390010	231478	SDR6012	231269	TAB127	LASX22
074894441010	134798	085541420010	138444	SDR6013	138565	TAB128	LASX5-62/1P
074897851010	137814	085541454010	130452	SDR6014	139953	TAB131	140896
074899021010	132817	085541454010	130452Z	SFC0001	130194	TAB132	140765
083220461010	135565	085541459010	132852	SFC0002	130196	TAB133	140510
083220991010	136143	085541462010	132285	SFC0003	130196	TAB134	140511
083224461010	136204	085541466010	132285	SFC0004	130209	TAB135	140512
083225127010	135620	085541468010	139032	SFC0005	130882	TAB136	140897
083225135010	138556	085541470010	133683	SFC0006	130201	TAB137	140898
083225146010	138536	085541472010	138351	SFC0007	130213	TAB138	140513
083225153010	138442	085541475010	135764	SFC0008	130196	TAJ100	140334
083225326010	138534	085541479010	130452	SFC0009	135200	TAJ101	140336
083225702010	235469	085541479010	130452Z	SFC0010	132400	TAJ102	140340
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083226888010	139629	085541490010	130452	SRB321	233956	TAJ105	140341
083226889010	231941	085541490010	130452Z	SRB325	130872	TAJ106	140338
083227126010	138526	085541496010	131728	SRB333	130856	TAJ111	140339
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083227260010	135565	085541538010	131729	SRB716	233954	TAJ200	140391
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083227678010	135620	085541544010	132586	SSL0001	130855	TAJ209	140349
085540001010	132228	085541560010	230809	SSL0002	132269	TAJ400	140357
085540011010	131112	085541670010	138444	SSL0003	131786	TAJ401	140360
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085540041010	230325	085541700010	139902	SSL0005	133531	TAJ405	140396
085540071010	131589	085541710010	230804	SSL0006	134888	TAJ406	140358
085540081010	131588	085541740010	230808	SSL0007	134890	TAJ407	140361
085540141010	132819	085541780010	135717	SSL0008	132269	TAJ409	140363
085540151010	132821	085541810010	233946	SSL0009	134886	TAJ410	140362

Cross reference list

## STARTER PARTS

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>LUCAS</b> <i>Continued</i>							
TCB106	140590	TLB193	131726	TNB154	131192	TPB110	134890
TCB108	140592	TMB100	130453	TNB159	132782	TPB111	133531
TCB110	140593	TMB101	130451	TNB165	130452	TPB112	134483
TCB112	140212	TMB102	130897	TNB167	132852	TPB113	134483
TCB112	B140212	TMB104	130450	TNB169	131728	TPB114	134886
TCB113	140058	TMB105	130446	TNB172	133682	TPB115	134886
TCB113	B140058	TMB106	232480	TNB173	133683	TPB116	133531
TCB114	140057	TMB107	132965	TNB176	133295	TPB117	131785
TCB114	B140057	TMB108	131732	TNB194	136962	TPB118	133531
TCB116	140103	TMB111	131709	TOB100	131252	TPB119	133531
TCB117	140102	TMB115	130445	TOB108	131248	TPB120	131785
TCB118	140104	TMB116	130447	TOB109	130855	TPB121	131785
TCB120	140144	TMB118	134427	TOB110	131248	TPB122	134483
TCB122	140746	TMB120	130452	TOB111	131248	TPB123	131121
TCB123	140053	TMB121	131728	TOB112	130484	TPB124	134888
TCB123	B140053	TMB124	131708	TOB113	132269	TPB127	134899
TCB124	140059	TMB125	131729	TOB114	131788	TPB131	131786
TCB125	140054	TMB129	131733	TOB115	134695	TPB133	131785
TCB126	140060	TMB130	136338	TOB116	131787	TPB136	134455
TCB126	B140060	TMB132	131734	TOB117	131787	TPB137	131121
TCB127	140052	TMB133	233533	TOB119	131786	TPB138	134456
TCB129	140528	TMB134	130959	TOB121	132269	TPB139	133300
TCB130	140646	TMB142	130453	TOB122	131121	TPB140	134457
TCB131	140655	TMB143	130451	TOB123	131121	TPB142	133301
TEB102	135232	TMB148	132285	TOB124	131787	TPB143	133301
TEB104	130196	TMB150	132286	TOB125	131121	TPB144	133187
TEB105	130882	TMB162	132288	TOB126	132404	TPB145	134456
TEB118	130196	TMB167	132586	TOB127	132404	TPB146	134457
TEB125	132403	TMB168	132587	TOB128	131786	TPB147	133187
TEB128	130213	TMB170	132285	TOB129	131248	TPB152	133590
TEB129	130201	TMB171	133297	TOB130	130484	TPB157	137759
TEB130	130209	TMB172	133592	TOB131	131786	TWB100	131264
TEB132	130196	TMB173	136770	TOB133	131248	TWB105	131275
TEB134	130194	TMB174	133296	TOB134	132269	TWB107	131275
TEB142	135200	TMB175	234219	TOB135	130484	TWB108	131276
TEB144	132400	TMB177	133296	TOB137	131121	TWB110	130868
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TGB107	130206	TMB180	135180	TOB142	131787	TWB112	131015
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TGB110	131650	TMB183	138299	TOB147	131787	TWB114	131274
TGB117	137004	TMB184	139635	TOB151	131252	TWB117	131078
TGB122	133305	TMB189	135100	TOB153	131252	TWB119	133200
TGB123	133302	TMB190	233621	TOB157	130484	TWB121	133200
TGB125	135815	TMB194	136962	TOB159	131787	TWB122	131078
TGB127	137530	TMB196	135711	TOB160	131255	TWB123	134430
TGB128	136963	TMB197	136261	TOB162	130855	TWB124	131079
TGB130	136319	TMJ100	130440	TOB164	131787	TWB125	139085
THB101	131652	TMJ101	131783	TOB165	131121	TWB2520	235780
TIB107	135869	TMJ102	131086	TOB167	131787	TWT200	139159
TIB108	130202	TMJ103	131085	TOB169	131787	TZT102	233880
TIB109	131656	TMJ105	132311	TOB172	134695	TZT104	233881
TIB110	233740	TMJ106	130440	TOB174	130855	TZT110	130879
TIB112	131654	TMJ107	131085	TOB175	134696	ULB102	130706
TIB113	130205	TMJ115	131985	TOB179	131248	UMB120	140271
TIB114	131655	TMJ117	131985	TOB180	134891		
TIB115	130195	TMJ120	132453	TOB181	131255	<b>MAGNETI MARELLI</b>	
TJB102	132402	TMJ121	131986	TOB182	131785	77222	136889
TJB103	130200	TMJ123	131985	TOB183	131247	54294771	233331
TJB104	130878	TMJ140	131988	TOB184	131248	54294817	139710
TJB106	130210	TMJ165	131987	TOB190	130484	54294817	139710Z
TJB107	130212	TMJ171	132001	TOB191	130484	54295253	235427
TJB111	133368	TMJ204	130741	TOB193	133187	60737105	131314
TJB112	132401	TMJ210	131087	TOB194	133187	62362910	140202
TJB113	133368	TMJ400	131110	TOB196	134695	62362910	B140202
TJB114	133368	TMJ401	130441	TOB198	131787	63600400	130377
TJB115	137363	TNB102	131737	TOB199	131788	63600403	131437
TLB100	131725	TNB104	131738	TOB811	131115	63600408	139785
TLB101	131726	TNB133	131723	TOJ101	130811	63600483	131437
TLB106	131724	TNB134	137326	TOJ103	131800	63600493	131437
TLB110	130745	TNB137	131035	TOJ104	131144	63600502	130361
TLB112	130449	TNB140	130746	TOJ214	133052	63600504	130361
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TLB118	130443	TNB144	131206	TOJ401	131084	63600506	130361
TLB168	235083	TNB145	131705	TPB101	131255	63600507	130367
TLB172	138840	TNB147	131707	TPB103	131786	63600508	131437
TLB174	138840	TNB149	131707	TPB104	133531	63600800	132137
TLB185	133914	TNB151	132291	TPB106	134695	63600802	132227
TLB186	138683	TNB153	130747	TPB107	132269	63600900	133083
TLB189	135500	TNB153	134065	TPB109	131787	63600901	132228



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
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63601700	132249	72165901	131473	74866151	132075	74895901	134122
63601768	132228	72166001	131474	74866471	130368	74896591	132818
63601963	137790	72169501	133955	74866481	130369	74896591	132818Z
63601966	137790	72294601	130328	74866521	130370	74897851	137814
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63602106	138444	72361301	130216	74867401	130738	74898111	134018
63602109	138477	72362306	137024	74867931	130735	74898751	137814
63602200	130373	72362307	136203	74868171	JSX52	74898981	136625
63602290	130373	72362308	136203	74868181	JSX162	74899021	132817
63602302	130830	72362510	140200	74868210	140050	74899041	235301
63602404	138477	72362510	B140200	74868210	B140050	74899601	130437
63602502	138477	72362601	136734	74868371	139134	74899901	130347
63631425	130281	72362910	140202	74868531	130370	74981251	130737
63633501	130829	72362910	B140202	74868551	130355	74991161	132188
63633601	130830	72363110	135770	74868891	130439	79026095	131184
63633603	130830	72363201	MASX13-144	74869671	130945	79033664	132254
63633604	139849	72363202	MASX13-144	74869711	333125	79033664	333151
63633801	131112	72363207	MASX15-164	74869941	132202	79033957	132303
63633804	138753	72363402	131109	74870031	130945	79035321	139131
63633806	131112	72364310	135768	74870111	130740	79036683	131112
63633825	131112	72364801	231024	74870151	130848	79036685	131115
63633901	131115	72365010	140201	74871431	130739	79044568	132304
63633902	131115	72365010	B140201	74874241	130738	82368225	131143
63633925	131115	72366601	134681	74874701	JSX134	82368225	333147
63633933	131115	72372530	130417	74874761	130370	83220031	133567
63693801	131112	72378301	133970	74876851	130737	83220271	134365
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70494804	130325	72382301	131670	74880991	131668	83221161	136206
70616002	130417	72385201	130215	74881110	140268	83221191	JSX35-364
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72138801	130749	72386803	130386	74881151	134291	83221541	134859
72138802	138752	72387101	134910	74881251	130737	83221651	136143
72138902	139131	72387301	130218	74881280	131784	83221681	JSX35-374
72139001	131109	72388401	137025	74883371	234285	83222270	140242
72139002	139131	72388403	137027	74884601	131779	83222681	135565
72139003	133985	72391701	230746	74885011	134044	83222921	134365
72139004	132293	72392104	139131	74885041	134653	83223311	136143
72139007	234922	72397101	234921	74885111	132186	83224461	136204
72142003	137213	72399501	130946	74886131	131716	83224481	JSX38-39-403
72142401	131680	72399502	139848	74886560	139133	83225127	135620
72143101	136203	74350265	130328	74886731	130737	83225135	138556
72143103	136203	74350413	131747	74886931	131132	83225146	138536
72143104	136203	74350433	131747	74886971	131715	83225153	138442
72143105	136203	74372530	130417	74887061	131716	83225234	137814
72143106	136203	74700901	134641	74887310	140269	83225266	JSX38-412
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72143301	137027	74703210	135769	74887441	235470	83225326	138534
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72144701	130215	74705710	140046	74887810	B140270	83225372	133567
72146501	134910	74705710	B140046	74887890	140270	83225386	136206
72157601	137024	74705810	140065	74887890	B140270	83225622	235301
72157901	137025	74705810	B140065	74887901	JSX23-24-28	83225641	138442
72157902	137025	74732201	132773	74887911	JSX23-24-28	83225702	235469
72159801	132821	74734101	JSX204	74888361	134044	83225727	135620
72161301	MASX25-264	74751110	135644	74888761	132187	83225758	138443
72161302	MASX25-264	74798210	140211	74888921	132849	83225822	JSX43-45-444
72161303	MASX27-284	74825410	140109	74889271	131715	83225823	JSX43-45-444
72161304	MASX27-284	74826710	140110	74890961	134017	83225824	JSX43-45-444
72161601	133030	74827010	140452	74891011	132619	83225846	235304
72162401	MASX21-224	74827301	130739	74891101	134291	83225886	138535
72162402	MASX21-224	74838701	JSX184	74891161	132188	83225937	234093
72162403	MASX23-244	74845901	134122	74891260	JSX23-24-28	83225970	138556
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72163201	131470	74860300	140048	74891611	135762	83226189	JSX40-46-474
72163701	131472	74860300	B140048	74892151	131132	83226216	136204
72163901	136223	74860380	140047	74893711	132615	83226316	231159
72163902	136975	74860380	B140047	74893801	JSX29-302	83226336	139627
72163903	136163	74860391	130737	74893811	JSX29-302	83226348	138536
72163904	136163	74861441	130737	74893830	134115	83226437	235122
72163906	136974	74861761	130360	74893901	132119	83226536	135620
72164101	135604	74861771	134432	74893931	133059	83226539	138442
72164102	135242	74861781	JSX162	74894121	136625	83226557	235370
72164701	134041	74865381	131779	74894221	132817	83226564	139625

Cross reference list

## STARTER PARTS

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>							
83226569	139902	85540591	132227	85541479	130452	7151271	234812
83226683	135565	85540601	131715	85541479	130452Z	7151540	231680
83226699	138556	85540611	131716	85541483	136878	7151542	231680
83226713	235301	85540651	132186	85541488	132586	7152560	231681
83226811	135620	85540661	130737	85541490	130452	7152762	231681
83226816	138442	85540681	135117	85541490	130452Z	7152822	235488
83226888	139629	85540691	138537	85541496	131728	7152860	136267
83226889	231941	85540711	136164	85541503	135711	7152860	136267Z
83226919	J5X52	85540721	131437	85541538	131729	7152920	236082
83226920	J5X52	85540731	130439	85541541	131728	7152960	136267
83227000	139628	85540781	139785	85541544	132586	7152960	136267Z
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83227131	135565	85540821	135712	85541670	138444	7153360	234445
83227226	135565	85540822	135712	85541680	139901	7153612	231681
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83227257	J534	85540841	138522	85541700	139902	7153860	136267Z
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83227258	J533	85540881	136257	85541717	138477	7155351	136269
83227258	J534	85540891	235771	85541740	230808	8014241	133961
83227258	J5X33-344	85540911	131437	85541750	233946	8014251	130729
83227260	135565	85540921	233815	85541770	234733	8014271	233730
83227357	J5X51-52-634	85540922	139104	85541780	135717	71553360	234445
83227362	J5X51-522	85540961	137191	85541810	233946	110904300	PLSX3/0
83227364	J5X51-52-593	85540971	135717	85541820	137191	315238040	135775
83227370	J5X51-52-593	85540981	137190	85541860	230807	323114011	140756
83227383	J5X61-62-634	85540991	133566	85541870	139655	323114011	B140756
83227490	J5X38-39-403	85541002	234441	85541990	238841	323114014	140757
83227491	J5X38-39-403	85541003	138444	85553402	239075	323114014	B140757
83227502	230805	85541010	230809	85553621	239080	323114016	140691
83227584	J5X61-62-634	85541020	137790	86226811	135620	323144014	140757
83227652	J5X61-62-634	85541040	134364	86226816	138442	323144014	B140757
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85530010	132227	85541111	231806	72363201/02	MASX13-144	344112027	PLSX44
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85530280	131437	85541160	138985Z	72363205/06	MASX15-164	3155238077	138606
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85540031	138753	85541240	138791	7489439/1	J5X31-32	316116119950	135772
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85540221	131112	85541325	133531	0157541	133413	323622641703	140756
85540231	133566	85541333	LASX364	0157561	133412	323622642933	B140756
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85540291	134018	85541360	234733	0157961	136798	334174503246	PLSX34
85540301	132137	85541370	235428	0157972	132120	344154113246	PLSX34
85540311	130737	85541372	138547	0158061	131929	344154123387	PLSX44
85540321	134364	85541375	133592	0158411	133411	344174143386	PLSX44
85540341	138537	85541381	136770	0924100	140143	344174503246	PLSX34
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85540371	132249	85541390	231478	931550	140397	443930154191	233730
85540381	230757	85541400	230809	931550	B140397	443930154210	130729
85540401	230025	85541410	137190	932232	PLSX44	443930154211	130729
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85540451	132818Z	85541458	136865	6954940	136268	443930157940	135773
85540461	134862	85541459	132852	7150161	134803	443930157941	135773
85540471	133566	85541462	132285	7150171	132941	443930157960	136798
85540473	133566	85541465	139032	7150242	134795	443930157961	136798
85540481	132187	85541466	132285	7150860	136267	443930157971	132120
85540491	131716	85541468	139032	7150860	136267Z	443930158061	131929
85540501	139220	85541470	133683	7150872	136270	443930158410	133411
85540521	132188	85541472	138351	7150882	136265	443930158411	133411
85540561	132228	85541475	135764	7150892	136269	443931658400	136271
85540581	133083	85541476	LASX314				

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
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443936954940	136268	B303-18-X00	136753	PN40-18-X30	135368	M106T17371	132762
443937150161	134803	B630-18-X00A	136753	PN40-18-X66	140743	M106T19771	135118
443937150171	132941	B630-18-X65	136135	PN40-18-X70	135365	M106T50171	135832
443937150241	134795	B660-18-X65	136135	R201-18-X66	140388	M106T50271	134736
443937150600	132383	B6AZ-11-450A	130493	R201-24-715	140514	M106T52171	135832
443937150860	136267	B6S8-18-X10	133288	R201-24-730	135903	M106T52371	135928
443937150860	136267Z	BPD4-18-X05	135468	R201-24-730A	230717	M106T52571	134736
443937150870	136270	BPD4-18-X60	139398	R201-24-731	231393	M106T57671	139398
443937150880	136265	BPD4-18-X66	140966	R201-24-736	231981	M106X01171	132484
443937150890	136269	E301-18-720	134737	R201-24-740	133628	M106X01271	134071
443937151540	231680	E301-24-701	136099	R201-24-754	139414	M106X01471	132484
443937151560	231681	E301-24-730	135571	RF01-24-705	134369	M106X01871	134071
PLSX24	PLSX24	E301-24-753	140349	RF01-24-710	137378	M106X02271	132486
		E356-18-X00A	136753	RF01-24-736	230561	M106X06971	136334
<b>MANDO MALROE → VALEO</b>		E356-18-X01	140555	RF01-24-747	138570	M106X07271	231471
		E356-18-X10	231977	S501-24-740	236080	M106X08571	132484
<b>MAZDA</b>		E356-18-X30	134952	SE01-24-736	136344	M106X08671	135832
0135-18-444A	140345	E356-18-X60	134736	SE01-24-750	140388	M106X09971	139401
0135-18-445A	140345	E356-18-X70	135467	SE45-18-X60	231771	M106X29171	136196
0208-23-756	140357	E356-18-X80	231000	SE01-24-736	136344	M106X29271	139646
0221-23-764	130814	E356-18-X81	140429	SLSK-18-810	234723	M106X29272	139646
0221-23-786	130814	E356-18-X95	139203	VS10-18-X10	234872	M106X29371	133034
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0222-24-740	231502	E501-24-753	140349	VS20-18-X10	234484	M106X40471	233337
0222-24-741	140321	F210-18-X01	140738	WLO2-18-X57	135341	M106X40671	132487
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0222-24-760	231976	F214-18-X25	132012	<b>MERCURY MARINE</b>		M106X41671	132486
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0324-24-760A	133052	F850-24-X00A	234706	54-214	231961	M106X43571	138962
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0426-24-715	140320	FP13-18-X10	139202	54-8301	231954	M106X45071	233961
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0426-24-754	135979	FP13-18-X87	139205	54-8336	231952	M106X50271	134736
0578-23-764	130814	G601-18-X06	137927	54-8408	231965	M106X50471	136334
0603-23-643	140391	JE01-18-X60	136613	87-61053	133857	M106X50571	231471
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0839-24-736B	132470	JF01-18-X80A	230872	89-68258	133857	M106X51571	132484
0839-24-753	140386	K801-18-X40	135721	89-76454	133857	M106X51671	134737
0845-18-400	140321	K805-18-X10	133049	89-76545	133855	M106X52171	135832
1345-24-716	139883	K805-18-X65	137550			M106X52271	138417
1345-24-716A	139883	KL36-18-X65	137853	<b>MITSUBA</b>		M106X52371	135928
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4782-24-736	139586	N226-18-760	131802	6001547546	235426	M106X55071	134071
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4854-24-736	133050	N326-18-X25	132014	M105X43671	234851	M106X57271	134071
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4892-24-709	132765	N326-18-X57	135341	M106T01871	134071	M106X57671	139398
4894-24-715	140322	N326-18-X60	136334	M106T01970	134737	M106X58171	231471
8088-24-722	131087	N326-18-X71	136947	M106T03271	135118	M106X58571	135832
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8599-24-736	132473	N327-18-X60	136613	M106T04271	135832	M106X58771	139398
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8599-24-741	137545	NF01-18-X90	231505	M106T05771	134736	M106X59171	136613
8599-24-746	138565	PN11-18-X10	133288	M106T06971	135832	M106X59771	230499
8599-24-750	140387	PN11-18-X40	133439	M106T07070	135928	M106X74781	136613
8599-24-752	233868	PN11-18-X50	137427	M106T07472	134736	M135B00371	133403
8872-24-736	131802	PN11-18-X65	136377	M106T07771	134736	M135C00171	133403
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AM15-18-X10	138013	PN12-18-X65	138198			M135X00871	139199

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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M135X01571	139323	M191T68771	232229	M357X64471	231776	M371X54871	131802
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Cross reference list

## STARTER PARTS

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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M649T04471	133886	M800X52274	139616	MD602963	135979	MD611527	135903
M649T04871	135467	M800X52872	135927	MD604047	131110	MD611591	133049
M649T04971	133339	M800X54671	135927	MD604062	140326	MD611731	133341
M649T04972	133339	M800X54673	135927	MD604062	B140326	MD611731	333636
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M649T06871	133341	M800X57671	139616	MD604066	B140328	MD611918	133341
M649T06971	133342	M800X60471	230459	MD604642	135802	MD611918	333636
M649T06971	333637	M800X60671	139241	MD604644	133810	MD618269	230717
M649T07371	133339	M800X61671	230498	MD604645	133808	MD618270	135903
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M649T20471	138963	M800X70171	230717	MD607284	135118	MD618443	134736
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M649X01371	135467	M800X70787	234266	MD607413	134071	MD618458	137219
M649X01771	135365	M806X06971	136334	MD607416	134950	MD618460	140387
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M649X03573	133340	M841X84571	233455	MD607434	133052	MD618513	135467
M649X04473	133886	M863C04671	137713	MD607446	139414	MD618536	139401
M649X09571	139560	M863C04871	136416	MD607448	132472	MD618538	139199
M649X10171	139238	M863C04971	139868	MD607462	135201	MD618539	139240
M649X20171	133886	M863C05271	137713	MD607540	132386	MD618540	140967

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MD618546	135468	ME701461	232230	0-23500-0194	135693	0-47100-3940	135674
MD618547	139205	ME701462	139537	0-23500-0250	133393	0-47100-3944	135674
MD618581	133289	ME701466	140973	0-23500-0251	133393	0-47100-4060	134631
MD618591	235833	ME701467	138963	0-23500-0254	133393	0-47100-4062	134631
MD618593	139238	ME701468	139826	0-23500-0320	136139	0-47100-4070	134632
MD618608	139235	ME701484	141009	0-23500-0323	136139	0-47100-4071	134632
MD618613	133289	ME701486	235502	0-23500-0350	132514	0-47100-4100	137811
MD618619	140561	ME701487	231371	0-23500-0353	132514	0-47100-4140	132499
MD618659	140967	ME701488	139823	0-23500-0420	133291	0-47100-4160	137811
MD618728	231977	ME701489	139820	0-23500-0421	133291	0-47100-4220	135521
MD618887	134925	ME701490	139824	0-23500-0422	133291	0-47100-4240	137544
MD618958	138962	ME701492	139825	0-23500-0454	135871	0-47100-4270	133852
MD618961	139536	ME701494	141010	0-23500-0551	133854	0-47100-4360	132500
MD618962	135341	ME701495	139822	0-23740-0110	140549	0-47100-4390	137811
MD618963	139541	ME701640	232054	0-23740-0180	140549	0-47100-4420	231819
MD618964	139539	ME701648	231371	0-23740-0200	140770	1-12500-1530	132516
MD618965	139540	ME701651	231371	0-23740-0210	140770	1-21100-1190	132534
MD618966	139361	ME701689	233891	0-23740-0250	140551	1-21100-1370	137074
MD618968	231503	ME753433	139824	0-23740-0360	140732	1-21470-0211	141106
MD618969	231505	MM502019	140346	0-23750-0050	132503	1-21500-1040	132518
MD618971	139538	MM502135	140386	0-23750-0051	132503	1-21500-1530	132516
MD618972	139537	MM502137	140322	0-23750-0120	133863	1-21500-1590	132518
MD618974	231504	MM502137	B140322	0-23750-0220	134973	1-21500-1600	132518
MD619001	139414	MM502322	132917	0-23750-0250	135679	1-21500-1620	132518
MD619096	139241	MM502330	139411	0-25000-6080	132493	1-21500-2060	137071
MD619101	139202	MM502346	139236	0-25000-6081	132493	1-21740-0170	140518
MD619164	139398	MM502398	233904	0-25000-6082	132493	1-21740-0440	140448
MD619204	231415	MM502404	132387	0-25000-6083	132493	1-21740-0680	140488
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ME700119	132591	MM502531	132386	0-25000-7342	234253	1-23181-0030	135696
ME700121	134966	S409S00008	135574	0-25000-7690	233687	1-23351-0060	140521
ME700122	138565	S806P10901	133020	0-25000-7780	230186	1-23351-0080	140520
ME700125	137545	S806P94103	133020	0-25000-7810	233686	1-23351-0140	140517
ME700128	233868	S806P94203	135940	0-25000-7811	233686	1-23500-0010	135542
ME700131	231388	S930P12070	140222	0-25000-7812	233686	1-23500-0170	132519
ME700134	137457	S930P14101	140271	0-25000-7822	233687	1-23500-0190	135693
ME700135	132591	S930P14201	140222	0-25000-7823	233687	1-23500-0250	133393
ME700174	234319	S930P62070	140222	0-25000-7930	230186	1-23740-0010	140550
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ME700200	140391	S933P70605	140738	0-25000-8102	132494	1-23740-0050	140551
ME700210	140395	S933P70669	140738	0-25000-8103	132494	1-23740-0120	140549
ME700215	136344	U001X06096	233891	0-25000-8340	234253	1-23740-0140	140507
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ME700278	136142			0-25000-8430	132493	1-23740-0170	140549
ME700299	141189	<b>MOTORCRAFT</b>		0-25000-8900	233688	1-23913-0010	135672
ME700304	141189	SBE-324	133339	0-47100-2073	232223	1-23913-0040	135673
ME700307	234871			0-47100-2650	132495	1-23914-0020	135698
ME700316	132591	<b>MOTOROLA</b>		0-47100-2670	134630	1-23914-0030	135699
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ME700849	140412	0-21500-2001	137071	0-47100-2970	139510	7-21351-0620	140485
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ME700992	231772	0-23100-0240	234104	0-47100-3110	132498	7-23100-0140	132539
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ME701441	232391	0-23200-0150	235751	0-47100-3590	132500	7-23100-0200	134971
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ME701448	232054	0-23230-0281	135669	0-47100-3900	134974	7-23100-0290	132536
ME701456				0-47100-3901	134974	7-23100-0310	135668

Cross reference list

## STARTER PARTS

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>NIKKO</b> <i>Continued</i>							
7-23100-0330	134971	23310-9JE11	136613	23312-U6000	131783	23331-99003	141023
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7-23351-0060	140521	23310-D0200	134662	23312-V5301	132001	23331-99111	140829
7-23351-0080	140520	23310-H5000	138959	23312-W1700	135091	23331-T9000	140379
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7-23351-0140	140517	23310-J5500	132458	23312-W9811	230998	23331-Z9001	140337
7-23351-0150	140949	23310-J5501	137092	23312-Y0511	131087	23331-Z9002	140378
7-23351-0154	140949	23310-M4900	134121	23312-Y0700	131783	23331-Z9003	140378
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7-23351-0220	140906	23310-M8000	135653	23313-99202	133266	23333-1P100	138709
7-23351-0225	140906	23310-M8213	139400	23314-T9000	134966	23333-42L70	136947
7-25000-6090	132493	23310-N5900	132454	23314-Z9000	132845	23333-42L71	136946
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		23310-T9006	133056	23316-84G10	230549	23333-M8000	231298
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		23312-37506	131985	23319-M8011	140555	23340-0M210	231683
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		23312-42L70	138579	23319-Z9000	140489	23340-N5915	231399
		23312-42L75	139200	23320-J2001	135833	23341-10600	140306
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		23312-73C00	131988	23322-12G01	137833	23341-V0600	140495
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		23312-76201	131985	23322-42470	135468	23343-02N00	133750
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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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23343-22P00	138817	23343-Q9000	134457	23378-53J10	135467	23385-42L70	136895
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23343-29000	132914	23343-T0110	133052	23378-54A00	133730	23385-57J10	139416
23343-29006	132914	23343-T0111	133052	23378-57J10	140591	23441-25500	140227
23343-30R11	138011	23343-T3470	132059	23378-H5000	132424	23441-37501	140317
23343-30R12	138011	23343-T5002	133049	23378-M4901	132090	23441-43600	140312
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23343-31U00	138814	23343-V5301	132093	23378-N5910	133886	23465-70T10	231684
23343-31W00	131431	23343-W0400	133044	23378-N5911	133886	23465-D0210	134951
23343-36A00	132093	23343-W0401	133044	23378-N5912	139560	23465-N3300	133609
23343-36A01	132093	23343-W1700	133047	23378-V7200	133730	23465-P0610	134949
23343-36A10	133052	23343-W2800	138363	23378-W2810	140348	23465-V0700	133608
23343-37502	130811	23343-Y0513	133052	23378-AA050	135339	23465-W9810	138889
23343-37503	130811	23343-Z9000	132914	23378-AA060	135339	23470-43G00	137302
23343-37506	131431	23343-Z9006	132914	23379-09900	140340	23470-54A00	136111
23343-37A10	133052	23343-Z9011	139851	23379-0M300	140953	23470-GT000	230714
23343-43G00	133750	23343-AA000	133288	23379-1000	140334	23470-M8001	134477
23343-50Y13	138012	23344-Z9000	138121	23379-10G00	140567	23470-M8101	134477
23343-54A00	135370	23348-D0300	137306	23379-16E01	140334	23470-M8501	134477
23343-57J05	139164	23354-06W60	132459	23379-19900	140341	23470-N3300	135975
23343-57M70	136327	23354-10T00	133904	23379-1E400	140852	23475-E3010	135979
23343-57M71	136327	23354-16E01	135059	23379-1P100	140852	23507-99000	140824
23343-57M75	136327	23354-20H12	132387	23379-2100	140334	23507-99001	140824
23343-60U10	137930	23354-20R10	132012	23379-21000	140334	31220-51A10	135652
23343-61504	132059	23354-30R10	137764	23379-23380	140341	31320-51A10	135651
23343-63J11	133049	23354-36A00	135059	23379-37500	140339	31320-60A10	136602
23343-63J12	133049	23354-42L70	132011	23379-37502	140339		
23343-70T11	138012	23354-53J11	136229	23379-37503	140339		
23343-77A11	133049	23354-D0210	135581	23379-53J00	140986	<b>NSK</b>	
23343-80W00	139784	23354-K9160	136145	23379-54A00	140379	6902V	140224
23343-80W01	139784	23354-M8111	133480	23379-61501	140595	DB501005C	141090
23343-83W00	138809	23354-N5912	132386	23379-65000	140376		
23343-84A07	232000	23354-V0700	132450	23379-99008	140346	<b>OMC</b>	
23343-84A17	138012	23354-W3410	139409	23379-99015	140823	172869	133855
23343-85A11	138011	23357-02N00	133916	23379-G7000	140339	182869	133857
23343-85E00	231910	23357-04E10	132085	23379-J2000	140595	813839	133856
23343-88407	135287	23357-0C010	139410	23379-J5500	140378	981419	133856
23343-99013	130811	23357-0M300	235485	23379-M0100	140336	982187	133856
23343-99101	132470	23357-20H12	133007	23379-M4900	140338	982189	133856
23343-99105	139958	23357-25F00	133606	23379-V0700	140597	985063	133856
23343-99110	233122	23357-36A00	135364	23379-W2500	140379	985064	133856
23343-99200	139958	23357-43G00	135271	23380-0M300	140953		
23343-99204	233122	23357-50Y01	230868	23380-10600	140340	<b>ONAN</b>	
23343-99212	231734	23357-M4901	133041	23380-10611	140385	191-1087	231954
23343-B5010	131802	23357-N5900	233742	23380-10611	140385	191-1430	132472
23343-B5011	131802	23357-P0610	231502	23380-10G00	140567	191-1443	137739
23343-C0600	132058	23357-V0700	133042	23380-10T00	140379		
23343-C6800	132423	23357-W1011	133007	23380-16E01	140334	<b>OPEL</b>	
23343-C6804	132423	23357-W1700	133042	23380-19900	140341	1203165	130465
23343-C8601	134812	23358-07G00	140225	23380-21000	140334		
23343-D0300	132093	23358-07G00	140225	23380-21010	140391		
23343-E3011	133052	23358-M4900	140226	23380-37502	140339	<b>PERKINS</b>	
23343-E5011	131802	23358-V0700	140457	23380-37503	140339	2848203	130872
23343-G7001	132059	23359-N5911	134950	23380-41B00	140986	2848209	130951
23343-G7002	131431	23359-W1710	134948	23380-42L60	140786	2848611	130853
23343-G8400	138823	23359-W2800	139276	23380-53J00	140781	28730188	133531
23343-H0100	130811	23360-30R12	135401	23380-53J01	140933	28730189	133531
23343-H5000	131144	23360-50Y12	139199	23380-57J13	140591		
23343-H5001	131144	23361-0M300	137932	23380-57M60	140786	<b>PEUGEOT</b>	
23343-H9100	132093	23361-1P115	135341	23380-61503	140595	583567	133453
23343-J5520	132423	23361-W3410	138565	23380-77A01	140786	583577	133439
23343-L6000	230697	23363-07G00	140222	23380-E3010	140556	95562679	133363
23343-M0100	130811	23367-0M300	137933	23380-G7000	140339		
23343-M4900	132093	23367-1P100	138707	23380-J2000	140595	<b>PRESTOLITE</b>	
23343-M8000	132094	23369-29000	132847	23380-J5500	140378	15-1	232905
23343-M8001	132094	23369-32000	133607	23380-M0100	140336	15-2	232905
23343-M8003	132094	23369-T9000	135187	23380-M4900	140338	24-3	140264
23343-M8011	133288	23369-Z9000	132847	23380-M8310	140349	24-3	B140264
23343-M8100	130294	23372-99004	139665	23380-M8311	140349	15-4	232905
23343-M8110	133052	23376-AA000	137976	23380-U0110	140556	15-5	232905
23343-M8111	133052	23378-05E00	132090	23380-V0700	140597	MAJ4003	235620
23343-M8210	133049	23378-10G00	133730	23380-W2500	140379	MAJ4036	235620
23343-N3300	131800	23378-1E400	137121	23383-0M300	137935	MAJ4039	235620
23343-N3301	131800	23378-1E400	333647	23383-0M301	137934	MAJ4048	235620
		23378-41B00	139166	23383-31W00	231302		

Cross reference list

## STARTER PARTS

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>PRESTOLITE</b> <i>Continued</i>							
15-275	133857	MAB4109	235620	<b>REMY (DELCO)</b>		1114257	130499
15-283	133855	MAS4006	235620	549	235620	1114263	130499
15-298	133855	MAS4109	235620	32395	235620	1114264	130499
15-323	138068	MAU4037	235620	35058	140181	1114266	130499
15-325	232905	MAU4043	235620	35070	140064	1114268	130499
15-326	137766	MAW4048	235620	35070	B140064	1114270	130499
15-335	133855	MAX-4013	235620	38273	140070	1114271	130499
15-351	133857	MAX4081	235620	83091	130499	1114272	130499
15-365	133855	MAY4135	235620	103893	133023	1114273	130499
15-368	133857	MCL6206	235620	112632	232917	1114277	130499
15-386	138068	MDL-1063S	EX85-862/1	132255	233411	1114278	130499
15-393	133855	MDL-1064	230987	186798	137733	1114279	130499
15-394	133856	MDL2012CS	EX85-862/1	274875	233412	1114281	130499
15-3F	133856	MDL-2012CS	EX85-862/1	443527	233412	1114283	130499
15-400	133857	MG-77A	140053	453465	233162	1114287	130499
15-407	130493	MG-77A	B140053	800026	131769	1114289	130499
15-411	133856	MGD-2032S	140712	800066	130539	1114290	130499
15-420	133856	MGL-2032S	140713	800066	130539Z	1114291	130499
15-444	133856	MHJ7103	235631	800067	132731	1114293	133814
15-452	231811	MP-41A	141157	800068	131056	1114294	130499
15-453	231811	MZ-19S	132741	800069	131770	1114295	130499
15-471	133855	MZ4042	235620	800074	231970	1114297	130499
15-472	133855	MZ4057	235620	800077	130542	1114298	133814
15-486	133856	MZ-40AS	140264	800091	132113	1114299	130499
15-487	133857	MZ-40AS	B140264	800819	235642	1114304	130499
15-57	232905	MZ4142	235620	800965	138128	1114306	130499
15-61	232905	MZ4145	235620	801077	133461	1114322	132696
15-62	232905	MZ4146	235620	801191	235642	1114324	130499
15-63	232905	MZ4146A	235620	801227	230571	1114325	130499
15-64	232905	MZ4147	235620	801433	132678	1114327	133814
17-103	140712	MZ4147T	235620	801662	135939	1114328	130499
17-171	140713	P1-858	235631	801883	233684	1114330	130499
17-39	EX85-862/1	PD-7A	131766	807358	235630	1114333	130499
18-18	235631	PD-8A	131768	810620	140181	1114334	130499
18-58	235631	PD-9A	131768	811194	235630	1114335	130499
19-195	235624	PP-8A	131768	817807	235635	1114336	130499
24-23	140053	SAD-4001	232905	818265	230029	1114337	130499
24-23	B140053	SAD-4101	232905	820148	140182	1114338	133814
24-28	141157	SAD-4201	232905	820149	230679	1114339	130499
24-29	140264	SAD-4301	232905	821453	138660	1114340	130499
24-29	B140264	SAD-4401	232905	830540	131401	1114341	130499
36-67	230987	SAD-4403	232905	830620	130539	1114344	130499
42-32	141213	SAD-4501	232905	830620	130539Z	1114346	130499
42-50	141213	SAD-4502	232905	830621	132731	1114347	130499
50-263	132741	SAD-4503	232905	830622	131767	1114348	130499
59-11	235626	SAF-4001	232905	830842	131401	1114349	130499
59-146	235624	SAG-4001	232905	830845	230110	1114350	130499
59-16	235630	SAJ4003A	231811	851073	131056	1114351	130499
59-186	131766	SAJ4003B	231811	852961	131056	1114353	130499
59-195	235624	SAS-4211Y	130493	1107006	235620	1114354	130499
59-203	131768	SAZ-4201AC	133855	1107030	235620	1114356	130499
59-205	131768	SAZ-4201AHY	133857	1107035	235620	1114359	130499
59-248	235624	SAZ-4201AJ	133855	1107045	235620	1114362	130499
59-46	235629	SAZ-4201ANY	133855	1107169	235620	1114364	130499
63-34	235629	SAZ-4201AP	133857	1107174	235620	1114365	130500
63-45	235630	SAZ-4201BA	133855	1107412	235620	1114367	130499
63-5	235625	SAZ-4201BBY	133856	1107425	235620	1114373	133814
63-8	235625	SAZ-4201BC	133857	1107449	235620	1114378	130499
63-88	235629	SAZ-4201BH	133855	1107472	235620	1114379	130499
63-96	235625	SAZ-4201BR	133855	1107823	235620	1114380	130499
BRC-3103	235631	SAZ-4201BU	133856	1107878	235620	1114381	130499
EB-33	235630	SAZ-4201BW	133856	1108016	235620	1114388	130499
EB-59	235630	SAZ-4201CA	133855	1108093	235620	1114391	130499
EB-95	235624	SAZ-4201CJ	133855	1108096	235620	1114395	130499
EBA-11A	235630	SAZ-4201CPY	133856	1108099	235620	1114396	130499
EBB-122A	235630	SAZ-4201DDY	133856	1108176	235620	1114398	130499
EBB-132	235624	SAZ-4201E	133855	1108637	235620	1114399	130499
EBB-174	235624	SAZ-4201ELY	133855	1108645	235620	1114430	130499
EBB-74B	235629	SAZ-4201ENY	133855	1108977	235620	1114458	130499
EVF-2012S	141213	SAZ-4201EW	133856	1109618	235620	1114460	130499
GBF-79	141158	SAZ-4201EY	133857	1109676	235620	1114466	130499
MAB4016	235620	SAZ-4201N	133856	1113027	235620	1114468	130499
MAB4025	235620	SAZ-4201R	133855	1114223	138068	1114474	130499
MAB4050	235620	SAZ-4201U	133857	1114250	130499	1114487	130499
MAB4051	235620	SAZ-4201X	133855	1114251	130499	1114488	130499
MAB4052	235620	SBD-4201	138068	1114252	130499	1114493	130499
MAB4065	235620	SBD-4201A	138068	1114253	130499	1114494	130499
MAB4068	235620	SBD-4201G	138068	1114255	130499	1114495	130499
MAB4089	235620	SBD-4401	137766	1114256	130499	1114496	130499

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
1114499	130499	1115621	230198	1852884	RX1224	1893754	230428
1114500	130499	1115622	231919	1852887	RX1246	1893929	132730
1114502	130499	1115623	231913	1852888	RX124H6	1894023	140776
1114504	130499	1115624	231917	1852889	RX1354	1894211	130539
1114508	130499	1115625	231920	1852891	RX1354	1894211	130539Z
1114510	130499	1115627	231919	1852892	RX1344	1894212	132731
1114514	131590	1115634	231926	1852893	RX135H4	1894213	131056
1114515	131590	1115640	230198	1852894	RX134H4	1894214	131770
1114517	131590	1115641	231922	1852898	140755	1894218	231970
1114518	131590	1115643	231921	1852970	131769	1894219	231970
1114524	131590	1115645	131369	1861363	235630	1894221	130542
1114526	131590	1115657	233869	1861785	136926	1894321	230010
1114529	131590	1115663	233869	1861791	230798	1894635	140074
1114530	131590	1115667	233873	1862002	235630	1894636	140070
1114531	131590	1115668	233873	1862383	140217	1894637	140477
1114534	138068	1115673	233873	1867150	132682	1894638	140478
1114556	130499	1115679	235641	1868355	130538	1894642	233057
1114557	131590	1115683	233869	1869755	140478	1894643	233048
1114562	131590	1115701	234476	1872678	140215	1894931	233408
1114564	131590	1115712	234476	1875687	130537	1901272	131058
1114565	130499	1119778	130500	1875802	130540	1902610	131058
1114566	131590	1119781	130499	1875835	131403	1906031	230540
1114569	131590	1119798	130499	1875852	130540	1906046	230540
1114571	131590	1119832	131364	1876358	230594	1906302	230540
1114576	232219	1119833	130500	1876361	138680	1906493	131058
1114578	235006	1119853	131363	1876366	131627	1906918	RX9212
1114580	137339	1119855	132696	1876429	131168	1906945	RX604
1114581	137339	1119858	132696	1876849	131058	1906958	RX874
1114582	235006	1119872	133060	1876857	130538	1906962	RX874
1114583	137370	1119877	130500	1876881	232050	1906966	RX604
1114584	232219	1119878	133060	1877306	132691	1906968	RX874
1114587	138217	1119879	131363	1877345	133545	1906986	RX708
1115501	130500	1119882	130500	1877347	233171	1906987	RX874
1115508	130500	1119883	232221	1877348	132699	1906988	RX698
1115510	130500	1119885	130500	1877350	138128	1906989	RX9212
1115512	132696	1119888	132696	1877353	130540	1906990	RX664
1115513	132696	1119890	130500	1877354	130540	1909855	235623
1115517	133060	1119910	130499	1877355	130538	1909885	235623
1115529	130500	1119919	130499	1877356	231972	1911644	230555
1115530	232218	1119923	130499	1877361	131400	1913027	230540
1115531	130500	1119933	130500	1878079	235625	1913100	139332
1115537	232221	1119935	130500	1878400	132729	1913433	132682
1115540	130500	1119936	130499	1880449	131058	1913587	235625
1115541	232218	1119946	130499	1881148	235630	1913589	235625
1115543	132696	1119981	130499	1881625	235645	1913749	235620
1115544	131364	1119986	130499	1882486	235630	1914341	131766
1115547	131364	1119988	132696	1882549	235623	1914373	233057
1115548	131364	1119998	130499	1885103	235623	1914593	233046
1115555	133060	1119999	130499	1887463	235625	1914647	230796
1115557	131364	1828393	130537	1887989	131365	1914842	230107
1115558	133060	1828396	132694	1891143	132682	1914869	230515
1115559	131364	1835965	235630	1891278	233408	1914873	232998
1115563	133060	1836505	140185	1891404	135786	1915133	235630
1115564	133060	1837321	235620	1891565	138136	1916272	136340
1115565	131363	1838065	133864	1891916	131658	1916439	230017
1115575	131363	1839345	140185	1891918	135338	1916775	133864
1115576	131364	1839348	140185	1891927	140215	1917164	235635
1115582	232221	1841148	235630	1892160	138680	1918047	132682
1115583	132696	1846089	131767	1892890	RX664	1918079	131768
1115584	232218	1846097	139798	1892899	131769	1918219	235625
1115591	131356	1846614	131627	1893268	139285	1918621	230378
1115593	131369	1846926	130495	1893276	230795	1920400	230017
1115594	131361	1846955	233428	1893277	230428	1920919	235630
1115595	131349	1847807	233428	1893293	132114	1921351	235635
1115597	139337	1850844	235626	1893296	RX1084	1921805	233048
1115598	231912	1851430	130540	1893303	232994	1921998	131766
1115600	139337	1851546	233010	1893304	232995	1921999	131769
1115601	131349	1851550	135786	1893358	132680	1922457	230798
1115604	131361	1851632	230540	1893370	139798	1922818	235620
1115605	131361	1851954	232966	1893443	131429	1923484	140477
1115607	131364	1851960	233051	1893445	131429	1923535	235636
1115608	131349	1851961	131168	1893449	131403	1923904	140183
1115609	139209	1852026	232879	1893453	230418	1923907	141123
1115610	231914	1852410	131769	1893477	131058	1925348	235635
1115612	231915	1852530	130551	1893560	131056	1926605	138144
1115613	139209	1852716	130538	1893561	231970	1926618	132113
1115617	231925	1852880	RX1214	1893562	131770	1926622	230517
1115618	231916	1852882	RX122H4	1893736	231972	1927200	132694
1115619	230198	1852883	RX122H4	1893752	232533	1927848	233014

## STARTER PARTS

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>							
1927849	233013	1945109	130495	1949429	233532	1964516	233001
1927850	233015	1945350	132693	1949606	130511	1964857	233142
1927853	230105	1945356	135938	1949619	133024	1965042	235637
1928021	233011	1945400	131058	1949620	232999	1965048	132691
1928022	233009	1945472	230513	1950001	132699	1965082	235642
1928023	131410	1945476	233141	1950058	130538	1965358	130540
1928966	133019	1945484	130530	1950307	131659	1965514	131056
1928998	131766	1945487	130539	1950417	131658	1965529	232050
1929402	131769	1945487	130539Z	1950546	132113	1965538	130537
1929404	135786	1945496	130495	1950946	132113	1965723	130537
1929558	235635	1945500	130923	1951069	230818	1965724	131400
1930611	233416	1945506	130511	1951180	130540	1965730	132691
1930694	138680	1945509	140074	1951189	130511	1965923	130537
1930802	131769	1945517	130520	1951254	130553	1966224	131401
1930812	131658	1945620	132131	1951567	131408	1966228	131401
1931585	132694	1945778	235637	1951603	138699	1966232	232493
1931654	230012	1945801	132679	1951788	132699	1966288	131401
1932031	131768	1945804	230108	1952083	130539	1966391	230106
1932188	136318	1945827	230106	1952135	136924	1966931	130538
1932190	140183	1945840	130554	1952410	131769	1967042	131137
1932197	232827	1945842	130537	1952427	139660	1967044	131661
1932200	132735	1945849	130523	1952530	130551	1967045	130552
1932205	131408	1945853	130496	1953041	132735	1967277	232050
1932308	130540	1945857	232504	1953151	231970	1967295	131661
1932526	131766	1945860	233052	1953223	232504	1967330	131058
1932545	131766	1945862	233144	1953233	130554	1967335	132952
1932604	132732	1945879	132731	1953236	232590	1967354	130523
1932605	131766	1945883	232866	1953242	131058	1967357	132056
1932872	131137	1945897	132056	1954273	131401	1967454	130511
1932890	130540	1945906	130551	1954448	131174	1967747	233417
1933471	130538	1945916	232868	1954473	131401	1967779	130539
1933838	138128	1945963	130511	1954842	130537	1967779	130539Z
1933999	140406	1946089	131767	1954843	130537	1967952	130542
1934488	130540	1946220	131769	1954861	132952	1968122	232050
1935128	138133	1946221	132694	1955046	132113	1968131	133545
1935131	138133	1946229	130537	1955303	134665	1968355	130538
1935168	230106	1946386	130954	1955777	130539	1968396	139332
1935259	131137	1946391	130552	1955777	130539Z	1968998	233428
1935487	130539	1946400	RX604	1955937	131401	1969156	230571
1935487	130539Z	1946407	RX708	1955946	139798	1969323	130511
1935827	130537	1946414	132113	1955947	139798	1970310	232050
1935829	130537	1946426	RX9212	1955951	135338	1970376	133545
1935992	131769	1946434	RX954	1955989	132056	1970454	130511
1936647	131056	1946473	RX708	1955990	232999	1970455	130511
1937310	132825	1946483	RX708	1955991	140074	1970469	139332
1937554	233173	1946484	RX874	1955994	140074	1970527	132731
1937718	135642	1946487	RX9212	1956210	235629	1970538	131400
1938065	133864	1946491	RX1074	1956226	232911	1970548	131400
1938178	131174	1946575	130511	1956384	135338	1970711	131056
1938587	132113	1946725	235645	1956422	132686	1970988	233419
1938743	140181	1946765	230540	1956918	131658	1971147	235625
1939345	140185	1946945	131056	1957017	140944	1971167	131770
1939904	235637	1946957	131056	1957789	131058	1971277	231970
1939970	230012	1947353	132686	1957846	130511	1971563	131401
1940134	130540	1947542	138128	1957847	130511	1971568	131401
1940138	130540	1947680	131769	1958218	131057	1971706	133545
1940385	138699	1947912	133545	1958949	131174	1971707	130538
1940475	230517	1947920	131770	1959514	233413	1971839	130495
1940548	131400	1948078	130954	1960370	130539	1971979	132694
1940624	131400	1948098	130954	1960370	130539Z	1974157	133019
1941067	233015	1948452	130511	1960853	132392	1974352	130537
1941109	133019	1948464	131661	1960864	138144	1974355	136318
1941111	230013	1948506	130923	1960866	131627	1974396	132694
1941113	132735	1948508	130923	1960908	139799	1974641	233173
1941119	130538	1948515	130520	1961320	130551	1974655	233173
1941157	130538	1948521	232986	1961463	131058	1974778	130495
1941589	131769	1948522	130522	1961666	130511	1974786	131403
1941657	231972	1948529	230513	1962599	231739	1974929	130495
1942244	131137	1948537	230516	1962601	132877	1975046	130538
1942245	130531	1948600	131661	1962602	230678	1975073	135786
1942250	130521	1948606	131056	1962603	133027	1975194	131429
1942257	133461	1948690	130531	1962606	140404	1975249	138133
1942258	140074	1948691	131137	1962814	230571	1976129	132691
1942553	130531	1948877	138128	1962932	230570	1976832	230105
1942877	231972	1948999	130552	1963470	235629	1976861	RX954
1942950	130538	1949109	130495	1963772	231737	1976884	130539
1943600	233173	1949112	131661	1964056	230571	1976884	130539Z
1943628	140071	1949190	131658	1964127	130538	1977004	132731
1944841	230540	1949243	137485	1964410	233012	1977005	131056

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
1977006	131770	1986819	135338	3471797	133147	10457168	133976
1977011	231970	1986826	231740	3471834	140815	10457279	134837
1977013	130542	1986928	232928	3471912	130465	10457357	233757
1977031	133019	1986973	230410	3471929	131273	10457359	233758
1977264	132952	1986995	230883	3471977	131272	10457361	233756
1977306	132691	1987049	230010	3471979	131273	10457362	233387
1977355	130538	1987079	230010	3471982	131119	10457366	230186
1977490	230883	1987152	133507	3472200	136946	10457367	230186
1977661	232866	1987172	131362	3491016	132076	10457368	231800
1978123	135338	1987175	131354	3491027	131272	10457369	231819
1978136	230594	1987211	131481	3874045	130536	10457565	235444
1978282	230882	1987254	138680	9411375	133026	10457579	133975
1978292	230410	1987373	132877	9412305	233418	10457601	231927
1978297	132736	1987391	132736	9413260	233411	10457622	135089
1978337	232910	1987662	232533	9415235	230362	10467325	132685
1978449	131401	1987887	232501	9417501	133023	10467421	132944
1978517	131400	1987989	131365	9419572	133025	10467582	132729
1978754	233159	1988093	230821	9427815	233408	10467598	230409
1978756	230419	1988096	140206	9427882	233162	10467601	230413
1978850	232531	1988097	131353	9440920	140752	10467614	230411
1978851	230883	1988100	233000	9440922	140470	10467615	230406
1979384	135643	1988111	131366	9440923	140242	10467626	231748
1979387	131346	1988121	131352	9440924	140222	10467629	230408
1979391	136927	1988122	131352	9441510	140751	10467708	132685
1979413	131368	1988125	233979	9441512	140750	10467736	231746
1979434	232511	1988126	230544	9441607	140421	10467985	137339
1979451	230539	1988128	230541	9785608	132726	10468675	135063
1979458	131368	1988129	230541	10040001	233162	10468675	135063Z
1979494	131346	1988134	233007	10450720	232360	10468705	135720
1979498	131368	1988137	230542	10451976	230388	10468706	135720
1979534	230818	1988138	233159	10453919	234768	10468709	232530
1979598	232504	1988139	133022	10456405	132729	10468891	235500
1979634	131367	1988322	131359	10456406	132685	10468892	235500
1979792	131400	1988323	131362	10456422	130537	10468899	232929
1979835	130542	1988328	131360	10456454	137811	10468962	132944
1979870	232504	1988339	230539	10456455	133854	10469039	235006
1979994	132131	1988340	230539	10456456	134842	10469066	140421
1980864	230010	1988377	232590	10456457	140600	10469173	132943
1981974	131482	1988414	132113	10456458	140600	10469230	232872
1984000	233408	1988435	131350	10456459	140601	10469238	135720
1984076	139983	1988436	230543	10456460	134843	10469354	232544
1984097	139283	1988438	230542	10456464	134839	10470140	135720
1984098	232500	1988439	131352	10456465	230188	10470161	230407
1984501	132681	1988442	131351	10456466	133850	10470208	235500
1984511	132695	1988775	133022	10456467	230781	10470757	130537
1984527	230416	1988776	134429	10456468	230560	10470764	132736
1984530	141124	1988779	230542	10456469	230779	10470770	132691
1984590	139283	1988797	232873	10456470	231105	10470773	131400
1984734	230882	1988851	230883	10456473	232402	10470777	132736
1984974	131482	1988863	232874	10456474	133965	10470783	132735
1985065	131482	1988892	230543	10456475	230189	10471537	132729
1985129	131768	1988951	135338	10456482	231748	10471539	132695
1985138	132685	1988998	230543	10457010	231245	10472352	232968
1985150	230413	1989214	135816	10457026	231742	10472527	132945
1985234	140214	1989220	135462	10457029	231745	10472559	232891
1985235	234302	1989499	135324	10457032	230559	10472563	232877
1985237	131358	1989500	135323	10457034	232933	10472565	230911
1985243	134429	1989646	140271	10457036	230780	10472565	230911Z
1985246	230417	1989948	232587	10457037	230778	10472567	140053
1985247	233158	1992258	131401	10457055	133852	10472567	B140053
1985249	131354	1998139	133022	10457056	133854	10472809	233950
1985262	131481	3471463	132076	10457057	133975	10473700	135063
1985295	233396	3471483	132312	10457058	133976	10473700	135063Z
1985303	131362	3471490	130465	10457059	134837	10473701	135204
1985304	233049	3471505	140812	10457061	231927	10473716	230821
1985314	136928	3471506	140811	10457076	141127	10473793	135462
1985315	232565	3471553	140036	10457115	231251	10473852	232890
1985320	233050	3471553	B140036	10457116	135521	10475284	231746
1985323	131362	3471555	131122	10457117	135089	10475298	231746
1985564	131429	3471621	131442	10457118	232403	10475578	232989
1985617	139983	3471625	140813	10457119	140732	10475580	140939
1985960	233051	3471634	133147	10457120	140732	10475581	232524
1986019	132116	3471693	131119	10457121	137760	10475582	140940
1986096	232531	3471697	131272	10457122	231965	10475583	138225
1986244	133507	3471725	131273	10457123	231928	10475584	138224
1986457	135338	3471741	131119	10457142	232553	10475588	230604
1986466	230017	3471764	140814	10457151	231927	10475597	231328
1986468	230679	3471767	133147	10457152	231251	10475602	230396
1986470	138659	3471783	134675	10457167	133854	10475616	138216

## STARTER PARTS

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>							
10475616	138216Z	10498623	130538	D2021	131768	D934	130499
10475626	232990	10498663	230539	D2024	130538	D936A	132944
10475631	140941	10498715	233133	D2025	130538	D937A	231927
10475632	138213	10498718	140222	D2026	130540	D939A	231922
10475635	232993	10498863	131400	D2027	131429	D942	130499
10475638	233154	10498866	230517	D2028	136318	D942A	231921
10475639	138215	10498921	230029	D2029	132694	D943	130499
10475642	232924	10499094	230472	D2032	132695	D946A	232219
10475646	138217	10499097	132685	D2035	131429	D948	130499
10475654	138217	10499208	230428	D2036	131769	D952	130499
10475908	232918	10499230	132729	D2037	133545	D953	232221
10475974	230073	10499524	140943	D2040	132695	D954	130500
10475979	232926	10499632	139332	D2042	130538	D956	130499
10475990	230388	10499850	233171	D2043	130540	D958	130499
10476002	233151	10499852	138128	D2047	135816	D959	130500
10476004	230394	10499854	131769	D2048	132943	D960	130499
10476006	230391	10510083	235686	D2049	130537	D965	130499
10476117	231929	10511368	235699	D2050	135063	D966	130499
10476198	233007	10511369	237835	D2050	135063Z	D967	130499
10476433	232844	10511405	235677	D2051	130537	D969	130499
10476528	231968	10511406	235678	D2052	132695	D970	130500
10476561	233162	10511408	235609	D2053	133854	D971	130500
10476564	233162	10511409	235758	D2054	133975	D974	130499
10476596	231246	10511414	235699	D2055	133976	D975	130499
10476599	140942	10511415	237835	D2057	135063	D978	130499
10476603	138233	10511662	235686	D2057	135063Z	D980	130500
10476604	138214	10511746	235689	D2059	231967	D981	130499
10476642	138222	10511750	333058	D2107	130540	D982	130499
10476793	231244	10511753	235677	D3101	235635	D984	131590
10476865	232524	10511758	233960	D3339	232530	D985	232221
10477566	135063	10511799	237845	D3984	132131	D987	131590
10477566	135063Z	10511817	235734	D4109	131174	D991	131590
10477832	230543	10511838	235678	D4111	131400	D992	130499
10477892	235444	10511918	235679	D4119	131401	D994	131590
10477932	232524	10512004	235735	D4121	131400	DR1901	130844
10478008	232226	10512094	333002	D4122	131401	DR1903	132312
10478614	231927	10512095	235862	D4123	131137	DR2000	130465
10479522	133545	10514696	237835	D4124	131400	DR2001	131442
10482844	231929	10515696	237845	D4125	131401	DR2003	130465
10483614	235444	14057993	233155	D4128	131403	DR700	140812
10484034	141045	19024616	234518	D4135	132685	DR751	140811
10484662	234163	19024758	131370	D4136	132685	DR902	131119
10487126	230388	19024759	131371	D4140	132685	DR903	131272
10487534	232825	19024759	333156	D4143	131400	DR904	131273
10487536	231967	19024760	333152	D4148	132685	DR939A	231922
10487934	231967	19024760	131372Z	D4159	131400	F903	130493
10489381	138224	19024761	333153	D4218	132693		
10492409	231966	19024761	131373Z	D4223	132691		
10492437	231471	19024762	131253	D4227	132691	<b>SAWAFUJI</b>	
10493840	232984	19024763	131254	D4257	232872	1310-072-00X0	136524
10493851	232671	19024764	131080	D4264	132691	1310-108-00X0	232483
10495156	230544	19024765	130492	D4303	138699	1320-073-00X0	136517
10495812	135323	120483614	235444	D4307	133019	1320-097-00X0	138964
10495828	232988	1114292A	130499	D4310	230410	1320-098-00X0	234107
10495881	132729	1891565D	138136	D4313	230409	1320-100-00X0	234108
10495897	232988	1918886C	131769	D4908	131408	1320-121-00X0	235787
10495931	132685	738U	235620	D4951	230517	1331-039-00X0	136529
10495984	135462	A2000	133864	D4954	230517	1331-039-10X0	232484
10496037	135643	C2001	130536	D762	RX1084	1331-043-00X0	136528
10496042	131401	D1666	140070	D780	132945	1331-046-00X0	136528
10496043	131400	D1671	140215	D903A	139337	1350-076-00X9	136522
10496109	230679	D1674	140071	D904A	139209	1350-079-0109	136523
10496330	230409	D1676	140181	D905A	231915	1350-079-01X9	136523
10496573	230544	D1678	140182	D913A	131590	1350-079-10X9	136523
10496643	132691	D1680	140185	D914	130499	1350-083-20X9	137280
10497046	132685	D1682	141123	D915A	230198	1350-084-0119	137280
10497105	232590	D1684	140074	D916A	231919	1350-097-00X9	136170
10497193	231245	D1688	140183	D917A	231913	1350-098-00X9	136173
10497257	136342	D1689	140217	D918A	231917	1350-101-00X9	136171
10497269	230682	D2002	132694	D919A	231920	1350-101-10X9	136174
10497275	132944	D2005	131769	D921A	231919	1350-101-11X8	136174
10497522	133545	D2006	132694	D922A	132944	1350-101-11X9	136174
10497538	230414	D2008	130537	D923A	231916	1350-102-20X9	232485
10498158	232929	D2009	131769	D924A	231925	1350-105-00X9	136540
10498407	132695	D2010	235625	D930	130499	1350-105-10X9	136540
10498438	130540	D2011	235623	D930A	133852	1350-105-11X9	136540
10498527	132943	D2014	130537	D931	130499	1350-109-31X9	138967
10498540	132945	D2017	130540	D931A	230198	1350-109-32X9	138967
10498543	136929	D2020	130537	D932	130499	1350-111-10X9	138967
						1350-111-11X9	138967

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
1350-126-02X9	234662	37343-37506	131431	STC7100	141214	28111-51011	140326
1350-126-03X9	234662	37343-G7002	131431	STC7101	141215	28113-13060	139051
1350-126-70X9	234662	49200-7212	132796	STC7102	141216	28113-16010	139883
1350-126-71X9	234662	49201-7212	137440	STC7103	141217	28113-16070	139492
1355-028-00X0	136525	49202-7002	138355			28113-41011	139271
1355-030-00X0	138969	49202-7212	137350	<b>THERMO KING</b>		28115-17020	230899
1359-063-00X8	234554	49204-6501	137454	44-6676	133605	28115-54011	136243
1359-063-00X9	234554	49206-5501	140336	44-6681	133605	28115-56180	136182
1361-049-01X0	136512	49206-5804	140349	44-964	231975	28115-64040	137448
1361-053-10X0	136511	49207-1001	140336			28118-77090	135475
2602-000-00X0	140520	49207-5501	140336	<b>TORRINGTON</b>		28120-10710	135102
2620-011-00X0	140520	49207-5804	140349	DB59046	140470	28120-15010	138355
2620-094-00X9	140835	49209-7222	134856	FJ08	140620	28120-15090	135790
2620-105-00X9	140832	49210-5401	139834	HK0608E	140620	28120-22060	135750
2620-106-00X9	140838	49210-5602	131807	J65	140752	28120-26071	137350
2620-108-00X9	140836	49210-6401	133044	J78	140421	28120-47040	135751
2660-006-00X0	140822	49210-7002	131807			28120-54380	139149
2660-057-00X0	140823	49240-7002	136713	<b>TOYOTA</b>		28120-56071	135750
2660-068-00X0	140824	49243-7002	140363	14278-63181	135127	28120-64010	135102
2660-068-10X0	140824	49291-7502	136887	25150-54031	137980	28120-64040	137977
2660-071-00X7	140829	89206-8602	140357	27274-87501	136087	28120-66040	136897
2660-074-00X7	140828	89206-8702	140357	28011-10030	133631	28120-70020	136885
		89210-4122	131807	28011-13060	234402	28120-74070	136897
<b>SJCE</b>		94208-2940	140336	28011-16040	136899	28120-77090	135750
IM0006	140574	94208-300	140336	28011-20540	132004	28120-87210	135802
				28011-20571	132004	28120-87211	136885
<b>SKF</b>		<b>SUZUKI</b>		28011-22010	131110	28130-13010	231311
60002RS1	140271	12234-63071	133713	28011-22020	131110	28130-16070	233551
6082RS1	140222	12234-63072	133713	28011-22022	131110	28130-35020	231638
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69022RS1	140224	12234-63381	133715	28011-40014	130441	28130-64130	233547
69032RS1	140225	12234-63461	133716	28011-40021	130442	28130-65090	231638
69042RS1	140226	12264-63081	133711	28011-41011	130441	28130-72020	231638
69052RS1	140227	13815-63081	133711	28011-41012	130441	28130-76070	231483
69062RS1	140868	13968-63081	133711	28011-41020	130442	28130-87705	134507
6906RU	140868	14278-63511	136713	28011-45020	130442	28131-20010	140328
HK0408	141168	15425-63071	134369	28011-54010	132942	28132-15010	136713
HK0509	140617	15511-63071	134370	28011-54070	137293	28132-87701	136713
HK0608	140620	19212-63071	134368	28011-54070	137293	28136-15010	135127
HK0609	140619	19212-63121	135342	28011-54380	139653	28136-87502	135127
HK0808	140751	28125-41020	141238	28011-55050	139653	28138-15010	231213
HK0810	140468	31110-60C40	136885	28011-60010	130442	28140-15010	140363
HK0908	141247	31110-78310	138355	28011-60040	130442	28140-15090	132872
HK0910	140935	31110-79030	135927	28011-60041	130442	28140-26070	133661
HK1010	140482	31132-44110	133715	28011-64010	136796	28140-34030	140362
HK1012RS	141001	31151-60A10	230568	28011-64020	136795	28140-54070	140364
HK1210	140242	31151-83010	230567	28011-64030	136795	28140-54380	139150
HK1212	140494	31152-56010	140325	28011-64150	136795	28140-64040	137021
HK12142RS	141054	31152-63210	140326	28011-66020	139244	28140-74070	135339
HK1214RS	141054	31170-51A80	230852	28011-70020	136086	28140-76060	137955
HK12162RS	140904	31191-51A10	139051	28011-74010	136313	28140-76070	138419
HK1512	140495	31191-79661	139883	28011-74060	136313	28140-76090	137955
HK1514RS	141039	31191-86030	135468	28011-74070	136447	28140-77090	140361
HK1812	140375	31220-52A20	135652	28011-76070	137753	28140-87701	133660
HK1816	140197	31220-63210	130814	28011-76070	137753	28140-87704	136314
HK2012	140457	31220-70030	231976	28011-87102	131110	28142-10011	140357
HK2212	140381	31220-73010	130814	28011-87505	136794	28142-21010	140356
HK22162RS	140972	31220-74010	130814	28011-87706	132547	28142-25010	140356
HK2220	140733	31220-78210	131807	28011-87710	136797	28142-25011	140360
HK3016	141040	31220-79620	138813	28013-70020	139829	28142-25020	140359
NK1012	140903	31220-82130	133288	28017-19500	131830	28142-34030	140362
NU305	140650	31220-83020	133288	28017-19502	131831	28142-46013	140358
Subaru		31220-84030	133288	28017-19511	131833	28142-46020	140358
23312-AA000	132010	31310-87400	133713	28017-19512	131832	28142-47021	140358
23312-AA010	132009	31311-51A10	136862	28106-22060	132570	28142-70020	140740
23312-AA030	136745	31311-60A12	136613	28106-22071	132570	28149-10020	133808
23312-AA040	136744	31311-60C40	136884	28110-10030	230529	28150-10020	133809
23312-AA050	136923	31311-64B10	136613	28110-10040	137423	28150-10070	138183
23337-AA020	231571	31311-64B11	136613	28110-11010	139076	28150-12030	131084
23378-KA010	137653	31312-88C00	133716	28110-15130	136073	28150-12031	131084
24370-56108	138960	31341-60A10	139200	28110-16070	233552	28150-15010	131807
28530-0330	140358			28110-72010	136071	28150-15011	131807
28530-0390	140358	<b>TECUMSEH</b>		28110-72030	136934	28150-15012	131807
28531-0300	140357	32572	141211	28110-74010	136572	28150-15013	131807
28531-0680	140363	33431	234256	28111-46010	140329	28150-16110	230581
31220-79030	133590	33842	234261	28111-46011	140330	28150-16160	136886
31220-82230	135590	33844	234121	28111-46012	140329	28150-16271	234916
31320-63210	131110	33849	141210	28111-47010	141235	28150-17040	230574
31320-78130	134960	34949A	234122	28111-51010	140326	28150-22011	130814

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
<b>TOYOTA</b> <i>Continued</i>							
28150-23010	131084	28226-54220	139047	B-3503	230851	SD-3180	237834
28150-23011	131084	28226-54380	139494	B-4114	137167	SD-4014	133437
28150-24010	231997	28226-64200	233689	LE-3308	233376	SD-4061	233436
28150-24011	130814	28229-56080	135474	LE-6011	235313	SD-4111	132459
28150-24030	231997	28235-54070	132563	LE-6023	134745	SD-4161	231795
28150-24060	130814	28235-70020	137979	LE-7005	232969	SD-4163	233967
28150-24061	130814	28251-15090	136887	M-0101	139203	SD-4226	230557
28150-24070	130814	28251-50020	136887	M-0102	135468	SD-5031	233457
28150-24071	130814	28251-54070	139455	M-0105	136895	SD-5032	233458
28150-25010	130814	28253-1040A	235140	M-0112	133403	SD-5036	137753
28150-25013	130814	28253-1050A	235211	M-0113	139200	SD-5036	137753Z
28150-25032	130814	28253-45020	140222	M-0114	135341	SD-5051	136795
28150-31040	134933	28254-45020	138570	M-0115	136894	SD-5054	138568
28150-31050	134933	28254-64040	233546	M-0122	231291	SD-5057	233892
28150-31051	131084	28254-77090	138569	M-0209	138579	SD-5058	234911
28150-33020	130814	28274-87501	136087	M-1509	138584	SD-5060	139653
28150-33021	130814	28274-87502	138026	M-1513	230500	SD-5075	234720
28150-34060	138183	28317-22060-71	134484	M-2209	237015	SD-5080	233451
28150-34070	130814	90099-00138	230721	P-06007	137042	SD-5102	139840
28150-34080	138183	90099-00158	230721	P-06106	136655	SD-5103	234719
28150-36050	131084	90099-01146	141237	P-06212	135403	SD-5136	230857
28150-37010	131807	90099-01538	230058	P-06406	137045	SD-5170	138681
28150-41011	130814	90099-01539	233690	P-06407	137044	SD-5274	234708
28150-41020	131084	90099-07047	138026	P-06512	135404	SD-5278	233452
28150-46090	230582	90099-07124	136087	P-2022	231391	SD-5279	132865
28150-46120	230582	90099-08100	230059	P-2106	231106	SD-6001	235286
28150-54011	137980	90099-10028	140328	P-3508	231891	SD-6002	235285
28150-54051	137980	90099-10031	140325	P-3513	133021	SD-6104	137218
28150-54140	137980	90099-10058	140325	P-3516	138565	SD-8151	233743
28150-54181	230827	90099-10134	140333	P-3519	230717	SEL-05	131408
28150-54190	137980	90099-10149	140424	P-3801	231388	SH-2301	234947
28150-54220	137980	90099-10150	140425	P-4403	137712	SH-2301	333574
28150-54290	230827	90099-10157	140426	P-4407	231988	SH-3200	133342
28150-54380	234960	90099-10158	140427	P-4412	133450	SH-3600	232311
28150-56011	137033	90099-10180	140787	P-500101	139489	SH-5006	139488
28150-60040	130814	90099-10181	141011	P-500112	139455	SH-5011H	137021
28150-60060	131084	90099-10182	140792	P-500129	231764	SN2S-258	138311
28150-66011	134413	90099-10183	140788	P-500608	139490	SNLS-021	333006
28150-70030	234992	90099-87501	136087	P-500631	139487	SNLS-022	333007
28150-72080	138184	<b>TRANSP0</b>		P-5008	138576	SNLS-066	333018
28150-74070	138002	6000-2RS	140271	P-501208	230561	SNLS-067	333013
28150-74120	233897	608-2RS	140222	P-5015	231805	SNLS-071	333016
28150-74130	234915	902-2ZZ	140224	P-502227	233375	SNLS-106W	231178
28150-74140	234915	903-2RS	140225	P-502708	234419	SNLS-112BR	333020
28150-75130	230583	904-2RS	140226	P-5613	233374	SNLS-116ATP	333004
28150-77060	134413	906-2RS	140868	P-601008	231487	SNLS-116BTR	333012
28150-77061	134413	M5-244A	131270	P-610217	230715	SNLS-117ATP	333005
28150-87203	130814	<b>UNIPOINT</b>		P-610303	231489	SNLS-1352	235816
28150-87208	135652	AM-0300	136196	P-610314	138305	SNLS-143K	130497
28150-87704	131807	AM-1057	234217	P-610315	231287	SNLS-145K	137809
28151-22060	132879	AM-1060	137042	P-610322	231286	SNLS-146CK	131057
28160-11711	136862	AM-1065	234213	P-700503	141009	SNLS-146P	131367
28160-15090	134370	AM2018	137069	P-700507	231459	SNLS-147CK	131058
28160-1560	138964	AM-2370-1	231493	P-700511	231456	SNLS-147P	131368
28160-26070	132796	AM-2411-1	239092	P-700515	139821	SNLS-148K	130498
28160-54070	134369	AM-3200-1	239829	P-800119	136033	SNLS-151	232221
28160-54071	134369	AM-4200	131365	P-800120	231387	SNLS-154P	130489
28160-54380	139148	AM-4220	130551	P-800128	231803	SNLS-155P	130488
28160-70021	136884	AM-4251	130553	P-800201	136897	SNLS-156P	133180
28160-74070	136896	AM-4290	233960	P-800230	231483	SNLS-157G	133146
28160-75120	231894	AM-4322	130923	P-800717	230581	SNLS-157P	133181
28160-76060	137953	AM-5011H	137978	P-802117	234879	SNLS-1773	235609
28160-77090	132553	AM-5021	139148	P-803317	234916	SNLS-17A	133617
28160-87207	136884	AM-6007	333061	P-804430	231529	SNLS-17B	333015
28160-87503	136862	AM-7900	234100	P-8310	233454	SNLS-236B	135583
28160-87702	135824	AM-7900-1	234100	P-911307	233453	SNLS-2371	233716
28160-87705	134369	B-0305	138683	P-911807	234681	SNLS-237L	134378
28160-87706	134370	B-0314	137169	RS-225	130879	SNLS-245P	131345
28163-10020	136088	B-0403	134677	SD-2090	234323	SNLS-24A	132940
28163-70020	136089	B-0503	230850	SD-2107	137891	SNLS-258K	234917
28163-87501	136088	B-0603	135897	SD-2107	137891Z	SNLS-2809	130302
28163-87701	136089	B-0703	134815	SD-2192	138308	SNLS-2809	333137
28163-87702	136175	B-1003	137763	SD-2192	138308ZZ	SNLS-2809	130302Z
28165-26040	135342	B-1203	136199	SD-3018	237015	SNLS-2819	130303
28165-77090	138608	B-2114	137896	SD-3036	233846	SNLS-2819	333138
28177-70020	139049	B-220314	233663	SD-3038	236079	SNLS-2819	130303Z
28211-51011	140326	B-3114	137619	SD-3039	232054	SNLS-2961	231711
28222-77090	138148			SD-3042	236080	SNLS-2962	130303
28226-28051	237531			SD-3080	236110	SNLS-2962	333138



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
SNLS-2962	130303Z	1090040KT30SM	140714	KT10900	140714	074771	134935
SNLS-2963	231711	1127040CP30SM	136660	KT18900	231162	074952	140119
SNLS-2964	234129	1385540AT30SM	234213	KT20249	140714	074952	B140119
SNLS-2964	333164	1389040AT30SM	137042	KT21368	140749	074981	139588
SNLS-2965	231711	1637540DV30SM	135401	KT47601	140749	075093	PSX81-824
SNLS-2965	333165	1693240CP30SM	136655	SO51189	138068	075162	130461
SNLS-2966	231711	1780040AT30SM	137044			075165	130461
SNLS-2966	333165	1801940DV30SM	135400	<b>VALEO KOR. → VALEO</b>		075238	USX682
SNLS-305	232452	1819740CP30SM	231004	<b>VALEO</b>		075269	PSX115-1162
SNLS-327K	134430	1820040DV30SM	135408	030828	140066	075289	140683
SNLS-329K	139085	1822140CP30SM	136660	030828	B140066	075289	B140683
SNLS-330K	139112	1890040KT30SM	231162	035070	140064	075371	137291
SNLS-331K	133200	2024940KT30SM	140714	035070	B140064	075379	132899
SNLS-332K	131078	2025040CP30SM	136655	046388	140672	075452	PSX64-702
SNLS-333K	131079	2034640DV30SM	135404	046388	B140672	075593	131188
SNLS-334K	131275	2071640CP30SM	136655	046390	140673	075658	130238
SNLS-6006B	333008	2136140C930SM	231004	046390	B140673	075679	130757
SNLS-602	133076	2136840KT30SM	140749	046390	B140673	075707	PSX1324
SNLS-6022	331918	4419240DV30SM	135406	046695	135292	075914	132954
SNLS-603	133290	4733840DV30SM	135409	047403	140068	075943	PSX115-1162
SNLS-6033	234160	4743140CP30SM	136655	047403	B140068	075953	131618
SNLS-6037	230018	4760140KT30SM	140749	047852	140065	076651	130432
SNLS-603A	234159	4787140DV30SM	135402	047852	B140065	076828	233503
SNLS-603B	234161	4793640KT30SM	140714	048499	140679	076870	133169
SNLS-603C	234162	4823040CP30SM	137045	048499	B140679	076885	134360
SNLS-605B	333009	4872940CP30SM	137045	050488	140067	076980	130759
SNLS-606A	333017	4872940SC30SM	137045	050488	B140067	077171	130758
SNLS-6073	139537	5265040CP30SM	231003	050531	140667	077265	131208
SNLS-6074	237498	5265440KT30SM	140714	051914	140043	077417	139595
SNLS-608	231978	5663540AT30SM	234217	051914	B140043	077526	138140
SNLS-6089	231977	5668140CP30SM	136660	053459	133169	077770	131798
SNLS-609	133039	5668640C930SM	231004	053770	130757	77770	131798
SNLS-609-G	133275	566864CP30SM	231004	054104	235085	077771	130241
SNLS-609N	231820	5695240KT30SM	231162	054174	235086	077774	134083
SNLS-610CP	134915	5695340KT30SM	135409	054335	235087	077776	130463
SNLS-610P	133284	5695KT30SM	135409	055105	130456	077991	130462
SNLS-610S	233889	5703840CP30SM	136660	055330	140680	078039	140501
SNLS-610XP	230385	5716740KT30SM	140714	055330	B140680	078039	B140501
SNLS-612G	133270	6024140GE30SM	230399	055578	136431	078166	PSX106-1072
SNLS-614E	333001	6073540KT30SM	140714	056328	136426	078265	130461
SNLS-6216	139784	7010440DV30SM	135402	58071	235790	078861	130463
SNLS-6241	231996	7017540DV30SM	135400	059058	130461	078862	130432
SNLS-627K	137798	AT13855	234213	059305	133442	078863	131188
SNLS-631P	134627	AT13890	137042	059390	131343	078900	PSX1124
SNLS-645K	134841	AT17767	137044	059427	139478	079011	130463
SNLS-647B	231819	AT17800	137044	059453	231717	079243	139380
SNLS-672P	133286	BG3037S	141227	059454	136671	079333	132962
SNLS-675A	231457	BG3038S	141228	059724	132953	079476	133149
SNLS-675AK	231458	BG661011S	141226	060991	130425	079646	132170
SNLS-751P	230914	CP01456	136655	068763	140667	079692	130434
SNLS-7531	237102	CP17188	137045	070672	130456	079801	131173
SNLS-7532	138418	CP18197A3	231004	071381	140670	092010	233503
SNLS-7607	137870	CP20250	136655	071381	B140670	092079	130432
SNLS-775	333002	CP20716	136655	071437	140669	092081	131188
SNLS-R121	234163	CP48229	137045	071437	B140669	092179	130461
SNLS-R132	333010	CP48230	137045	072101	140066	092181	130463
SNLS-R241	230186	CP48231	137045	072101	B140066	092322	131798
SNLS-R243	233891	CP48719	137045	072175	138646	092433	PSX108-1092
SNLS-R247	237090	CP48749	137045	072591	PSX64-702	092448	130463
SNLS-R252	333011	CP551353AS	136655	072595	PSX54-692	092524	231331
		CP551406A	136660	072619	PSX77-784	092528	135018
		CP551406AS	136660	072630	PSX83-844	092533	135018
		DV02557	135403	072631	PSX81-824	092645	136273
		DV08154	135402	072632	PSX77-784	092655	PSX115-1162
		DV16375	135401	073294	134791	092718	132962
		DV18019	135400	073302	131071	092744	PSX1254
		DV18200	135408	073315	137289	092878	PSX1292/1P
		DV20346	135404	073684	130461	092883	PSX1304
		DV44192	135406	073695	139221	092914	142345
		DV47338	135409	074077	136428	092914	PSX1332
		DV47871	135402	074322	140680	092925	PSX1324
		DV551067	135409	074322	B140680	092999	133970
		DV551067A	135409	074330	140671	093079	133442
		DV551067AS	135409	074330	B140671	093141	134360
		DV551068A	135411	074515	133712	093297	130432
		DV551092A	135410	074653	136427	093304	131173
		DV551092AS	135410	074657	231720	093321	130463
		DV70104	135402	074658	136426	093509	130461
		DV70175	135400	074764	131071	093511	131173

**UNITED TECHNOLOGIES**

**STARTER PARTS**

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>							
093566	134360	099932	133128	182039	137957	182460	133533
093623	130759	100111	131798	182041	135645	182461	131171
093625	131188	100187	131798	182047	131999	182462	133534
093670	130461	100234	231849	182048	132029	182463	133166
094202	132964	100462	132025	182049	132027	182464	133128
094635	132962	101061	131127	182050	231117	182467	230126
094701	134360	101091	132968	182051	136320	182498	136320
094782	131798	101292	132175	182052	230253	182520	133128
094795	131071	101581	131813	182053	132028	182563	132977
095033	134083	101582	133991	182056	134813	182591	135387
095304	131173	101598	132962	182058	136620	182594	138857
095374	131798	101646	133168	182060	136227	182717	136255
095381	130463	101649	132199	182061	140531	182848	139477
095425	131069	101763	235840	182063	140533	183412	134292
095442	131068	101910	137271	182064	PSX115-1162	183957	133647
095464	130760	101923	132618	182065	PSX1292/1P	184194	135282
095609	131187	102101	131127	182066	142345	184448	132974
095654	140676	102190	133166	182066	PSX1332	184488	132975
095654	B140676	102197	132268	182067	142345	184630	138642
095699	133150	102217	131171	182067	PSX1332	184671	138408
095755	134360	102295	232011	182068	PSX1304	184795	139318
095759	131071	102380	131813	182069	PSX54-692	184799	231667
095823	131798	102846	132176	182070	PSX119-1202	185182	131999
095955	131020	102849	131584	182072	PSX106-1072	185283	233450
095956	130761	103063	140959	182073	PSX122-123-124	185290	135084
095958	130761	103063	B140959	182074	140534	185441	135083
095965	133214	103066	232632	182095	140535	185457	137455
095972	136881	103489	131584	182096	140536	185744	231667
095976	134615	103611	132177	182112	PSX77-784	185915	135389
095981	133136	103624	132178	182114	PSX81-824	186020	135083
095990	130762	103783	131798	182115	PSX81-824	186321	139905
096053	131798	103794	131584	182117	140840	186381	133647
096118	130432	104147	132107	182118	PSX1324	186448	140919
096119	131188	104150	132108	182132	PSX83-844	186456	133897
096414	230218	104164	140440	182136	140537	186867	135647
096473	131810	104164	B140440	182138	140539	186938	135647
096485	140684	104502	132178	182139	140540	187077	138113
096485	B140684	104594	133532	182140	140541	187084	234088
096486	138140	104604	133163	182142	140526	187144	PS155B
096507	131117	104927	132206	182145	140851	187144	PSX1554
096573	132623	105254	133534	182146	PSX1124	187428	139320
096628	139595	105294	132109	182148	136005	187449	231413
96628	139595	105325	132200	182149	139647	187528	139478
096666	132268	105325	132200Z	182152	138176	187567	230353
096859	130461	105328	132110	182153	PSX83-844	187778	PSX142-1444
097062	130759	105332	132200	182154	132971	187779	PSX142-1444
097298	130461	105332	132200Z	182155	138649	187788	139477
097338	133442	105464	140258	182156	132971	187863	139473
097394	136642	105464	B140258	182157	140472	187888	PSX1564
097802	137573	105489	131584	182158	140473	187983	230354
097804	134790	105538	131999	182159	139535	188256	135084
097843	131117	105540	132020	182160	138647	188571	PS145
97895	235789	105715	140259	182162	PSX884	188595	234086
098048	132268	105715	B140259	182163	132972	188993	231932
098065	131798	106009	130948	182164	140474	190097	234119
098098	132190	106062	132956	182175	132027	190097	333653
098356	132173	106140	132181	182176	133897	190986	PSX160-1644
098360	134628	106142	133533	182177	231204	191060	PSX160-1644
098396	131798	106143	133533	182178	133336	191601	236797
098437	132191	108458	133166	182187	138643	191769	239359
098555	131186	135081	233592	182188	133150	191771	PSX166-1674
098800	131798	142076	142076	182194	USX64-652	191772	PS169B
098802	134360	180237	PSX1124	182197	139174	191772	PS170B
098888	140038	180546	231351	182201	133167	191772	PSX169-1704
098888	B140038	180719	138208	182227	132107	191773	PS169B
098896	130948	180753	136619	182243	139898	191773	PS170B
098945	136620	180754	133233	182423	132967	191773	PSX169-1704
099217	131798	180826	132021	182424	132966	191849	PSX166-1674
099378	133151	180827	133897	182430	135292	192053	132028
099382	131127	181068	132022	182432	132968	192125	237776
099394	136642	181069	132025	182438	131071	192285	PSX168-1674
099444	131798	181084	133077	182441	133149	192978	236797
099623	134645	181142	132968	182442	133169	193512	139473
099686	132966	181277	132021	182448	132623	194440	330533
099687	132967	181404	132024	182452	132268	194480	330533
099738	131170	181961	133646	182455	131798	300591	133150
099741	131190	182036	138112	182457	133151	300679	PSX81-824
099745	133167	182037	PSX152-1538	182458	232011	300687	PSX1304
099931	131111	182038	138645	182459	133163	300706	PSX133K2

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
300752	132268	594152	235498	594345	139477	594534	137399
300838	133139	594155	133128	594347	139476	594535	137399
300841	PSX136-1374	594156	132025	594348	235106	594538	135081
300842	134902	594157	136320	594351	139224	594541	235706
330104	330104	594163	135085	594351	333648	594542	235707
442911	131431	594163	333203	594354	139985	594547	235708
504047	133128	594169	PSX148-159K	594355	133128	594549	235709
544059	136320	594177	137733	594356	235179	594551	234151
549185	135389	594178	132976	594360	PSX148-159K	594569	231537
588799	133442	594181	231610	594361	231073	594573	234188
589053	133442	594183	232012	594362	231163	594579	231238
589074	132962	594185	135389	594363	231072	594592	234152
589077	132964	594187	138151	594365	135390	594597	236805
589173	131343	594188	132977	594368	135084	594604	132976
593253	138112	594189	132977	594370	132976	594607	136255
594015	133079	594192	231466	594373	138151	594631	234819
594019	133079	594195	230599	594374	137732	594638	232041
594020	135420	594200	234021	594378	233996	594646	236801
594021	133079	594207	133079	594380	233795	594657	236270
594022	135420	594208	231718	594381	231841	594658	236269
594024	136908	594214	135647	594382	234086	594665	236609
594028	132028	594219	233697	594386	142346	594673	236611
594029	132974	594220	138945	594386	PSX144-145K	594674	333317
594030	139153	594221	230733	594389	231093	594696	237776
594031	132974	594222	233617	594390	139439	594699	234387
594032	132975	594232	133079	594391	234388	594704	136255
594033	139153	594234	133079	594392	234389	594724	330689
594034	139318	594236	138187	594394	234386	594725	139473
594035	231667	594237	133079	594395	234387	594726	330452
594040	132022	594238	138187	594401	234153	594743	236626
594042	133897	594240	136320	594407	234969	594773	332103
594043	230963	594242	231074	594410	231932	594779	332103
594045	132976	594243	135636	594411	232041	594780	136763
594046	234579	594245	131999	594412	138187	594780	333646
594047	132977	594247	138113	594413	233795	604521	140065
594048	232012	594248	234918	594414	236975	604521	B140065
594053	133533	594251	139905	594417	230950	612459	133178
594054	137300	594252	137733	594421	139476	618481	USX682
594060	142346	594253	230032	594422	137732	2106053	138642
594060	PSX144-145K	594255	137732	594426	135390	2590944	137579
594061	PSX146-147K	594259	137732	594431	235416	2EM0578E	231000
594062	142346	594262	139439	594436	234231	2EM0588F	235210
594062	PSX144-145K	594266	233708	594436	234231Z	2EM0654B	135485
594063	142346	594267	132976	594438	236258	2EM0689H	134736
594063	PSX144-145K	594268	132976	594444	237444	3EM092301D	135467
594064	PSX146-147K	594269	132976	594447	139476	72591A	PSX64-702
594065	PSX1292/1P	594271	136255	594448	138187	72632H	PSX77-784
594068	133077	594273	132976	594449	234944	73726N	233914
594069	138114	594275	132976	594451	234996	CED402	133169
594070	133647	594276	135392	594452	139476	CED406	133169
594072	133646	594277	139985	594453	236896	CED41	133169
594075	135820	594278	135387	594454	233795	CED416	133169
594084	133078	594279	139478	594458	142000	CED417	131798
594086	137455	594280	136255	594460	138854	CED419	131798
594087	132977	594281	139439	594461	236859	CED426	133149
594098	132025	594283	233994	594463	234846	CED427	131798
594105	133079	594286	141067	594465	236238	CED428	131798
594106	138408	594287	139473	594472	235252	CED429	133169
594107	233450	594288	234778	594474	235268	CED434	131798
594108	135083	594289	230950	594477	231476	CED437	131798
594110	231667	594290	139224	594478	231476	CED438	133150
594112	135387	594290	333648	594479	139224	CED439	131798
594112	239544	594291	233496	594479	333648	CED442	131798
594113	132976	594295	231413	594487	233318	CED443	132623
594115	135392	594297	233481	594488	233317	CED444	131798
594117	132977	594298	138112	594501	234390	CED445	133150
594118	135390	594302	233616	594502	234391	CED448	131798
594119	132977	594303	230353	594508	235335	CED451	131798
594127	142346	594305	135392	594510	235133	CED454	131798
594127	PSX144-145K	594308	234088	594518	233767	CED455	133150
594129	230032	594309	234089	594519	139434	CED456	133150
594130	230032	594314	235179	594520	235493	CED457	133150
594136	135084	594317	142346	594522	231476	CED458	131798
594138	230222	594317	PSX144-145K	594523	231476	CED460	131798
594140	135390	594319	132976	594526	134513	CED461	131798
594141	135388	594322	132976	594528	230250	CED465	133150
594145	132976	594324	230354	594529	139593	CED468	131798
594148	132027	594325	132976	594530	230250	CED501	131071
594151	133079	594344	135387	594531	139593	CED502	131071

Cross reference list

## STARTER PARTS

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>							
CED5033	139476	NE288	131094	<b>WAI</b>		54-124-3	131056
CED510	131071	NE295	133221	4251	140188	54-125-2	132731
CED511	132268	NE296	130949	668160	235639	54-131	133507
CED512	131071	NE305	235088	8-8101	140495	54-132	131481
CED514	132268	NE306	235088	8-8301	140738	54-132-5	131481
CED517	133151	NE346	133121	8-8302	140920	54-133	233173
CED518	133128	NE347	133120	8-8303	141065	54-135	132695
CED528	133166	NE348	133122	8-8500	140768	54-136	131769
CED529	131171	NE350	133123	8-8501	140457	54-138	133545
CED530	232011	NE355	131009	8-8502	140468	54-138-2	133545
CED533	131584	NE361	131009	8-9102	140198	54-139	130540
CED537	133533	NE362	131797	8-9105	140733	54-139-9	130540
CED538	131584	NE379	140533	8-9107	140242	54-1401	235715
CED539	131071	NE381	140543	8-9108	140617	54-140-5	135816
CED540	133163	NE421	232011	8-9109	140619	54-141	132943
CED541	133532	NE427	132110	8-9400	140919	54-141-5	132943
CED543	133534	NE443	132623	10-1041-4	141009	54-143	235626
CED544	131584	NE483	136426	10-9041-4	140412	54-143-9	235626
CED546	133533	NE484	136426	17-1702	135642	54-145	235629
CED548	133533	NE485	130461	4-1090	135400	54-153	230911
CED549	132025	NE486	140473	41-5500	134488	54-154	231968
CED550	132024	NE500	133214	44-2910	131984	54-154-2	231968
CED563	132977	NE510	134360	46-2501	233010	54-156-1	138222
CED564	132977	NE515	132962	4-752	136208	54-159	138128
CED565	133128	NE573	235085	51-102-2	232531	54-160	133545
CED568	132025	NE575	132962	51-105-4	231746	54-163	235623
CED569	132977	NE623	140535	51-110	231748	54-166	231967
CED580	234579	NE666	140472	51-110-4	231748	54-167	231967
CED621	132968	NE735	140474	51-1120	231739	54-167-9	231967
CED624	135820	NE776	133897	51-1124	232552	54-172	131768
CED71	135292	NE777	132976	51-1124-2	232552	54-174	231966
CES569	132977	NE778	132974	51-1127	232955	54-1802	137279
NC082	133970	NE784	132974	51-1128	232956	54-201	131399
NE002	140526	NE785	133128	51-1128	232956	54-202	132751
NE003	140531	NE815	133128	51-117-2	139283	54-204	130535
NE005	140533	NE824	135387	51-122	232050	54-204-9	130535
NE006	140534	NE830	135083	51-125	230571	54-208	133864
NE007	140536	NE831	135084	51-132	131481	54-208-9	133864
NE008	140537	NE845	135392	51-133	235642	54-209	130535
NE010	140539	NE869	233450	51-138-2	139283	54-210-9	231962
NE011	140540	NE883	131999	51-187-2	230883	54-212	136633
NE012	140541	NE898	232012	51-188	230882	54-212-2	136633
NE018	235790	NE936	233697	51-188-4	230882	54-213	235624
NE029	130238	NE955	231413	51-222-2	232050	54-216-1	138209
NE034	130241	NE957	230353	51-253	231152	54-217	234861
NE040	131069	NE966	230354	51-254	231153	54-300	131220
NE041	131020	NE971	139477	51-255	231210	54-301	130536
NE042	133136	PSX148-1494	PSX144-145K	51-8106	230485	54-7001	135408
NE046	132173	PSX148-157K	PSX148-157K	51-8107	235658	54-7002	135400
NE050	131190	PSX148-158K	PSX148-158K	51-8108	230485	54-7003	139418
NE053	131813	PSX148-159K	PSX148-159K	51-8201	136935	54-7006	230399
NE054	132199	PSX1554	PSX1554	51-8204	136757	54-7007	230400
NE081	134083	PSX160-1644	PSX160-1644	51-8302	233062	54-7012	230399
NE089	134628	PSX166-1674	PSX166-1674	51-8303	231364	54-7016	135400
NE092	131127	PSX168-1674	PSX168-1674	51-9101	137763	54-7019	135402
NE098	133168	PSX169-1704	PSX169-1704	52-212	231142	54-8100-1	131985
NE103	132108	PSX171-922	PSX115-1162	52-700	234209	54-8102	131987
NE129	132268	TM008B00601Z		52-703	136655	54-8104	132001
NE132	131798	TM009C02001Z		52-8200	231638	54-8114	131086
NE134	133534	TM090A04301	231193	52-82400	138681	54-8115	133360
NE137	131798	TM200B01601B	132486	52-8306	230487	54-81201	133436
NE138	131584	TM400B08301	133050	52-8307	231571	54-81204	133606
NE139	132977			53-107	230818	54-8127	133266
NE140	133534	<b>VISNOVA</b>		53-108	230821	54-8130	133058
NE141	133533	36-46-26	234231	53-109	230543	54-8131	131852
NE142	133533	36-46-26	234231Z	54-100	132695	54-8132	133445
NE152	235086	36-46-46	239359	54-101	130537	54-8140	132448
NE153	235087	36-46-57	330800	54-103	233171	54-8141	133437
NE155	131343	62-42-34	237769	54-110	138128	54-8142	137413
NE159	133532	62-42-49	330226	54-113	232053	54-8145	132453
NE160	130757	62-42-50	236891	54-118-2	131766	54-8152	231804
NE169	132964	62-42-50	333489	54-1216	235679	54-8152-1	231804
NE185	130461	62-42-51	231885	54-1217-5	235677	54-8153	139132
NE187	133442	62-42-68	333341	54-122	131770	54-81600	135362
NE195	132962			54-122-2	131770	54-8202	132004
NE207	133233	<b>VOLVO</b>		54-123	130539	54-8202-1	132004
NE209	131999	1367094	133437	54-123	130539Z	54-8203	130442
NE210	230253	1377095	133436	54-123-3	130539	54-8205-1	130441
NE212	133336			54-123-3	130539Z	54-8207	130442
				54-124	131056		

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
54-8207-1	130442	54-9115	131381	54-9413	130761	59-9107	131677
54-8209	132863	54-9116	131019	54-9414	136642	59-9108	131314
54-8209-1	132863	54-9116	333205	54-9415	131111	59-9109	131314
54-8210	132864	54-9117	130950	54-9416	131021	59-9109-3	131314
54-8218	136313	54-9117	333207	54-9417	130432	59-9110	130126
54-8219	136745	54-9119	131108	54-9418	130424	59-9113	130128
54-82200	131110	54-9120	133498	54-9419	130434	59-9116	131313
54-82201	132043	54-91200	131714	54-9422	137271	59-9122	132905
54-82204-5	132044	54-91201	131774	54-9423	136619	59-9124	131312
54-82206	132866	54-91202	132308	54-9424	131999	59-9126	137234
54-82208	135310	54-91203	130418	54-9427	132177	59-9201	130882
54-8221	133712	54-91203	333175	54-9428	132182	59-9203	130213
54-82215	138123	54-91203	130418Z	54-9429	133442	5H-133	233173
54-82219	139606	54-91205	137199	54-9430	131170	6-100-4	140271
54-82220	135003	54-91207	130417	54-9431	136426	6-100-4N	140271
54-82221	132942	54-9122	138867	54-9432	130422	6-100-4W	140271
54-8225	139244	54-91230	130418	54-9433	235087	6-100-4WH	140271
54-8227	138566	54-91230	333175	54-9434	135647	61-101	132685
54-8232	136086	54-91230	130418Z	54-9435	230963	61-111	131661
54-8233	133805	54-9125	130415	54-9503	133860	61-117	131168
54-8234	137751	54-9127	130390	54-9900	132070	61-123	131350
54-8234-1	137751	54-9133	130995	55-105	131408	61-133	131627
54-8237	233398	54-9135	131771	55-120	232826	61-139	132685
54-8239	139083	54-9136	131772	55-1200	232827	61-140-1	230604
54-82400	138681	54-9138	233842	55-1201	230108	61-145	230388
54-82405	138804	54-9141	131102	55-1202	230513	61-146	231471
54-82406	230254	54-9141	333220	55-8201	139492	61-151	233960
54-82408	139840	54-9141	131102Z	55-8300	231155	61-159	235637
54-82410	139084	54-9142	131150	55-8303	133463	61-209	234346
54-8241-1	132942	54-9148	132367	55-8308	232969	61-210	136634
54-8244	234230	54-9153	131597	55-8308-1	232969	61-211	231138
54-8244-1	234230	54-9153	333228	55-83400	233378	61-211-1	231138
54-8245	234402	54-9158	131998	5590-9003	132874	61-700	234204
54-82502	132885	54-9158	333506	55-9100	233015	61-704	234213
54-82601	132886	54-9158	131998Z	55-9102	137617	61-711	137044
54-82603	135344	54-9161	133362	55-91400	136283	61-8104	234797
54-8302	132765	54-9161	333201	55-9200	134445	61-8113	138701
54-8304-1	131087	54-9162	132216	55-9400	138854	61-8117	233886
54-8312	132010	54-9162	333174	56-107-1	230818	61-81702	141139
54-8314	132012	54-9162	132216ZZ	57-1222	232844	61-8200	135853
54-8320	139609	54-9169	132168	57-2209	231145	61-8201	134368
54-83200	133451	54-9170	132169	57-83202	232970	61-8202	132796
54-83202	133493	54-9171	135086	57-83216	231461	61-8204	139701
54-83207	232390	54-9171	135086Z	57-84200	232402	61-8205	134370
54-83208	132483	54-9173	134371	57-84201	232403	61-8208	138675
54-83210	132085	54-9173	134371Z	58-2500	136719	61-8217	136884
54-83213	133009	54-9176	132079	58-2501	136720	61-8301	132487
54-83219	133007	54-9176	132079Z	58-91500	134897	61-8302	139646
54-8322	130741	54-9177	131995	58-91501	134896	61-8302-1	139646
54-8332	136348	54-9177	333577	58-91502	135221	61-8311	139352
54-83407	132386	54-9178	131098	58-91503	135222	61-8314	136196
54-83409	132017	54-9182	130402	59-106	138133	61-8317	139398
54-83414	233845	54-9185	132364	59-110	132691	61-8318	230499
54-83415	231371	54-9200	130452	59-113	138136	61-8405	132536
54-8346	236779	54-9200	130452Z	59-133	130495	61-8406	135668
54-8401	133975	54-9208	131705	59-133-1	130495	61-8407	135667
54-8403	133976	54-9210	131707	59-133-3	130495	61-8408	133391
54-8406	133854	54-9211	131206	59-151	232877	61-9100	131075
54-8410-9	135002	54-9212	131707	59-152	135338	61-9102	130113
54-8500	134284	54-9215	131734	59-161	232879	61-9103	130114
54-8501	230761	54-9217	131733	59-7112	134091	61-9104	130115
54-85200	134283	54-9219	130745	59-8100	135828	61-9105	130116
54-85201	134283	54-9300	131109	59-8109	134346	61-9110	130319
54-85800	135013	54-9302	139131	59-8113	234099	61-9111	131124
54-85801	136341	54-9303	132194	59-8114	134346	61-9114	133486
5490-3204	140361	54-9305	130737	59-8115	139176	61-9115	130109
54-9100	130404	54-9306	130738	59-8203	135751	61-9121	130117
54-9100	333231	54-93200	130417	59-8206	135102	61-9122	131379
54-9104	131712	54-9401	130463	59-8208	135750	61-9123	130117
54-9108	131267	54-9402	130759	59-8209	135749	61-9131	132814
54-91101	137888	54-9404	132177	59-8303	232970	61-9132	138674
54-91101	333192	54-9405	130461	59-8303-1	232970	61-9134	132031
54-91103	137483	54-9406	134645	59-8400-1	134836	61-9138	136986
54-91103	333191	54-9408	132178	59-8400-2	134836	61-9148	233715
54-9111	131207	54-9409	132206	59-8400-3	134836	61-9149	234022
54-91113-3	139954	54-9410	132200	59-8401-1	135610	61-9150	231065
54-91113-3	333208	54-9410	132200Z	59-8401-2	135610	61-9151	139658
54-9112	135801	54-9411	130948	59-9103	138317	61-9205	133368
54-9114	132697	54-9412	130757	59-9106	132360	61-9207	132401

## STARTER PARTS

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>WAI Continued</b>							
61-9301	230746	62-83400	141149	66-5200	132141	66-82773	233169
61-9401	131813	62-83405	141150	66-600	232905	66-82775	132568
61-9402	132027	62-83502	140908	66-7000	133856	66-82775	135385
61-9405	131190	62-83600	141131	66-7001-2	231811	66-8302	131802
61-9409	131813	62-83700-8	140484	66-7804	141210	66-8304	133052
61-9410	131020	62-84503	141128	66-8101	130811	66-8309	139614
61-9412	132109	62-84504	140906	66-8104	131144	66-8318	138418
61-9415	130147	62-85300	140648	66-8105	131800	66-83200	133287
61-9416	134513	62-85900	140938	66-8106	132093	66-83202	133113
61-9417	139593	62-85901	141182	66-8107	132059	66-83203	133287
61-9900	131930	62-91200	141117	66-8112	132094	66-83204	232225
62-1201	141046	62-91304	140204	66-8118	132915	66-83205	134915
62-1302	140940	62-91305	141118	66-81201	134620	66-83206	133285
62-1304	141047	62-91307	140563	66-81203	133276	66-83207	133284
62-1307	141122	62-91308	140842	66-81204	133778	66-83209	138821
62-1402-3	140183	62-91402	140009	66-81205	133803	66-8321	235103
62-1404	141124	62-91403	140003	66-81207	133276	66-83211	137931
62-1408-1	140660	62-91405	140012	66-81208	138818	66-83212	231458
62-1500-S	140185	62-91408	140017	66-81209	138819	66-83213	134625
62-1501-D	140181	62-91411-1	140854	66-81211	133779	66-8322	234319
62-1502	140181	62-91601	140962	66-81212	231911	66-83222	133286
62-1503	140070	62-91700	140026	66-81213	138818	66-83223	232225
62-1600	140074	62-91800	140111	66-8131	133044	66-8325	133289
62-1601	140478	62-91902	140692	66-8135	139784	66-8326	133288
62-1702	140406	62-93400	140200	66-8136	232200	66-8326-2	133288
62-1800	140477	62-93500	140202	66-8138	138814	66-8327	133049
62-1801	140206	62-94201	140499	66-8142	232002	66-8328	133039
62-1804	141048	62-94400	140040	66-8145	138817	66-8340	234875
62-1805	141125	62-94702	141160	66-8147	234555	66-8341	133289
62-1903	141126	62-99500	140043	66-8148	138739	66-8349	138012
62-2200	140787	64-100-81N	140271	66-8150	234556	66-8352	234320
62-2301	141074	64-301-9	130536	66-8155	132058	66-8360	231983
62-2402	140844	64-84700	140449	66-8156	231910	66-8363	231457
62-2403	141075	6-608-4	140222	66-8158	132698	66-8366	137813
62-2500	141076	6-608-4W	140222	66-81700	133270	66-8367	234291
62-2600	140553	66-105	235641	66-81701	135105	66-8370	231454
62-26004-1	140188	66-110	131363	66-8211	230576	66-83701	233166
62-2700	140843	66-113-1	234476	66-8217	233951	66-83704	233167
62-3400	140186	66-1202	131367	66-8218	233952	66-83705	133275
62-3700-1	140196	66-1203	131368	66-82201	133099	66-8373	234292
62-5700	141143	66-1204	131057	66-82203	137869	66-8375	237498
62-5800	141144	66-1205	131058	66-82213	133779	66-8377	139202
62-6500-1	140052	66-1208	135324	66-82350	139642	66-8378	139586
62-6601	141158	66-1212	139429	66-82351	139643	66-8379	230204
62-6602	140257	66-1216	130497	66-82352	139644	66-8380	234723
62-804	141048	66-1218	137809	66-82353	139640	66-8400	134630
62-81200	141132	66-1223	138409	66-82354	139641	66-8400-2	134630
62-81300	141133	66-1226	139429	66-82355	233066	66-8402	132498
62-81301	141134	66-1302-1	130497	66-82450	132707	66-8409-2	132499
62-81402	141135	66-1303	135323	66-82452	132706	66-8410-2	134974
62-81402-1	140311	66-1308	137809	66-82453	132884	66-8412-2	133482
62-81409	141136	66-131	132944	66-82454	132881	66-8413-2	133395
62-81600	140306	66-1315	232031	66-82455	133094	66-8414-2	135674
62-81605	140489	66-1316	130497	66-82456	132708	66-84201	137824
62-81606	140805	66-139	131590	66-82457	132883	66-84203	137824
62-81700	141137	66-1404-1	135643	66-82458	136607	66-84650	139836
62-81701	141138	66-147	231926	66-82459	136606	66-8500	133076
62-81703	141140	66-155	235609	66-82460	138929	66-8501	133076
62-81801	141082	66-1604	130522	66-82461	138931	66-8502	136983
62-81900	141142	66-1607	133022	66-82552	135343	66-8503	137023
62-8215-1	140885	66-1608	130521	66-82601	132570	66-8506	230018
62-82201	140965	66-1700	132952	66-82603	136374	66-8507	232004
62-82202	140788	66-1701	233396	66-82603-1	136374	66-85200	133782
62-82220	140788	66-1701-1	233396	66-82606	132570	66-85201	137084
62-82400	141153	66-1705	139430	66-82650	233069	66-9101	130477
62-82401	140787	66-1706	139431	66-82651	233077	66-9105	131141
62-82402	140326	66-204	131590	66-82652	233078	66-9105	333144
62-82403	140326	66-210	233890	66-82654	135016	66-9106	132361
62-82404	140325	66-2201	137582	66-82750	131831	66-9106	333167
62-82405	141011	66-2201-1	137582	66-82751	131830	66-9111	131189
62-82600	140777	66-2203	138497	66-82752	131833	66-9116	131143
62-82800	141154	66-2204	138497	66-82753	131831	66-9116	333147
62-82801	141155	66-2401	232942	66-82754	132064	66-91201	139213
62-82904	140774	66-2402	232943	66-82757	233168	66-91202	131847
62-83300	140555	66-2550	137529	66-82758	235638	66-91203	132781
62-83301	141145	66-2551	137529	66-82760	233079	66-91204	132780
62-83302	141146	66-2755	137529	66-82765	233080	66-91205	133159
62-83303	140731	66-302	131393	66-82767	132565	66-91206	133777
62-83304	141148	6-638-4	140960	66-82771	233081	66-91207	131317

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
66-91208	132779	68-139	140755	68-8315	140559	68-9302	JSX204
66-91209	138006	68-140	141045	68-8317	140560	68-9303	MASX13-144
66-9121	130302	68-143	141114	68-8317	GAS119	68-9307	MASX17-184
66-9121	333137	68-149	141242	68-8317	GAS120	68-9403	USX91-922
66-9121	130302Z	68-203	FX412/1P	68-8318	140591	68-9404	USX91-922
66-91210	132780	68-204	FX412/1P	68-8321	140921	68-9405	USX73-852
66-91211	132279	68-205	FX412/1P	68-8322	140921	68-9406	USX73-852
66-91213	136108	68-205-1	FX412/1P	68-8323	140559	68-9411	PSX1332
66-91215	138004	68-206	140548	68-8328	141245	68-9412	PSX1332
66-91218	133447	68-207	140548	68-8330	141245	68-9413	PSX1292/1P
66-9126	131586	68-207-1	140548	68-83702	136946	68-9414	PSX1292/1P
66-9126	333146	68-208	140548	68-83800	140388	68-9419	PSX136-1374
66-9130	133428	68-208-1	140548	68-8500	140841	68-9420	PSX136-1374
66-9131	130474	68-217	140845	68-8501	140841	68-9421	PSX81-824
66-9132	137826	68-218	140845	68-8800	134839	68-9422	PSX81-824
66-91352	133573	68-219-1	140845	68-8900	140706	68-9423	PSX83-844
66-91353	133572	68-220	140845	68-9100	BSX524	68-9424	PSX83-844
66-9141	137368	68-220-1	140845	68-9102	BSX494	68-9427	PSX1324
66-9147	132258	68-223	140955	68-9103	BSX434	68-9430	PSX1324
66-9147	333142	68-224	140955	68-9108	BSX1044	68-9431	PSX1324
66-9156	133141	68-227	140975	68-9109	BSX1044	68-94800	PSX1292/1P
66-9158	135358	68-227	B140975	68-9110	BSX137-1434	68-95801	IKSX2-32
66-9159	136692	68-228	140975	68-9111	BSX137-1434	68-9900	140465
66-9164	138005	68-228	B140975	68-9113	BSX134-1444	6-902-2	140224
66-9165	133487	68-300	CHX101P	68-9114	BSX1304	6-902-4	140224
66-9166	137696	68-301	CHX101P	68-9116	BSX964	6-904-2	140226
66-9167	137175	68-301-1	CHX101P	68-9117	BSX1004	6-904-4	140226
66-9170	133424	68-620	EX85-862/1	68-9118	BSX1314	6-904-4W	140226
66-91701	132275	68-621	EX85-862/1	68-9120	BSX704	6-906-4	140868
66-91702	136034	68-635	141213	68-9121	BSX124F4	69-108-1	135720
66-9172	136371	68-7801	141053	68-9122	141183	69-109	230406
66-9175	133421	68-7802	141049	68-9124	142326	69-111	235500
66-9175	333545	68-7803	141211	68-9124	BSX135-1454	69-113-1	232968
66-9176	134376	68-7805	141052	68-9125	BSX764	69-114	230396
66-9180	134823	68-7806	139394	68-9126	142325	69-117	232984
66-9181	130300	68-8104	140336	68-9126	BSX151S4	69-118	232671
66-9184	135358	68-8105	140336	68-9127	BSX1404	69-120	232968
66-9188	138313	68-8106	140341	68-9128	134658	69-1200	132114
66-9190	230356	68-8108	140334	68-9128	333296	69-1201	131406
66-9190	333157	68-8110	140334	68-9129	134658	69-1201-1	131406
66-9191	139014	68-8113	140376	68-9129	333296	69-1201-2	131406
66-9194	234859	68-8116	140391	68-9129-1	134658	69-121	234768
66-9195	231801	68-8119	140376	68-9129-1	333296	69-1500	132730
66-9195	333493	68-8120	140377	68-9130	BS159	69-1700	132115
66-9196	138971	68-8121	140378	68-9130-1	134658	69-1701	230517
66-9196	333148	68-81212	231911	68-9130-1	333296	69-1708	136929
66-9204	130855	68-8122	140786	68-9132	BS158	69-1710	230390
66-9207	131248	68-8123	140786	68-9133	BSX138-1424	69-200	136635
66-9209	131248	68-8128	140852	68-9134	BSX444	69-202	232670
66-9211	133531	68-8131	140781	68-9135	BSX1474	69-2206	233406
66-92201	131275	68-8132	140781	68-9136	BSX1484	69-2704	137526
66-9301	130830	68-8133	140786	68-9138	141008	69-301	131413
66-9401	133163	68-8134	141023	68-9139	134658	69-700	230397
66-9403	133534	68-8135-1	140378	68-9139	333296	69-7200	230402
66-9410	131009	68-8201	140362	68-9140	134658	69-8103	132425
66-9411	131013	68-8202	140356	68-9140	333296	69-8104	133332
66-9412	132241	68-8206	140591	68-9142	BSX134-1444	69-8105	133333
66-9413	131798	68-8209	140349	68-9143	136557	69-8106	133332
66-9414	133150	68-8211	140362	68-9143	333286	69-8107	133333
66-9416	133532	68-8212	140362	68-9144	135015	69-8108	132425
66-9417	133166	68-8214	140885	68-9144	333287	69-8114	137750
66-9418	132268	68-8215	140885	68-9144-3	135015	69-8115	137750
66-94200	132968	68-8216	140963	68-9144-3	333287	69-8117	137121
66-94202	131332	68-8217	140963	68-9145	135015	69-8120	133730
66-9427	136255	68-8220-1	140740	68-9145	333287	69-8200	132871
66-9427-1	136255	68-8221	140647	68-9146	BSX163-1644	69-8201	132872
66-94700	132147	68-8223	140393	68-9147	BSX163-1644	69-8202	132873
66-9500	135092	68-8224	140393	68-9200	LASX43-442	69-8203	132874
66-9501	134042	68-8225	140976	68-9201	LASX37-38-39	69-8205	136314
66-9900	132069	68-8226	140976	68-9202	LASX22	69-8208	138672
66-9901	132069	68-8302	140595	68-9203	LASX73-412/1P	69-8210	133660
67-703	132940	68-8303	141189	68-9204	LASX73-412/1P	69-8211	136103
67-703-1	132940	68-8306	140387	68-9206	LASX364	69-8302	132475
67-710	133857	68-8308	140388	68-9207	LASX314	69-8306-3	133340
67-713	133856	68-8309	140378	68-9208	LASX15-274	69-8312	231460
67-714	133855	68-8310	140708	68-9209	LASX15-274	69-8318	137929
68-107	RX954	68-8314	140560	68-9210	LASX5-62/1P	69-8332	234811
68-110-3	RX708	68-8314	GAS119	68-9211	LASX5-62/1P	69-83701	136947
68-117	RX124H6	68-8314	GAS120	68-9212	LASX5-62/1P	69-9101	134093

## STARTER PARTS

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>WAI Continued</b>				<b>WAPSA</b>			
69-9105	131184	74-1115	232920	79-1123	132589	0224052	235780
69-9109	133558	76-1113	232924	79-1124	132590	<b>YAMAHA</b>	
69-9111	139144	76-1115	230394	79-1134	137062	124195-77741	131986
69-9111	333538	76-1200	232518	79-1135	137063	129242-77100	235337
69-9111-3	139144	76-1251-1	230594	79-1136	137064	129900-77400	233886
69-9111-3	333538	76-1310	232985	79-1150	232937	129900-77520	233887
69-9118	134661	76-1607	232672	79-1154	232939	6M6-8183E00-00	230761
69-9119	135015	76-1608	232673	79-82100	132635	<b>YANMAR</b>	
69-9119	333287	76-1609	230595	79-83104	134949	114371-77110	230758
69-9120	132303	76-1612	232675	79-83300	232597	114371-77180	235371
69-91200	138326	76-1703	235680	79-84100	232941	118400-77251	137120
69-91201	134659	76-1803	232926	79-84500	134840	121254-77401	137092
69-91201	333595	76-1861	135465	79-91102	133314	121254-77610	138121
69-9125	138326	76-1867	233160	79-91104	133316	121254-77660	133266
69-91702	135460	76-1874	233016	79-91106	133317	121254-77671	132059
69-91706	132576	76-1876	232360	79-91107	133318	124190-77110	134662
69-91707	133557	76-1888	235738	79-91108	133309	124195-77760	232487
69-91708	135299	76-1889	235688	79-91109	133310	129136-77500	132798
69-92700	132209	76-1890	235687	79-92100	135497	129400-77530	138739
69-94200	132574	76-2101-1	233027	79-92102	135501	129698-77101	137948
69-94200-1	132574	76-2800	137528	79-92105	233045	129698-77161	230487
71-1107	139660	76-2801	137527	79-92300	131298	129698-77230	235485
71-1111	132707	76-2801-1	137527	8-123	140750	129900-77510	230556
71-1302	230106	76-2801-2	137527	8-125	140751	129900-77540	230557
71-1308	230539	76-2805	139648	81-81100	235632	129900-77590	230558
71-1309	230540	76-2808	231146	8-201	140242	171008-77440	138342
71-1310	133024	76-2809	136637	84-1201	233417	X-2114150060	132447
71-1320	232587	76-2810	231154	84-1207	233428	X-211437001	131144
71-1503	136340	76-2814	136721	84-1217	233413	X-2114460120	230866
71-1509	233052	76-2819	231147	84-1222	233412	X-211447007	132093
71-1510	233053	76-2820	231143	84-1300	233408	X-2114510050	138959
71-2309	136639	76-2821	231377	84-1342	230413	X-211457001	131800
71-2313	232948	76-2822	231139	84-1345	230795	X-211461104	138960
71-5300	136412	76-81801	232592	84-1410	233411	X-211472106	139073
71-81301	232593	76-81802	232591	84-1411	233416	X-2114721060	138342
71-82102	138914	76-81804	231390	84-1415	230012	X-211487004	131800
71-82300	131837	76-82550	132897	84-1417	230418	X-21203700Z	131431
71-82303	132889	76-82551	131836	84-1419	230515	X-2130531300	231487
71-82305	136317	76-82552	131835	84-1425	230516	X-2130610020	137473
71-82306	134328	76-82554	131834	84-1433	230515	X-2130650060	235501
71-82307	137594	76-82555	333023	84-1437	139799	X-213067000	132059
71-82308	134329	76-82555	231427	84-1502	139332	X-213070000	137541
71-82309	137591	76-82558	137588	84-1504	139332	X-213073000	137936
71-82310	232596	76-82559	132870	84-2302	233667	<b>ZEN</b>	
71-82311	232594	76-82561	132709	84-2409	233418	0768	333125
71-82312	137976	76-82565	131834	84-4400	233419	0828	332138
71-82314	232595	76-82570	233097	84-4603	230796	1004	333126
71-82322	137590	76-82571	137204	84-4610	230107	1111	135374
71-82502	232434	76-82575	132705	84-4613	139983	1158	233835
71-82512	139421	76-82802	132894	84-5901	230010	1158	333204
71-82514	139422	76-82806	135217	84-7600	230798	1187	131111
71-83102	230759	76-82811	135217	84-7603	234294	1483	233947
71-83105	139205	76-82812	135474	84-7605	230472	1483	333212
71-83302	233164	76-82813	138027	84-7606	230029	1539	233830
71-84100	133974	76-83807	233059	84-7704	233672	1539	233830Z
71-84101	232589	76-83812	230549	84-7706	138660	1545	235290
71-84700	135199	76-83815	235502	84-7707	230555	1545	333542
71-85300	133670	76-83817	233060	84-7707-1	234302	1576	234535
71-85302	233055	76-84806-1	230188	84-7709	138659	1576	333195
71-91103	136915	76-85800	133561	84-8901	230362	1592	137218
71-91304	234887	76-85801	133562	85-1327	233692	1616	139520
71-91305	136915	76-89600	233541	85-1328	233691	1629	234168
71-91309	136176	76-89606	135492	85-1334	139115	1629	333222
71-91310	133478	76-91803	137744	85-1336	233064	1630	138985
71-91314	137173	76-91806	137746	85-1339	233154	1630	138985Z
71-91316	137173	76-91812	132604	85-1357	233152	1631	234158
71-94100	134106	76-91817	135848	85-1358	233151	1632	234785
71-94300	134107	76-91818	135846	85-1360	233153	1632	333551
72-1106	233979	76-91820	135847	85-1370	235686	1642	330265
72-1112	232917	76-91822	135970	85-1509	135645	1642	333188
72-1400	230539	76-94809	133954	85-4502	233694	1643	233836
72-2115	233407	76-94810	233592	85-7500	233695	1643	333593
72-82100	137589	79-1111	130519	91-353	133572	1643	233836Z
72-82408	132063	79-1113	131348	D54-337P	133507	1655	232623
72-82409	135168	79-1115	232929	D54-338P	131481		
72-82410	135167	79-1116	131500	D54-479	130538		
72-82413	135476	79-1117	131501	D54-482	130540		
72-82415	139420	79-1119	130529				
72-94400	134289	79-1120	131490				



O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
1655	333564	1.01.0149.0	333540	1.01.0360.0	132005	1.01.0500.0	131192
1692	231932	1.01.0150.0	130453	1.01.0360.0	132005Z	1.01.0502.0	132782
1693	235663	1.01.0155.0	130452	1.01.0361.0	131097	1.01.0504.0	132288
1695	333479	1.01.0155.0	130452Z	1.01.0361.0	333233	1.01.0507.0	131732
1696	330125	1.01.0170.0	130449	1.01.0362.0	130388	1.01.0517.0	131988
1696	333581	1.01.0182.0	131770	1.01.0365.0	131108	1.01.0518.0	131987
1697	333678	1.01.0184.0	131110	1.01.0366.0	131019	1.01.0519.0	133268
1698	333681	1.01.0188.0	131768	1.01.0366.0	333205	1.01.0520.0	131433
1699	333679	1.01.0189.0	130432	1.01.0367.0	131065	1.01.0520.0	333172
1700	333682	1.01.0213.0	130738	1.01.0367.0	333190	1.01.0520.0	131433Z
1701	333680	1.01.0215.0	130762	1.01.0367.0	131065Z	1.01.0523.0	132291
1702	236752	1.01.0216.0	130761	1.01.0376.0	131984	1.01.0524.0	131090
1706	331730	1.01.0217.0	130456	1.01.0378.0	131271	1.01.0526.0	132822
1708	235200	1.01.0220.0	130412	1.01.0378.0	333217	1.01.0528.0	131344
1714	236876	1.01.0221.0	130401	1.01.0381.0	138128	1.01.0530.0	132178
1718	332145	1.01.0222.0	130400	1.01.0382.0	131086	1.01.0532.0	135569
1720	239777	1.01.0223.0	130390	1.01.0389.0	131716	1.01.0536.0	136208
1720	333234	1.01.0224.0	132365	1.01.0392.0	131270	1.01.0537.0	131852
1727	135581	1.01.0225.0	132367	1.01.0393.0	132197	1.01.0538.0	131475
1752	236797	1.01.0226.0	130416	1.01.0394.0	132188	1.01.0538.0	333223
1757	331010	1.01.0227.0	131713	1.01.0395.0	132187	1.01.0540.0	131212
9186	132043	1.01.0228.0	130414	1.01.0398.0	130447	1.01.0541.0	132852
9260	132044	1.01.0228.0	333516	1.01.0404.0	131021	1.01.0543.0	130730
9307	132866	1.01.0228.0	130414Z	1.01.0405.0	130462	1.01.0544.0	130740
9492	138123	1.01.0228.0	130414ZZ	1.01.0406.0	131432	1.01.0554.0	133360
12839	237769	1.01.0229.0	130995	1.01.0407.0	131109	1.01.0555.0	130542
1.01.0004.0	132694	1.01.0243.0	130465	1.01.0408.0	131715	1.01.0557.0	133682
1.01.0013.0	136318	1.01.0244.0	130434	1.01.0409.0	131035	1.01.0558.0	136642
1.01.0020.0	130537	1.01.0245.0	130424	1.01.0410.0	130747	1.01.0560.0	134643
1.01.0028.0	130415	1.01.0246.0	131188	1.01.0410.1	134065	1.01.0561.0	231330
1.01.0032.0	235624	1.01.0247.0	130461	1.01.0411.0	131708	1.01.0566.0	130540
1.01.0035.0	130417	1.01.0248.0	130759	1.01.0412.0	131707	1.01.0567.0	131769
1.01.0036.0	131714	1.01.0249.0	130463	1.01.0413.0	131206	1.01.0568.0	232053
1.01.0044.0	132163	1.01.0280.0	135355	1.01.0414.0	131705	1.01.0570.0	132177
1.01.0050.0	130536	1.01.0285.0	130760	1.01.0417.0	131489	1.01.0571.0	131170
1.01.0051.0	130540	1.01.0286.0	130897	1.01.0418.0	132702	1.01.0572.0	131995
1.01.0052.0	131769	1.01.0287.0	131111	1.01.0418.0	333209	1.01.0572.0	333577
1.01.0053.0	130535	1.01.0287.1	131111	1.01.0419.0	131597	1.01.0573.0	132079
1.01.0063.0	131709	1.01.0288.0	130948	1.01.0419.0	333228	1.01.0573.0	132079Z
1.01.0064.0	130451	1.01.0290.0	132366	1.01.0420.0	131102	1.01.0574.0	132181
1.01.0065.0	130404	1.01.0291.0	130950	1.01.0420.0	333220	1.01.0576.0	133712
1.01.0065.0	333231	1.01.0291.0	333207	1.01.0420.0	131102Z	1.01.0579.0	132216
1.01.0067.0	130446	1.01.0293.0	133738	1.01.0425.0	132344	1.01.0579.0	333174
1.01.0068.0	130405	1.01.0295.0	130757	1.01.0426.0	131628	1.01.0579.0	132216ZZ
1.01.0068.0	333520	1.01.0300.0	130402	1.01.0427.0	231954	1.01.0580.0	132453
1.01.0078.0	132308	1.01.0301.0	131267	1.01.0428.0	131150	1.01.0582.0	132965
1.01.0080.0	130406	1.01.0302.0	135801	1.01.0429.0	132311	1.01.0584.0	133454
1.01.0087.0	130418	1.01.0304.0	132697	1.01.0430.0	131596	1.01.0591.0	133683
1.01.0087.0	333175	1.01.0306.0	135664	1.01.0431.0	131117	1.01.0594.0	136338
1.01.0087.0	130418Z	1.01.0307.0	130405	1.01.0433.0	132695	1.01.0595.0	132011
1.01.0089.0	135860	1.01.0307.0	333520	1.01.0434.0	132634	1.01.0596.0	132012
1.01.0093.0	130538	1.01.0309.0	131022	1.01.0442.0	131098	1.01.0597.0	137643
1.01.0096.0	130445	1.01.0310.0	130931	1.01.0447.0	133498	1.01.0599.0	132014
1.01.0097.0	131056	1.01.0311.0	131712	1.01.0448.0	131985	1.01.0600.0	132010
1.01.0098.0	131267	1.01.0312.0	131712	1.01.0449.0	132286	1.01.0601.0	132821
1.01.0101.0	131269	1.01.0313.0	131711	1.01.0450.0	132005	1.01.0608.0	130739
1.01.0103.0	132364	1.01.0314.0	230159	1.01.0450.0	132005Z	1.01.0610.0	135816
1.01.0105.0	132273	1.01.0315.0	131381	1.01.0453.0	130920	1.01.0611.0	132943
1.01.0105.0	333227	1.01.0318.0	132364	1.01.0455.0	231962	1.01.0612.0	135063
1.01.0105.4	132273	1.01.0319.0	130409	1.01.0460.0	131207	1.01.0612.0	135063Z
1.01.0105.4	333227	1.01.0320.0	130930	1.01.0461.0	132200	1.01.0613.0	132169
1.01.0108.0	130396	1.01.0321.0	136285	1.01.0461.0	132200Z	1.01.0616.0	132009
1.01.0108.0	333521	1.01.0322.0	130450	1.01.0474.0	135251	1.01.0617.0	136602
1.01.0110.0	130539	1.01.0323.0	130404	1.01.0475.0	133362	1.01.0619.0	132168
1.01.0110.0	130539Z	1.01.0323.0	333231	1.01.0475.0	333201	1.01.0620.0	138332
1.01.0111.0	132194	1.01.0325.0	130393	1.01.0480.0	132285	1.01.0620.1	136633
1.01.0117.0	131766	1.01.0326.0	130425	1.01.0482.0	131104	1.01.0622.0	138332
1.01.0118.0	130932	1.01.0327.0	130441	1.01.0482.0	333176	1.01.0623.1	231961
1.01.0119.0	132193	1.01.0337.0	131083	1.01.0482.0	131104ZZ	1.01.0624.0	131481
1.01.0120.0	130737	1.01.0338.0	131187	1.01.0483.0	132195	1.01.0625.0	133507
1.01.0124.0	231972	1.01.0339.0	130442	1.01.0484.0	130398	1.01.0626.0	132731
1.01.0131.0	130027	1.01.0341.0	132545	1.01.0485.0	134427	1.01.0628.0	138208
1.01.0134.0	131729	1.01.0343.0	138137	1.01.0486.0	131728	1.01.0629.0	133854
1.01.0135.0	133864	1.01.0349.0	131085	1.01.0487.0	131733	1.01.0630.0	132205
1.01.0139.0	130401	1.01.0350.0	130441	1.01.0491.1	131767	1.01.0630.0	333196
1.01.0140.0	130442	1.01.0351.0	131783	1.01.0497.0	131495	1.01.0630.0	132205Z
1.01.0141.0	130440	1.01.0352.0	131087	1.01.0497.0	333515	1.01.0631.0	131998
1.01.0144.0	130741	1.01.0353.0	130442	1.01.0498.0	133631	1.01.0631.0	333506
1.01.0149.0	131107	1.01.0355.0	131108	1.01.0499.0	131986	1.01.0631.0	131998Z

**STARTER PARTS**

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>							
1.01.0632.0	131997	1.01.0787.0	135647	1.01.0920.0	138308	1.01.1069.0	333215
1.01.0633.0	132167	1.01.0790.0	135091	1.01.0920.Z	138308ZZ	1.01.1070.0	230336
1.01.0634.0	134917	1.01.0790.0	135091ZZ	1.01.0921.0	137293	1.01.1070.0	333511
1.01.0635.0	132345	1.01.0791.0	133445	1.01.0921.0	137293Z	1.01.1071.0	136787
1.01.0635.0	333510	1.01.0792.0	133605	1.01.0925.0	137481	1.01.1071.0	333508
1.01.0636.0	134918	1.01.0793.0	137752	1.01.0925.0	333178	1.01.1072.0	230546
1.01.0638.0	133443	1.01.0793.1	135059	1.01.0925.0	137481Z	1.01.1073.0	138866
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1.01.0648.0	333197	1.01.0801.0	231952	1.01.0937.0	136854	1.01.1108.0	230339
1.01.0649.0	133975	1.01.0803.0	136925	1.01.0937.0	333177	1.01.1108.0	333200
1.01.0650.0	133976	1.01.0805.0	135464	1.01.0937.0	136854Z	1.01.1111.0	135374
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1.01.0677.0	132368	1.01.0815.0	134284	1.01.0954.0	139653	1.01.1159.0	231756
1.01.0678.0	134960	1.01.0816.0	139244	1.01.0958.0	231966	1.01.1159.0	333185
1.01.0679.0	137764	1.01.0817.0	137952	1.01.0960.0	133295	1.01.1162.0	139905
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1.01.0692.0	132200Z	1.01.0824.1	138209	1.01.0970.0	136509	1.01.1458.0	139478
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1.01.0773.0	139083	1.01.0885.1	232054	1.01.1047.0	132489	ZM-139596	137346
1.01.0774.0	138222	1.01.0887.0	231371	1.01.1048.0	231789	ZM-1473	137613
1.01.0775.0	132974	1.01.0892.0	136267	1.01.1048.0	231789Z	ZM-147391	138003
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1.01.0779.0	135717	1.01.0894.0	135542	1.01.1057.0	333214	ZM-1475	231217
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1.01.0786.1	134859	1.01.0911.0	130731	1.01.1065.0	135164	ZM-1498	236626
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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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ZM-1573	131791	ZM-2479	333547	ZM-41196	139604	ZM-538	130301
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Cross reference list

## STARTER PARTS

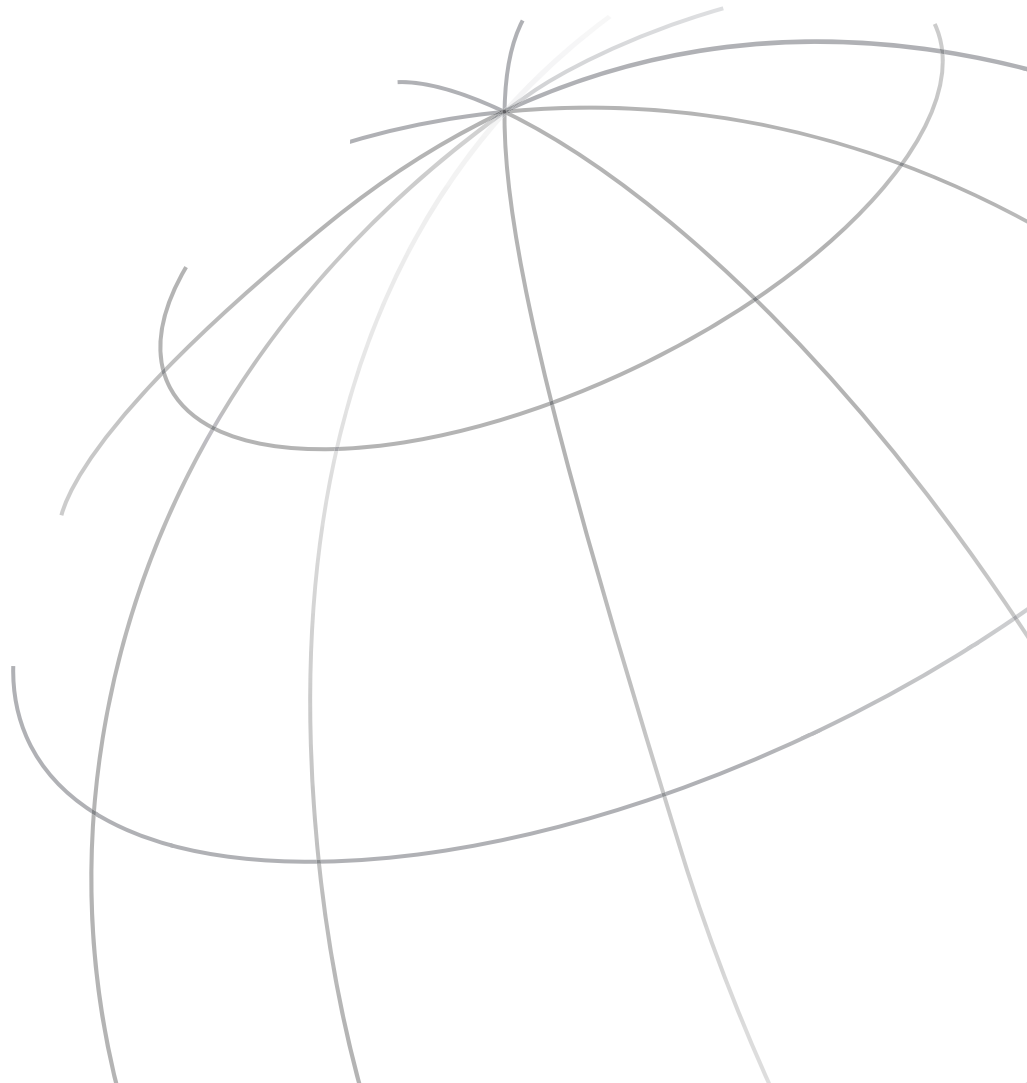
O.E.M. names and numbers are used for reference purposes only.

O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO	O.E. No.	HC-CARGO
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ZM-60296	133782	ZM-6640	333494	ZM-7356	234476	ZM-836	333529
ZM-603	133290	ZM-6651	133083	ZM-736	132362	ZM-8395	230805
ZM-604	138009	ZM-672	139212	ZM-736	333170	ZM-839591	139602
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