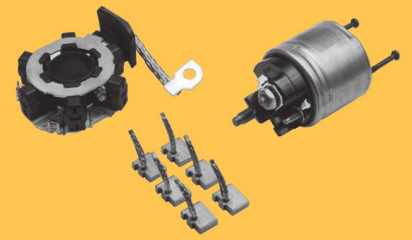


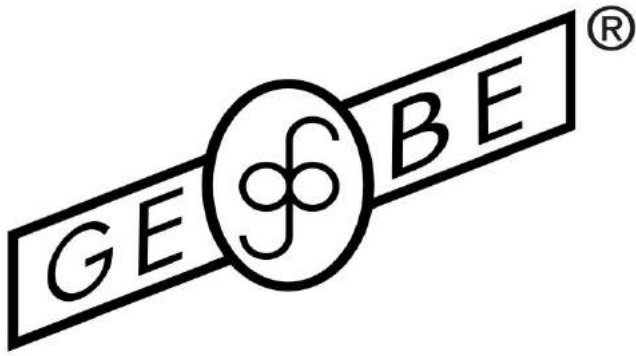
Ersatzteile für Anlasser / Pièces de rechange pour démarreurs

Spare parts for Starters 2018/19



Quality inside





AUSGABE
EDITION

2018/2019

Quality inside

Neue Teile
New parts
Nouveaux produits

= **NEW**

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INHALTSVERZEICHNIS - INDEX - SOMMAIRE

ERSATZTEILE FÜR STARTER COMPONENTS FOR STARTERS PIECES DE RECHANGE POUR DEMARREURS

	Seite - Page	
1. KOHLEBÜRSTEN CARBON BRUSHES BALAIS EN CHARBON	1 - 72	
2. BÜRSTENHALTER UND BÜRSTENHALTER-KITS BRUSH-HOLDERS AND BRUSHHOLDER-KITS PORTE-CHARBONS ET KITS PORTE-CHARBONS	73 - 142	
3. STARTERRITZEL STARTER DRIVES LANCEURS DE DEMARREUR	143 - 182	
4. MAGNETSCHALTER SOLENOIDS INTERRUPTEUR MAGNÉTIQUE	183 - 212	
5. ERSATZTEILE FÜR GETRIEBESTARTER COMPONENTS FOR GEAR STARTERS PIECES DE RECHANGE POUR DEMARREURS A REDUCTEUR	213 - 226	
6. SINTERBUCHSEN BUSHINGS BAGUES	227 - 242	
7. NADELLAGER NEEDLE BEARINGS ROULEMENTS A AIGUILLES	243 - 254	
8. REPARATURSÄTZE UND BUCHSENSÄTZE REPAIRKITS AND BUSHING-KITS KITS DE REPARATION ET JEUX DES BAGUES	255 - 270	
9. VERSCHIEDENE STARTERTEILE VARIOUS STARTER PARTS DIVERSES PIECES DE DEMARREURS	271 - 288	
INFORMATION		
	Seite - Page	
10. ABMESSUNGEN SURVEY CLASSEMENT PAR ALESAGES	289 - 294	
11. VERGLEICHSLISTE CROSS REFERENCES LISTE DE CORRESPONDANCE ENTRE LES REFERENCES	295 - 344	



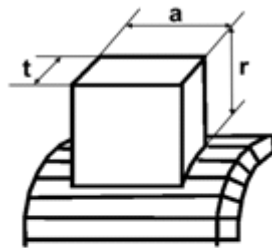
1

KOHLEBÜRSTEN

CARBON BRUSHES

BALAIS EN CHARBON





















Starter







t x a x r
10 x 20 x 20mm







	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 12 P/N 0 1100 1	Bosch	1 007 014 100 2 007 014 007	9 x 13 x 25,5	0 001 354 006,12,16,18,25-27,29,31,33,34,36, 038,42,48,55,62,64,68,70,73,74,77, 079-96,98-100,3,6,8,9,13
	4-BS 12	2 004 320 006	0 001 355 012 356 001 363 001 9 000 143 200,1 EJB,EJC,EJD1.6/1.8 kw JD (R/L) 6/12 Volt		
	BSX 33 P/N 0 1102 1	Bosch	2 007 014 020 1 007 014 106	9 x 20 x 28,5	0 001 400 016 401 051 BNG 2,5/12 4/12 Volt
	4-BS 33	2 004 320 066			
	BSX 34 P/N 0 1103 1	Bosch	2 007 014 021 1 007 014 107	9 x 20 x 28,5	0 001 401 071 402 001,7-9,11,12,18,23,34,41,43,44,50, 052-61,65,66,68,69,71,72,74,75,77, 079-81, BNG, KG(R) 4/24 Volt
	4-BS 34	2 004 320 068,087			
	BSX 35 P/N 0 1104 1	Bosch	2 007 014 013,047 1 007 014 109	12 x 20 x 28,5	0 001 401 002,4-7,11,13,15,17,26-29,35-37,39, 041,43-47,49-53,57,60-62,66-71,73 KG(R) 3.0 kw 12 Volt
	4-BS 35	2 004 320 091,098			
	BSX 39 P/N 0 1105 1	Bosch	2 007 014 002	9 x 13 x 25,5	0 001 355 009,11,13,15-17,19,20 EJD 1,8/24 24 Volt
	4-BS 39	2 004 320 008			
	BSX 43 (4) P/N 0 1106 1	Bosch	1 007 014 101,123 1 107 014 110	7 x 16 x 22	0 001 203 005,8-11,16,19 204 005 205 003,5,7,9,10,12,13,15,17 217 001 304 002,10,12,13,16,19,23 305 001,2,8,10-13,16 306 011,13 307 004,7-12,14-17,19-22,24,25 309 001 312 001 EED 0,5/6 0,8/12 EGD 0,5/6 0,8/12 EGE 1.0/1.3/12 6/12 Volt
	4-BS 43	1 004 320 059			






	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 44 (4) P/N 0 1107 1	Bosch	2 007 014 006,009,037 9 001 454 386		0 001 356 003 358 005,10,14,17,18,20,21,23,26-28, 033,35,37,38,40,41,46-51,90
	4-BS 44		2 004 320 074,080,085	8 x 22 x 22,5	EJD 3/12 JD(R) 3.2 kw 12 Volt
	BSX 70 P/N 0 1121 1	Bosch	2 007 014 018 1 007 014 128		0 001 155 016,017 157 001-4,6,7,13-16,18,21-25,27-30
	4-BS 70		2 004 320 026,098 1 004 320 902	7 x 14 x 16	9 000 141 101,3,4,7,8,11-16,100 334 101-104 DF(L/R) 0.6PS/0.7kw DD(R) 0.5PS/0.6kw DF(L/R) 0.6-0.7kw 12 Volt
	BSX 74 P/N 0 1123 1	Bosch	2 007 014 000,024 1 007 014 102,103		0 001 100 003,004 101 004 102 003-006,009
	4-BS 74		2 004 320 043,044	7 x 14 x 17,5	104 005,007 105 002,003 154 001,005,007 155 001-004,006,008-010,014-016 157 010 158 001,002,008,009 9 000 141 000-004,006-010,013,015,017,018 DC(L/R) 0.5kw DD(L/R) 0.6kw DF(R)L) 0.65kw 12 Volt
	BSX 75 P/N 0 1124 1	Bosch	2 007 014 026,027,031,034 1 007 014 126,131-133		0 001 207 001,018, 208 004,08,25, 039-41,44,49,51-54,100,101 200-5,6,8-11,13,14,16-21,23-29,32,33 403-409,11-23,25-29, 211 200,1,4-9,10,13-25,27-29,33-36,39,41-49, 251-55,57-59,86,88, 986-93,95-96,97,98 212 006-8,11,13,204-14,400-3 213 003,4
	4-BS 75		1 004 320 076,126,900 2 004 320 172,173,180	7 x 10 x 18	9 000 142 001-003,14,100-102, 333 105,112,115,116,118,119 EF(R/L) 0,7/0,8/12 EF(L/R) 0.7-0.95 kw 12 Volt
	BSX 76 P/N 0 1125 1	Bosch	1 007 014 119,121,127,129,134 1 107 014 126		0 001 207 001-3,5-7,9,10,13,15-20 0 001 208 004,6,7,9-12,17-19,23,25,29, 032, 033,36-38,46-50,54,55 056,058,059,061 209 014 211 005,016,017,129 212 002,3,5,6,12 214 001,002 215 001,002 217 001 310 002,5,7-11,16,18,43,46,47, 049,50,116,120 311 008,10,13,19,23,25,28-32,34-37,45,47, 050-052,054-056,100,103,105,107,108, 112-115,118,120-128,130,131,133-146, 147,149-152 312 100-102,104-107,110,111 313 006,007 314 001,003-006,008-018,022,024-049 317 005,006 EF,EEF(L/R) 0,7/0,8/12, GF(R) 1/12 EF(L/R)6/12 0.5-0.85 kw GF(L/R) 6/12 0.5-1.70 kw 12 Volt
	4-BS 76		1 004 320 071,082,127, 1 004 320 901,903	7 x 16 x 18	






	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 93 P/N 0 1130 1	Bosch	2 007 014 016 2 004 320 122,125,127	9 x 16 x 25,5	0 001 363 001,101 JF(R)2.8PS/2.6kw 24 Volt
	BSX 96 P/N 0 1132 1	Bosch	2 007 014 044,050,052 2 007 014 056,064 2 004 320 220	10 x 25 x 23	0 001 358 200-2 359 001-4,6-8,10-14,16,18-21,23-41, 043-51,53-69,71-76,81-92,94-102 104-114,117-119,122,124 365 004-008 9 000 143 107,1099-111 JD(R) 3.0/3.7kw,4PS 12 Volt
	BSX 100 P/N 0 1136 1	Bosch	2 007 014 049,051,078 2 004 320 217	8 x 25 x 23	0 001 360 002,3,7,8-10,12-19,22-27,29-45, 047-51,54-61,63-65 364 100,108,200-206 416 015 417 060 9 000 143 300-305.501 JD(R) 4.0/4.8/5.2/5.4/6.6kw 24 Volt
	BSX 102 P/N 0 1138 1	Bosch	2 007 014 019,053 2 004 320 124,126	9 x 16 x 25,5	0 001 357 002, 362 001-009,011-017,019, 021-025,027-030,0320,33 9 000 143 400,402,404-407,409 JF 2.0/2.4 kw 12 Volt
	BSX 104 P/N 0 1140 1	Bosch	2 007 014 038,054,055 1 007 014 038,112-114, 1 007 014 117,118,122 2 007 014 030 1 004 320 082,125,127,154 Replacement for BSX 59 (2) IKA P/N 0 1112 1	7 x 16 x 18	0 001 208 001,009,013,014,024-026,030-033, 058,059,061 0 001 209 014 0 001 211 001-006,010,012,013,016-018, 020-026 0 001 212 002,005,006 0 001 215 001 0 001 217 001 0 001 311 001,007,014,016,020-024,026, 027,028,030,032,038,039,045,048 0 001 313 001,003,005 9 000 042 027 EF/GF(R) 0.85 kw 1 PS 12V EF(L/R) 0.7/0.8 kw 12V EB(L),EEF 0.8 kw 12V
	BSX 134-144 P/N 0 1147 1	Bosch	2 007 014 062 2 004 320 101 2 004 320 102 Alternative Brush Set	10 x 25 x 17 10 x 25 x 17 BSX 155 wo. terminal	0 001 367 001-18,20-46,48,50,51,54-59,61-64, 066-68 9 000 143 410,12,15,16,19 JF(R) 3.0 kw 12 Volt












	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 135-145 P/N 0 1148 1	Bosch	2 007 014 063		0 001 368 001-088 300-321
	2-BS 135 2-BS 145		2 004 320 103 2 004 320 104	8 x 25 x 17 8 x 25 x 17	300-321 369 011 9 000 143 600-04 JF(R) 4.0 kw 24 Volt
			Replacement for BSX 198-199 IKA P/N 0 1182 1		
	BSX 137-143 P/N 0 1149 1	Bosch	2 007 014 065,068		0 001 362 034-36,38-43,45-53,057-64 067,69,70,81-86,88-100,102-105 300-332,600-607,700-705 366 001-00,008-022,024-029, 9 000 143 203,204,408,411,413,414,420 JF(L/R) 1.9-2.7 kw 12 Volt
	2-BS 137 2-BS 143		2 004 320 294,296 2 004 320 295,297	9 x 16 x 17 9 x 16 x 17	
			Alternative Brush Set	BSX 139 w/o. terminal	
	BSX 138-142 P/N 0 1150 1	Bosch	2 007 014 035,058,069		0 001 363 003-5,7,9,13,16 103-128 JF(L) 3.2 kw JF(R) 2.6/3.2 kw 24 Volt
	2-BS 138 2-BS 142		2 004 320 298 2 004 320 299	9 x 16 x 15,5 9 x 16 x 15,5	
	BSX 139 P/N 0 1151 1	Bosch	2 007 014 040,057 1 007 014 130		0 001 305 010 315 002,004,005 GD 1.0/12 Volt GF(L/R) 1.6/1.9 kw
	4-BS 139		2 004 320 038	9 x 16 x 17	
			Alternative Brush Set	BSX 137-143 with terminal	
	BSX 140 P/N 0 1152 1	Bosch	1 007 014 138		0 001 208 516,710 211 514 312 108,9 317 007-13,16-19,22-25 GF(R) 1,7 KW 12 Volt
	4-BS 140		1 004 320 910	7 x 16 x 15	
			Alternative Brush Set	BSX 152 w/o. clip	
	BSX 146 P/N 0 1154 1	Bosch	1 007 014 137		0 001 211 500-505,7,10,11 525-30,38 EF(L/R) 0.8 kw 12 Volt
	4-BS 146		1 004 320 911	7 x 10 x 14	
			Limited Stock Alternative Brush Set	BSX 149 w/o. clip	







	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 147 P/N 0 1155 1	Bosch Caterpillar	2 007 014 067 3T0844 2 004 320 017	10 x 36 x 27	0 001 420 001-15,24-29 3T4583,6 Caterpillar KE(R) 7,5 KW 24 Volt
	BSX 148 P/N 0 1156 1	Bosch	2 007 014 008,048,061, 2 007 014 070,074 2 004 320 285 Alternative Brush Set	12 x 36 x 27 BSX 172-173	0 001 410 029,062 416 001-40,42-77 417 001-74 KB(L/R) 5.4-6.6 kw KB(L/R) 5.4-6.6 kw 24 Volt
	BSX 149 P/N 0 1157 1	Bosch	1 007 014 139,141,145 1 004 320 101,102,103 Replacement for BSX 146 with clip IKA P/N 0 1154 1	7 x 10 x 14	0 001 208 501,6-8,10,13-21,26,28 702,5-15,17-19, 211 512,13,15,33,35,36 9 000 333 104,06,09,14,17,20,21 EF(L/R) 5.4-6.6 kw 12 Volt
	BSX 151 P/N 0 1158 1	Bosch	1 007 014 143 1 004 320 912 9 003 334 315, 338 Alternative Brush Set	7,5 x 18 x 17/19 BSX 151/0 w/o. clip	0 001 218 001-29,100-178 6 033 AB1 J00 9 000 331 201,203 401,2,5-9,11-15,17-28,30-33 EB(L/R) 1.9/2.2.4 kw EV(L/R) 1.9/2.2/2.4 kw 12 Volt
	BSX 151/0 P/N 0 1159 1	Bosch	1 007 014 143 w/o. clip 1 004 320 112 Alternative Brush Set	7,5 x 18 x 17/19 BSX 151 with clip	
	BSX 152 P/N 0 1162 1	Bosch	1 007 014 144 1 004 320 106 Alternative Brush Set	7 x 16 x 15 BSX 140 with clip	0 001 317 014,15,20,21 GF(L) 1.7 kw 12 Volt


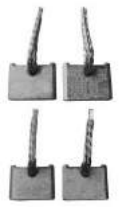

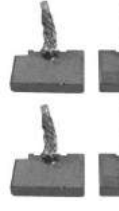

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 155 P/N 0 1164 1	Bosch	2 007 014 071	0 001 369 001,003 JF(R) 3.1kw 12 Volt
	2-BS 155 2-BS 155L	2 004 320 135,137 2 004 320 136,149 insulated	10 x 25 x 15 10 x 25 x 15	
		Alternative Brush Set for	BSX 134-144 BSX 163-164 with terminals	
	BSX 157-158 P/N 0 1165 1	Bosch	1 004 320 135,143,148,166,218 1 004 320 134,142,149,165,219	0 001 109 001-008,11,12,14,15,17, 018,21-23,25,26,28-31, 033-036,40-45,47-49,52, 055,56,59-63 200,201,253 110 001-005,07-15,17-19,22-33 39-49,51,53,55-71,73,75-85, 88-90,92,95,98-102,104-107, 110-15,20,22-29,32,999 115 001,002 124 004,015,020,021 125 001,002,005,006,009,010,012, 013,016-019,021,022, 501-04,07,08,12,13,17,602 F 000 AL0 105,107,108 F 010 AL0 101 DB/DW (L) 1,7 KW DW (R) 1,6-2,1 KW 12 Volt
	2-BS 157 2-BS 158	1 004 320 135,143,148,166,218 1 004 320 134,142,149,165,219	6 x 18 x 13/14,5 6 x 18 x 13/14,5 flex 4.0 mm²	
		Brush Holder:		
		1 004 336 228,233,257,279, 301,359,361,367,393, 394,400,401,402,404, 405,407-410,412,413, 422,425,429-431,437, 438,440,445-448,450, 454-456,458-461,463, 465,466,468,472,719, 720,729-732,734-739, 741,742,777-779,804, 807,808,819,826,829, 835,836,839,840,845, 847-849,860,868,871, 875,877,881,909,908, 909,914,924-927, 931-933,942,945-949, 955,956,958,959,962, 976,981,983,984,988, 990,991,994,996,997, 999		
	BSX 157-158K P/N 0 1167 1	Bosch	1 004 320 171,174,221,222 172,173,220,223	0 001 115 002,05-09,11-13,16,17,24 123 001 DW (R/L) 1,7 KW R74-E10 (R/L) 12 Volt
	2-BS 157K 2-BS 158K	1 004 320 171,174,221,222 172,173,220,223	6 x 18 x 11/12,5 6 x 18 x 11/12,5 flex 4.0 mm²	
		Brush Holder:		
		1 004 336 396,414,424,452,453, 470,471,722,743,763, 803,824,852,867		
	BSX 159-160 P/N 0 1166 1	Bosch	1 004 320 133,140,146,167, 224,226 1 004 320 132,141,147,168 225,227	0 001 108 001-05,09-13,16-33,35,37-40, 42-48,50-54,56-66,68-100, 101-41,43-56,58-60,62, 166-78,80-84,86,88,89,97,99 996-999 111 001-05 9 000 694 038,048 F 000 AL0 126 F 002 G20 049,052,101,141,449,500,592, 639 F 005 M00 005,006,010,011,013,016,021 F 010 AL0 101,103 DV (L) 1.2 kw 12 Volt DW (R/L) 1,1-1,4 KW 12 Volt R74L 12V(R)
	2-BS 159 2-BS 160	1 004 320 133,140,146,167, 224,226 1 004 320 132,141,147,168 225,227	5 x 16 x 11,5/13 flex 4.0 mm² 5 x 16 x 11,5/13 flex 4.0 mm²	
		Brush Holder:		
		1 004 336 300,318,337,343,362, 363,374-376,403,411, 418,419,423,426,436, 442,443,457,464,467, 733,740,747,748,762, 772,806,811,812,816, 823,832,837,850,859, 902-904,907,911-913, 918,919,921-923, 934-936,941,944,950, 954,960,961,965,968, 971,973,974,986,995, 998 F 002 G20 616 F 004 A36 001		



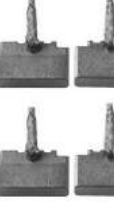

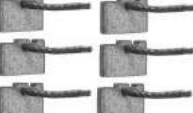
	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 163-164 P/N 0 1168 1	Bosch	2 007 014 073,076		0 001 367 001,04,05,07-10,12,13,15,17, 018,21-24,26,28,29,30,32-34, 039,42,44-47,49,50,52-54,58, 061,63,65,66,68-82 300-03, 369 002,04-07,12-25, 200,01 9 000 143 416 JF(R) 3.0/3.1/3.6 kw 12 Volt
	2-BS 163 2-BS 164		2 004 320 108,198 2 004 320 109,199 Alternative Brush Set	10 x 25 x 15 10 x 25 x 15 BSX 155 w/o. terminal	
	BSX 165 P/N 0 1169 1	Bosch	9 003 337 001		0 001 219 001-017,112 9 000 331 201,203 332 401,402,405,406 EV (R/L) 2,5 KW 24 Volt
	4-BS 165		9 003 334 321	7,5 x 18 x 17/19	
	BSX 166 P/N 0 1173 1	Bosch			0 001 112 003-29,32-39,41,44,45 113 001-15,17 114 003-06,08-10,14-17,20-22 133 003,04 9 000 081 003,09,10 9 000 695 004-009 F 000 AL0 300-302,400,401 F 010 AL0 301 DA (L/R) 0,9 KW DM (R/L) 0,8-1,0 KW 12 Volt
	4-BS 166		1 004 320 136/F 000 AL1 658 mono brush Brush Holder: 1 004 336 217,302 815,17,34,43,44,46,65 915-17,28,39,40,43,52 953,63,67,69,92,93 9 000 081 094 F 000 AL1 013,054,055,061,326, 483,532,917-919 AL2 034-036,109 F 004 A36 004-006 A95 002	5 x 12 x 11,6	
	BSX 170-171 P/N 0 1171 1	Bosch	2 007 014 077, 085		0 001 364 300,301,400,402 372 001-008 JD(R) 5,2 KW JE(R) 6,2 KW JF(R) 4,8 KW 24 Volt
	2-BS 170 2-BS 171		2 004 320 196, 165 2 004 320 197, 166 Brush Holder: 2 004 336 066,085-087	10 x 25 x 15 10 x 25 x 15	
	BSX 172-173 P/N 0 1172 1	Bosch	2 007 014 079		0 001 410 029,62 416 001-19,22-24,26-33, 035-40,42-53,56,57, 059-66,68-80,83 417 001,02,05-07,10,11,13, 014,16,17,20,22-31,33, 035-38,41-45,47,48, 050-59,61-66,68,69, 071-74,77-80, 418 004-06,08,10 KB(R) 3.6/5.4/5.5/6.6 kw 24 Volt
	2-BS 172 2-BS 173		2 004 320 244 2 004 320 245 Alternative Brush Set	12 x 36 x 19 12 x 36 x 19 BSX 148	

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 172-173-174 P/N 0 1194 1 Bosch Volvo	2 007 014 084 3093273		0 001 417 075,076 1547049 1556955 3095060 3964839 KB (R) 6,6 KW 24 Volt
	2-BS 172 1-BS 173 1-BS 174	2 004 320 244 2 004 320 245 2 004 320 249	12 x 36 x 19 12 x 36 x 19 12 x 36 x 21	
	BSX 175-176 P/N 0 1175 1 Bosch	1 004 320 154,156,169,214 1 004 320 155,157,170,215 Brush Holder: 1 004 336 201,219,239,309, 314,320,321,326, 332,368,382,391, 392,397,415-417, 420,421,427,428, 432-435,444,451, 462,469,801,809, 810,813,814,820, 821,827,828,830, 831,833,841,842, 851,853,937,938, 951,957,964,970, 975,980,985,987, 989 F 004 A36 002,003	5 x 12 x 10,9/11,6 5 x 12 x 10,9/11,6 flex 2.5 mm ²	0 001 106 011,12,14-20,22-26, 107 003-12,14-34,37-41,43-49, 052-56,58-64,66-80,82,83, 085,87-98,100,101 121 001-03,06-11,16-19,22,23 9 000 081 001, 04,06,07 9 000 694 007,017,022,029,035,041,044,047, 051-053 F 002 G20 318 F 004 A94 009,010 DB/DW (L) 1,1 KW DB/DW (R) 0,9-1,2 KW R74-M35 12V(R) 12 Volt
	2-BS 175 2-BS 176			
	BSX 177 P/N 0 1174 1 Bosch	2 007 014 082 9 001 453 644		0 001 371 004-010,012-20 9 000 453 064,65,68 T 144 GA JE(R) 6,0 /6.7 kw 24 Volt
	4-BS 177	2 004 320 271	9 x 36 x 18	
		Brush Holder 2 004 336 077,078		
	BSX 178-179 P/N 0 1176 1 Bosch	2 007 014 080		0 001 418 001-003,009,012,014,015,017 KB(R) 3,6 KW 12 Volt MB Unimog
	2-BS 178 2-BS 179	2 004 320 240 2 004 320 241	12 x 36 x 19 12 x 36 x 19	
	BSX 184-185 P/N 0 1088 1 Bosch	1 004 320 163,200 1 004 320 164,201 Brush Holder: 1 004 336 502,505,510,519,525, 526,534,542,547,580, 583,593,600,607,608, 630,632,636,655,702, 703,711,718,723,789, 791,866,887,896	4,6 x 12 x 10,5/11,2 4,6 x 12 x 10,5/11,2 flex 2.5 mm ²	0 001 107 401-415,417,418,421-443, 446-453,456,460-462,474, 478,479,508,509,514, 529-531,534,535 121 402,403,408-413,422,423, 427-430,435,436,443,444 9 001 107 434 F 002 G20 485,594,669 F 004 A94 000,001,401,410,434,441,449 DW(R/L) 1,1 KW 12 Volt R70-M10,15,25,35,45(R) RF70-M15,25 (R/L)
	2-BS 184 2-BS 185			



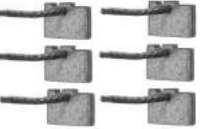

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 186				
	P/N 0 1179 1	Bosch	2 007 014 014,017		0 001 510 001-003,005,008-010,017-028, 030-036,038-041
	4-BS 186		2 004 320 176,178	12 x 40 x 27	512 001,002 QB / QF(R) 9.0 kw 24 Volt
	BSX 186-187				
	P/N 0 1180 1	Bosch	2 007 014 083		0 001 510 029,037
	3-BS 186		2 004 320 176	12 x 40 x 27	QB(R) 9,0 KW 24 Volt
	1-BS 187		2 004 320 177	12 x 40 x 27	
					
	BSX 190-191				
	P/N 0 1183 1	Bosch			0 001 231 001-14,16-19,23, 024,26-30,32-36,45
	2-BS 190		9 003 334 359, 6 033 AD4 030	6,4 x 25 x 15.4/16.4	EV(R) 4.0 kw
	2-BS 191		9 003 334 360, 6 033 AD4 029	6,4 x 25 x 15.4/16.4	HE95-M 24Volt
<p>Brush Holder: 6 033 AD0 130,156,380,383,471 6 033 AD4 026,054,161,180 9 003 334 363</p> <p>Stator Frame: 6 033 AD0 128,151,152,189,473 AD4 064,092-094,098,099 107-110,177</p>					
	BSX 192-193				
	P/N 0 1184 1	Bosch			0 001 218 602,20,703,10-12,15,16,19,22, 725,28,30,35-38,40-42,54,57-59
	2-BS 192		6 033 AD0 011	6.2 x 22 x 13 / 15	763-68,70-72,74,76,77
	2-BS 193		6 033 AD0 012	6.2 x 22 x 13 / 15	805,08,09,12,14-22
<p>0 001 223 001-14,16,18,19,21,22,56 500-507 EV(L/R) 2,3 kw EV(R) 2,6 kw 12 Volt</p> <p>Brush Holder: 6 033 AD0 014,159-161,221,368, 401,404,407,409,411, AD1 155,244,246,250,252, 255,259,294,311,349, 350</p> <p>Stator Frame: 6 033 AD0 007,162-164,223, 225,311,412 AD1 108-110,245,248, 249,251,254,256,260, 301,313,327,351,381 313,327,351,381 AD2 002</p>					
	BSX 194-195				
	P/N 0 1186 1	Bosch			0 001 230 001,07-10,14,18,20-24,26,27
	2-BS 194		9 003 334 361,6 033 AD3 196	7,5 x 27 x 15,4/16,4	EV(R) 3.0 kw
	2-BS 195		9 003 334 362,6 033 AD3 197	7,5 x 27 x 15,4/16,4	HE95-M 12V(R) 12 Volt
<p>Brush Holder: 6 033 AD0 166,370,374, AD3 022,042,058 9 003 334 368</p> <p>Stator Frame: 6 033 AD0 167,170,244</p>					


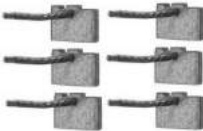


IKA-No.	Original	References	Dimensions mm	Unit-Nos.
 	BSX 196 P/N 0 1187 1 Bosch	1 004 320 158 mono brush Brush Holder: 1 004 336 822,838,854,856,861 F 000 AL1 921, F 000 AL2 050-052	5 x 8.5 x 10.5/11.5	0 001 116 001,003-006,008,009 DM(R/L) 0.7 kw 12 Volt
	4-BS 196			
	BSX 197 P/N 0 1170 1 Bosch	2 007 014 072 2 004 320 270 Brush Holder: 2 004 336 079	9 x 36 x 18	0 001 370 001-004 9 000 453 029,065-067 JE(R) 5.0 kw 12 Volt
	4-BS 197			
	BSX 200-201 P/N 0 1188 1 Bosch	1 004 320 175,210 1 004 320 176,211 Brush Holder: 1 004 336 272,410,503,507, 508,514,516-518, 524,532,538,548, 549-551,555,556, 559,563,569-571, 573,575,578,597, 654,701,709,714, 725,726,739, 750-752,756,757, 774,780,781,783, 787,800,872,877, 884,885,891, 893-895 1 007 010 124,135 Kit F 002 G20 430,522,743	6 x 18 x 12.7/14.2 6 x 18 x 12.7/14.2 flex 2.5 mm ²	0 001 109 057-60,68,202-205,250, 302-305,340,341,389,390 110 071,072,086,087,118,119 124 001-008,011-014,022-025 125 003,004,007,008,011 6 004 AA3 014 F 000 AL0 115 F 002 G20 292,359,385,430,516,550,618, 622,672,795,806 F 004 A94 002 DB/DW(L) 1.7-2.0 kW DB/DW(R) 1.7/2.2 kW R78-M10,15,28,45,55 12V(R) RF78-L30 12V(L) VW overload protection starter
	2-BS 200 2-BS 201			
	BSX 202-203 P/N 0 1178 1 Bosch	6 033 AD0 263 6 033 AD0 264 Brush Holder: 2 004 336 091-093,110-118, 125-128 6 033 AD0 384 AD6 098 fits IKA P/N 7 7245 1 fits IKA P/N 7 7501 1	9 x 31.82 x 17.5/23 9 x 31.82 x 17.5/23 flex 10 mm ²	0 001 330 004,007,008,011-014, 016-018,020,501,502 0 001 340 501-505 0 001 33E 101 0 001 33F 102 0 001 34B B01,H01 0 001 34F 801,802 0 399 B50 306,307 GVB(R) 24V 6.0 kw HEF109-M,MP 24V (R) HEP109-MP 24V (R) MB 006 151 00 01 Scania 1447912 Volvo 3595446, 3827444 JW, Liebherr, MTU
	2-BS 202 2-BS 203			
	BSX 204-205 P/N 0 1197 1 Bosch	1 004 320 177,212 1 004 320 178,213 Brush Holder: 1 004 336 506,592,637,799, 879	4.45x10x12.0/12.7 4.45x10x12.0/12.7 flex 2.5 mm ²	0 001 106 403-407,409,410 120 400-411 F 004 A94 403 DB(L) 0.9 kw RF70-S25 12V(L) R70-S10 12V(L/R) Audi, SEAT, Skoda, VW
	2-BS 204 2-BS 205			

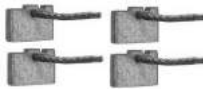


IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 210-211 P/N 0 1091 1 Bosch	1 004 320 179,202,314,335 1 004 320 180,203,313,334 Brush Holder: 1 004 336 509,527,530,531, 564,565,576,595, 602,615,631,633, 656,657,676,704, 707,708,768,769, 785,886 1 004 338 102,117,133,144	4.45x16x11.5/12.2 4.45x16x11.5/12.2 flex 2.5 mm ²	0 001 108 400-406,408-412,420,421,430, 431,437,438,450,451,456,457 0 001 170 400,401 0 001 172 404,405 0 001 177 000-013 F 002 G20 670 F 004 A94 004 DW(R)1.4 kw R70-L15,25,35(R) RF70-L25(L) 12 Volt CF70-M 12V(L) SC70-M,-S 12V(R)
	2-BS 210 2-BS 211			
	BSX 210-211-249-250 P/N 0 1208 1 Bosch	1 004 320 202,314,335 1 004 320 203,313,334 1 004 320 265,316 1 004 320 266,315 Brush Holder: 1 004 337 022,140,150	4.45x16x11.5/12.2 4.45x16x11.5/12.2 flex 2.5 mm ² 4.45x16x11.5/12.2 4.45x16x11.5/12.2 flex 2.0 mm ²	0 001 108 445,446,466,467 R70-L15,25 12V (R) VW 079 911 021 D,-DX,-G Porsche 9586 041 110 00 VW overload protection start/stop starters
	1-BS 210 1-BS 211 1-BS 249 1-BS 250			
	BSX 212-213 P/N 0 1092 1 Bosch	1 004 320 183,204,206 1 004 320 184,205,207 Brush Holder: 1 004 336 511,512,521,528, 533,536,552, 566-568,572,579, 638,658,712,727, 753,770,771,773, 782,788,888,889, 898 F 000 AL1 934	5x16x11.5/13 5x16x11.5/13 flex 2.5 mm ²	0 001 108 157,190,196,200-204,206-214, 217,218,220-225,228-231, 234-242 0 001 108 460-463 F 000 AL0 110 F 002 G20 326,348,546,582,593,820 F 004 A94 007 F 026 T02 002 DW(R) 1.4-1.8 kw R74-L40,45,-60,-75,-100 12V(R) RF74-L20 12V(R)
	2-BS 212 2-BS 213			
	BSX 216-217 P/N 0 1094 1 Bosch	6 033 AD5 177,314 6 033 AD5 178,315 Brush Holder: 6 033 AD4 016,194, 212 6 033 AD5 128,179, 316,318,320 Stator Frame: 6 033 AD4 107,108,166,177,199 6 033 AD5 154 fits IKA P/N 7 7241 1	5.35x27.77x17.2/18.2 5.35x27.77x17.2/18.2	0 001 231 004-007,009,012,013,016,023, 026-030,033-036,038-041,045,046 119,146 241 001,003,005-009,012,014,015,016, 018-021,023,024,119 F 002 G20 786 EV(R) 24V 4.0 kw EVB(R) 24V 5.5 kw HEF95-L 24V(R) 5,5kw HE95-M 24V(R) 4.0 kw IVECO Eurocargo MB Atego Nissan, Scania
	2-BS 216 2-BS 217			
	BSX 218-219 P/N 0 1095 1 Bosch	1 004 320 230 1 004 320 231 Brush Holder: 1 004 336 504,529,561,562, 577,587,589,765, 766,786,795,797, 978	5x12x10.9/11.6 5x12x10.9/11.6 flex 2.0 mm ²	0 001 107 103-112 121 024-035 DB/DW(L/R) 1.2 kw R74-M20 12V(L) R74-M40,-M60 12V(R) RF74-M40 12V(R) RF74-M50 12V(L) overload protection starters
	2-BS 218 2-BS 219			



IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 220-221 P/N 0 1096 1 Bosch	1 004 320 208,232,400 1 004 320 209,233,401 Brush Holder: 1 004 336 537,574,581,582, 586,590,594,596, 599,601,603,605, 611,616-629,639, 666,687,688,713, 784,790,794,878 1 004 337 003,004,139 F 002 G20 653	6x18x14.2/15.7 6x18x14.2/15.7 flex 4.0 mm ²	0 001 109 064-067,069,070,205,258-276, 280,281,284,285,300-307,310, 310,311,313,319-322,324,325, 328,329,330-337,342,343-345, 355-362,364,369-371,375-379, 387,388,391,392-404,407-410, 413,414,417,421,422 110 130,131,133,134,136-139 124 022,027 125 025,031,032,035,036,039,040, 042,043,046-049,051-056, 511-514,517-522,600,601, 605-610,621,622 0 399 501 002-007 F 000 AL0 111,154,159,160 F 002 G20 524,640,852 F 004 A94 008,011 DB/DW(L) 1.7-2.0 kw DB/DW(R) 1.7-2.2 kw R78-L35,M28,M35,M45,M55 12V(R) RF78-L30,L35 12V(L) RF78-M28,M45,SW28 12V(R)
	2-BS 220 2-BS 221			
	BSX 222-223 P/N 0 1220 1 Bosch	2 004 320 264,266 2 004 320 265,267 Brush Holder: 2 004 336 090,094 2 004 336 096,097 fits IKA P/N 7 7533 1 Replacement for BSX 239-240 IKA P/N 0 1220 1	6,35x27.77x17.2/18/19 HX-95L 12V(L) 6,35x27.77x17.2/18/19 HX-95M 12V(L) flex 10.0 mm ² flex length 35 mm	0 001 260 001-004,025,026 0 001 262 001-008,019-022,029-034 John Deere RE 52 637 5 RE 52 740 0 Serie 6.. >2010
	2-BS 222 2-BS 223			
	BSX 224-225 P/N 0 1219 1 Bosch	6 033 AD3 260 6 033 AD3 261 Brush Holder: 6 033 AD3 267,290-292 6 033 AD3 327-329 fits IKA P/N 7 7243 1	6,35x27.77x17.2/18.2 6,35x27.77x17.2/18.2 flex 6.0 mm ² flex length 25 mm	0 001 230 001-010,012-016,018, 020-024,026-030 F 002 G20 785 EV(R) 3.0 12 Volt 3.0kw HEF95-M 12 V(R)
	2-BS 224 2-BS 225			
	BSX 228 (4) P/N 0 1097 1 Bosch	1 004 320 244,279,281,321 Brush Holder: 1 004 337 005,041	5,25x18x12.7x14.2 flex 4.0 mm ²	0 001 139 021,022,037,038 S78-M 12V(R) DB 001 151 72 14 Porsche 948 604 210 01 948 604 214 00 Porsche Panamera 3.0-4.8 l start/stop starters
	4-BS 228			
	BSX 228 (6) P/N 0 1217 1 Bosch	1 004 320 244,279,281,321 Brush Holder: 1 004 336 612,649 1 004 337 002,145 MB 001 151 71 14	5,25x18x12.7/14.2 flex 4.0 mm ²	0 001 139 001,002,005,006,011-016, 025,026,029,030,047,048, 067,068,071,072,083,084, 0 399 703 044,045 F 002 G20 862 F 002 G70 013 S78-M 12V (R) S78-M55 12V (R) BMW 12 41 7 798 006 12 41 7 812 034,070 12 41 7 823 700,701 Chrysler 04801871AB 56029645AA Ferrari 243595,248743,297969 FIAT 518 102 67 MB 000 906 23 00,23 02 646 906 00 00
	6-BS 228			







IKA-No.	Original	References	Dimensions mm	Unit-Nos.
				946 906 00 00, 031 00 Porsche 948 604 210 00 start stop starters Alfa Giulietta 2.0 JTDM >2010 FIAT Doblo,-Cargo 2.0 Multijet Ducato 115 Multijet Jeep Wrangler 2.8 CRD MB Sprinter 2.1 CDI
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	BSX 228-243 (4) P/N 0 1027 1 Bosch			0 001 139 041,042,073,074 S78-M 12V(R) VW 059 911 021 G,-GX,-K overload protection start/stop starters Audi 3.0TDI >10/2011
	2-BS 228	1 004 320 244,279,281,321	5.25x18x12.7/14.2 flex 4.0mm ²	
	2-BS 243	1 004 320 261,278,280,320	5.25x18x12.7/14.2 flex 2.5mm ²	
	Brush Holder:	1 004 337 019		
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	BSX 228-243 (6) P/N 0 1028 1 Bosch			0 001 139 017-020,023,024,031,032,043, 044,065,066,075,076,085,086 149 400-409,412-420 S/SL78-M 12V(R) Chrysler 56029626AA, 56029667AA FIAT 500 457 26 533013830,9678690180 Ford CC1T-11000-DA,-DB,-DC CC1T-11000-EA,-EB MB 642 906 08 00,-09 00,-10 00 642 926 10 00 651 906 11 00,-12 00,-24 00 651 906 28 00,-43 00 PSA 9678 690 180 VW 059 911 021 F,-FX 03L 911 021 E,-G,-GX overload protection start/stop starters
	3-BS 228	1 004 320 244	5.25x18x12.7/14.2 flex 4.0mm ²	
	3-BS 243	1 004 320 261	5.25x18x12.7/14.2 flex 2.5mm ²	
	Brush Holder:	1 004 336 697,699 1 004 337 017,023,040,045, 046,058,068,149, 158,167-169, 182,185 MB 001 151 73 14 001 151 77 14		
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	BSX 229-230 P/N 0 1216 1 Bosch			0 001 138 003-006,011,012,029,030 037-040,043,044,047-050, 053,054,063,064 0 001 142 001,002 0 001 152 401 0 399 703 051,052 F 002 G20 859 S74-L 25 12V(R) 1.4/1.7 kw SF74-L 12V(L) start/stop starters BMW 12 41 7 552 697 12 41 7 567 788 12 41 7 589 354,355 12 41 7 610 342,349 12 41 7 616 689,698 12 41 7 617 216 12 41 7 626 000,546,547 12 41 7 631 024,025,054 12 41 7 802 945 12 41 7 803 514 12 41 7 812 070 12 41 7 823 314,315 FIAT 518 103 07, 552 268 44 Ford BS51-1000-BA MB 270 906 00 00, 04 00 Opel 55570445, 1202203 Suzuki 31100-86L00 Toyota 28100-0X040 VW 02T 911 024 J,-JX
	2-BS 229	1 004 320 245,282	4.45x16x12.3/13.8	
	2-BS 230	1 004 320 246,283	4.45x16x12.3/13.8 flex 2.5mm ²	
	Brush Holder:	1 004 336 609,614,645,648 1 004 337 012,053,063, 153,154 FIAT 77365287 Suzuki 31173-86L00		







IKA-No.	Original	References	Dimensions mm	Unit-Nos.
BSX 231-232-215 P/N 0 1214 1 Bosch				
	1-BS 215	1 004 320 229,235	6.0x18x11.0/12.5 flex 2.5mm ²	0 001 108 203 0 001 115 005,006,008,015,020-023,025, 031,032,035,039-042,045-054, 056,057,068-085,088,089,092, 093,096-101,103-111
	1-BS 231	1 004 320 249	6.0x18x11.0/12.5	123 002,003,012-021,026-029, 036-039,044,045
	2-BS 232	1 004 320 250	6.0x18x11.0/12.5 flex 4.0mm ²	DB/DW (R) 1.7 kw R74-E20 12V(L), R74-L10 12V(L) R74-E25,E35 12V(R) RF74-E25,E45 12V(L) overload protection starters FIAT 518 329 49, 558 329 49 MB 006 151 74 01, 75 01 636 151 02 01 Porsche 956 604 107 00 VW 012 911 023 C,-CX,-E,-F 02E 911 023 H,-HX,-L,-LX 02M 911 023 P,-PX 02M 911 024,-A,-AX,-X 02N 911 023 N 02T 911 024,-X 02Z 611 023 F,-FX,-N,-NX 03L 911 021,-C,-CX,-F,-FX 03L 911 021 H,-HX,-X 03R 911 023 A,-B 07C 911 023 E,-EX 0AH 911 023 B,-BX
		Brush Holder: 1 004 336 395,513,515,520, 522,523,535,553, 554,557,558,560, 568,584,585,588, 591,598,604,606, 640,641,650,653, 661-664,669,672, 677,678,700,721, 724,754,755,758, 759,761,792,793, 796,798,890-892, 897,899 FIAT 773 654 51 MB 000 151 63 14 VW 012 911 209 A 057 911 209 H 02M 911 209,-A 03G 911 209 D		
		Replacement for BSX 214-215 IKA P/N 0 1093 1		
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BSX 233 0 1215 1 Bosch				
	6-BS 233	1 004 320 251	4.45x14x12.3/13.8	S74-M 12V(R) 773 651 21 FIAT start/stop starters
		replaced by BSX 236	P/N 0 1211 1	overload protection
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BSX 234-235 P/N 0 1212 1 Bosch				
	3-BS 234	1004 320 254	5.25x18x12.7/14.2 flex 2.5mm ²	0 001 145 001,002 SF78-M 12V(L) 2.2 kw VW 02Z 911 023 S,-SX 2X0 911 023
	3-BS 235	1004 320 253	5.25x18x12.7/14.2 flex 4.0mm ²	overload protection start/stop starters Audi,VW
		Brush Holder: 1 004 336 681		
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BSX 235-228-243 P/N 0 1023 1 Bosch				
	2-BS 235	1 004 320 253	5.25x18x12.7/14.2	0 001 139 045,046,049,050,053,054 S78-M 12V(R) 2.0 kw overload protection start/stop starters
	1-BS 228	1 004 320 244	5.25x18x12.7/14.2 flex 4.0mm ²	VW 059 911 021 H,-HX,-J,-JX 07L 911 021,-X
	1-BS 243	1 004 320 261	5.25x18x12.7/14.2 flex 2.5mm ²	
		Brush Holder: 1 004 337 034,047 1 004 337 050,144		





IKA-No.	Original	References	Dimensions mm	Unit-Nos.
BSX 236				
P/N 0 1211 1 Bosch				
	6-BS 236	1 004 320 251,256,284,317, 1 004 320 326 Brush-Holder 1 004 336 689,695,698 1 004 337 015,016,020,021, 043,044,060,066, 152,156,165 MB 001 151 66 14 001 151 76 14 FIAT 773 651 21 Replacement for BSX 233 IKA P/N 0 1215 1	4.45x14.0x12.3/13.8 flex 2.0mm ²	0 001 137 001-004,011,012 0 001 138 001,002,009,010,013-020, 043-046,051,052, 057-062,067-072 0 001 147 424,425 0 001 152 410,411 S74-L,-M,-S 12V(R) SFL74-L 12V (R) SL74-L 12V(R) overload protection start/stop starters BMW 12 41 7 550 975, 12 41 7 567 788 12 41 7 589 350,352-356 12 41 7 626 000 12 41 7 638 192-194,196 12 41 8 621 576 FIAT 518 047 44, 518 103 08 518 193 80, 518 739 26 Ford BS51-11000-AA, 1715776 Hyundai/KIA 36100-2B300,-2B301 MB 006 151 72 01 270 906 07 00 271 906 02 00 276 906 02 00 Opel 55572440 Renault 23 30 061 24R Suzuki 31100-62MA0 VW 06E 911 021 D,-DX,-F,-FX 06H 911 021,-D,-DX,-X
BSX 238				
P/N 0 1209 1 Bosch				
	6-BS 238	1 004 320 257,318,338 Brush Holder: 1 004 337 049,069 1 004 337 171,175	4.45 x 19.5 x 12.3/13.8 flex 2.5 mm ²	0 001 148 031,032 0 001 153 500,501,508-511 SL/SFL74-E+ 12V(L) BMW 12 41 8 574 102 MB 645 906 02 00, 03 00 VW 059 911 021 L overload protection start/stop starters
BSX 241-242				
P/N 0 1033 1 Bosch				
	2-BS 241 2-BS 242	2 004 320 268,272 2 004 320 269,273 Brush-Holder 2 004 336 095,100 0 399 D57 009 fits IKA P/N 7 7507 1 Replacement for BSX 206-207 BSX 206-207 IKA P/N 0 1089 1	6,35x27.77x18/19 6,35x27.77x18/19 flex 6.0 mm ² length 35mm	0 001 241 001 0 001 261 001-008,011-013,016-018, 020-029,031,033,034,036, 037,044-047, 0 001 263 001-004,007-020,047-054 501 0 399 504 001-003,005-007,011-013, 016,028,029 HEF95-L5.5 kw HX95-M 24V(R) HXF95-L,M 24V(R) overload protection starters DAF 1826120,1826121,1843852, 1854008,1876369,1886891 1956090 IVECO 504385577 MB 006 151 22 01 Scania 1447911,1796026,2031368, 2148650
BSX 244				
P/N 0 1024 1 Bosch				
	4-BS 244	1 004 320 262,344 Brush Holder: 1 004 337 006,161 VW 03G 911 209 E	4.45x19.5x12.3/13.8 flex 3.0mm ²	0 001 153 001,002,005-010,015,016 SF74-E+ 12V(L) VW 02E 911 024 C,-CX 02M 911 024 C,-CX 02Z 911 024 H,-HX 07M 911 024 A 0AM 911 023 G,-GX start/stop starters VW Family











IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 245 P/N 0 1022 1	Bosch	4.45x19.5x12.3/13.8	0 001 148 003,004,009,010,015,016, 019-026,029,030,033,034 153 013,014,019-022 S/SF74-E+ 12V(R) BMW 12 41 7 838 020 12 41 7 843 526,530 12 41 8 506 657 12 41 8 509 198 12 41 8 515 795,900 12 41 8 570 238,239 Opel 555 720 65 1202216 VW 2H0 911 023 H,-K,-KX 3R0 911 023 C,-CX start/stop starters
	4-BS 245	1 004 320 264 flex 3.0 mm ² Brush Holder 1 004 337 013,029,042 1 004 337 146,147,155		
	BSX 247 P/N 0 1017 1	Bosch	4.45x14.0x12.3/13.8 flex 2.0mm ²	0 001 136 002,003, 005-008 0 001 137 005,006 0 001 138 055,056 0 001 142 003-006 0 001 147 400-409,420-423,430-433 0 001 152 400,401 S74-L,-M,-S 12V(R) SL74-L 12V(R) SF74-L 12V(L) SFL74-L 12V(L) overload protection start/stop starters MB 270 906 00 00,-04 00 270 906 07 00 276 906 13 00,-23 00 276 906 24 00,-43 00,-44 00 278 906 04 00 - 07 00 Hyundai/KIA 36100-2B302 Nissan 23300-1073R Renault 23 30 010 73R 23 30 059 51R VW 0AM 911 023 F,-FX 02Z 911 023 R,-RX
	6-BS 247	1 004 320 255,325 Brush Holder: 1 004 336 682 1 004 337 026,062,063,070, 072,073,160		
	BSX 253 P/N 0 1153 1	Bosch	4.45x14.0x11.5/13.0 flex 2.5 mm ²	0 001 170 400-403,406,407,410,411 600,601,604,605,624,625, 628,629,640,641 0 001 172 400,401,604,605 0 001 180 602,603 SC70-S 12V(R) SCL70-M,-S 12V(R) SCL70-MX 12V(R) start/stop starters BMW Chrysler 56029 640AA FIAT 519 161 68-70 519 384 39 519 756 77 552 545 83 Ford FS51-11000-AA,-BA GV6T-11000-AA GV6Z-11002-A 1881471 Nissan 23300-0379R 23300-7224R Opel 5559 1492 Renault 23 30 003 79R 23 30 048 68R 23 30 072 24R
	6-BS 253	1 004 320 308,327,328,337 Brush Holder: 1 004 338 125,136,141, 149,156,200 fits IKA P/N 7 7552 1		

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	BSX 256(4) P/N 0 1144 1	Bosch 1 004 320 331,333 Brush Holder: 1 004 338 140,178 fits IKA P/N 7 7550 1	4.45x17.0x11.0/12.4 flex 2.5 mm ²	0 001 179 510-519,522,523,530,531 SCF70-SX 12V(L) SCL70-L 12V(R) start/stop starters VW 02E 911 024 B,-BX 02M 911 021 G,-GX 02M 911 024 Q,-QX 02Z 911 024 Q,-QX 0AH 911 023 J 0AM 911 023 N,-NX,-R,-RX
	4-BS 256			
	BSX 256(6) P/N 0 1139 1	Bosch 1 004 320 331,332,333 Brush Holder: 1 004 338 142,143,145 FIAT 773 677 23 Suzuki 31173-55PA0 fits IKA P/N 7 7572 1	4.45x17.0x11.0/12.4 flex 2.5 mm ²	0 001 174 400-407 0 001 174 600,601,604,605 SC70-L 12V(R) FIAT 519 161 71 PSA 96 756 60 680 Suzuki 31100-55PA0 000 31100-T55PA0 000 VW 04L 911 021, -B,-BX,-X 06M 911 021, -X
	6-BS 256			

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 10-11 P/N 0 1955 1	Denso			128000-0490,-2450,-2470,-2560,-2740, -3361,-4220,-4250,-4682,-4683, -4910,-5370,-5510,-5620,-5720, -5730 OSGR-Starter 3.0/5.5 kW 24 Volt
	2-JAS 10 2-JAS 11		028520-1090 028530-1100	10 x 30 x 20 10 x 30 x 20	
		Isuzu	1-8116-048-0 1-8116-049-0		
	JASX 14 P/N 0 1940 1	Denso			02800-0197,-1010,-01011,-01970-01973, 02800-1975,1976 12 Volt
	4-JAS 14		28531-0110	7 x 12 x 16	
		Daihatsu	28142-21010		
		Isuzu	9-8211-1649-0		
		Mazda	0180-23-756		
		Mitsubishi	K437 450-0 MD604067		
		Subaru	89207-8602/49206/7202		
		Suzuki	31131-75011		
		Toyota	28142-21010		
	JASX 18-19 P/N 0 1996 1	Denso			028000-7560 128000-7010-7120-7122,-7130,-7390, -7710-7112,-7714,-8310 OSGR- Starter 12 Volt
	2-JAS 18 2-JAS 19			7 x 13 x 15,5 7 x 13 x 15,5	
	JASX 22 P/N 0 1945 1	Denso			12 Volt
	4-JAS 22		28531-0300	7 x 12 x 19	
		Daihatsu	28142-10011		
		Lucas	TAJ 400		
		Mazda	0208-23-756		
		Mitsubishi	MD604240		
		Subaru	89206-4102,6102/49243-7302 89206-8702,8602		
		Suzuki	31131-55010,-55011,-75110 31173-63210		
		Toyota	28142-10011		
	JASX 35 P/N 0 1935 1	Denso			028000-3290, -3291, -3292, -3650, -5040, -5960 12 Volt
	4-JAS 35		28530-0480	9 x 30 x 26	
		J. Deere	R50927		
		Mitsubishi	MD604256/MF022002		
		Toyota	28142-47021/-76010/-77040		
	JASX 39 P/N 0 1938 1	Denso			128000-2520,-2610,-2611,-2621,-2631, -2800,-2520,-2980,-3090 -4030,-4031,-4032,-4060,4061, -4530,-4531,-4532,-7110,-7480, -7580,-7581,-7720 228000-2640,-4640,-4641,-4890,-4891, -8350,-8490,-9580 428000-0950,-1570 12 Volt
	4-JAS 39		028531-5050,-6660 028099-5450	6,5 x 8 x 10	
		Daihatsu	28142-87504-000		
		Honda	31211-PH9-004		
		Isuzu	8-94455-168-0 8-94455-167-0		
		Mitsubishi	MD604643		
		Subaru	209705-5108		
		Suzuki	31131-51A10		
		Toyota	28142-10029		
		Alternative Brush Set		JASX 39 C with clip	

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 39 C P/N 0 1939 1	Denso			12 Volt
	4-JAS 39 C	Mazda	028531-5050 with Clip 028099-5450	6,5 x 8 x 10	
			Alternative Brush Set	JASX 39 w/o. clip	
	JASX 52 P/N 0 1962 1	Denso			128000-2680,-2682,-5210,-5211,-5680, -5681,-5682,-6210,-6211,-6212 281001 6010,-6040,-6041,-6070, -6071,-6073 281008721300 12 Volt
	4-JAS 52	Daihatsu Isuzu Mazda Suzuki Toyota	028099-6180 28142-87204-000 8-94377-262-0 8-94367-795-0 028099-6180 31131-60B50 28142-70020	6,5 x 13 x 14	
	JASX 53 P/N 0 1963 1	Denso			028000-8460,-9181,-9182,-9202, -9220,-9221,-9230 31100-79660,-85010,-85020,-85021 12 Volt
	2-JAS53	Daihatsu Honda Isuzu Subaru Suzuki	BH 028510-0760 28140-87703-000 31231-679-014 5-81119-004-0 8-94135-730-0 49243-6002 31131-79010 31173-79010	7,5 x 13 x 18	
	JASX 62 P/N 0 1965 1	Denso			028000-2000,-2151,-2240,-2260,-2261, -2262,-2263,-2360,-2361 12 Volt
	4-JAS 62	Daihatsu Honda Mazda Toyota	28531-0350 28142-25020 31211-679-004 1345-24-753 28142-25020	7 x 12 x 19	
	JASX 63 P/N 0 1966 1	Denso			028000-2660,-2661,-2665,-2680,-2681, -2682,-4500,-5410,-6422 12 Volt
	4-JAS 63	Daihatsu Honda Toyota	28531-0380 28531-0480/0490 28142-25011/87502 31211-657-006/31231-679-004 28142-25011	7 x 12 x 16	
	JASX 77-78 P/N 0 1977 1	Denso			028000-3920,-4570,-7370,-7660 128000-0020,-6400 12 Volt
	2-JAS 77 2-JAS 78	Daihatsu Isuzu Komatsu Mazda Toyota	028099-3550 028531-0840 flex w/o. insulation 28140-54070-000 28140-64040-000 28140-87706-000 5-81116-040-0 5-81118-021-0 8-94167-430-0 028510-0640 RE01-24-750 28140-54070 28140-64040	8 x 25 x 15 8 x 25 x 15	

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 79 P/N 0 1997 1	Denso	Nikko Denki		228000-2120,-3840,-3981, -4961,-5860,-7220, -7710,-7800,-8150, 428000-0250,-0260,-0500 -1280,-2730
	4-JAS 79	Isuzu	0-23740-0200, 0210 8-94178-053-0, 054-0 8-94437-920-0, 921-0	7 x 25 x 15,5 7 x 25 x 15,5	12 Volt
	JASX 84 P/N 0 1984 1	Denso			028000-3641,-3642,-4000,-4020,-4200, -4243,-4250,-4323,-4340,-4450, -4510,-4730,-4940,-5060,-5120, -5190,-5390,-5730,-5800,-5820, -5991,-6040,-6120,-6190,-6240, -6250,-6280,-6350,-6440,-7380, -7410,-8180,-8380,-8451,-8570, -8620,-8980,-9380,-9510,-9800, -9820
	4-JAS 84	Daihatsu	028531-0450,-0946 028099-0770,-2620,-2628, -2670,-2770,-3950 BH 028510-0441,0580,0590,0830, 028510-5320,5350,5410,5420 28140-34030 28140-87701-000 28140-87704-000 28140-87710-000 31208-657-0040 31208-657-300 31208-PH7-661 31208-PR4-0030 02851-00441,-00590 21170-53608 23378-AA040,-AA050 49243-7212,-7302,-7502 28140-34030,-64130,-65020, 28140-74010,-74020,-74070, 28140-76070 28142-34030	7 x 16 x 14 flex length 33mm	128000-0050,-0100,-0111-0141,-0150, -0170,-0171 228000-0440,-0990, 428000-0570 12 Volt
	JASX 85 P/N 0 1985 1	Denso			028000-5330-5335 -6380-6382
	4-JAS 85	Daihatsu	28531-0680,-3510 028099-3510 28140-15010 28140-87201-000 28140-87502-000 28140-87702-000	6,5 x 10 x 16	12 Volt
		Honda	31231-PA0-0060		
		Isuzu	8-94239-109-0 8-94239-110-0		
		Mazda	1345-24-750 1345-24-750A 8682-24-750		
		Mitsubishi	MD604916		
		Subaru	23378-KA000 49206-7002 49243-7002		
		Suzuki	31131-82010 31173-78310,-78311		
		Toyota	28140-15010		
	JASX 86-87 P/N 0 1986 1	Denso			128000-8320 228000-2570 12 Volt
	2-JAS 86 2-JAS 87	Daihatsu	flex only insulated flex BH 028510-0750 28140-15090 31208-PC2-661 28140-15090	7 x 16 x 16 7 x 16 x 16	

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
 	JASX 88 P/N 0 1988 1	Denso			028000-4800,-5000,-5300,-5301,-5510,-5511,-5520,-5530,-5531,-5550
	4-JAS 88		028531-0632,-5650,-5651 028099-3560,-3570	8 x 25 x 21	-5551,-5581,-5620,-5690,-5860,-5880,-6060,-6200,-6290,-6870,-6880,-6890,-6891,-6892,-6910,-7810,-8070,-8071,-8400,-9331 128000-1570,-1790,-3080,-6170,-6810 428000-0290,-1860,-2580,-2631,-3110 -2631,-3110 12 Volt
 	JASX 89 P/N 0 1991 1	Denso			028000-4540,-5900,-5910,-5911-5912, 028000-6000,-6001,-6030,-6300 12 Volt
	4-JAS 89		028099-3430,3950 028531-0720,0730 BH 028510-0460,0660	7 x 16 x 14 flex length 22mm	
 	JASX 101-102 P/N 0 1933 1	Denso			428000-0670,-0680,-0700 428000-1640,-1750 12 Volt
	1-JAS 101 2-JAS 102	positive pair negative single		4.5 x 14 x 15.0 4.5 x 14 x 15.0	
 	JASX 105-106 P/N 0 1921 1	Denso Toyota	PS 70		228000-9900,-9901,-9902 428000-0150,-0151,-0152 428000-1080,-3090 12 Volt a/c
	1-JAS 105 1-JAS 106	negative pair positive pair		4.5/7.0 x 8.5 x 9.5 4.5/7.0 x 8.5 x 9.5	fits Brush Holder Denso 128099-6310
 	JASX 112-114 P/N 0 1923 1	Denso			428000-5510,-5511 A 000 906 01 26 80 A 006 151 45 01 Mercedes Diesel 12V
	1-JAS 114 2-JAS 112	positive pair negative single		5.3 x 18.9 x 15.6 5.3 x 18.9 x 15.6	

IKA-No. Original References Dimensions mm Unit-Nos.

NEW



JASX 115-116
P/N 0 1348 1







Denso
Toyota
1-JAS 115 positive pair
1-JAS 116 negative pair







28100-28040,-041,-042
28100-28050,-28051,-28052,-28053
28100-28080,-28081,-28082
12 Volt







4.15/7.4 x 8.35 x 16
4.15/7.4 x 8.35 x 16


fits brush holder 128099-6311
128099-6312
IKA P/N 7 7606 1






	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JSX 5 P/N 0 1451 1	Fiat			B76-0,5/12S E76-0,6/12V 632 010 00-5 632 011 00,01 632 201 07,08,37,38 632 202 02,32 632 204 00,02,03,08,09,30,32,33,38,39 632 205 35-38 12 Volt Iskra AZD 3502,3503,3508,3511 11 130 134,-143,-266,-314 0.6 kw 12 Volt
	2-JS 5	Fiat Iskra	748 681 71 16 905 225 Replacement for IKSX 4 IKA P/N 0 1533 1	6 x 16 x 17	
	JSX 9 P/N 0 1454 1	Fiat			E115-3/24 632 238 00,02,07,30,32 24 Volt
	4-JS 9		747 026 10 853160	6,5 x 14 x 20	
	JSX 13 (4) P/N 0 1457 1	Fiat			E100-1,3/12, 1,5/12 632 060 02,03 632 223 01,04,31 632 224 00,05,08,09,30,35,37-39 632 225 01,02,31,32,35,36 632 227 30,31,33,35,36 12 Volt
	4-JS 13		748 747 41	7 x 16 x 20	
	JSX 14 P/N 0 1455 1	Fiat			E115-1,8/12 12 Volt
	4-JS 14		4005010	6,5 x 14 x 20	
	JSX 16 P/N 0 1459 1	Fiat			E84-08/12V, Var, 1,2,3,6,8 632 207 00-03,05,06,20,21,23,24,30-33,35, 632 207 40,41,43,44,46 632 208 00-04,06,08,30,32,33,34,36 632 209 31,32,40 12 Volt
	2-JS 16		748 617 81	8 x 17 x 19	
	JSX 19 P/N 0 1462 1	Fiat			M125-3/12 632 24 600,02,91 12 Volt
	4-JS 19		748 460 01	10 x 22 x 28	



IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JSX 21-22 P/N 0 1464 1 Fiat			E95-0,9-12 E95-1,0-12 632 213 30,32-35,38 632 214 30,31 632 215 31,32,34,35,38 632 216 33,37 12 Volt
	1-JS 21 2-JS 22	positive pair negative single 748 809 41,512 706 52 748 811 21,512 706 51	6 x 13 x 17,5 6 x 13 x 17,5	
Brush Holder: (748 811 51 + 748 809 21)				
	JSX 23-24-28 P/N 0 1466 1 Fiat			E100-1,6/12 632 232 35-39 632 233 30-32 12 Volt
	2-JS 23 1-JS 24 1-JS 28	748 879 01 748 879 11 748 912 60	7 x 15,5 x 20 7 x 15,5 x 20 7 x 15,5 x 20	
Brush Holder: 748 879 51 (85540391 + 74888901)				
	JSX 25-22 P/N 0 1467 1 Fiat			E95-1,1-12 632 214 30 632 215 32,38 12 Volt
	1-JS 25 3-JS 22	748 884 01,512 706 53 748 811 21,512 706 51	6 x 13 x 17,5 6 x 13 x 17,5	
Brush Holder: (748 811 51 + 748 883 61 748 811 51 + 855 303 00)				
	JSX 26-27 P/N 0 1468 1 Fiat			E95-1,1-12 632 214 33-36,38 632 215 30,33,36,39 632 216 30,32,35,36,39 632 217 31 12 Volt
	3-JS 26 1-JS 27	748 910 71,512 706 61, 512 707 99 748 910 80,512 706 60, 512 707 98	6 x 13 x 17,5 6 x 13 x 17,5	
Brush Holder: (748 911 01 + 748 909 61)				
	JSX 29-30 P/N 0 1469 1 Fiat			E95-0,8-12 E95C-0,8-12 631 010 03 632 218 30,32,34,90,92 12 Volt
	1-JS 29 1-JS 30	74893801,51270805 74893811,51270803	6 x 13 x 17,5 6 x 13 x 17,5	
Brush Holder: 748 938 51 (855 403 51 + 748 936 31)				
	JSX 31-32 P/N 0 1470 1 Fiat			E95R-2,2-12 632 218 31 632 220 30,31,34-36,38,39 632 221 30,31,33-36,38 632 222 04,06 12 Volt
	2-JS 31 1-JS 32	negative single positive pair 7489438.1,51270764,74899061 7489439.1,51270765,74899071	8 x 19 x 18 8 x 19 x 18	
Brush Holder: (855 403 41 + 748 941 21) (855 403 41 + 832 228 01)				







	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JSX 33-34 P/N 0 1471 1	Fiat	832 272 58 insul. no 832 272 57 insul. 35	6 x 15 x 16,7 flex 28 6 x 15 x 16,7 flex 28	E70R-1,4-12 M70R-1,4-12/-1,8-12 631 110 00,05,08 632 234 30-33,35,36 632 235 30-33 632 236 39 632 934 35 12 Volt
	2-JS 33 (-) 2-JS 34 (+)		Brush Holder: (832 204 61 + 832 201 31) (542 944 44 + 832 265 57)		
	JSX 35-36 P/N 0 1472 1	Fiat	832 211 91 932 212 01	7 x 13 x 17,5 7 x 13 x 17,5	E80-0,8-12 E80-1,0-12 632 228 31-33,36-38 632 230 31-34 12 Volt
	2-JS 35 2-JS 36		Brush Holder: (832 212 41 + 832 216 51)		
	JSX 35-37 P/N 0 1473 1	Fiat	negative single 832 211 91 positive pair 832 216 81	7 x 13 x 17,5 7 x 13 x 17,5	E80E-1,0-12 631 230 31-34 12 Volt
	2-JS 35 1-JS 37		Brush Holder: (832 212 41 + 832 209 91) (832 212 41 + 832 239 91)		
	JSX 38-39-40 (3) P/N 0 1474 1	Fiat	832 244 81 insul. no 832 274 91 insul. 52 832 274 90 insul. 38	7 x 13 x 17,5 flex 26 7 x 13 x 17,5 flex 42 7 x 13 x 17,5 flex 26	E80E-0,9-12 631 020 03,04,07,08 632 229 00,01 632 230 85 632 231 01,03,08 632 931 03 12 Volt
	1-JS 38 (-) 1-JS 39 (+) 1-JS 40 (+)		Brush Holder: (832 244 61 + 832 251 17)		
	JSX 38-40-58 (4) P/N 0 1482 1	Fiat	832 244 81 insul. no 832 274 90 insul. 38 832 269 21 insul. 100	7 x 13 x 17,5 flex 26 7 x 13 x 17,5 flex 26 7 x 13 x 17,5 flex 80	E80E-1,0-12 631 030 02,03,07,08 12 Volt
	2-JS 38 (-) 1-JS 40 (+) 1-JS 58 (+)		Brush Holder: (832 253 59 + 832 257 10)		
	JSX 38-41 (2) P/N 0 1475 1	Fiat	832 244 81 insul. no 832 252 66 insul. 18	7 x 13 x 17,5 flex 26 7 x 13 x 17,5 flex 26	E80E-0,8-12 631 010 00,02 632 010 08 632 228 89,97 632 229 05,08,09,36 632 231 04,09 632 232 00 632 233 03 632 931 04 12 Volt
	1-JS 38 (-) 1-JS 41 (+)		Brush Holder: (832 244 61 + 832 251 46) (832 253 26 + 832 263 48) (832 253 26 + 832 264 91)		

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JSX 38-42 (2) P/N 0 1476 1	Fiat			E80E Seat 12 Volt
	1-JS 38 (-) 1-JS 42 (+)		832 244 81 insul. no 832 246 21 insul. 25	7 x 13 x 17,5 flex 26 7 x 13 x 17,5 flex 30	
	JSX 40-46-47 (4) P/N 0 1477 1	Fiat			E80E 12 Volt
	1-JS 40 (+) 1-JS 46 (+) 2-JS 47 (-)		832 274 90 insul. 38 832 261 48 insul. 57 832 261 89 insul. no	7 x 13 x 17,5 flex 26 7 x 13 x 17,5 flex 65 7 x 13 x 17,5 flex 26	
	JSX 43-45-44 (4) P/N 0 1478 1	Fiat			E80E 12 Volt
	2-JS 43 (-) 1-JS 45 (+) 1-JS 44 (+)		832 258 22 insul. no 832 258 23 insul. 50 832 258 24 insul. 18	7 x 13 x 19,5 flex 26 7 x 13 x 19,5 flex 62 7 x 13 x 19,5 flex 26	
	JSX 43-45-57 (3) P/N 0 1483 1	Fiat			632 230 39 632 233 04 632 930 39 E80E-0,9-12 12 Volt
	1-JS 43 (-) 1-JS 45 (+) 1-JS 57 (+)		832 258 22 insul. no 832 258 23 insul. 50 832 274 95 insul. 38	7 x 13 x 19,5 flex 26 7 x 13 x 19,5 flex 62 7 x 13 x 19,5 flex 26	
			Brush Holder: (832 258 86 + 832 258 83) (832 258 86 + 832 262 40)		
	JSX 48-49-50 (3) P/N 0 1479 1	Fiat			E80E 12 Volt
	1-JS 48 (+) 1-JS 49 (+) 1-JS 50 (-)		832 262 17 insul. 18 832 262 18 insul. 34 832 264 28 insul. no	7 x 13 x 19,5 flex 26 7 x 13 x 19,5 flex 42 7 x 13 x 19,5 flex 26	
	JSX 50-55-56 (3) P/N 0 1484 1	Fiat			631 020 00 632 920 00 E80E-0,9-12 12 Volt
	1-JS 50 (-) 1-JS 55 (+) 1-JS 56 (+)		832 264 28 insul. no 832 274 94 insul. 38 832 274 93 insul. 52	7 x 13 x 19,5 flex 26 7 x 13 x 19,5 flex 26 7 x 13 x 19,5 flex 42	
			Brush Holder: (832 262 16 + 832 259 35)		

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JSX 51-52 (2) P/N 0 1480 1	Fiat			E80F-0,8-12 12 Volt
	1-JS 51 (+)		832 273 62 insul. 18	7 x 8 x 19,5 flex 26	
	1-JS 52 (-)		832 273 64 insul. no	7 x 8 x 19,5 flex 26	
	JSX 51-52-59 (3) P/N 0 1485 1	Fiat			E80F-0,9-12 12 Volt
	1-JS 51 (+)		832 273 62 insul. 18	7 x 8 x 19,5 flex 26	
	1-JS 52 (-)		832 273 64 insul. no	7 x 8 x 19,5 flex 26	
	1-JS 59 (+)		832 274 70 insul. 26	7 x 8 x 19,5 flex 34	
	JSX 51-52-63 (4) P/N 0 1486 1	Fiat			E80F-1,0-12 12 Volt
	1-JS 51 (+)		832 273 62 insul. 18	7 x 8 x 19,5 flex 26	
	2-JS 52 (-)		832 273 64 insul. no	7 x 8 x 19,5 flex 26	
	1-JS 63 (+)		832 276 57 insul. 100	7 x 8 x 19,5 flex 80	
	JSX 53-54 P/N 0 1481 1	Fiat			E95RL-2,2/2,6-12 631 140 08,10,14 12 Volt Ducato
	2-JS 53	negative single	832 269 19	8 x 19 x 20	
	1-JS 54	positive pair	832 269 20	8 x 19 x 20	
			Brush Holder: (748 944 41 + 832 257 10) (832 263 36 + 832 267 10)		
	JSX 61-62-63 (4) P/N 0 1487 1	Fiat			D80F-1,0-12 12 Volt Denso-Fiat
	2-JS 61 (-)		832 275 84 insul. no	7 x 8 x 19,5 flex 26	
	1-JS 62 (+)		832 275 83 insul. 18	7 x 8 x 19,5 flex 26	
	1-JS 63 (+)		832 276 57 insul. 100	7 x 8 x 19,5 flex 80	

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JSX 70-71 P/N 0 1490 1 Fiat-Denso			P95 2.3/2.6 kw 12 Volt
	1-JS 70	positive pair 028531-6870	7.8 x 19 x 20	
	2-JS 71	negative single 028531-6880	7.8 x 19 x 20	
	JSX 72-73 P/N 0 1491 1 Fiat-Denso			P76 2.0 kw 12 Volt
	2-JS 72	028531-7340	7 x 20 x 16	
	2-JS 73	028531-7331	7 x 20 x 16	
	JSX 73 (4) P/N 0 1493 1 Fiat-Denso			P76 12 Volt
	4-JS 73	028531-7331	7 x 20 x 16	
	JSX 74-75-76-77 P/N 0 1492 1 Fiat-Denso			PA70 1.4 kW 12 Volt BMW, PSA, Toyota
	1-JS 74	28531-6420	4.5 x 14 x 14.3/15.3	
	1-JS 75	28531-6390	4.5 x 14 x 14.3/15.3	
	1-JS 76	28531-6400	4.5 x 14 x 14.3/15.3	
	1-JS 77	28531-6410	4.5 x 14 x 14.3/15.3	
	JSX 78-79 P/N 0 1452 1 Fiat-Denso			028988-030 PA 78 12 V
	2-JS 78	028531-8801	7 x 20 x 16	
	2-JS 79	028531-8791	7 x 20 x 16	

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
NEW 	JSX 80-81-82-83				
	P/N 0 1463 1 Fiat-Denso				
	1-JS 80		028531-9400	5.4 x 18.5 x 10.4/11.9	PA70 LL
	1-JS 81		028531-9410	5.4 x 18.5 x 10.4/11.9	12 Volt
	1-JS 82		028531-9380	5.4 x 18.5 x 10.4/11.9	
	1-JS 83		028531-9390	5.4 x 18.5 x 10.4/11.9	
			double layer brushes with 2% silver content		
NEW 	JSX 84-85-86-87				
	P/N 0 1465 1 Fiat-Denso				
	1-JS 84		028531-9450	5.4 x 13.5 x 10.4/11.9	PA70 LS
	1-JS 85		028531-9440	5.4 x 13.5 x 10.4/11.9	12 Volt
	1-JS 86		028531-9430	5.4 x 13.5 x 10.4/11.9	
	1-JS 87		028531-9420	5.4 x 13.5 x 10.4/11.9	
			double layer brushes with 2% silver content		

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	FX 70-71 P/N 0 1527 1	Ford-Visteon		E90F-11000-AA,BA E9SF-11000-AA,BA F02F-11000-AA F07U-11000-AA,BA F0CF-11000-AA,BA F0OU-11000-AA F13U-11000-AA F17U-11000-AB F1VU-11000-AA PMGR-Starter USA 12 Volt
	1-F 70 1-F 71	negative pair positive pair	F0OU-11056-AA F0OU-11055-AA Brush Holder E90Z-11061-A,B,C	4,5 x 16 x 14 4,5 x 16 x 14
	FX 70-72 P/N 0 1528 1	Ford-Visteon		93BB-11000-HB,JB,JC,KA,KB,KC PMGR-Starter Europe 12 Volt
	1-F 70 1-F 72	negative pair positive pair	F0OU-11056-AA F3RU-11055-AA Brush Holder F3RZ-11061-A	4,5 x 16 x 14 4,5 x 16 x 14
	FX 73 P/N 0 1529 1	Ford-Visteon		96BB-11000-AA,AB USA 12 Volt
4-F 73			6 x 13 x 14	
	FX 74 P/N 0 1530 1	Ford-Visteon		97BB-11000-BB,BC 97VB-11000-AA,AB 98AB-11000-AC 98VB-11000-BA,B1A,B3A Escort, Fiesta, Focus, Mondeo 1.8D 1,9 KW-Starter 12 Volt
	4-F 74		F7RU-11056-AB Brush Holder: F7RU-11434-BA	8,2 x 18,9 x 17,7
	FX 74-78 P/N 0 1522 1	Ford-Visteon		97BB-11000-BB 97BB-11000-BC 98AB-11000-AC 98VB-11000-B1A 98VB-11000-B3A 98VB-11000-BA 12 Volt
	2-F 74 1-F 78	negative single positive pair	F7RU-11056-AB F7RU-11055-CA same application as FX 74 but positive brush-pair with bus bar Brush Holder: F7RU-11434-BA	8,2 x 18,9 x 17,7 8,2 x 18,9 x 17,7
	FX 75 P/N 0 1524 1	Ford-Visteon		97VB-11000 Ford Transit 2,2 KW-Starter Ungarn 12 Volt
4-F 75		F7RU-11056-CA TR3	8,2 x 18,9 x 18	

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
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FX 76-77

P/N 0 1523 1

Ford-Visteon

2-F 76 (+)

2-F 77 (-)

1C3U-11056-BA

1C3U-11056-AA

Brush Holder:

1C3U-11434-AA

8,2 x 18,9 x 18,2

8,2 x 18,9 x 18,2






1C3U-11000-AA,-AB,-AE






3,6 KW-Starter





Visteon / ISKRA



12 Volt







	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 15-6 (4) P/N 0 1942 1				S114-150,-151 S114-156,-A S114-91 12 Volt
	2-JAS 15 2-JAS 6	Hitachi	2108-2305/-4305/-6305 2108-2306/-4306/-6306	6 x 16 x 14 6 x 16 x 14	
	JASX 26-27 P/N 0 1978 1				S28-23B, S28-25 24 Volt
	2-JAS 26 2-JAS 27	Hitachi	2280-1313 2280-1312	10 x 25 x 22,5 10 x 25 x 22,5	
		Daihatsu	2108-2305 2108-2306		
		Isuzu	9-8211-16310 9-8211-16320		
		Nissan	23379-09900 23380-10600		
	JASX 31 P/N 0 1952 1				24 Volt
	4-JAS 31	Hitachi	2250-1322	9 x 20 x 26	
		Isuzu	9-8211-1603-0 9-8211-5114-0 1-2174-0030-0		
		Nissan	23331-90001 23331-90004 23379-61502		
	JASX 32-33 P/N 0 1951 1				12 Volt
	1-JAS 32 1-JAS 33	Hitachi	2114-2313 2114-6312	7 x 16 x 16,5 7 x 16 x 16,5	
		Isuzu	9-8211-16440 9-8211-16450		
		Nissan	23379-19900 23380-19900		
	JASX 34-30 P/N 0 1934 1				12 Volt
	2-JAS 34 2-JAS 30	Hitachi	2130-6312 2130-9311	8 x 19 x 18 8 x 19 x 18	
		Isuzu	8-94028-460-0 8-94028-464-0 8-94228-464-0		
		Nissan	23379-V0700 23380-V0700		
	JASX 36-37 P/N 0 1937 1				S12-38A S13-33,-33A,-33B,-34A S13-37,-37B,-38B S13-41,-41A,-41B M2T20671 12 Volt
	2-JAS 36 2-JAS 37	Hitachi	2130-5312 2130-8311 2250-5322 2250-5323	8 x 25 x 18 8 x 25 x 18	
		Isuzu	1-81116-023-0 1-81116-024-0 5-81116-024-0 5-81116-025-0 8-97030-389-0		
		Nissan	23379-J5500 23380-J5500 23331-Z9002 23331-Z9003 28331-Z9000 28331-Z9001		

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 49-61 P/N 0 1948 1		Hitachi		S114-750,-752,-753,-754A,-758, S114-762,-765,-766,-767,-769, S114-775,-780,-870 12 Volt
	1-JAS 49	positive pair	2114-53125,-63125,-83125	4,5 x 14 x 17	
	2-JAS 61	negative single	2114-43125	4,5 x 14 x 17	
		Brush Holder	2114-43105 / 23378-1E401 2114-53105 / 23378-50Y04 2114-63104 / 23378-1E400		
	Nissan	23380-1E400 23379-1P100			
	JASX 50-51 P/N 0 1961 1		Hitachi		S114-364,-398,-418,-419,-424, S114-435,-435A S114-501,-501A,-505,-505A S114-516,-516A,-517,-517C,-518,-519A S114-523,-525A,-526,-528,-528A 12 Volt
	1-JAS 50	positive pair w/o. insulation	2114-23124,-63121,-63123 2114-73122,-83122,-83124 2114-93122	7 x 11 x 16	
	2-JAS 51	negative single	2114-59003,-83121,-93121	7 x 11 x 16	
		Mazda Nissan Subaru	B101-18X-72/-18X-66 23379-M8001/23380-12G01 23379-M8001/23380-42L60 23379-M8001/23380-57M60 23379-M8001/23380-77A01 23379-M8001/23380-M8001 49206-6401/-6501 49207-6401		VW Golf,Passat,Santana 1.6
		brush set with insulated terminal IKA P/N 0 1319 1	P/N 0 1319 1		
NEW 	JASX 50-51 P/N 0 1319 1		insulated Hitachi terminal		S114-516,-A S114-528,-A
	1-JAS 50	positive pair	2114-83122 insulated terminal	7 x 11 x 16	
	2-JAS 51	negative single	2114-83121	7 x 11 x 16	
			brush set w/o. insulated terminal IKA P/N 0 1961 1		
	JASX 54-55 P/N 0 1964 1		Hitachi		S114-800,-801,-804,-805 808,-816,-850 12 Volt
	1-JAS 54	positive pair	2114-63126	4,5 x 14 x 15	
	2-JAS 55	negative single	2114-53126	4,5 x 14 x 15	
		Brush Holder	2114-23106 2114-73105		Opel Astra D Opel Corsa D
	Nissan	23380-OM300 23379-OM300			
	Opel	JHTSX 300-301			
	JASX 56-3 P/N 0 1959 1		Hitachi		S12-23,-24A,-32,-34,-47 12 Volt
	2-JAS 56		2120-1311,1312	8 x 14,5 x 22	
	2-JAS 3		2120-4311,5312 2120-7311	8 x 14,5 x 22	
		Isuzu	9-8211-16510 9-8211-16520 9-8211-16460 9-8211-16470		
	Nissan	23379-37500 23379-37502 23379-37503 23379-65000 23380-37500 23380-37502 23380-37503 23380-65000			

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 56-3/0 P/N 0 1958 1	Hitachi			12 Volt
	2-JAS 56/0 2-JAS 3/0		2120-7312 2120-9311	8 x 14,5 x 22 8 x 14,5 x 22	
		Nissan	23379-G7000 23380-G7000		
	JASX 57-58 P/N 0 1960 1	Hitachi		12 Volt	S108-77,-78 S114-103,-108L,-121N,-122N, 126M,-132,-136,-139,-146
	2-JAS 57 2-JAS 58		2114-4313 2114-8312	7 x 11 x 18 7 x 11 x 18	
		Daihatsu Honda	2114-4313/8312 31246-568-005 31217-568-005		
		Isuzu Nissan	9-8211-1657-0/1658-0 23379-16E01/-21000 23380-16E01/-21000		
		Subaru	9402-1408/1409		
	JASX 59-60 P/N 0 1950 1	Hitachi			S114-435F,-435G,-456,-556,-556A, 557A,-558,-568,-568A,-570B, 653A,-653B
	1-JAS 59 2-JAS 60	positive pair negative single	2114-73123,-73125,-73126 2114-83123,-83126	4,5 x 11 x 16 4,5 x 11 x 16	23300-53J00 23300-KA270 12 Volt
		Nissan	23380-53J00 23379-53J00		
		Subaru	23387-KA000 23388-KA000		
	JASX 65-67 P/N 0 1968 1	Hitachi			12 Volt
	2-JAS 65 1-JAS 67		2114-59003/-93121 2114-6313/-8313	7 x 11 x 16 7 x 11 x 16	
		Honda Isuzu	31215-PD4-0050 5-81116-056-0 5-81119-034-0 8-94208-294-0		
		Nissan	23379-M0101/M0102 23380-M0101		
		Subaru	49206-1001 49207-1001		
	JASX 66-67 P/N 0 1969 1	Hitachi		12 Volt	S108-34B,-61,-61A-G, 63,-66,-116
	2-JAS 66 2-JAS 67		2114-3315/-5312 2114-6313/-8313	7 x 11 x 16 7 x 11 x 16	
		Honda	31215-634-0050/31216-634-0050 31215-679-0050/31216-679-0050		
		Isuzu	8-94208-294-0/8-94208-300-0 5-81116-008-0/5-81116-009-0		
		Nissan	23379-80W00 23379-M0100 23380-56A00 23380-M0100		
		Subaru	21070-53908/-54008 24370-54008 49206-5501 49207-5501		


	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 74 P/N 0 1975 1	Hitachi			S13-100,-104,-106A-C, 106E,-107,-107A, 109,-109B,-111 12 Volt
	4-JAS 74		2130-23112	7 x 19 x 15,8	
		Isuzu Nissan	8-94136-900-0 23380-10G00 23379-10G00		
	JASX 74-75 P/N 0 1974 1	Hitachi			S13-62,-62B 101,-102,-105,-105A, 129,-136,-160,-329,-529 12 Volt
	2-JAS 74 2-JAS 75		2130-13111 2130-7312 2240-1311/1312	7 x 19 x 15,8 7 x 19 x 15,8	
		Daihatsu Isuzu Mazda Nissan Volvo	23379-W2500/23380-W2500 2331-T9000/T9001 8-94136-900-0 8-94152-930-0/-970-0/-973-0 8-94242-061-0/8-94242-065-0 8-94478-862-0 894152970/-973 23379-54A00 23380-54T00 23380-W2500 740 D, 760 D		
	JASX 80-81 P/N 0 1982 1	Hitachi			S114-233A,-252F,-253B, 254D,-255A,-256B, 257,-257G,-257H,-258C 12 Volt
	2-JAS 80 2-JAS 81		2114-59002 2114-69002	7 x 14 x 16 7 x 14 x 16	
		Isuzu Nissan	8-94208-440-0 8-94208-444-0 8-94228-440-0 8-94228-444-0 23379-M4900 23380-M4900		
	JASX 92-93 P/N 0 1992 1	Hitachi			S13-06,-06A,-10,-14,-18, S13-28,-29,-32,-32A,-55 12 Volt
	2-JAS 92 2-JAS 93		2130-1312/2312 2130-3311/4311 2130-4312/7311	9 x 19,5 x 22 9 x 19,5 x 22	
		Isuzu Nissan	5-81116-015-0 5-81116-016-0 5-81116-048-0 5-81116-049-0 8-94137-714-0 8-94137-716-0 9-8211-1551-0 9-8211-4151-0 9-8211-4152-0 23379-J2000 23380-J2000 23379-61501,-61503 23380-61501,-61503		







IKA-No.	Original	References	Dimensions mm	Unit-Nos.
 	JASX 94-95 P/N 0 1993 1			
		Hitachi		S13-15,-61 S24-64B,-64E
	2-JAS 94		2250-2323	9 x 19,5 x 19,5
	2-JAS 95		2250-1324,-4322	9 x 19,5 x 19,5
		Isuzu	1-81116-017-0/-018-0 5-81116-017-0/-018-0 5-81119-001-0 5-81119-015-0 5-81119-016-0 9-82111-551-0	S25-100A,-103,-106A,-117D, 120,-120A,-121A,-128 24 Volt
		Nissan	23331-Z9000 23331-Z9001	
		Hino	28142-1020A 28142-1010A	




	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	LASX 15-16 P/N 0 1608 1	Lucas	271735 (TAB 125)		M45G,M113 26147,48,51,53,54,63,66,78,89,92,93,96,98 26200,1,8,15,19,20,33,36,38,48,55,56,59,64, 66-71,75,78-81,83,85-88 26300-2,6,10,20,21,46-48,64,70-73,75,81, 83,85,90,91,94,96 26400,12,13,22 27403,5,6,9-14,16-28,31-33,35,36,38-40,43, 46,47,49,52,57-59,63,65,68-70 12 Volt
	2-LAS 15 2-LAS 16		271491,54258277 271493,54258282	7,9 x 19,05 x 22,2 7,9 x 19,05 x 22,2	
	LASX 15-27 P/N 0 1609 1	Lucas	271735(-1) (TAB 120)		M45G(-1) 12 Volt
	2-LAS 15 2-LAS 27		271491,54258277 271492,54258276	7,9 x 19,05 x 22,2 7,9 x 19,05 x 22,2	
	LASX 30-31-32 P/N 0 1613 1	Lucas	54256907 (TAB 106) 60600626,60600688 54258277		25585,25586,26209 12 Volt
	1-LAS 30		54258280-7238	7,9 x 19,05 x 22,2 flex length 90mm	
	1-LAS 31 2-LAS 32		54257236	7,9 x 19,05 x 22,2 flex length 65mm 7,9 x 19,05 x 22,2 flex w/o. insulation	
	LASX 31 P/N 0 1614 1	Lucas	54258592 (TAB 119)		M50 26211,91 26338,39,95 12Volt
	4-LAS 31		54257238, 54258280	7,9 x 19,05 x 22,2 flex length 65 mm	
	LASX 36 P/N 0 1615 1	Lucas	54259517, 60600849 (TAB 118)		M50,M127 26227,34,46,65,73,74,82,84,90,94,95,97,98 26304,5,12,16,17,23,29,36,37,41-45,49,51, 52,55,57-61,63,65,66,69,74,76,78,79,84, 86,88,89,93,98 26402-4,7-11,14,16,20,21,23,27-31,33-37 27304 27500-9,11-16,18-28,31-34,36-41,43,45-47, 50-54,56-59,63-65 12 Volt CAV CA4512, CA45C12, CA45D12 CA45F12, CA45LC12
	4-LAS 36	Lucas CAV	54248210 6211-410 5933-530 Replacement for ASX 19 IKA P/N 0 1228 1	9 x 20 x 26	
	LASX 40-41 P/N 0 1617 1	Lucas	54244848,60600056 (TAB 117)		M35J,K 25137,45-50,56,57,59,65-68,78,80,82-87,90,91 25204-7,9,10,13-16,19,23,34,38,39,41,42,46,49,50, 53,55,59,62,64-66,68-74,76-84,87-92,94,98,99 25311,27,29,30,42,43,45-48,68,73 25400 60925019,2 12 Volt
	1-LAS 40 1-LAS 41		54265217,54266892 54265216	9/3,5 x 11,6 x 15,9 9/3,5 x 11,6 x 15,9	







	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	LASX 42 P/N 0 1618 1	Lucas	54244979		M50, M127 12 Volt
	4-LAS 42		54258779,54262842	9 x 20 x 26	
	LASX 43-44 P/N 0 1628 1	Lucas	54246258 (TAB 124)		M100 25642-44,47-49,51,54,62,74,75,84-87,89,91,92,95,98 25703-7,9-12,16-22,28-32,34,35,39,42,43,49-51,54-56 27466 12 Volt
	1-LAS 43 1-LAS 44		with terminal 54243725	10,3/4,7 x 13,3x17,5 10,3/4,7 x 13,3x17,5	
			Replacement for LASX 43-47-48 IKA P/N 0 1622 1		
	LASX 43-44/0 P/N 0 1619 1	Lucas	54246258 (TAB 124)		12 Volt
	2-LAS 44		54243725 w/o. terminal	10,3/4,7x13.3x17,5	
			Replacement for	LASX 46-47-48 IKA P/N 0 1612 1	
			Alternative Brush Set	LASX 44-45 with terminal IKA P/N 0 1620 1	
	LASX 43-47-48 P/N 0 1622 1	Lucas	60600220 (TAB 113) 60600298		25699 25724,46,48 M 100 12 Volt
	1-LAS 43 1-LAS 47 1-LAS 48			10,3/4,7 x 13,3 x 17,5 10,3/4,7 x 13,3 x 17,5 10,3/4,7 x 13,3 x 17,5	
			limited stock		
			replaced by LASX 43-44 IKA P/N 0 1628 1		
	LASX 44-45 P/N 0 1620 1	Lucas	60600196 (TAB 116)		25631,59,68,70,77-83,94,97 25700,1,45 M 100 12 Volt
	1-LAS 45 1-LAS 44		54243725	10,3/4,7 x 13,3 x 17,5 10,3/4,7 x 13,3 x 17,5	
			Alternative Brush Set	LASX 43-44/0 w/o. terminal P/N 0 1619 1	
	LASX 46-47-48 P/N 0 1612 1	Lucas	60600205 (TAB 114)		25696 M 100 12 Volt
	1-LAS 46 1-LAS 47 1-LAS 48			10,3/4,7 x 13,3 x 17,5 10,3/4,7 x 13,3 x 17,5 10,3/4,7 x 13,3 x 17,5	
			limited stock		
			replaced by	LASX 43-44/0 P/N 0 1619 1	






IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	LASX 73-41 P/N 0 1621 1	Lucas 60600767 (TAB 103) 9937303 FIAT 54265216	9/3,5 x 11,6 x 15,9 9/3,5 x 11,6 x 15,9	25326,31-33,35-40,44,49-51,54-57,59-62,65,66, 69-72,74-80,82-85,87-89,97,98 25404,05,10,11 M 90 12 Volt
	LASX 81-82 P/N 0 1607 1	Lucas 60600944 (TAB 135) bus bar assembly 54291121/24 brush & clip assy. 54291261	6,8 x 13,8 x 9,4 6,8 x 13,8 x 9,4	M78R anticlock 12 Volt
	LASX 84-85 P/N 0 1611 1	Lucas 60600946 (TAB 134) bus bar assy. 54291050 brush&clip assy. 54290791	6,8 x 13,8 x 9,4 6,8 x 13,8 x 9,4	M78R clock 12 Volt
	LASX 86-79-80 Lucas P/N 0 1623 1	60600953 (TAB 136) bus bar assy. 54291874 brush 54292331 flex 65 mm brush 54291968 flex 99 mm	7,0 x 13,7 x 12 7,0 x 13,7 x 12 7,0 x 13,7 x 12	M79 anticlock 12 Volt
	LASX 87-77-78 Lucas P/N 0 1624 1	60600911 (TAB 131) bus bar assy. 54291894 brush 54291966 flex 50 mm brush 54291967 flex 74 mm	7,0 x 13,7 x 12 mm 7,0 x 13,7 x 12 mm 7,0 x 13,7 x 12 mm	M79 clock 12 Volt





IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JA-SX 16-17 P/N 0 1998 1	Mando Melroe	4,5 x 12 x 15,5 4,5 x 12 x 15,5	MOT84881 MOT85381 36100-38090 M60081 M60082 12 Volt
	1-JAS 16	positive pair		
	2-JAS 17	negative single		

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	MASX 3 P/N 0 1662 1	Marelli	743 713 10, 09010905	9 x 20 x 26	MT31AC,43DC 632 131 27, 632 143 49 24 Volt
	MASX 13-14 P/N 0 1663 1	Marelli	723 632 01, 09927791 723 632 02, 09927792	8 x 25 x 23 8 x 25 x 23	MT67A,AA,AB,AC,B,BA,C,CA,D,DA,DB,F,FA,FB,G,H,L 632 167 01-04,06-08,10,25-27,33,38,40,47,48,63 24 Volt
	MASX 15-16 P/N 0 1664 1	Marelli	723 632 03/05/07, 9929080 723 632 04/06, 9928448	10 x 25 x 23 10 x 25 x 23	MT68AA,AB,B,BA,H,LA,LB,M,MA,MB,P,PA,Q,QA,R 632 168 02,8,11,14,15,16,25,26,27,33, 51,59,73,74,76,98 12 Volt - 3,5 kW
	MASX 17-18 P/N 0 1665 1	Marelli	723 837 01, 09956556, 79019316 723 837 02, 09956552, 79019317	9 x 16 x 23 9 x 16 x 23	MT71A,D,E,FA,H,L,LA,N,R,S,T,U,V,Z 632 171 01,04-08,10,12,16-21,25,38,47,73,82 632 174 01-04 12 Volt
	MASX 19-20 P/N 0 1666 1	Marelli	723 837 03/05 723 837 04/06	9 x 16 x 23 9 x 16 x 23	MT72AB 632 172 25 24 Volt - 3,0 kW
	MASX 21-22 P/N 0 1668 1	Marelli Bosch	(721 650 01 + 721 659 01) 2 007 014 012 721 624 02 721 624 01 Replacement for IKSX 10-11 Replacement for BSX 67	8 x 25 x 23 8 x 25 x 23 P/N 0 1537 1 P/N 0 1119 1	MT 67 AD,CB 632 167 31,41 24 Volt - 4,0 kW 0 001 360 002-005,008,009, 012,013,020 JD4/24Volt






IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	MASX 23-24 P/N 0 1669 1	Marelli Bosch		MT 68 AD,LC,MC,PA,PB,RA,S,T 632 168 17,18,31,52,61,84,96 12 Volt - 3,5 kW
	2-MAS 23 2-MAS 24	(721 647 01 + 721 658 01) 2 007 014 011	10 x 25 x 23 10 x 25 x 23	0 001 359 001,004,006-008,011-014, 016,018,019,021,024-026, 028,030,031,033-035
		721 624 04 721 624 03		IDR 12V28 JD 4/12Volt
		Replacement for IKSX 12 Replacement for BSX 62	P/N 0 1538 1 P/N 0 1118 1	
	MASX 25-26 P/N 0 1670 1	Marelli		MT 71 AB,DB,FB,GB,HB,RB,SB,LA,TA,UA,VA MT 74 AA,BA,DA 632 171 26,48,54,56,58,63,80,86,88,97 632 174 07,08,10,25,33,47 12 Volt - 2,5 kW
	2-MAS 25 2-MAS 26	(721 641 01 + 721 660 01,02) (721 641 01 + 721 684 01)	9 x 16 x 23 9 x 16 x 23	
		721 613 02 721 613 01		
		Replacement for IKSX 5-6	P/N 0 1534 1	
	MASX 27-28 P/N 0 1671 1	Marelli		MT 72 AB 632 172 26 24 Volt - 3,0 kW
	2-MAS 27 2-MAS 28	(721 641 02 + 721 657 01)	9 x 16 x 23 9 x 16 x 23	
		721 613 04 721 613 03		



	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 23 P/N 0 1980 1		Melco		SM302-02 SM302-07 SM302-08 SM302-18 31200-PC6-663 31200-PD2-663 31200-PEO-664 31200-PE1-674 31200-PH3-953 12 Volt
	4-JAS 23		M648D10471	6,0 x 14 x 16	
		Mazda	0135 18 444A,445A		
		Mitsubishi	MD602593,594		
	JASX 29 P/N 0 1949 1		Melco		ME-Y1R ME-Y3R 12 Volt
	4-JAS 29		M648C10171 M648C10671	6,8 x 16,5 x 14	
		Mazda	0603-23-643		
		Mitsubishi	E64457044M		
		Nissan	23380-10611 23380-21010		
	JASX 38 P/N 0 1936 1		Melco		M2T54272 M3T54071,-54072 12 Volt
	4-JAS 38		M648C25271 M648C25273	8 x 20 x 18	
		Mitsubishi	Brush Holder: M649T04372 MD607461		
	JASX 40-41 P/N 0 1953 1		Melco		M0T70281,-70285,-71981,-81181, M0T82081,-84381 M1T60081,-60181,-60185,60281, M1T60381,-60581,-71381,-71881
	1-JAS 40	positive pair	M647C00271,272 M647C00571,573	4,5 x 12 x 17,5	
	2-JAS 41	negative single	M648C31171 MD611216 MD611217	4,5 x 12 x 17,5	
		Mitsubishi	23380-421-70 23379-AA000		
		Nissan	23380-421-70 23379-AA000		
			Brush Holder M649T09371/M649T01271		
	JASX 42-43 P/N 0 1954 1		Melco		M1T30071,-30072,-30171,30172 M1T66081,-66082 M1T71781,-74081,-74087,-74281, M1T74381,-74481,-74491,-74583, M1T74851,-75181,-75781 12 Volt
	1-JAS 42	positive pair	M647C00371 M647C00671 M647C01771	4,5 x 18 x 17,5	
	2-JAS 43	negative single	M648C32971	4,5 x 18 x 17,5	
			Brush Holder: M649T01671/M649X01771		
		Mazda	N327-18-X66		
		Mitsubishi	MD611918		
	JASX 44-28 P/N 0 1941 1		Melco		M0T60081,-60081A,-80081,80281, M0T80281ZC,-80285,-80381,-80581, M0T8080831,-80881 M1T60281,-60285,-60285A 12 Volt
	1-JAS 28	negative pair		4,5 x 12 x 12,5	
	1-JAS 44	positive pair		4,5 x 12 x 12,5	
			Brush Holder: M321X05171 M647X03471,03971,04271, M647X04571,05571,05871, M647X05971,06571		


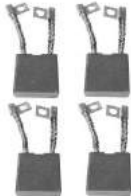

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 45-46 P/N 0 1956 1		Melco		MD066761 M2T40081 12 Volt
	1-JAS 45	positive pair	M647C00171	4,5 x 10 x 17,5	
	2-JAS 46	negative single	M648C16471, M648D20671	4,5 x 10 x 17,5	
			Brush Holder: M649T01571		
		Mitsubishi	MD607897 MD607899		
	JASX 47-48 P/N 0 1957 1		Melco		M5T25373 M5T27672 12 Volt
	2-JAS 47		M648C20371 M648C22371	6,5 x 19 x 19,3	
	2-JAS 48		M648C24471 M648C24472 M648D20671 M648D20771	6,5 x 19 x 19,3	
		Mazda	0839-24-723		
		Mitsubishi	MM502019 MM502135		
		Nissan	23379-37504 23379-99008 23380-37504 23380-37505 29042-L7000 29142-L5000 29142-L7005 29242-L4005		
	JASX 68-73 P/N 0 1976 1		Melco		M0T70681,-70781,-71581,-71681, M0T82081,-82081ZE,-85381 M1T60081,-60281,-70483,-71381, M1T71382,-71382ZC,-72581,-72583, M1T72583G,-73281,-73283,-73285, M1T73383,-77681 12 Volt
	1-JAS 68	positive pair	M647C00871	4,5 x 12 x 16,5	
	2-JAS 73	negative single		4,5 x 12 x 16,5	
			Brush Holder M649T09371		
		Mitsubishi	MD611731 MD618619		
	JASX 69-70(3) P/N 0 1970 1		Melco		M2T10171,-20181A,-20281,-23685 M3T10475,-10476,-10672,-11173, M3T11174,-11272,-12572,-15772 12 Volt
	1-JAS 69		M648C12170,12370	6,8 x 11,8 x 17,2	
	2-JAS 70		M648C13770	6,8 x 11,8 x 17,2	
			Brush Holder: M649T03571		
		Mazda	0222-24-753 0426-24-753		
		Mitsubishi	MD602470/MD607389		
		Nissan	23380-U0110		
	JASX 69-70(4) P/N 0 1971 1		Melco		M1T50171 M2T10171,-10271,-10471,-20181, M2T20181A,-20182,-23181,-23685, M2T24181,-24281,-25481,-25581, M2T25681,-50391,-50571,-50575, M2T51681,-52871,-54091,-58081, M2T58581,-58681,-58781,-58881 12 Volt
	2-JAS 69	flex only	M648C12170	6,8 x 11,8 x 17,2	
	2-JAS 70	insulated flex	M648C13770,M648C13771 M648X28771,M648X30971	6,8 x 11,8 x 17,2	
			Brush Holder: M649T04471 M649X03171,09571		
		Citroen	JMTSX 100		
		Mazda	0222-24-750/0222-24-753 0426-24-753/N202-24-750		
		Mitsubishi	MD602468/MD618447		
		Nissan	23378-N5911 23380-B5010,-E3010		
		Peugeot	JMTSX 100		
		Suzuki	31132-72030 31132-72031		







	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 70 P/N 0 1967 1	Melco			12 Volt
	4-JAS 70	insulated flex	M648C13770 M648C10371B Brush Holder: M649T04171,04973	6,8 x 11,8 x 17,2	
		Mazda	0222-24-753/N202-24-750		
		Mitsubishi	MD602069/MD607949 MM502344		
		Nissan	23378-N5910		
	JASX 71 P/N 0 1973 1	Melco			M4T66074,-66173
	4-JAS 71		M648C25671,M648C26771 Brush Holder: M649T02171,02172	8 x 24 x 17	12 Volt
		Mazda	SE01-24-750 R201-18-X66		
		Mitsubishi	MD611024 ME700299,ME700304 ME700858		
	JASX 71-72 P/N 0 1972 1	Melco			M2T60072,-60171,-60172,-60185, M2T60571,-66072,-92071,-92171, M2T92172,-92271
	2-JAS 71 2-JAS 72		M648C25671,M648C28371 M648C25672,M648C28571 M648X40811,M648X40871 Brush Holder: M649T04971,4972	8 x 24 x 17 8 x 24 x 17	M3T56089,-56183,-66572,-67171, M3T67172 12 Volt
		Mazda	R201-18-X66 R201-24-750 S203-24-750 SE01-24-750		
		Mitsubishi	ME700047/ME700290 ME700939		
	JASX 82-83(3) P/N 0 1981 1	Melco			12 Volt
	1-JAS 82 2-JAS 83		M648C14970 M648C14870,-15070 Brush Holder: M649T01371,4871	7 x 10 x 17 7 x 10 x 17	
		Mando Melroe	36173-11140 36170-2170 Brush-Holder		
		Mazda	E301-24-753 E501-24-753		
		Mitsubishi	MD607554 MD607556		
		Nissan	23380-M8310 23380-M8311		
		Subaru	49206-5804 49207-5804		

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 82-83(4) P/N 0 1983 1	Melco			M2T13081,-13281,-13581,-20181, M2T20181D,-23081,-25772,-30281, M2T30381,-30385,-30481 M3T22681 12 Volt
	2-JAS 82 2-JAS 83		M648C14970,-14971,-16970 M648C14871,-15070,-16971	7 x 10 x 17 7 x 10 x 17	
	JASX 90 P/N 0 1989 1	Melco			12 Volt
	4-JAS 90		Brush Holder: M649T04372	8 x 20 x 17	
	JASX 91 P/N 0 1990 1	Melco			M1T50172 12 Volt Peugeot 205,309 Diesel
	4-JAS 91		Brush Holder: M649T00771	7 x 14 x 16 flex 42 mm	
	JASX 96-97 P/N 0 1995 1	Melco			M2T56071,-60071,-65271,-65272, M2T66873,-67884,-80582 24 Volt
	2-JAS 96 2-JAS 97		M648C26371 Brush Holder M648X28671/M649T05072	6,8 x 18 x 18 6,8 x 18 x 18	
	JASX 98-99 P/N 0 1994 1	Melco			M2T54871,-54881,-56181,-56182, M2T56185,-57271,-57273,-57771, M2T57773,-57871,-57881,-60172 12 Volt
	2-JAS 98 2-JAS 99		M648C15372 M648C15472 Brush Holder: M648X28271/M649T05071	6,8 x 18 x 18 6,8 x 18 x 18	
		Mazda	8599-24-750		
		Mitsubishi	MD618460		
	Nissan	ME700127/ME701188 23378-W3410			

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
 	JASX 100 P/N 0 1999 1	Melco			M0T20871 12 Volt
	4-JAS 100	M648C35871		4,3 x 12 x 12,3	
 	JASX 103-104 P/N 0 1932 1	Melco			M8T61671 M9T60371,60471,60671,60672, M9T61171,61571,61671, M9T80472,80473,83671 5.5 kW 24 Volt
	2-JAS 103			8.0 x 30 x 18.2	
	2-JAS 104			8.0 x 30 x 18.2	
	JA-SX 110-111 P/N 0 1922 1	Melco			M0T85981 M0T86081 M1T85781 MD362207 12V
	1-JAS 110	positive pair		4,5 x 12 x 12,5	
	2-JAS 111	negative single		4,5 x 12 x 12,5	




IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JA-SX 21 (4) P/N 0 1987 1	Mitsuba	6 x 14 x 15	D7RSA7, D7RS7 Honda 31208-PC2681 Mitsuba SM302 12 Volt
	JASX 24-25 P/N 0 1979 1	Mitsuba	5 x 17 x 16.5 5 x 17 x 16.5	D7RSA4, 8-11 Honda 31200-P45C0 Mitsuba SM402 12 Volt
	1-JAS 24 negative pair 1-JAS 25 positive pair	Valeo 186169,187387-390		







IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	PLSX 3 P/N 0 1690 1	Pal Magneton	8 x 12 x 22	09-914 0,7/0,8/12 10-199-4009/12 12 Volt
4-PLS 3		110-904300,02-8480-82		
	PLSX 4 P/N 0 1691 1	Pal Magneton	8,8 x 26,6 x 26	12 Volt
4-PLS 4		93-22-32		
	PLSX 5 P/N 0 1689 1	Pal Magneton	6 x 12,5 x 12,5 flex length 30mm	443 115 141 310/311 Skoda Favorit, Felicia 12 Volt
4-PLS 5				

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	RX 60 P/N 0 1284 1	Remy	1906945, 966 (D757) 1946400 (D760)	6,3 x 19,05 x 16	1107201,1107619-895, 1108284,1108300-8307,8390,9439 199829 5 MT,8MT,10MT,SD300 Hyster Fork Lift 12 Volt
	RX 70 (4) P/N 0 1285 1	Remy	1906986 1946407,1946483	9,5 x 19,05 x 19	24 Volt
	RX 87 P/N 0 1287 1	Remy	1906958,962,968,987 (D759,D761)	9,5 x 19,05 x 19	30 MT,35 MT 12 Volt
	RX 92 P/N 0 1296 1	Remy	1906918,989 1946426,487	7,9 x 19,05 x 19	1109961-98 24 Volt
	RX 95 P/N 0 1288 1	Remy	1946434, 1976861	9,5 x 19,05 x 19	1107506-88 20MT,25 MT Clark Fork Lift 6/12 Volt
	RX 96 P/N 0 1286 1	Remy	1852880 (D764)	7,9 x 19,05 x 19	22MT,27MT 12 Volt



KOHLEBÜRSTEN CARBON BRUSHES

REMY







	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	RX 120 (2)				
	P/N 0 1250 1	Remy	3471506 (DR 751)		3471143 12 Volt
		1-R 909 1-R 924 C 2-springs	3471487 3471488 w. clip	6 x 16 x 14 6 x 16 x 14	
	RX 120 (3)				
	P/N 0 1291 1	Remy	3471764 w. Brush Holder		12 Volt
		1-R909 1-R922 1-R924	3471009 / 3471487 3471022 3471024	6 x 16 x 14 6 x 16 x 14 6 x 16 x 14	
	RX 120 (4)				
	P/N 0 1251 1	Remy	3471505 (DR 700)		3471141,144 12 Volt
		2-R 909 1-R 922-924 C 4-springs	3471009 3471022 + 3471024 w. clip	6 x 16 x 14 6 x 16 x 14	
	RX 120/0 (4)				
	P/N 0 1295 1	Remy	3471783,3471834		3471155,169,170,173-176 12 Volt
		2-R 909/0 1-R 922 1-R 924	3471009 w/o. Brush Holder 3471022 3471024	6 x 16 x 14 6 x 16 x 14 6 x 16 x 14	
	RX 122				
	P/N 0 1280 1	Remy	1852884	9,5 x 38,1 x 21,4	40 MT 400,450 12 Volt
		4-R122			
	RX 122 H				
	P/N 0 1256 1	Remy	1852883	9,5 x 38,1 x 21,4	40 MT 400,450 24 Volt
		4-R122 H			







	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	RX 124 P/N 0 1281 1	Remy	1852887	7,9 x 38,1 x 20,6	50 MT 400 12 Volt
	RX 124 H P/N 0 1257 1	Remy	1852888	7,9 x 38,1 x 20,6	50 MT 400 1114683,84,86,89 24 Volt
	RX 134 P/N 0 1282 1	Remy	1852892	10,5 x 36,6 x24,4	42MT 12 Volt
	RX 134-2C P/N 0 1264 1	Remy	10159505 two component grade replaces RX 134 fits old Brush Holder	10,5 x 36,6 x24,4	42 MT latest model 12 Volt
	RX 134 H P/N 0 1259 1	Remy	1852894	10,5 x 36,6 x24,4	42MT 24 Volt
	RX 134 H-2C P/N 0 1265 1	Remy	10520138 two component grade replaces RX 134 H fits old Brush Holder	10,5 x 36,6 x24,4	42 MT latest model 24 Volt







	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	RX 135 P/N 0 1283 1	Remy	1852889	9,5 x 28,6 x 26,3	37 MT, 41MT 12 Volt
	RX 135 H P/N 0 1260 1	Remy	1852893	9,5 x 28,6x 26,3	37 MT, 41MT 24 Volt
	RX 419-420 P/N 0 1254 1	Remy	10457119 10457120	7,9 x 24,8 x 19,5 7,9 x 24,8 x 19,5	10479600,05,08,11,12 1113272,77,91 28 MT Nikko Denki 0-23740-0110 24 Volt
	RX 457-458 P/N 0 1255 1	Remy	10456457 10456458	7,9 x 24,8 x 19,5 7,9 x 24,8 x 19,5	1113273-82,86-88,90 292,95-97 323-451 28 MT Clark,Hyster,MF 12 Volt
	RX 911 P/N 0 1252 1	Remy	R138 1852898	5,5 x 15 x 14,5	9000751,56,58 PG 100 Opel Unit-Nos. 21020892,21021648 12 Volt
	RX 912 P/N 0 1253 1	Remy	R139 10499524 Brush Holder: 10475602	6 x 19 x 16	9000786,798,804-806,812,819,822 827,834,835,850,851,853, 860-867,899,900 PG 260M 12 Volt







IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	RX 913-914 P/N 0 1272 1	Remy positive pair negative pair	4,6 x 13 x 11/12 4,6 x 13 x 11/12	1045506,96208781,9627548 Daewoo SD80F 12 Volt
	RX 915 P/N 0 1273 1	Remy 10484034	5 x 16 x 11/12,5	9000794,801,817,840 96208782,783,785 PG 150, PG 260F1 12 Volt







Brush Holder:
10475107







	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	PSX 64-70 (4) P/N 0 1742 1	Valeo	Paris Rhone 75 452X Valeo 182 098,102,103	7 x 18 x 17 7 x 18 x 17	D10E47,72-74,79,96 D11E79,D109,110,142,143,159,165 12 Volt
	2-PS 64 2-PS 70		34t19 34t		
	PSX 81-82 P/N 0 1746 1	Valeo	Paris Rhone 72 631G, 75 093G 300 679 Valeo 182 114,115,117	10 x 25 x 17 10 x 25 x 17	D11E92,T,104,117-121,127,129,T,131,137, 141,146,149,153,T,154,155,158,160,167, -T 169,173,176,178,202 12 Volt
	2-PS 81 2-PS 82		70f 70f34		
	PSX 83-84 P/N 0 1750 1	Valeo	Paris Rhone 72 630F Valeo 182 132,145	10 x 25 x 17 10 x 25 x 17	D11E81,T,88,89,T,TE,90,T,98,T,TE,99,T, 103,114,122,T,124,125,128,T,130,138T,149 D13E63,T,64-66,T,69,T,70,T,71,73,TE 74,TE,81,T,TE,82T,83-85,88,90TE,95, 100TE,101TE,104TE,105,108TE,111,112,116 24 Volt
	2-PS 83 2-PS 84		70j 70j34		
	PSX 88 P/N 0 1756 1	Valeo	Paris Rhone 72 615E Valeo 182 162	12 x 18 x 20	D15E14-16,19-23,24,T,25-30,T,TE 24 Volt
	4-PS 88		53j15		
	PSX 89-90 P/N 0 1747 1	Valeo	594286	10 x 25 x 20 10 x 25 x 20	D13HP601,605 24 Volt
	2-PS 89 2-PS 90				
	PSX 112 P/N 0 1755 1	Valeo	Paris Rhone 78 900U Valeo 182 146	10 x 18 x 17	D13E76,77,86TE,87TE,93TE,94TE,96TE,98TE, 107TE,109TE,110TE 24 Volt
	4-PS 112		47u53		







	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	PSX 115-116 P/N 0 1757 1	Valeo	Paris Rhone 92 655V Valeo 182 064	7 x 18 x 14 7 x 18 x 14	D8E21,22,L25,E27,30,31,37,41,43,49,50,54,58-60 64,66,70,71,75-78,81-84,86-89,94-98,102, 104,106,108,109,112-115,117-126,129,132-134 136,137,139,140,142,144,147,151,152,158 D9E7,9,11,12,14-22,26-28,34,35,37,41 D10E43,48-50,53,54,57,63-65,69,76,80,84,86 12 Volt
	PSX 115-116-121 P/N 0 1759 1	Valeo	Paris Rhone 92 694G, 92 695H Valeo 182 099,112,113,116,133	7 x 18 x 14 7 x 18 x 14	D10E59,62,66 D11E58,69,75,78,84,85,108,123,139,T,140,144, 163,164,170,180,181,193 12 Volt
	PSX 119-120 P/N 0 1760 1	Valeo	Paris Rhone 78 166L, 92 656W Valeo 182 070,072	7 x 15 x 14 7 x 15 x 14	D8E26,29,34,L35,E40,44-46,51,52,62, 65,L65,67,73,E74,L80,90-93,E99,103 107,111,116,130,131,141,148,154 12 Volt
	PSX 129 P/N 0 1766 1	Valeo	Paris Rhone 92 878G Valeo 182 065, 594 065	10,6/6,1x10,3x15 10,6/6,1x10,3x15	D9E31,40,43-46,49-55,62,74,75,77,79,85, 87,95,98,100,102,104,111,131,138,140, 200,238,300,771-774,776,851,852 12 Volt
	PSX 132 P/N 0 1769 1	Valeo	Paris Rhone 92 925 Valeo 182 118	10 x 18 x 14 10 x 18 x 14	D11E148,156,161,172,177,184, 187,188,191,192,195,272 12 Volt
	PSX 133 P/N 0 1770 1	Valeo	Paris Rhone 300 706Z Valeo 182 067,594 066	13,9/6,9x12x15 13,9/6,9x12x15	D9E36,38,39,48,56,57,61,64,66,68-70,76,78, 81-83,86,92-94,101,107-110,113,114, 123-125,127,129,132,136,137,237, 276,278,701,702,861 12 Volt
			Alternative Brush Set:	PSX 133 K positive brush w. clip IKA P/N 0 1763 1	







	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	PSX 133 K P/N 0 1763 1	Valeo	Paris Rhone 300706 Valeo 182 067		D9E36,38,39,48,56,57,61,64,66 68-70,76,78,81-83,86,92-94, 101,107-110,113,114,123-125, 127,129,132,136,137,237, 276,278,701,702,861
	1-PS 133 b 1-PS 133 c	positive brush	with clip Alternative Brush Set:	13,9/6,9x12x15 13,9/6,9x12x15	12 Volt PSX 133 positive brush w/o. clip IKA P/N 0 1770 1
	PSX 136-137 P/N 0 1771 1	Valeo	Paris Rhone 300 841H, 300 842		D10E85,87-90,92,881,882,921,922 12 Volt
	2-PS 136 2-PS 137		81ta 81ta	7 x 15 x 18,5 7 x 15 x 18,5	
	PSX 138-139 (2) P/N 0 1775 1	Valeo	182 054		D9R84 D9R121 12 Volt
	1-PS 138 1-PS 139		82aa 82aa	9 x 18 x 22 9 x 18 x 22	
	PSX 140-141 (4) P/N 0 1776 1	Valeo	182 051		D9R73,89-91,96,99,105,106,118,122,126, D9R135,139,142 12 Volt
	2-PS 140 2-PS 141		82ta 82ta	9 x 18 x 22 9 x 18 x 22	
	PSX 142-143 P/N 0 1779 1	Valeo			D7R ... , D8R ... 12 Volt
	2-PS 142 2-PS 143		185658 cable nu 35 mm 185658 cable isol. 35 mm	7 x 14 x 13,7 7 x 14 x 13,7	
	PSX 142-144 P/N 0 1752 1	Valeo			D7R5,11,15 12 Volt
	2-PS 142 2-PS 144		187778 cable nu 35 mm 187779 cable isol. 55 mm	7 x 14 x 13,7 7 x 14 x 13,7	

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	PSX 142-145 P/N 0 1754 1	Valeo			D7R VW overload protection starter 12 Volt
	2-PS 142		185658,187639,191861 cable nu 6 mm ² , 35 mm	7 x 14 x 13,7	
	2-PS 145		188571,191663,191862 cable isol. 3 mm ² , 55 mm	7 x 14 x 13,7	
	PSX 146-147 w/o spring P/N 0 1783 1	Valeo	594064		D6RA8,10 SH 1.2 kw 12Volt
	1-PS 146		184602	4,5/9 x 11 x 14	
	1-PS 147			4,5/9 x 11 x 14	
	2-isolants		avec ressort P/N 0 3777 1		
	PSX 146-147 P/N 0 3777 1	Valeo	594064		D6RA8,-10 SH 1.2 kw 12 Volt
	1-PS 146		184602	4,5/9 x 11 x 14	
	1-PS 147			4,5/9 x 11 x 14	
	2-Isolants		sans ressort P/N 0 1783 1		
	1-Ressort				
	PSX 148-149 w/o spring P/N 0 1773 1	Valeo	594060,594062		D6RA5,6,12,16,18,20,38,45,61 SH 1.1/1.2 kW 12 Volt
	1-PS 148			4,5/9 x 11 x 18	
	1-PS 149			4,5/9 x 11 x 18	
	2-isolants		avec ressort P/N 0 3778 1		
	PSX 148-149 P/N 0 3778 1	Valeo	594060		D6RA5,-6,-12,-16,-18,-20 D6RA38,-45,-61,-62,-63,-66 SH 1.1/1.2 kw 12 Volt
	1-PS 148		187069,188151,188389	4,5/9 x 11 x 18	
	1-PS 149		564834	4,5/9 x 11 x 18	
	2-Isolants		sans ressort P/N 0 1773 1		
	1-Ressort				
	PSX 148-149/0 P/N 0 1774 1	Valeo	594060		D6RA5,-6,12,16,18,20 D6RA38,-45,-61 SH 1.1/1.2 kw 12Volt
	2-PS 148/0		brushes with flex only	4,5/9 x 11 x 18	
	2-Isolants		Alternative Brush Set PSX 148-149	PSX 148-149 IKA P/N 0 1773 1	

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	PSX 148-157 w/o spring P/N 0 1777 1	Valeo	594063		D6RA52-56,59,60,62,63,66,70,72,75,141,161,661,721 SH 1.0/1.05/1.1/1.2/1.3 kW SIH 1.1/1.2 kW 12 Volt
		1-PS 148 1-PS 157 2-Isolants	187069,188151,188389 186772,187068,188855	4,5/9 x 11 x 18 4,5/9 x 11 x 18	
			avec ressort P/N 0 3779 1		
	PSX 148-157 P/N 0 3779 1	Valeo	594063 594127 594257		D6RA7,-13,-15,-17,-19,-21-23,-25-30, D6RA32,-34,-39-44,-46,-48-50, D6RA52-56,-59,-60,-63,-66,-70,-72, D6RA75,-141,-161,-661,-721 SH 1.0-1.3 kw SIH 1.1/1.2 kw 12 Volt
		1-PS 148 1-PS 157 2-Isolants 1-Ressort	187069,188151,188389 186772,187068,188855	4,5/9 x 11 x 18 4,5/9 x 11 x 18	
			sans ressort P/N 0 1777 1		
	PSX 148-158 w/o spring P/N 0 1768 1	Valeo	594169		D6RA33,37,47,51,57,101,133,571 SH 1.0/1.1/1.2/1.4 kW 12 Volt
		1-PS 148 1-PS 158 2-Isolants	187069,188151,188389 186865,187870,188430	4,5/9 x 11 x 18 4,5/9 x 11 x 18	
			avec ressort P/N 03780 1		
	PSX 148-158 P/N 0 3780 1	Valeo	594169 594386		D6RA33,-37,-47,-51,-57, D6RA101,-133,-571 SH 1.0-1.4 kw 12 Volt
		1-PS 148 1-PS 158 2-Isolants 1-Ressort	187069,188151,188389 186865,187870,188430	4,5/9 x 11 x 18 4,5/9 x 11 x 18	
			sans ressort P/N 0 1768 1		
	PSX 148-159 w/o spring P/N 0 1778 1	Valeo	594317		D6RA67,78-81,91,167,180,181 SH 1.0/1.1 kW 12 Volt
		1-PS 148 1-PS 159 2-Isolants	187069,188151,188389 186925,187737,188150,188803	4,5/9 x 11 x 18 4,5/9 x 11 x 18	
			avec ressort P/N 0 3781 1		
	PSX 148-159 P/N 0 3781 1	Valeo	594317 594360		D6RA67,-78-81,-91, D6RA 167,-180,-181 SH 1.0/1.1 kw 12 Volt
		1-PS 148 1-PS 159 2-Isolants 1-Ressort	187069,188151 188389 , 188150,188803 186925,187737	4,5/9 x 11 x 18 4,5/9 x 11 x 18	
			sans ressort P/N 0 1778 1		

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	PSX 152-153 P/N 0 1780 1	Valeo	182037	10 x 18 x 17 10 x 18 x 17	D13E117TE-123TE D13HP701-705,709 24 Volt
	PSX 155 (3) P/N 0 1727 1	Valeo	187144 Brush Holder 594 290 fits IKA P/N 7 7159 1	6,4 x 8 x 11	D7E 1,16,29-32,39-42 SH 0.7/0.8/0.85 kW 12 Volt clockwise PSA
	PSX 155 (4) P/N 0 1728 1	Valeo	187144 Brush Holder 594 351 fits IKA P/N 7 7159 1	6,4 x 8 x 11	D7E4,6,8,15,18-20,22,23,27, 38,47,52,62,70,79 D7ED28,281 SH 0.8/0.85/1.0 kW 12 Volt clockwise Mercedes A-Class
	PSX 156 P/N 0 1726 1	Valeo	187888 Brush Holder 594381 fits IKA P/N 7 7165 1	6,4 x 8 x 11	D7ES 2,4,5,7 SIH 0.9 kw 12 Volt anticlock VW
	PSX 160-164 P/N 0 1735 1	Valeo	positive brush with 2 shunts 28mm negative brush with 1 shunt 25,5mm	7 x 13 x 11,5 7 x 13 x 11,5	190365 D7G3, -4, -6, -11 SH 1.5-1.7 kW 12 Volt overload protection starter Audi,BMW, PSA
	PSX 161 P/N 0 1737 1	Valeo	1903131	7 x 14 x 13,7	D8R 1,27 SH 1.9/2.4 kW 12 Volt




	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	PSX 163-164 P/N 0 1740 1 Valeo				D7G SIH 12 Volt overload protection starter VW
	2-PS 163		positive brush with 2 shunts 50mm	7 x 13 x 11,5	
	2-PS 164		negative brush with 1 shunt 25,5mm	7 x 13 x 11,5	
	PSX 166-167 P/N 0 1743 1 Valeo				D6G1,2,3,5 D6GS19 SH c/w 12 Volt Audi,BMW, Fiat, Mercedes, PSA VAG
	2-PS 166		191849	3,9/6,4 x 10 x 15,5	
	2-PS 167		191771	3,9/6,4 x 10 x 15,5	
			Replacement for PSX 168-167 IKA P/N 0 1744 1		
	PSX 168-167 P/N 0 1744 1 Valeo				
	2-PS 168		192985	3,9/6,4 x 10 x 15,5	
	2-PS 167		191771	3,9/6,4 x 10 x 15,5	
			replaced by PSX 166-167 IKA P/N 0 1743 1		
	PSX 169-170 P/N 0 1745 1 Valeo				D6GS1,2,3,5,11-13 SIH a/c 12 Volt overload protection starter VW
	2-PS 169		191772, 194789	3,9/6,4 x 10 x 15,5	
	2-PS 170		191773	3,9/6,4 x 10 x 15,5	
	PSX 174 P/N 0 1751 1 Valeo				ESM starters 12 Volt startstop starters Hyundai
	6-PS 174		1197541, 1203248	4.4 x19.9 x11.4/13.2	
			two component grade		
	PSX 175-176-171 P/N 0 1758 1 Valeo				ESW starters 2nd series ESW20E26 ESW20ER 6,20,25,121,123 ESW 22E 1.6/2.0kw 12 Volt Renault 1.6 D VW 2.0 TDI
	4-PS 171	- flex 35 mm	200921	7 x 11 x12.5	
	2-PS 175	+ flex 40 mm	200923	7 x 11 x12.5	
	2-PS 176	+ flex 30 mm	200924	7 x 11 x12.5	
			two component grade		
			Replacement for PSX 171-172 P/N 0 1739 1		

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
NEW 	PSX 177 P/N 0 1723 1	Valeo			ESW22E RSW
	4-PS 177		208630 two component grade	7.0 x 20.0 x 16.0/19.5	latest models
NEW 	PSX 178 P/N 0 1722 1	Valeo			TSC starters
	4-PS 178		1207489 two component grade	5.15 x 11.85 x 13.2/14.2	Ford, PSA Renault-Nissan VW
NEW 	PSX 179-180 P/N 0 1721 1	Valeo			RSM starters
	2-PS 179 2-PS 180	negative positive	209756 209815 two component grade	5.25 x 17.0 x 14.0/15.0 5.25 x 17.0 x 14.0/15.0 flex 2.5 mm ²	
NEW 	PSX 181-182 P/N 0 1725 1	Valeo			RSM starters
	2-PS 181 2-PS 182	negative positive	206792 206793 two component grade	5.25 x 17.0 x 14.0/15.0 5.25 x 17.0 x 14.0/15.0 flex 3.0 mm ²	
NEW 	PSX 183 P/N 0 1716 1	Valeo			RSW starters
	4-PS 183		209831 two component grade Alternative Brush Set for	7 x 20 x 14/15.5	ESW starters: 4 brushes instead of 8
NEW 	PSX 183-184 P/N 0 1718 1	Valeo			RSW starters overload protection
	2-PS 183 2-PS 184		209891 215031 two component grade Alternative Brush Set for	7 x 20 x 14/15.5 7 x 20 x 14/15.5	ESW Starters 4 Brushes instead of 8

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	USX 50-51(4) P/N 0 1354 1 Valeo	Ducellier 618509		412A,428AB,429B,430B,432A,443AB 6008ABC,39A,40A,56ACDEFGHJ,62A,68A, 6070A,75A,76A,79BCD,83ABCD,85A,88A,89A, 6097A,98A,99ABCD
	2-US 50 2-US 51	98067,79249,680548 98068,79248,680549	8,8 x 19,05 x 13 8,8 x 19,05 x 13	6103A,4A,8A,9ABCDEFHJ,KL,10ABC,16A-18S 6127ABC,40A,42A,46A,53A,58A,60ABCDEF,6 6164ABC,68AB,69AB,77ACD,79A,80AB,82A 6184AC,92ABCJ,KL,93AB 6207ABC,9AB,29AB,30AB,32A,33A 536 001,2C 538 000ABC, 1A-3A,5AD,6A 618 072H,75AC,89AB 6/12 Volt
	USX 60-59 P/N 0 1355 1 Valeo	Ducellier 75238, 618481		371A,376A,381A,B,C,D,391A,393A,398A,401A,426A, 434AB,5130A, 6010ABDE,18A,60A,80B6112ABCDE,13AB 6020ABCD,23ABCDE,33,34AB,35ABCDE 6048,49A,50ABC,73ABCD,77ABC,81ABCDEF, 6101AB,21A,22AB,28AB,29A,30A,34ABCDEF,6 6120A,35ACDE,48A,67A,88A 6136ABD,37ABCDEF,38ABC,39AB,43A,44AB,47AB, 6155ABCEG,57A,61ABCEFH,62ACE,70A,71A, 6172AB,74ABCDEF,75AB,76ABCEG,81A,83ABCFG, 6185ABC,87ABCEF,89ACDEF,90AB,95A,97A 6202AB,3ABCD,6AB,8A,12AB,15ABCD,16ABC,17ABCDE, 6219ABC,20ABC,21A,23A,24BCD,26A,27ABCD,31ABCD, 6236BC,37ABCD,38ABCD,40A-42A,44A,45A,47AB, 532000AB,1AB,2ABC,3AB,4ABC,5A,7A,8ABC,9AB, 532010AB,11A,14A,17A,18A,20AB, 533000A-4A 583008 618070,71,73,74,77,78,91, 618358,482,484,490 618565,795 6/12 Volt
	1-US 60 1-US 59	99562 99556	8 x 15 x 15 8 x 15 x 15	Replacement for USX 44-21 USX 45-23 USX 76-77-78 (2 sets)
	USX 73-85 P/N 0 1361 1 Valeo	Ducellier 618491		6020EF,35F,77BC,81EF 6134FGH,36ABD,37ABCE,39BC,44AB 6155HIKL,61ABCEFH,62ACE, 6172B,74ADBCFEFGH,75AB,76EG 6181A,83ABCFG,85ABC,87CEF,89DEF, 6190AB,95A,97A, 6201ABCD,2AB,3ABCD,6AB,8AB,12AB,15ABCD, 6216ABC,17ABCDE,18A,19ABC,20ABC,21A-23A, 6224ABCD,26A,27ABCD,31ABCD,36BC,37ABCD, 6238ABCD,40A-42A,44A,45A,47AB 6627AB 532000AB,1AB,2ABC,3AB,B,4AB,C,5A,7A,8ABC 532009AB,10AB,11A,14A,17A,18A,20AB, 533000A,1A,2A,3A,4A 618074,77,91 618482,84 12 Volt
	1-US 73 1-US 85	(cable 41 mm) (618 421)	8 x 15 x 15 8 x 15 x 15	
	USX 91-92 P/N 0 1367 1 Valeo	Ducellier 618691,692 Valeo 583 041		6202CDEF,17FGH,41B,46AC 532012AB,16AB,21A,23A,24AB,25AB,26A, 534000A,2A,3ABC,4AB,5ABC,7A,9ABC,23A,24A,29A,31A, 534032A,39A,42AB,43AB,44A-49A,50AB,51A,52A,53C,54D , 534055E,57A 12 Volt
	1-US 91 1-US 92	Ducellier 680 752 Ducellier 680 753	6/11,7 x 13 x 15 6/11,7 x 13 x 15	

KOHLEBÜRSTEN CARBON BRUSHES

HEATER MOTOR

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	HX 3 P/N 0 1795 1	LEECE/ NEVILLE	(H 3 R)	7,1 x 7,1 x 14,3	
	HX 6 P/N 0 1785 1	LUCAS / SMITH		6,3 x 6,3 x 11,9	Lucas EWD Smith eHS 340, MKI
	HX 16 P/N 0 1794 1	DUCELLIER	92 330 / 90 177	6 x 6 x 11,5	
	HX 26 P/N 0 1796 1	WEBASTO		9 x 6 x 16,5	
	HX 54 P/N 0 1793 1	BOI-WO	EP523BOS Heat-on	5 x 6,4 x 10	
	HX 56 P/N 0 1786 1	ELEKTROLUX		5 x 6 x 12,7	Volvo KS3442/21/140




KOHLEBÜRSTEN CARBON BRUSHES





HEATER MOTOR

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	HX 106 P/N 0 1798 1	AVOG	00-14-16-31	12 x 8 x 21	
	HX 109 P/N 0 1797 1	WEBASTO	30HL1A, 1599-1721-0602	5 x 6,4 x 15	
	HX 116 P/N 0 1790 1	BOSCH	3 137 014 109 / 100 3 134 320 026 / 025	6,3 x 6,3 x 11	0 130 056 ... 0 130 057 ... 0 130 059 ... 0 130 065 001,008 0 130 997 005 CPH, CRG, CRH
	HX 124 P/N 0 1791 1	BOSCH	3 137 014 123 / 163 3 134 320 035 / 061	8 x 8 x 14	0 130 106 001,003,005,008,012,014,016 0 130 205 001 DPC, EPA12
	HX 155 P/N 0 1788 1	BOSCH	3 137 014 171 3 134 320 155	8 x 6,3 x 11	0 130 061 ... 0 130 063 ... 0 130 068 001,004,006,009,011,013,017 CPA, CPB, CPL
	HX 161 P/N 0 1799 1	BOSCH	3 137 014 162 3 134 320 161	6,3 x 5 x 12,5	0 130 106 002,004,007,010,015,017,019, 0 130 106 020,024,025,028-035 CPK

KOHLEBÜRSTEN CARBON BRUSHES





HEATER MOTOR

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	HX 172			
	P/N 0 1789 1 BOSCH	3 137 014 202		0 130 701 019 JPK24
	2-H 172	3 134 320 101 / 172	8 x 8 x 15	
	HX 341			
	P/N 0 1792 1 BOSCH			
	2-H 341	3 134 320 341	8 x 10 x 19,5	
	HX 346			
	P/N 0 1787 1 BOSCH	3 137 014 111		0 130 103 ... 0 130 104 001 0 130 105 ... 0 130 107 001,003 DPG12, DRB, DRH12
	2-H 346	3 134 320 164 / 346	8 x 6,3 x 14	

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	HPIX 1				
	P/N 0 1800 1	MAD Faurecia	HPI-KOYO		
	4-HPI 1		145 110 411 034	6,95 x 12,4 x 20,3	
	HPIX 3				
	P/N 0 1802 1	MAD2 Faurecia			Citroen Saxo, Peugeot 106 Renault Kangoo Renault Trafic Engine Cooler
	4-HPI 3		141 110 411 037	5,95 x 12,4 x 20	
			fits Brush Card: 7 5001 0 and 7 5002 0 Spring Kit: 7 5101 2		
	HPIX 4				
	P/N 0 1803 1	Siemens-VDO			Mercedes A-class
	4-HPI 4			5,45 x 12,2 x 22	
			fits Brush Card: 7 5003 0		
	HPIX 5				
	P/N 0 1804 1				BMW Mini
	4-HPI 5		145 110 400 072	5,90 x 10,8 x 27	
			fits Brush Card: 7 5004 0		

KOHLEBÜRSTEN CARBON BRUSHES

MOTORCYCLE

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 1 P/N 0 1943 1	Denso	028530-0932,0933,0990,0991, 028530-1020,1021,1030,1031, 028530-5030,5031	6 x 9 x 12,5	028000-8411,8422,9133,9620,9622,9623, 028000-9872,9882 128000-1431,1550,4461,4590 12 Volt
	2-JAS 1	Honda	31215-ZA1-003,013		
	JASX 2 P/N 0 1946 1			5 x 10 x 12,5	12 Volt
	JASX 4 P/N 0 1337 1	Suzuki	31131-35400 complete with: 2 springs, 2 screws 2 washers	5 x 7 x 6,3	31100-30D00 Suzuki: Chrystal, Shogun, Tornado 125 ccm 12 Volt
	JASX 5 P/N 0 1338 1	Yamaha	50W-81801-M0 complete with: 2 springs, 2 screws, 2 washers	5 x 7 x 7,3	3MB-81800-02 Yamaha: Alfa, Force 1, Cub 50 ccm 12 Volt
	JASX 7 P/N 0 1339 1	Honda	31201-KFK-003 31201-KSS-901 Brush Holder: 31206-KW1-901	6 x 10 x 13	31200-KCN-003 Honda: Tiger 12 Volt
	JASX 8 P/N 0 1340 1	Honda	31201-KPH-881 31201-KPW-901 31201-MBE-008 Brush-Holder: 31206-KPP-T01 31206-MBE-008	6 x 7,5 x 7,3	31200-KPP-T01 31200-KPH-881 Honda: Carisma, Dream, Wave, CBR, CBF 125 ccm 12 Volt

	IKA-No.	Original	References	Dimensions mm	Unit-Nos.
	JASX 9 P/N 0 1341 1	Suzuki	31131B30D50N000 31131B30D55N000 Brush Holder: 31132-13E00-000	5 x 7 x 8,1	31100-05501-000 Suzuki: Smash, GN 125 EX 125 ccm 12 Volt
	JASX 13 P/N 0 1342 1	Yamaha	Brush Holder: 3KW-H1801-00 5VV-H1801-10	6 x 9,5 x 10	5P0-H1800-00 5P1-H1800-00 Yamaha: Nouvo 125 ccm 12 Volt
	JASX 20 P/N 0 1343 1	Honda		6 x 6 x 7,5	Honda: Wave 12 Volt
	JASX 211 P/N 0 1344 1	Yamaha	Brush Holder: 3AY-H1801-00	5 x 7 x 7,3	1S7-H1800-00 Yamaha: Jupiter, Vixion, YZ-R, WR 125 ccm 12 Volt
	JASX 107 P/N 0 1345 1	Honda	Brush Holder: 31206-KPW-901	6 x 10 x 10,5	31200-KPP-861 Honda: Sonic, CBR 125 R 125 ccm 12 Volt
	JASX 108 P/N 0 1346 1	Honda	Brush Holder: 31213-KEE-630	6 x 6 x 7,5	31210-KVY-961 Honda: Vario, Click, Scoopy, CBS, Bali 100 EX, Vision 50, SCV 100 50 - 100 ccm 12 Volt

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
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JASX 109
P/N 0 1347 1

Honda

31201-187-701

6 x 6 x 7,5

31200-KTL-690
31208-GB4-701
Honda: Dream, Supra, Grand,
Prisma, Star, Magna, C 90
50 - 125 ccm
12 Volt

2





BÜRSTENHALTER UND BÜRSTENHALTER-KITS






BRUSH-HOLDERS AND BRUSHHOLDER-KITS





PORTE-CHARBONS ET KITS PORTE-CHARBONS














IKA-No.	Original	References	Unit-Nos.
7 7114 1	Bosch	1 001 329 900 1 004 336 025,028,029, 034,055 with 2 negative brushes and 4 springs complete kit with positive brushes : 7 7314 1	0 001 208 200-202,204,216-218, 224,229,233,403,404, 411,412,416,419, 425-429 211 200-208,210,215, 218-225,233-236,239, 242-249,251,253,254, 257,258,992,993,997 212 199,202-214,400-403 EB(L) 12V 08./0.95 kW EB(R) 12V 0.7/00.8/0.95 kW EF(L) 12V 0.7/0.8/0.95 kW EF(R) 12V 0.8/0.85 kW
			
7 7115 1	Bosch	2 004 336 027,041,099 with 2 negative brushes and 4 springs complete kit with positive brushes: 7 7315 1 or 7 7316 1	0 001 362 034-043,045-053,057-64 069-079,081,083-86 088-097,100,102-105 300-314,316-319, 321-332,600-607,700-705 0 001 366 001-006,008-022,024-029 9 000 143 203,204,408,411,413,414,420 IF/JF(L) 12V 1.9/2.4 kW IF/JF(R) 12V 1.9-2.7kW
			
7 7117 1	Bosch	1 004 336 009,027,033,036, 1 004 336 040,046,057 1 007 010 027 with 2 negative brushes and 4 springs replacement for 7 7118 1 complete kit with positive brushes: 7 7317 1	0 001 207 003,005,009,015,018 0 001 208 006, 007 214 002 215 001 311 024,030,031,047,050-52 054-056,100,103,107 108,110,111,113,115 120,123,124,126,130 138,139,146,147,149 312 101-111 313 006 314 005,006,009-015,017,018, 024-029,032,034,036-038, 042,043,045-47,049 315 005 EF(L/R) 6V 0.5 kW EF(L/R) 12V 0.8 kW GB(L/R) 12V 1.5 kW GF(L) 12V 1.0-1.5 kW GF(R) 12V 1.0-1.6 kW
			
7 7119 1	Bosch	2 004 336 028,044,067 with 2 negative brushes and 4 springs complete kit with positive brushes: 7 7319 1	0 001 367 001-018,020-025,027-032 034-039,041-048,050-052 054-059,061-068,070-072 074-079,081-082,300-303 0 001 369 001-006,012-018,020-024 106 9 000 143 410,412,415,416,419 IF/JF(R) 12V 3.0/3.1 kW
			





	IKA-No.	Original	References	Unit-Nos.
	7 7120 1	Bosch	2 004 336 031,046 with 2 negative brushes and 4 springs complete kit with positive brushes: 7 7320 1	0 001 368 001,002,004-007,009, 010,012-014,016,018-022 024,027-031,034-041 047,049,050,052,055-060 062,063,068-073,076,077 077,079,081,082,085,086 088,300,301,303,305-307 309-313,315-317,319-321 9 000 143 600-604 IF/JF(R) 24V 4.0 kW
	7 7121 1	Bosch	1 004 336 900 with 4 brushes BS 140 and 4 springs	0 001 312 108,109 317 007-013,016-019,022-025 GF(L/R) 12V 1.7 kW
	7 7122 1	Bosch	1 004 336 901 with 4 brushes BS 149 and 4 springs	0 001 208 702,706,707,709-715,717-719 9 000 333 106,114,117 EF(R) 12V 0.8-0.95 kW
	7 7123 1	Bosch FIAT Nissan PSA Renault	1 004 336 822,838,856,861 F 000 AL1 921 AL2 050-052 9948244 23378-9F600 5825 C7 77 01 047 323 mono brushes	0 001 116 001,003-006,008,009 DM(R/L) 12V 0,7kW
	7 7124 1	Bosch Ford MB Mitsubishi Opel	1 004 336 300,318,346,411, 418,419,423,436, 439,443,740,747, 748,762,806,812, 816,837,912,913, 921,922,960,965, 968,986,995,998 AU2-11049-A 000 151 98 14 MR 922747 905434727, 9196673 alternative brush holder: plastic type 7 7812 1	0 001 108 004,019,020,022, 024-027,048,051-053, 056,063-064,070,075 080,081,088-090,093, 098,100-102,107,111, 112,115,118-122, 124-126,128,130,131, 133-137,138-141, 144-146,149-151, 153-156,158-160,162, 166,167,169,171, 173-178,183,184,188, 189,197,995,996 0 001 111 002-004 F 002 G20 049,052,101,141, 449,500,639 F 005 M00 006,010,011,013,016 F 010 AL0 103 DW(R) 12V 1.1-1.4 kW DW(R) 24V 1.6 kW

	IKA-No.	Original	References	Unit-Nos.
	7 7125 1	Bosch	1 004 336 217,302,815,817, 834,843,844,846, 865,915-917,928, 939,940,943,952, 953,963,967,969, 992,993 9 001 081 094 F 000 AL1 013,050-055,326,396, 483,532,918,919 AL2 034,035,109	0 001 112 003-029,032-039, 041,044,045 113 001-015,017 114 003-006,008-010, 014-017,020-022 133 003,004 9 000 081 001-010 9 000 695 002,003 F 000 AL0 100,102,104,109,300-302, 306,313,328,334,401,402, 414,415,502 F 000 CD0 8A0,-8A2 DA(L) 12V 0.9 kW DM(L/R) 12V 0.8-1.1 kW
		FIAT	776 648 44 9945064,9948027	
		Nissan	23378-99B00,-B10	
		PSA	5825 A8,-C2,-C6 5828 97 95 646 211	
		Renault	77 01 042 412	
		VW	020 911 209 A,-C 026 911 209 A,-B,-C 055 911 209 02A 911 209	
			mono brushes	
	7 7126 1	Bosch	1 004 336 417,746,821,951	0 001 106 016 107 003-008,020-023,052,053, 121 006-011,016-019,022,023 DB/DW(L) 12V 1.1 kW DAF 1516679R, 1516723R, 1516779R, 1516781R Ford 95VW-11000-BA,-BB YM21-11000-EA VW 020 911 023,-F,-FX,-J,-N 02A 911 023 E,-F,-L,-T,-TX 02B 911 023 B,-F 02M 911 023,-X 02T 911 023 A,-E,-EX
		VW	020 911 209 B 02B 911 209	
			alternative brush holder: plastic type 7 7807 1	
	7 7127 1	Bosch	1 004 336 257,402,459, 732,927,958, 983,988,991	0 001 109 011 110 001,002,009,010,031, 032,039,061,062,070, 076,077,084,085, 098,099 125 005-006,009,010, 018,019, DB/DW(L) 12V 1.7-2.0 kW
		VW	020 911 209 021 911 209 036 911 209 02A 911 209 B	
			alternative brush holder plastic type 7 7838 1	
	7 7129 1	Bosch	1 004 336 401,404,455,458, 731,734,909,924, 925,942,947,955, 959,981 1 007 010 076 (Kit) 12 41 1 726 041	0 001 110 004,007,008,012,013, 016,019,022-024,027-030, 039,042-046,051-056, 063,064,066,067,075, 078,083,090,091,102, 106-108,120,122,123,999 DB/DW(R) 12V 1.7-2.0 kW R78-M15 12V
		BMW	99440747,9945959,9950468	
		FIAT	84AB-11461-AB, 6147939	
		Ford	1203037,90510286,93185012	
		Opel	068 911 209 F,-G,-H	
		VW	077 911 209,-A,-B	
			field coil connector 66.5 mm	
			alternative brush holder: plastic type 7 7835 1	






IKA-No.	Original	References	Unit-Nos.
7 7130 1	Bosch	9 003 334 314,343,355 1 004 112 906*,907* 9 003 334 103*,147*,163*, 9 003 334 165*,167*,171* 9 003 334 175* * with field coil housing	0 001 218 002-031,100-115 118,120-131,133-147 150-168,171-178 9 000 331 401,402,405-409, 411-415,417-428, 430-433 6 033 AB1 J00 EV(R) 12V 2.2/2.3 kW
7 7131 1	Bosch	1 004 336 309,332,397,415, 432,433,715,744, 801,813,827,842, 938,957,964,975 FIAT 9947478, 9947649 9950837 Nissan 23378-99B15 Opel 9118123, 93185011 PSA 5828 98 VW 058 911 209 A	0 001 106 011,014,015,025 107 010,012,014,017-019, 025,026,029,033,038, 049,054,055,062,066, 068,069,083,085,089, 091,094,095,097 121 001,002 9 000 694 022 9 007 045 020 DW(R) 0.9 kw DB/DW(R) 12V 1.1 kW 46468696, 46748350, 9613230280 92AB-11000-GA 23300-99B16 9118123, 9133598, 9198701, 93185011 5802 E4 96 035 034, 96 102 058 96 155 198 053 911 023 A,-B 058 911 023 B,-BX
7 7132 1	Bosch	1 004 336 361,456,460,468, 802,848,946,994 Perkins 2873 0307 Renault 77 00 102 800 77 01 042 471 77 01 044 940	0 001 109 035 110 089,114 115 001 DW(R) 12V 1.7/2.0 kW 1516790R 60 01 040 105 77 00 102 800 77 00 866 505
7 7133 1	Bosch	9 003 334 341 9 003 334 155 Kit 9 003 334 156*,158 * 02B 911 209 A 098 911 115*	0 001 218 116,117,119,132,148,149,170 EV (L) 12V 2.2/2.3 kW
	VW	* with field coil housing	




	IKA-No.	Original	References	Unit-Nos.
	7 7135 1	Bosch VW	1 004 336 507,508,537,550, 551,605,617,620, 621,713,751,752, 800,884,885 020 911 209 E 085 911 209 A,-C 02B 911 303 C 02M 911 209 B 1 007 010 124,135 Kit* * with commutator plate	0 001 110 086,087,118,119,133,134 124 001-008,013,014,022,027 125 003,004,011,035,036, 039,040,048,049, 605,606 DB(L)12V 1.8/2.0 kW RF78-L30,35 12V(L) RF78-M45 12V(L) Ford 1M21-11000-AA 95VW-11000-CB,-EB,-EL,-GA VW 020 911 023 D,-P,-PX 020 911 024 A,-AX, 068 911 024 K,-KX 085 911 023 A,-K,-L,-M,-MX 02A 911 023 H,-J,Q 02A 911 024 E,-EX 02B 911 023 B,-D 02M 911 023 F,-FX,Q,-QX 6U0 911 023 A,-AX
	7 7136 1	Bosch DAF	2 004 336 077,078 1355895 with 4 brushes BS 177 and 4 springs replacement for 7 7139 1	0 001 371 004-010,012-020,119,120 IE(R) 24V 6.7 kW DAF 1516656R,1516677R, 1516686R Leyland 1443674 MAN 81 26201 6022 MB 005 151 54 01 MTU 005 151 18 01 005 151 54 01 005 151 60 01 005 151 68 01 Scania 1318615,1329660,1332903, 1357211,1357213,1357709, 1358639,1358640,1382290, 1386807 MB Actros 1853,-L / 2043 AS / 2053, 2553,-L / 2653,-L / 3353 O580 (Travego) O580 RHD-15 (Travego)
	7 7137 1	Bosch DAF	2 004 336 085,087 1397425 with 2 negative brushes BS 170 and 4 springs complete kit with positive brushes: 7 7337 1	0 001 372 001,004 IE/JE(R) 24V 6.2 kW DAF 1516658R, 1346163 MB 004 151 88 01 004 151 94 01 DAF 85 CF.340,-380,430 MB Actros 1831-4150 O580 RHD-15 (Travego)
	7 7138 1	Bosch DAF	2 004 336 066,086 1296182,1337452 with 2 negative brushes BS 170 and 4 springs complete kit with positive brushes: 7 7338 1	0 001 364 300,301,400,402 0 001 372 002,003,005-008 IF(R) 24V 4.8 kW ID(R) 24V 5.2 kW IE(R) 24V 6.2 kW DAF 1284775,1317220,1357210, 1357212,1516762R,1518391R IVECO 42522942 KHD 117 9586 MB 005 151 50 01 457 151 03 01 DAF 85CF 340,380,430 95 XF 380,430,480,530 Actros 1831 - 4150 Axor 2635,3335,3340,3343, 4135,4140,4143 Citaro O530 Conecto O345 Integro O550, Travego O580 Touro OC500, Turismo 15 RHD,-SHD Travego O580,-RH(D)-15,-RHD-17






IKA-No.	Original	References	Unit-Nos.	
	7 7199 1	Bosch	6 033 AD0 130,156 380,383,471 6 033 AD4 026,054,161,180 9 003 334 363 Stator Frame: 6 033 AD0 128,151, 152,189,473, AD4 064,093,094,098, 099,109,110,177	0 001 231 001-003,008,010,011, 014,017-019,032 EV(R) 24V 4.0 kW HE95-M 24V (R)
		limited stock		
		replaced by 7 7241 1		
	7 7200 1	Bosch	2 004 336 064 with 2 negative brushes and 4 springs	0 001 368 083 IF(R) 24V 4.0 kW DAF/Leyland 1201327 45.130 / 45.150,-Turbo 45.160,-Turbo 45.180,-Turbo 45.210
	7 7201 1	Bosch	2 004 336 079 with 4 brushes BS 197 and 4 springs limited stock	0 001 370 003,004 IE(R) 12V 5.0 kW MB 005 151 52 01 457 151 02 01
	7 7202 1	Bosch VW	1 004 336 506,637,879 020 911 209 B,-F	0 001 106 402-404,407,409,410 120 400-411 F 004 A94 403 DB(L) 12V 0.9 kW RF70-S25 12V(L) R70-S10 12V(L) BMW 12 41 7 522 697 12 41 7 682 099 12 41 7 691 956 (motorcycle) Piaggio GU057030730 VW 020 911 023 T,-TX 02T 911 023 G,-GX,-J,-M,-MX,-R,-RX 02Z 911 023 C 0AH 911 023 A,-AX
	7 7203 1	Bosch VW	1 004 336 272,503,549,619, 629,750,878 02A 911 209 E	0 001 125 007,008,031,032,042, 043,046,047,051,052, 617,618 DB(L) 12V 1.8/2.0 kW RF78-M-45 12V(L) VW 02A 911 024 D,-DX,-X 02B 911 023 D,-L,-M,-MX 02T 911 023 D,-H,-HX 07M 911 024



	IKA-No.	Original	References	Unit-Nos.
	7 7204 1	Bosch VW	1 004 336 516,555,622 756,893 069 911 209 F	0 001 125 511-514,517,518 DB(R) 12V 2.0 kW RF78-S 12V(R) 069 911 023 L,-LX,-M,-MX
	7 7205 1	Bosch FIAT Suzuki	1 004 336 509,527,531, 704,708,886 773 650 65 31173-T55L0	0 001 108 401,402,420,421 450,451,456,457 F 002 G20 670 F 004 A94 004 DW(R) 12V 1.4 kW R70-L25,35 / RF70-L25 12V(R) BMW 12 41 7 519 390,391 Chrysler 68080459AA FIAT 517 8721 18 Ford 3M5T-11000-EA 1374049 Suzuki 31100-55L00,-55L01
	7 7206 1	Bosch VW	1 004 336 519,539,655,896 0 399 D77 003 02M 911 209 C	0 001 121 402,403,408-413,418-421, 429,430,433-436 0 399 703 117,118 708 101,102 F 042 200 000,068,088 020 911 024 D 02E 911 023,-J,-JX,-S,-SX 02M 911 023 G,-GX, 02M 911 024 D,-DX 02T 911 023 R 02T 911 024 D,-K,-KX 02Z 911 023 E,-EX 0AH 911 023 RF70-M25 12V(L)
	7 7208 1	Bosch FIAT VW	2 004 336 249,250 6 033 AD0 014,159,160,221 6 033 AD0 368,401,404,407 6 033 AD1 155,244,246,250, 6 033 AD1 252,294,311,349, 6 033 AD1 350,495 Stator Frame: 6 033 AD0 007,162,223, 225,311 AD1 108-110,245, 248,249,251,254 301,313,327,351 381,598 AD2 002 773 635 59 057 911 209 G brush set BSX 192-193	0001 218 602,620, 703,710-712,715,716, 719,722,725,728,730, 735-738,740-742,754, 757-759,763-768, 770-772,774,776,777 805,808,809,812,814 815-822 0 001 223 001-014,016,018,019, 021,022,024,056,104 6 033 A1J 05B EV(L/R) 12V 2.3 kW Chrysler/Jeep 56041 563 AA DAF 1516888R KHD 118 0995,1751,2124,2382,2384 MB 005 151 2501,2901 VW 057 911 023 A,-AX,-E,-EX Audi A8 4.0/4.2 TDI quattro > 05/2003 Q7 4.2 TDI > 03/2007 Jeep Grand Cherokee 3.1TD VW Touareg 4.2 TDI > 01/2010






IKA-No.	Original	References	Unit-Nos.
7 7209 1	Bosch Ford IVECO PSA	6 033 AD0 161,409,411 AD1 255,259 BF9T-11434-AB 9972033 5821 G0 brush set BSX 192-193	0 001 223 501-507 EV(R) 12V 2.6 kW XC3U-11000-CA 500338953, 504015749 John Deere RE 50 134 7 SAME 29619400
7 7220 1	Bosch VW	1 004 336 561,765 053 911 209 A	0 001 107 103-106 121 030-035 RF74-M40,45 12V (R) R74-M40,60 12V (R) Overload Protection Starters VW 001 911 023, -B,-C,-CX,-X 036 911 023 S 085 911 023 H,-HX
7 7221 1	Bosch VW	1 004 336 504,562,766,978 02B 911 209 D	0 001 107 112 0 001 121 024-029 F 004 A94 029 DB/DW (L) 1.1/1.2 kw RF74-M50/M60 12V (L) 020 911 023 F,-FX 02A 911 023 L,-LX 02T 911 023 B
7 7222 1	Bosch FIAT	1 004 336 528,533,579,788 773 641 27	0 001 108 210,225,241,242 F 002 G20 326,348,546,582,593,820 DW(R) 12V 1.8 kW R74-L20,40,45,60 12V(R) RF74-L100,120 12V(R) 518 329 55 551 934 10, 551 955 03 Lombardini 5840147
7 7223 1	Bosch	1 004 336 512,552,567, 753,771,889	0 001 108 200,201,206,207, 228,229,237,238 DW(R) 12V 1.4 kW R74-L75 12V (R) 07C 911 023 D,-F,-FX,-G,-H,-HX 07D 911 023 A,-AX




	IKA-No.	Original	References	Unit-Nos.
	7 7224 1	Bosch	1 004 336 521,568,773,898	0 001 108 203 0 001 111 010 DW(L) 12V 1.4 kW R74-L10,-L25 12V (L) Lada 21100 3708010 03
	7 7226 1	Bosch VW	1 004 336 515,554,661, 755,892 012 911 209 A	0 001 115 022,023 DW(R) 12V 1.7 kW R74- 12V (R) Overload Protection Starters VW 012 911 023 C, -CX
	7 7227 1	Bosch VW	1 004 336 523,558,653,700,759 02M 911 209 A 03G 911 209 B	0 001 123 016,017,036,037, 044,045 DW(L) 12V 1.7 kW RF74-E25,-E45 12V (L) Overload Protection Starters VW 02E 911 023 H, -HX,L,-LX 02E 911 024 A,-AX
	7 7229 1	Bosch FIAT IVECO VW	1 004 336 524,559,574,578, 596,616,624,701, 760,784,787,869 1 004 337 004 1 004 338 162,164 773 638 17 773 641 02 425 668 18 059 911 209 E Replacement for 7 7521 1 with longer brushes for longer life time	0 001 109 204,264,275,276,280,281,300, 301,310,311,332,333,340,341, 361,362,364,379,389,390,397, 398,405-408,421,422 0 001 110 130,131 0 001 124 028,029 DW(R) 12V 1.8 kW R78-M28,35,45,55 12V (R) RF78-L 12V(R) Ford 4M5T-11000-KB,-KC,-KE 1253808 IVECO 5801287850, 5801441816 5801457339, 69503857 Toyota 28100-L210 VW 057 911 021, -X 059 911 021 B,-BX,-D,-DX,-M,-MX
	7 7230 1	Bosch MB Toyota	1 004 336 582,586,590,688, 790,794 1 004 338 159 001 151 58 14 28140-0L070	0 001 0DB 98E 0 001 109 262,263,265,266,271-274, 284,285,344,345,377,378, 393,394,399-402,413,414,417 F 000 AL0 111,128 F 004 A94 008,011 DW(R) 2.0 kW R78-M45,55 12V (R) BMW 12 41 7 794 953 12 41 7 799 414 Chrysler 04801848 AB,-AC 04801849 AB,-AC MB 000 906 13 00 006 151 01 01 006 151 53 01, -54 01, -56 01, -65 01 343 151 71 01 Rover NAD 5002 10 Toyota 28100-0L070 VW 062 911 023 , -X





	IKA-No.	Original	References	Unit-Nos.
	7 7231 1	Bosch MB Nissan VW	9 003 334 344,350 9 003 334 169 Kit 9 003 334 151*,157* 000 151 79 55* 000 151 86 55* 23306-D8700* 049 911 115 D* *with field coil limited stock	0 001 219 001-012,014,015,017,112 9 000 332 401,402,405,406 EV(R/L) 24V 2.5kW MB 003 151 93 01 003 151 94 01 004 151 31 01 006 151 66 01 461 906 22 00 Nissan 2300-D8700,-D870A VW 068 911 023 Q
	7 7233 1	Bosch	1 004 336 592,799	0 001 106 405,406 R70-S10 12V (R) BMW 12 41 7 540 897 12 41 7 552 105,697 12 41 7 582 309 PSA 5802 AR V7 540 89780 V7 552 10580
	7 7234 1	Bosch FIAT MB Opel VW	1 004 336 502,505,510,525, 526,534,547,608, 630,632,636,702, 703,711,718,723, 866 0 399 D77 008 773 638 13, 9949611 001 151 24 14 001 151 35 14 001 151 47 14 9199524, 93178218 03G 911 209 C 06B 911 209	0 001 107 401-405,407-411,415,417,418, 421-432,435-437,442,443,446, 447,450-453,456,463,464,474, 478,479,492-495,499-501,508, 509,521,522,525-528,534,535, 545 121 422,423,427,428,443,444 0 399 703 132,133 708 041,042,303,304 F 000 AL0 900 F 002 G20 485,594,669,917,939,962,996 F 002 G70 057,069 F 004 A94 000,001,410,418 DW(R) 12V 1,1 kw R70-M10,-15,-20,-25,-35 12V(R) RF70-M25 12V(R) BMW 12 41 7 521 116,123 12 41 7 526 636 12 41 7 594 292,843 12 41 7 610 341,343,348 FIAT 553 532 57, 717 398 64 Ford 2S6U-11000-CB,-DB 6G9N-11000-LA,-LB,-LC,-LD MB 005 151 34 01 Opel 1202110,1202281 93184533-4535,-6246 VW 06B 911 023C 06C 911 023,-X 06D 911 021B,-BX,-D 06D 911 023B 06E 911 021B,-BX 06H 911 021A,-AX






	IKA-No.	Original	References	Unit-Nos.
	7 7235 1	Bosch VW	1 004 336 571,627,781 068 911 209 L	0 001 110 136-139 R78-L35 12V (R) 068 911 024 F,-FX,-G,-GX
	7 7237 1	Bosch VW	1 004 336 538,569,570,625, 626,714,774,780 03G 911 209 A 059 911 209 C	0 001 109 064,065 125 053,054 RF78-M28 12V (R) R78-M28 12V (R) 03G 911 023,- A,-AX,X
	7 7238 1	Bosch VW	1 004 336 573,597,628,783 059 911 209 B	0 001 109 066,067 R78-M35 12V (R) 059 911 023 H,-HX
	7 7239 1	Bosch VW	1 004 336 576,656,785 02M 911 209 D	0 001 122 400-403 RF70-L25 12V (L) 02M 911 023 S,-SX 02Z 911 023 J,-JX Audi TT RS 2.5,-TFSI,-Coupe,-Cabrio,-quattro Skoda Superb 1.9 TDI,-Combi VW Jetta 1.6/2.5 New Beetle 2.5,-Cabriolet Polo Sedan 1.6 Touran 1.4 TSI EcoFuel
	7 7241 1	Bosch DAF Fendt IVECO KHD MAN MB Volvo	6 033 AD0 130,156,380,383, 471 6 033 AD4 016,026,054,161, 174,180,194,212 6 033 AD5 128,179,316,320 9 003 334 363 Stator Frame: 2 005 005 201 6 033 AD0 128,151,152,189, 473 6 033 AD4 064,093,094,098, 099,107-110,166, 177,199 6 033 AD5 111,153,154 1382557,1396690,1658737, 1676629,1686585,1780595, 1784352,1793874 F926 900 060 070 42546436,42560318 9972097,9978020 1319757,1319758,1319905 51 26 216 0003,0005, 0006 000 151 07 40,- 08 40,- 09 40,- 18 40 21477606,3099589	0 001 231 002,004-007,009,011-013, 016,023,026-030,033-036, 038-041,045,046,119,133,146 0 001 241 001,003,005-009,012, 014-016,018-021, 023,024,026,119,128 F 002 G20 786 EV(R) 24V 4.0 kW HE95-M 24V(R) HEF95-L 24V(R) DAF 1516660R, 1516694R, 1516696R, 1516786R, 1633811, 1725900, 1735788, 1739935, 1739936 IVECO 500325317,504036695 KHD 118 0999,-1101,-2235 MAN 51 26201 7157,-7183,-7193, 51 26201 7213,-7222,-7223, 51 26201 7228,-7239,-7512 MB 004 151 84 01 005 151 20 01 007 151 02 01 Renault 50 10 306 413, 50 10 508 443 Scania 1447911
			brush set: BSX 216-217	
			Replacement for old model 7 7199 1 Replacement for 7 7242 1	

IKA-No.	Original	References	Unit-Nos.
	7 7243 1	<p>Bosch</p> <p>6 033 AD0 166,370,374 6 033 AD3 022,042,058,187 6 033 AD3 262,267,290-292, 6 033 AD3 327-329 Stator Frame: 6 033 AD0 167,270,244 6 033 AD3 043,132-134, 6 033 AD3 149-151,191-193, 6 033 AD3 281,283</p> <p>John Deere</p> <p>RE 50 191 0 RE 50 881 5, RE 50 881 8</p> <p>Fendt IVECO KHD MB</p> <p>Renault</p> <p>brush set: BSX 224-225</p> <p>Replacement for old model 7 7210 1</p>	<p>0 001 230 001-010,012,014,018, 020-024,026,030</p> <p>F 002 G20 785 EV(R) 12V 3.0 kW HE95-M 12V(R) FIAT 47132888 John Deere AL 81 154 RE 50 081 9, RE 50 155 1, RE 50 322 6, RE 50 658 9 , RE 50 794 3 IVECO 4755109,500325146,500338952, 500389864,504031929,504036476, 504 059251,504108451 KHD 118 0928, -1570, -1976, -2179, 118 2233, -2388 MB 004 151 93 01 006 151 23 03 Renault 50 10 306 412 SAME 29619390 VW 07Z 911 023 A, -BX, -G IVECO TL 70,80,90,100 4.0 I Vertis 90V16,130V18 Renault JE 9,-11,-13,-15 210,260 Midlum 5.5/6.2 I VW Phaeton 5.0 TDI 4Motion Touareg 5.0 TDI</p>
	7 7245 1	<p>Bosch</p> <p>2 004 336 091,092,111,112 115,116,125,126,137 6 033 AD0 384 6 033 AD6 098 6 033 AD6 004 Kit Volvo 874354</p> <p>replacement for 7 7246 1 brush set: BSX 202-203</p>	<p>0 001 330 004-008,011-014,017,018, 020,047,048,050,057,060, 065-072,502,509-513,515</p> <p>33A F11 33E 706,707 33F 407,408,411,412,707,708, 713,714,805 33G H01 340 510 34F 203,204,503,505,508,704 0 399 B50 306,307 GVB(R) 24V 6.0 kW HEF109-M,-MP 24V(R) HEP109-MP 24V(R) Caterpillar 327-2771, 333-2082,-2083 389-5796,-5799,-5833 436-9103,-9104, 441-5927 IVECO 5802048706 KHD 0 118 1681 Komatsu 600-813-7152,-7542 Liebherr 10219978, 11386644-646 MB 005 151 64 01 006 151 00 01,-15 01,-69 01 007 151 04 01 Renault 50 01 854 179, 50 10 306 701 Scania 1447912 Volvo Penta 3595446,3827444 MB Actros,Antos,Axor,Citaro,Conecto Integro,Intouro O 530, O 580 Travego,Touro,Tourismo Renault 390/430/470 AE Magnum Volvo FH 16 540,-550,-580,-610,-660 FH 540,-600,-700,-750</p>
			

	IKA-No.	Original	References	Unit-Nos.
	7 7280 1	Bosch VW	1 004 336 453,514,867,891 03G 911 209 L,-N,-Q limited stock alternative product 7 7823 1	
	7 7281 1	Bosch Chrysler Porsche	1 004 336 434,451,828,980 limited stock alternative product 7 7801 1	0 001 107 031,032 0 001 121 003 DB(R) 1.1 kW 04557 466 04672108AB 986 604 104 00 Boxster 2.5 1996-1999 Boxster 2.7/3.2 S 1999-2004
	7 7285 1	Bosch MB	1 004 336 564,633,768 001 151 57 14	0 001 108 403,404,409,410,441,442 DW(R) 1.4 kW R70-L25,-L35 12V(R) 006 151 05 01 006 151 37 01 948 604 208 00
	7 7286 1	Bosch	1 004 336 588,796	0 001 115 035 R74-E25,-35 12V(R) Lombardini 5840 224 0
	7 7288 1	Bosch FIAT MB VW	1 004 336 518,532,548,575,594, 599,601,618,654,709, 725,726,872,894 1 004 338 163 F 002 G20 430 773 641 02 773 642 66 776 676 26 001 151 36 14 02B 911 209 E Replacement for: 7 7228 1	0 001 109 057,058,068,202,203,205,250, 258-261,288-290,302-305,313, 319,320,324,325,328,329,334, 335,387,388,391,392,409,410, 427-430 0 001 110 071,072 0 001 125 055,056,519-522,607-610,621,622 625,626 6 004 AA3 014 F 000 AL0 115,130,133,135-142,154 F 002 G20 292,359,385,618,622,795 F 004 A94 002 DB/DW(R) 12V 1.7-2.2 kw R78-M10,M28,-M45,-M55 12V (R) RF78-M10,28,45 12V(R) RF78-S28 12V (R) BMW 12 41 1 729 981,982 12 41 4 457 944 12 41 7 508 634-637 12 41 7 515 784,785 12 41 7 537 490,491,513-515 12 41 7 610 346,347,353,354 FIAT 519 843 58 IVECO 5801440013 John Deere RE 50 892 2 MB 005 151 13 01 005 151 66 01 Opel 93176034

	IKA-No.	Original	References	Unit-Nos.
	7 7290 1	Bosch VW	1 004 336 520,557,650, 758,897 02M 911 209	0 001 115 042 123 012-015,018-021, 026-029,038,039 DB(L) 1.7 kW R74-E20 12V(L) RF74-E25,-E45 12V(L) VW Overload Protection Starters 02M 911 023 P,-PX 02M 911 024, -X 02N 911 023 N 02T 911 024,-X 02Z 911 023 F,-FX,-L, -LX,-N,-NX 0AH 911 023 B,-BX
	7 7291 1	Bosch FIAT Suzuki Toyota	1 004 336 609,645 1 004 337 153 77365287 31173-86L00 28140-0X040 with 4 brushes field coil connector 40 mm new model with 6 brushes see 7 7549 1	0 001 138 005,006,011,012,029,030, 037-040,043,044,049,050, 063,064 DW(R) 1.7 kW S74-L 12V(R) Start/Stop Starters 1st Serie 12 41 7 610 342,349 12 41 7 626 546,547 12 41 7 802 945 12 41 7 803 514 12 41 7 812 070 12 41 7 823 314,315 51810307,55226844 BS51-11000-BA, 1726350 1202203,55570445 31100-86L00-000 28100-0X040 Alfa MiTo 1.3 JTD,-JTDM FIAT Cinquecento 1.3 MJTD Punto Evo 1.3 JTD Ford Ka 1.3 TDCi Lancia Musa 1.3 Multijet Ypsilon 1.3 Multijet 16V Mini Cooper D,-Cabrio,-Clubman,-Clubvan - Countryman/Paceman,-ALL4 Mini Cooper SD,-Cabrio,-Clubman,-Countryman,-Coupe -Paceman,-ALL4,-Roadster Mini One D, -Clubman,-Countryman Opel Astra/Corsa 1.3 CDTI Suzuki Swift 1.3 DDiS Diesel Turbo Hatchback Diesel models 2009-2015
	7 7292 1	Bosch	1 004 336 614,648 1 004 337 154 with 4 brushes field coil connector 60 mm new model with 6 brushes see 7 7549 1	0 001 138 003,004,047,048,053,054 DW(R) 1.7 kW S74-L 12V(R) Mini Start/Stop Starters 1st Serie BMW 12 41 7 552 697 12 41 7 567 788 12 41 7 589 354,355 12 41 7 616 689,698 12 41 7 617 216 12 41 7 631 025,054 Mini Cooper,-Cabrio,-Clubman,-Clubvan -Countryman,-ALL4,-Coupe -Paceman,-ALL4,-Roadster Mini Cooper S,-Cabrio,-Clubman,-Countryman -Coupe,-Paceman,-ALL4 -Roadster Mini One, -Cabrio,-Clubman,-Clubvan -Countryman John Cooper Works,-Cabrio,-Clubman -Countryman,-ALL4,-Coupe,-GP -Paceman ALL4,-Roadster Gasoline models 2009-2015

	IKA-No.	Original	References	Unit-Nos.
	7 7293 1	Bosch FIAT MB	1 004 336 511,536,712,727,888 9949601 001 151 54 14	0 001 108 157,190,196,202,204, 208,209,211,212,217, 218,224,230,231,234-236, 239,240,245,247, 460-463 F 026 T02 002 DW(R) 12V 1.4/1.8 kW R74-L40,45,55 F 026 T02 002 12 41 7 501 668,-738 12 41 7 505 979 12 41 7 525 293,-294 12 41 7 536 690,-691 12 41 7 537 513,514 12 41 7 610 344,345,351 46823543, 46830212 51782321, 51832954 55192482, 55195211 60817002 000 151 02 01 005 151 74 01 93175890
	7 7314 1	Bosch Kit	1 001 329 900 1 004 336 025,028,029,034, 055 with additional positive brushes 2 x BS 75	0 001 208 200-202,204,216-218, 224,229,233,403,404, 411,412,416,419, 425-429 211 200-208,210,215, 218-225,233-236,239, 242-249,251,253,254, 257,258,992,993,997 212 199,202-214,400-403 EB(L) 12V 08./0.95 kW EB(R) 12V 0.7/00.8/0.95 kW EF(L) 12V 0.7/0.8/0.95 kW EF(R) 12V 0.8/0.85 kW
	7 7315 1	Bosch Kit	2 004 336 027,041,099 with additional positive brushes 2 x BS 139	0 001 362 034-043,045-053,057-64 069-079,081,083-86 088-097,100,102-105 300-314,316-319, 321-332,600-607,700-705 0 001 366 001-006,008-022,024-029 9 000 143 203,204,408,411,413,414,420 IF/JF(L) 12V 1.9/2.4 kW IF/JF(R) 12V 1.9-2.7kW
	7 7316 1	Bosch Kit	2 004 336 027,041,099 with additional positive brushes 2 x BS 143	0 001 362 034-043,045-053,057-64 069-079,081,083-86 088-097,100,102-105 300-314,316-319, 321-332,600-607,700-705 0 001 366 001-006,008-022,024-029 9 000 143 203,204,408,411,413, 9 000 143 414,420 IF/JF(L) 12V 1.9/2.4 kW IF/JF(R) 12V 1.9-2.7kW

IKA-No.	Original	References	Unit-Nos.
7 7317 1	Bosch	1 004 336 009,027,033,036, 1 004 336 040,046,057 1 007 010 027	0 001 207 003,005,009,015,018 0 001 208 006, 007 214 002 215 001 311 024,030,031,047,050-052,054-056, 100,103,107,108,110,111,113,115, 120,123,124,126,130,138,139,146, 147,149, 312 101-111 313 006 314 005,006,009-015,017,018,024-029, 032,034,036-038,042,043,045-049 315 005 EF(L/R) 6 V 0,5 kW EF(L/R) 12V 0.8 kW GB(L/R) 12V 1.5 kW GF(L/R) 12V 1.0-1.6 kW
	Kit	with additional positive brushes 2 x BS 104 replacement for 7 7318 1	
7 7319 1	Bosch	2 004 336 028,044,067	0 001 367 001-018,020-025,027-032 034-039,041-048,050-052 054-059,061-068,070-072 074-079,081-082,300-303 0 001 369 001-006,012-018,020-024 9 000 143 410,412,415,416,419 IF/JF(R) 12V 3.0/3.1 kW
	Kit	with additional positive brushes 2 x BS 164	
7 7320 1	Bosch	2 004 336 031,046	0 001 368 001,002,004-007,009, 010,012-014,016,018-022 024,027-031,034-041 047,049,050,052,055-060 062,063,068-073,076,077 077,079,081,082,085,086 088,300,301,303,305-307 309-313,315-317,319-321 9 000 143 600-604 IF/JF(R) 24V 4.0 kW
	Kit	with additional positive brushes 2 x BS 145	
7 7337 1	Bosch	2 004 336 085,087	0 001 372 001,004 IE/JE(R) 24V 6.2 kW
	Kit	with additional positive brushes 2 x BS 171	
7 7338 1	Bosch	2 004 336 066,086	0 001 364 300,301,400,402 0 001 372 002,003,005-008 ID(R) 24V 4.8 kW IF(R) 24V 5.2 kW IE(R) 24V 6.2 kW
	Kit	with additional positive brushes 2 x BS 171	

IKA-No.	Original	References	Unit-Nos.
7 7501 1	Bosch	2 004 336 093,110,113,114,117, 2 004 336 127,128,259 with thermo protection Brush Set BSX 202-203	0 001 330 016,501 33E 101 33F 102 0 001 340 501-505 34B B01,H01 34F 705,801,802 HEF109-M,MP 24V(R) 6.0 kw HEP109-M,MP 24V(R) 8.4 kw Komatsu 600-813-7542 JW 460867,482541,587989 Liebherr 101 205 41,104 54 907 371 105 567,471 103 467 MTU X52 417 200 001
7 7504 1	Bosch	1 004 336 513,522,553,584, 591,663,677,678, 754,792,798,876, 890,899	0 001 115 008,021,025,040,041, 045-048,078-081,114,115 0 001 123 002,003,024,025 DB(R) 12V 1.7 kW RF74-E25,E35 12V (R) Overload Protection Starters BMW 12 41 7 794 952 FIAT 51832949, 51984357 551 9521 10 MB 006 151 16 01,- 25 01 006 151 74 01 Porsche 955 604 107 00,-010,-011 VW 012 911 023 E,-F,G,-GX,-H,-HX FIAT Ducato MB A160/170 <2004 C 200/220 CDI VW Touareg 3.6 FSI
7 7505 1	Bosch VW	1 004 336 640,664 057 911 209 H	0 001 115 056,057,082-085, 103-105,110,111 R74-E35,45 12V (R) VW Overload Protection Starters 03L 911 021,-C,-CX,-F,-FX,-H,-HX,-X 3R0 911 023 A,-B Audi A4 2.0 TDI,-Avant,-Avant quattro,-quattro A4 2.0i TFSI A4 Allroad 2.0 TDI A5 2.0 TDI Cabriolet,-quattro,-Coupe,-quattro A5 2.0 TDI Sportback,-quattro A6 2.0 TDI,-Avant A8 6.3 FSI quattro Q5 2.0 TDI,-quattro Q5 2.0 TFSI quattro
7 7506 1	Bosch MB	1 004 336 589,598,604,606,641, 1 004 336 669 001 151 56 14 001 151 63 14 Replacement for 7 7516 1	0 001 115 005,006,049-054,070-077, 088,089,092,093,096-101, 106-109 R74-E25,35 12V (R) Overload Protection Starters 04801516AA 9675092580 AC1T-11000-AA CC1T-11000-AA,-AB 1740947, 1741087 000 906 02 02,- 24 02 005 151 01 01 006 151 41 01,-44 01,-61 01,-62 01 006 151 74 01,-75 01,-98 01,-99 01 112 151 00 01 636 151 02 01,-02 02 906 906 11 00 96 705 92580 Chrysler 300C 3.0 CRD,-Touring Jeep Commander 3.0 CRD 4x4 Ford Transit Custom FT 25,-27,-29,-30,-31,-33 2.2 TDCi Euroline 2.2 TDCi FT 260,-280,-300,-310,-330,-350 2.2TDCi FT 370,-410,-430,-460,-470 2.2 TDCi FT 370,-410,-430,-460,-470 2.2 TDCi Nugget/Tourneo 2.2 TDCi MB C,-CL,-CLK,-CLS-E,-G,-GL,-ML,-R,-S,-SL,-SLR

IKA-No.	Original	References	Unit-Nos.
			BlueTec,-Cabrio,-Coupe,-Roadster,-T-model Sprinter 209,211,213,215,218,219 CDI 309,311,313,315,318,319 CDI 411,415,418,419,509,511,515,518,519 Viano CDI 3.0 Vito 120, 122 CDI



7 7507 1	Bosch	2 004 336 095,100,123 0399 D57 009 Stator Frame: 2 007 010 173,174,183* 1954639* Kit	0 001 261 001-008,011-014,016-018, 020-037,041,044-047, 049-055,059,060-062, 069-072
	DAF		0 001 263 001-004,007-020,047-054, 501-506
		Brush Set BSX 241-242	0 399 504 001-003,005-007,011-013, 016,017,026-029 HX95-M 24V (R) HXF95-L 24V (R) Overload Protection Starters DAF 1704911,1826120,1826121, 1843852,1854008,1866891, 1867369,1956090-6092 2015153,2015154 IVECO 504385577,5801986196 Leyland AELF405 MB 006 151 22 01 Renault 74 20 723 977 Scania 0579261,1796026, 2031368,2148650,2276131



7 7508 1	Bosch Toyota	1 004 336 583,634,791 28140-0D130	0 001 107 433,434,440,441,448,449, 514,529-531 9 001 107 434 F 004 A94 434,441,449 R70-M25 12V (R) 28100-0D030 28100-0N010 28100-0T030,-C 28100-0T090,-091 Toyota Auris,Avensis,Corolla,Verso,Yaris 1.4-2.0 I
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7 7509 1	Bosch FIAT PSA	1 004 336 530,631,707 773 632 37 5825 F5	0 001 108 400,411,412,444 R70-L25,35 12V (R) Ford 6G9N-11000-CC,-CD Opel 93169309 PSA 5802 W5 96 253 825 96 481 11680 Citroen,FIAT,Lancia,Peugeot,Volvo
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IKA-No.	Original	References	Unit-Nos.
7 7511 1	Bosch FIAT	1 004 336 529,587,795,797 773 654 50 773 639 14	0 001 107 108-113 R74-M40,60 12V(R) FIAT 51776205,51832956 Opel 55351638,93176061 Astra,Zafira 2.0(i) Turbo
7 7514 1	Bosch VW	1 004 336 572,782 078 911 209 B	0 001 108 220,221 DW(R) 12V 1.4 kW R74-L45 12V (R) 078 911 023 D Audi,Skoda,VW
7 7515 1	Bosch MB	1 004 336 566,638,770 001 151 42 14	0 001 108 213,214,222,223 R74-L45 12V (R) 006 151 06 01 006 151 10 01
7 7517 1	Bosch VW	1 004 336 535,560,662, 724,761 03G 911 209 D	0 001 115 031,032 R74-E25 12V (R) Overload Protection Starters VW 07C 911 023 E, -EX Phaeton 6.0 4Motion
7 7518 1	Bosch Opel	1 004 336 395,585,721,793,874 9198650	0 001 115 015,020,039 DW(R) 12V 1.7 kw R74-E25 12V (R) Opel 9007007,9200890 93172020 Signum 3.2 V6 <2005 Vectra 2.6 V6,-Caravan <2005 3.2i,-Caravan,-GTS




IKA-No.	Original	References	Unit-Nos.
7 7519 1	Bosch	1 004 336 577,786	0 001 107 107 R74-M20 12V (L) Lombardini 5840 218 0
7 7520 1	Bosch	1 004 336 517,556,581,603,611, 623,666,757,895 FIAT Suzuki VW	0 001 109 267-270,306,307,321,322, 330,331,336,337,342,343, 1 004 338 157 776 637 04 31173-79J00 31173-T79J0 03G 911 209 K 070 911 209 R78-M45,55 12V (R) IVECO 504201467 69502571 Porsche 948 604 106 00 VW 070 911 023 B,-BX
7 7522 1	Bosch MB	1 004 336 658 1 004 337 173 001 151 65 14	0 001 122 201,202 DB 006 151 63 01 RF74-L65 24V (R) 1.4 kw MB G 300 CDI
7 7523 1	Bosch MB Toyota	1 004 336 580,600,607,789 0 399 D77 021 001 151 64 14 28140-0Q020	0 001 107 406,438,439,459-462,538-540 0 399 708 098,099 DW(R) 12V 1.1 kw R70-M10,-M35,-M45 12V(R) 006 151 39 01 006 151 59 01 006 151 60 01 636 151 03 01 28100-0Q021 MB C 230-C 350, CL 500 Coupe CLK 280/350/500 Cabrio,-Coupe E 250 - E350, E500,-Cabrio,-Coupe GLK 280/300/350 4Matic S 280 - S 500 SL 280 - 500, SLK 280 - 350 Toyota Aygo 1.0

IKA-No.	Original	References	Unit-Nos.
7 7529 1	Bosch MB	1 004 336 612,649 1 004 337 145 001 151 67 14	0 001 139 001,002,005,006,011-016, 025,026,047,048,067,068, 083,084 0 399 703 044,045 F 000 AL0 160 F 002 G20 862 F 002 G70 013 S78-M 12V(R) 2.2 kw S78-M10,-45,-55 12V(R) Start/Stop Starters BMW 12 41 7 798 006 12 41 7 812 034,070 12 41 7 823 700,701 Chrysler 04801871AB MB 646 906 00 00 Ferrari 243595, 248743,297969 FIAT 51810267 Ford EC35-11001-BA Porsche 948 604 210 00
7 7530 1	Bosch	1 004 336 672 new model: 7 7548 1	0 001 115 068,069 R74-E35 12V(R) BMW 12 41 7 801 203 12 41 7 811 601 12 41 8 511 746 12 41 8 519 153 12 41 8 570 382 116 d 118 d,-Cabrio,-Coupe 120 d,-Cabrio,-Coupe 123 d,-Cabrio,-Coupe 316 d 318 d,-Touring 320 d,-Cabrio,-Coupe,-xDrive,-Touring,-xDrive 320 d xDrive 330 d,-Cabrio,-Coupe,-Touring 330 d xDrive 520 d,-Touring 530 d GT 730 d,-Ld 740 d X1 sDrive 18 d/20 d/23 d X3 2.0 d X3 xDrive 18 d/ 20d X5 xDrive 30 d/ 40 d X6 xDrive 30 d/ 40 d Diesel models 2007-2014
7 7531 1	Bosch Toyota	F 000 AL1 934 28130-0C060 28140-0C060	F 000 AL0 110 F 004 A94 007 R74-L75 12V (R) 28100-0C060 Toyota Fortuner 2.7i 4WD Hilux 2.5 16V DTurbo Hilux 2.7 16V,-4x4 Hilux Vigo 2.7 4WD




IKA-No.	Original	References	Unit-Nos.
7 7533 1	Bosch	2 004 336 090,094,096,097 2 007 010 157 Kit 2 007 010 158 Kit 2 007 010 175 Kit 2 007 010 184 Kit Brush Set: BSX 222-223 replacement for 7 7244 1 and 7 7503 1	0 001 260 001-004,025,026 262 001-008,019-022,029-034 HX95-L,-M 12V(R) 4.0 kw John Deere RE 52 637 5 RE 52 740 0 IVECO 504357109,110 5801441814 MB 006 151 23 01 SAME 29619562 VW 05A 911 023,-B,-C
			
7 7534 1	Bosch VW	1 004 336 699 059 911 209 F	0 001 139 017-020,075,076 S78-M 12V(R) VW 059 911 021 F,-FX 03L 911 021 E,-EX,-G,-GX Audi Start/Stop Overload Protection Starters A4 2.0 TDI,-Avant,-quattro A4 Allroad 2.0 TDI A5 2.0 TDI Cabriolet,-Coupe,-quattro,-Sportback A6 2.0 TDI,-Avant Q5 2.0 TDI quattro
			
7 7536 1	Bosch FIAT Suzuki	1 004 336 674,695 1 004 337 156,160 773 651 21 31173-T62MA0-000 31173-62MA0-00	0 001 136 002,003,005-008 137 001-006,011,012 138 001,002,009,010,017-020,045,046, 051,052,055,056,069-072 S74-L/M/S 12V(R) Start/Stop Overload Protection Starters BMW 12 41 7 550 975 12 41 7 567 788 12 41 7 589 350,352-356 610 342,349 FIAT 518 047 44, 518 103 08, 518 293 80, 518 739 26 Ford BS51-11000-AA, 1715776 Hyundai 36100-2B300-302 Nissan 23300-1073R,-7223R Opel 55572440 Renault 23 30 010 73R 23 30 059 51R 23 30 061 24R Suzuki 31100-62MA0 VW 06E 911 021 D,-DX,-F,-FX Alfa Giulietta 1.4 TB,-JTDM MiTo 0.9 ie,- 1.4,-1.6 JTD Audi A4 3.0 FSI Cabriolet quattro A4 3.0 TFSI Avant quattro,-quattro A5 3.0 TFSI Cabriolet,-Coupe quattro, Sportback,-quattro A6 2.8 FSI,-Avant,-Avant quattro,-quattro A6 3.0 TFSI Avant quattro,-quattro A6 Allroad 3.0 TFSI A7 2.8 FSI Sportback A7 3.0 TFSI Avant quattro,-Sportback quattro A8 3.0 TFSI quattro Q5 3.0 TFSI quattro S4 3.0 TFSI Avant quattro,-quattro S5 3.0 TFSI Cabriolet,-Coupe quattro, Sportback quattro SQ5 3.0 TFSI quattro BMW 116i,-118i,-Cabrio,-120i,-Cabrio 316i,-Coipe,-Touring 318i,-Cabrio,-Coupe,-Touring 320i,-Cabrio,-Coupe,-Touring Chevrolet Aveo 1.2/1.4 -Hatchback Cruze 1.4,-Turbo,-Station Wagon Orlando 1.4 Turbo Trax 1.4 Turbo AWD FIAT Bravo1.4, Doblo1.4/1.6 Multijet Doblo Cargo 1.6 Multijet Grande Punto 1.2/1.4 Idea 1.4,Panda 0.9,Punto 0.9/1.4 Panda 0.9,-4x4,-Natural Power Punto 0.9 TwinAir Punto Evo 1.6 Multijet 500 0.9/1.2/1.4/1.6 Multijet,-TwinAir
			

IKA-No.	Original	References	Unit-Nos.
			500C 0.9 TwinAir 500L 0.9,-Natural Power 500L/500X 1.6 Multijet Hyundai i20 1.4, i30 1.4/ 1.6, i40 1.6 ix20 1.4/1.6, ix35 1.6 GDI Veloster 1.6 GDI Jeep Renegade 1.6 Multijet KIA Cee'd 1.4/1.6,-Sporty Wagon Pro Cee'd 1.4/1.6 Rio 1.4,- Hatchback Soul 1.6 GDI, -CVVT Sportage 1.6 GDI Venga 1.4/1.6 Lancia Musa 1.6 Multijet Ypsilon 0.9,-Natural Power Opel Adam 1.2, 1.4,-LPG Astra 1.4 GTC,-Turbo GTDC,-Limousine 1.4i,-Turbo,-Sports Tourer Cascada 1.4 Turbo Combo 1.6 Corsa 1.2 Twinport, 1.4 Twinport,-Turbo Insignia 1.4 Turbo Meriva 1.4 Ecotec,-ecoFLEX,-Turbo Mokka 1.4 Turbo ecoFLEX,-4x4 Zafira 1.4 Turbo Renault Captur 1.5 dCi Clio IV 1.5 dCi,-Grandtour Suzuki SX4 S-Cross 1.6 DDiS,-4WD
7 7537 1	Bosch VW	1 004 337 006,077,161 03G 911 209 E	0 001 153 001,002,005-010,015,016 SF74-E+ 12V(L) VW 02E 911 024 C,-CX 02M 911 021 A,-AX 02M 911 024 C,-CX 02Z 911 024 H,-HX 07M 911 024 A 0AM 911 023 G,-GX VW-Family Start/Stop Starters Audi A1 1.6/2.0 TDI,-Sportback A3 1.6/2.0 TDI,-Cabrio,-Sportback,-quattro Q3 2.0 TDI,-quattro SEAT Alhambra 2.0 TDI,-4Drive Altea 1.6/2.0 TDI,-Freetrack,-XL 1.6 TDI Ibiza/SC /ST 1.2/1.4/1.6/2.0 TDI Leon 1.6/2.0 TDI,SC/ST 1.6 TDI Leon Cupra /WST Cupra 2.0 TSI Toledo 1.6 TDI, 1.4 TSI >05/2015 Skoda Fabia 1.2/1.4/1.6 TDI,-Combi Octavia 1.2 TSI,-1.6 TDI,-Combi,-4x4 Praktik 1.2/1.6 TDI,-Combi Rapid 1.6 TDI,-Spaceback Roomster 1.2/1.6 TDI Superb 1.4 TSI,-Combi, 2.0 TSI Superb 1.6/2.0 TDI,-Combi,-4x4 Superb 3.6 V6 4x4,-Combi Yeti 1.6/2.0 TDI VW Beetle 1.6/2.0 TDI,-Cabrio Caddy 1.6/2.0 TDI,-4Motion California T5/T6 2.0TD Caravelle T5/T6 2.0 TDI Crafter 30/35/50 2.0 TDI >2016 CC 2.0 TDI,-4Motion Eos 2.0 TDI Golf Plus 1.6/2.0 TDI Golf VI 1.6/2.0 TDI,-Cabrio,Variant,-4Motion Jetta 1.2 TSI, 1.6 TDI Multivan T5/T6 2.0 TDI Passat 1.6/2.0 TDI,-CC,-4Motion,-Variant,-Alltrack Polo 1.2/1.6 TDI Scirocco 2.0 TDI Sharan 2.0 TDI,-4Motion Tiguan 2.0 TDI/TSI,-4Motion Touran 1.6/2.0 TDI Transporter T5/T6 2.0 T,- TDI,-4Motion latest models



	IKA-No.	Original	References	Unit-Nos.
	7 7538 1	Bosch	1 004 336 681	0 001 145 001,002 SF78-M 12V (L) VW 02Z 911 023 S,-SX 2X0 911 023 Audi Start/Stop Overload Protection Starters A1 1.6 TDI,-Sportback >05/2010 A3 1.6 TDI,-Cabriolet,-Sportback >05/2009
	7 7539 1	Bosch	1 004 337 013,029,042	0 001 148 003,004,009,010, 015,016,023,024 S74-E+ 12V(R) Start/Stop Starters BMW 12 41 7 838 020 12 41 7 843 526,530 12 41 8 506 657 12 41 8 509 198 12 41 8 515 795 12 41 8 519 154 12 41 8 570 383 GM 55572065 Opel 1202216 BMW 116d (2009-2011) /118d,-Cabrio,-Coupe (2007-2013) 120d/123d,-Cabrio,-Coupe (2007-2013) 316d,-Touring (2009-2012) /318d,-Touring (2007-2012) 320d,-Cabrio,-Coupe,-xDrive,-EfficientDynamics 320d Touring,-EfficientDynamics,-xDrive (2007-2013) 325d,-Cabrio,-Coupe,-Touring (2010-2013) 330d,-Cabrio,-Coupe,-Touring,-xDrive (2008-2013) 520d,-EfficientDynamics,-GT,-Touring >2010 525d,-Touring,-xDrive >2010 530d,-GT,-xDrive,-Touring (2010-2012) 535d,-GT,-xDrive,-Touring (2010-2012) 730d,-Ld (2008-2012) 740d,-xDrive (2009-2012) M3 Cabrio,-Coupe X1 sDrive 16d,-18d,-20d,-EfficientDynamics X1 xDrive 18d,-20d,-23d,-25d (2009-2015) X3 sDrive 18d (2012-2014) X3 xDrive 18d,-20d,-30d (2008-2011) Chevrolet Malibu 2.0 CDRi Opel Astra 2.0 CDTI,-Sports Tourer >2009 Astra 2.0 GTC >2011 Cascada 2.0 CDTI >2013 Insignia 2.0 CDTI,-4x4,-Sports Tourer,-4x4 >2009 Zafira 2.0 CDTI >2012
	7 7540 1	Bosch VW	1 004 337 012 03G 911 209 H	0 001 142 001-004 0 399 703 051,052 SF74-L 12V(L) VW Start/Stop Starters VW 02T 911 024 J,-JX 02Z 911 023 R,-RX Audi A1 1.2 TFSI A1 1.4 TFSI,-Sportback A3 1.2/1.4 TFSI,-Cabriolet,-Sportback SEAT Altea 1.4 TSI,-XL 1.4 TSI Altea Freetrack 1.4 TSI Ibiza 1.2 TSI,-SC 1.2 TSI,-ST 1.2 TSI Leon 1.4/1.8 TSI >11/2007 Toledo 1.2 TSI Skoda Fabia 1.2,-Combi Praktik 1.2,- TSI Rapid 1.2 TSI,-Spaceback Roomster 1.2 TSI Superb 1.4 TSI,-Combi >04/2008 Yeti 1.4 TSI >06/2010 VW Eos 1.4 TSI Golf VI 1.4 TSI >10/2008 Passat 1.4 TSI,-EcoFuel,-Variant Passat 2.0 TDI,-Variant Polo 1.2,-TSI >06/2009 Scirocco 1.4 TSI

IKA-No.	Original	References	Unit-Nos.
7 7541 1	Bosch VW	1 004 337 019 03G 911 209 J	0 001 139 041,042,073,074 S78-M 12V(R) 2.2 kw VW 059 911 021 G,-GX,-K,-KX Start/Stop Overload Protection Starters A4 3.0 TDI Avant quattro,-quattro A4 Allroad 3.0 TDI A5 3.0 TDI Cabrio,-Coupe,-Coupe quattro A5 3.0 TDI Sportback,-quattro A6 3.0 TDI,-Avant,-Avant quattro,-quattro A6 Allroad 3.0 TDI A7 3.0 TDI Sportback,-quattro A8 3.0 TDI quattro Q5 3.0 TDI quattro SQ5 3.0 TDI quattro models >2012 Porsche Macan 3.0 Diesel S >2014
7 7542 1	Bosch MB VW	1 004 336 565,595,602,615, 657,769 1 004 337 022,140,150 001 151 41 14 057 911 209 J 06E 911 209 replacement for 7 7236 1 and 7 7510 1	0 001 108 405,406,408,415,416, 428-431,445,446,466,467 F 000 AL0 901 R70-L25 12V(R) Overload Protection Starters Ford 4M5T-11000-CA,-CB 1344589,1570611 MB 906 906 00 26 Porsche 9586 041 110 00 Renault 82 00 741 476 VW 06E 911 023 B,-BX,-C,-CX, 06E 911 023 E,-EX,-F 079 911 021 B,-BX,-C,D,-DX,-G Audi A4,A6,A8 3.2 FSI >2005 A7,A8,Q7,RS,S 3.0/4.0/4.2 TFSI Ford Focus 1.6i,-Ti,-Ti-VCT >12/2007 Porsche Cayenne 3.0 S
7 7543 1	Bosch	1 004 336 698	0 001 138 013,014,067,068 S74-L 12V(R) VW 06H 911 021,-X,-D,-DX Audi Start/Stop Starters A4 1.8 TFSI,-Avant A4 2.0 TFSI Avant,Avant-quattro,-quattro A4 2.0 TFSI Avant flexible,-flexible A4 Allroad 2.0 TFSI A5 2.0 TFSI Cabrio,-Coupe,-Sportback,-quattro Q5 2.0 TFSI quattro Porsche Macan 2.0 >09/2014
7 7544 1	Bosch MB	1 004 337 002 001 151 71 14	0 001 139 029,030,071,072,408,409 S78-M 12V (R) MB 000 906 23 02 651 906 00 00 651 906 31 00 MB Start/Stop Starters Sprinter, Viano, Vito 2.0 CDI

	IKA-No.	Original	References	Unit-Nos.
	7 7545 1	Bosch	1 004 337 005	0 001 139 021,022,037,038 S78-M 12V (R) Porsche Start/Stop Starters 986 604 210 01 986 604 214 00 Cayenne 4.8 GTS,-S,-Turbo,-Turbo S Panamera 3.0 Hybrid,-S,-S4,-S Executive 4 3.6 , 3.6 4 4.8 S,-4S,-GTS,-Turbo,-S
	7 7546 1	Bosch	1 004 337 034,047,050,144 limited stock alternative product 7 7541 1	0 001 139 045,046,049,050,053,054 S78-M 12V(R) VW 059 911 021 H,-HX,-J,-JX 07L 911 021,-X Audi Overload Protection Start/Stop Starters A8 6.3 FSI quattro >2011
	7 7547 1	Bosch FIAT VW	1 004 338 102,147,176,182 0 399 D77 102 773 673 53 773 673 54 03G 911 205	0 001 177 000-017,400,401 S/CF70-M 12V(L) FIAT 519 402 40 FIAT 519 756 78 VW 02E 911 024 N,-NX 02M 911 021H,-HX 02M 911 024R,-RX 02Z 911 024F,-FX 0AH 911 023H,-HX Audi A1 1.4 TFSI,-Sportback >11/2014 A3 1.2 TFSI,-Limousine,-Sportback >2013/2014 A3 1.4 TFSI,-Cabriolet,-Limousine,-Sportback A3 1.8 TFSI,-Cabriolet,-Limousine,-Sportback,-quattro Q3 1.4 TFSI >2014 S3 2.0 TFSI Limousine,-Sportback,-quattro >2013 FIAT 500X 1.6 E-torQ > 11/2014 Jeep Renegade 1.6 E-torQ > 07/2014 SEAT Ibiza 1.0/1.2 TSI >05/2015 Ibiza SC 1.0/1.2 TSI, -ST 1.0/1.2 >2015 Leon 1.2/1.4/1.8 TSI,- 1.6 TDI >2013 Leon Cupra 2.0 TSI >10/2013 Leon SC 1.2/1.4/1.8 TSI,- 1.6 TDI >2013 Leon SC Cupra 2.0 TS >2014 Leon ST 1.2/1.4/1.8 TSI,- 1.6 TDI >2013 Leon ST Cupra 2.0 TS >2014 Mii 1.0 >10/2011 Toledo 1.2 TSI, -1.6 >05/2015 Skoda Citigo 1.0,-G-Tec > 10/2011 Fabia 1.0 MPI,-Combi, 1.6 MPI >2014 Octavia 1.2/1.4/1.6 TSI,-Combi >2012 Octavia 1.6,-Combi >2014 Rapid 1.4/1.6 i >2012 Superb 1.2/1.6 TSI,-Spaceback >05/2015 Superb 1.4/1.8 TSI,-Combi >2014 VW Beetle 1.4/2.0 TSI,-Cabriolet >2014 Caddy 1.6 California T6 2.0 TFSI >2015 Caravelle T6 2.0 TFS >2015 Fox 1.0 Bluemotion (2013-2015) Gol VI 1.6 Rallye Flex,-I-Motion Flex >2014 Golf 1.0 TSI >10/2016 Golf Sportsvan 1.2/1.4 TSI,-1.6 >2014 Golf VII 1.2/1.4,-TSI,-Variant, -1.6,-Variant >2013/2014 Gran Lavida Hatchback 1.6i >2013 Jetta 1.4/1.6i,-TSI, -2.0 TSI >2012 Lamando 1.8 T >08/2014 Multivan T6 2.0 TFSI >2015 New Santana 1.4 i >08/2012 Passat 1.8 TFSI,-Variant >2015 Polo 1.0,-TSI, -1.2 TSI, -1.6 Sedan, -2.0 WRC >2014 Saveiro V 1.6 16V Cross Flex 04/2014 Tiguan 1.4 TSI,-4-Motion >2016 Transporter T6 2.0 TFSI >04/2015 up! 1.0 EcuFuel,-Flex >2011

IKA-No. Original References Unit-Nos.



7 7548 1	Bosch	1 004 337 155 with 4 brushes	0 001 148 019,020,025,026 029,030,033,034 S74-E+ 12V(R) BMW Start/Stop Starters 12 41 8 515 795,796 12 41 8 515 900 12 41 8 570 238,239 114d /116d,-EfficientDynamics /118d,-xDrive (2011-2015) 120d,-xDrive /125d (2011-2015) 218d /220d/225d Coupe (2014-2015) 316d,-Touring (2012-2015) 318d,-GT,-Touring,-xDrive (2012-2015) 320d,-Cabrio,-EfficientDynamics,-GT,-Touring,-xDrive (2010-2015) 325d,-Cabrio,-GT,-Touring >2013 330d,-Cabrio,-GT,-Touring,-xDrive >2012 335d xDrive,-GT,-Touring-xDrive >2013 420d Cabrio,-Coupe,-xDrive (2013-2015) 425d Cabrio,-Coupe (2014-2016) 430d Coupe,-xDrive >2013 435d Coupe xDrive >2013 520d,-EfficientDynamics,-GT,-Touring >2010 525d,-Touring,-xDrive >2011 530d,-GT,-Touring,-xDrive >2010 535d,-GT,-Touring,-xDrive >2010 640d Cabrio,-Coupe,GC,-xDrive >2011 730d,-Ld,-xDrive (2012-2015) 740d,-xDrive (2012-2015) 750d,-Ld,-xDrive (2012-2015) M550d,-Touring,-xDrive >2012 X 1 sDrive 16d,-18d,-20d,-EfficientDynamics X 1 xDrive 18d,-20d,-25d (2012-2015) X 3 sDrive 18d,-20d (2012-2014) X 3 xDrive 20d,-30d,-35d >2010 X 5 sDrive 25d,-30d,-40d >2013 X 5 xDrive 25d (2013-2015) X5M 50d >2013 X6M 50d >2012 X6 xDrive 30d,-40d >2014
		model with 6 brushes: 1 004 337 175 = 7 7551 1	



7 7549 1	Bosch	1 004 337 165 0 399 D77 054	0 001 138 057-062 0 001 147 424,425 S74-L 12V (R) SL74-L 12V (R) BMW Start/Stop Starters 12 41 7 610 342,349 12 41 7 626 000,546,547 12 41 7 631 025,054 12 41 7 638 192-194,196 12 41 8 612 576 114i/116i/118i/120i,125i >2012 220i/228i Cabrio,-Coupe (2014-2016) 316i,-Touring /320i Efficient Dynamics (2012-2016) 320i/328i/335i -GT,-xDrive,-Touring, -Touring xDrive,-xDrive (2012-2015) 420i/428i/435i Cabrio,-Coupe,-xDrive, -Gran Coupe,-xDrive (2014-2016) 520i,-Touring >09/2011 523i Touring >09/2011 528i,-GT,-Touring,-xDrive >09/2011 535i,-Touring >2010 640i Cabrio,-Coupe >03/2011 ActiveHybrid 3 (2012-2015) M 135i,-xDrive (2012-2015) X 1 sDrive 16i/20i/28i (2011-2015) X3 xDrive 20i,-28i >09/2011 Z4 sDrive 20i,-28i >09/2011 gasoline models
		successor product for 1 004 337 153 = 7 7291 1 1 004 337 154 = 7 7292 1	
		with 6 brushes instead of 4 brushes for longer life time	

IKA-No. Original References Unit-Nos.

7 7550 1

Bosch

1 004 338 100,112,126,140,178
0 399 D77 052,055,098

0 001 179 500-523,526,527,530,531,604,605

SCF70-SX 12V(L)

MB 270 906 12 00

VW 02E 911 024B,-BX

02M 911 021G,-GX

02M 911 024Q,-QX

02Z 911 022 C,-CX

02Z 911 024Q,-QX

0AH 911 023J

0AM 911 023N,-NX,-R,-RX

Audi A3 1.2/2.0 TFSI,-Cabrio,-Limousine, -Sportback,-quattro

A3 1.4,-TFSI,-Cabriolet, -Limousine, -Sportback

A3 1.8 FSI,- Limousine, -Sportback,-quattro

A3 1.8 TFSI,- Cabriolet, -Limousine, -Sportback

A3 2.0 TFSI Cabriolet

Q3 1.4 TFSI, -2.0 TFSI quattro

RSQ3 2.5 TFSI quattro

S3 2.0 TFSI, -Cabriolet, -Limousine, -Sportback

S3 2.0 TFSI quattro

MB GLA 200, GLA 220 4Matic

SEAT Ateca 1.0/1.4 TSI, 2.0 TFSI

Leon 1.2/1.4 TSI,-1.4 TSI ACT,-1.8 TSI

Leon SC 1.2/1.4 TSI,-1.4 TSI ACT,-1.8/2.0 TSI

Leon ST 1.2/1.4 TSI,-1.4 TSI ACT,-1.8 TSI

Leon ST 2.0 TDI,-4Drive

Leon Cupra,-SC Cupra,-ST Cupra 2.0 TSI

Mii 1.0 >10/2011

Toledo 1.6 TDI

Skoda Citigo 1.0, -G-Tec

Fabia 1.0 MPI, -Combi

Fabia 1.2 TSI, -Combi

Octavia 1.2 TSI,-Combi

Octavia 1.4i,- TSI,-Combi,-G-Tec

Octavia 1.6, -Combi

Octavia 1.8 TSI,-4x4,-Combi

Octavia 2.0 FSI Combi,-TSI RS

Rapid 1.2/1.4 TSI,-Spaceback

Superb 1.4/1.8 TSI,-Combi

Yeti 1.2/1.4 TSI

VW Arteon 2.0 TFSI,-4Motion

Beetle 1.2/1.4/2.0 TSI,-Cabrio

Caddy 1.4 TSI

CC 1.4 TSI

Golf Sportsvan 1.0/2.0 T, 1.2/1.4 TSI

Golf VI 1.4 TSI,-Cabrio, 1.6i, 2.0 GTI

Golf VII 1.0/1.2/1.4/1.5 TSI,-ACT,-Multifuel,-Variant

Golf VII 1.4 TGI,-Variant

Golf VII 2.0 GTI, -4Motion, -R-Line

Jetta 1.2/1.4 TSI

Lavida 1.4i

Magotan B7 1.8/2.0 T, 3.0i

New Passat 1.4 T

Passat 1.4 TSI,- 4Motion,-Variant

Passat 1.8 TFSI,-Variant

Polo 1.0/1.2/1.4, -TSI, -ACT

Polo 1.8 GTI

Sagitar 1.4 TSI/4V, 1.6i, 1.8/2.0 T

Scirocco 1.4/2.0 TSI




Tiguan 1.4 TSI, -4Motion



Touran 1.4 TSI /1.8 TFSI




up! 1.0 >12/2011









IKA-No.	Original	References	Unit-Nos.
7 7551 1	Bosch	1 004 337 175 model with 4 brushes 1 004 337 155 = 7 7548 1	0 001 148 508,509,514,515 SL74-E+ 12V(R) BMW 12 41 8 574 102,103 12 41 8 581 099 12 41 8 589 891 316 d,-Touring (2012-2015) 318 d,-Touring,-Touring xDrive (2012-2015) 320 d,-Touring,-EfficientDynamics,-xDrive (2012-2016) 330 d/335 d,-GT,-xDrive,-Touring,-xDrive >2012 418 d/420 d Gran Coupe,-xDrive (2014-2015) 430 d Cabrio,-Coupe,-Gran Coupe,-xDrive >2014 435 d Cabrio,-Coupe,-Gran Coupe,-xDrive >2013 518 d,-Touring (2013-2014) 520 d,-GT,-Touring,-xDrive >2010 525 d,-Touring,-xDrive >2011 530 d/535 d,-GT,-xDrive,-Touring,-xDrive >2011 640 d Cabrio,-xDrive,-Coupe,-xDrive >2012 640 d GC,-xDrive >2012 730 d/740 d/750 d,-xDrive (2012-2015) 730 Ld/740 Ld/750 Ld,-xDrive >2012 M 550 d Touring-xDrive >2012 X 3 xDrive 30/35d >04/2011 X 5 xDrive 30/35 >06/2014 Diesel models
7 7552 1	Bosch FIAT	1 004 338 113,117,125, 136,205 0 399 D77 108 773 671 84	0 001 170 400-403,406,407,410,411, 600,601,610,611,640,641 0 001 172 400-403,604,605 SC/SCL70-M/S 12V (R) 06L 911 021,-A,-AX,-B,-BX Audi A4 1.4 TFSI,-Avant A4 2.0 TFSI,-Avant g-tron,Avant quattro,-quattro A4 Allroad 2.0 TFSI A5 1.4 TFSI Coupe,-Sportback A5 2.0 TFSI Cabriolet,-Coupe,-quattro,-Sportback Q5 2.0 TFSI quattro Chrysler 56029 640AA FIAT 519 161 68,-69,-70 519 384 39 519 756 77 552 545 83 Ford 5S51-11000-AA,-BA 1881471 Opel 25194650,55572440, 55591492, 55591942,55592541 Alfa Giulietta 1.4 BiFuel,-1.4 TB, -TB 1.4 MiTo 1.3 JTD,-JTDM,-SDE MiTo 1.4,-i.e.,-16V Turbo,-Turbo Chevrolet Aveo 1.2,-Hatchback Aveo 1.3 D, -Hatchback Cruze 1.4 Turbo,-Hatchback Orlando 1.4 Turbo Trax 1.4 Turbo,-AWD FIAT 500 1.2/1.3 Multijet/1.4 500C 1.2/1.3 Multijet/1.4 500L 1.3 Multijet 500X 1.3 Multijet/1.4,-4x4,-MultiAir 4x4 Bravo 1.4, -Turbo Doblo,-Cargo 1.3 Multijet/1.4,-Natural Power Fiorino 1.3 Multijet Grande Punto 1.2/1.3 Multijet/1.4 Grande Punto 1.4 CNG,-LPG Idea 1.3 Multijet,-1.4 8V/16V Panda 1.3 Multijet,-MultiAir-Turbo,-4x4 Punto 1.2/1.4,-LPG,-Abarth,-SS,-MultiAir,-Turbo 1.3 Multijet Punto Evo 1.2/1.3 Multijet/1.4 8V,-16V,-Abarth Qubo 1.3 Multijet,-Hatchback,-Station Wagon Tipo 1.3 Multijet,- Hatchback,-Station Wagon 1.4 T-jet,-LPG,-Hatchback,-Station Wagon Ford Ka 1.2 Jeep Renegade 1.4/1.6-MultiAir,-4x4 Lancia Delta 1.4 BiFuel, -1.4i 16V Ypsilon 1.2,-BiFuel Opel Adam 1.2 /1.4,-LPG,-Turbo Astra 1.3 CDTI,-Limousine,-Sportstourer Astra 1.4 GTC,-Limousine,-Turbo GTC,

IKA-No.	Original	References	Unit-Nos.
			-Turbo Limousine Astra 1.4 i,-Limousine,-Sports Tourer,-Turbo, -Sports Tourer Cascada 1.4 Turbo Corsa 1.2,-Twinport Corsa 1.3,-CDTI Corsa 1.4,-Twinport.-Turbo Insignia Sports Tourer,-Turbo Meriva 1.3 CDTI Meriva 1.4,-ecoFlex,- Ecotec,-Turbo Mokka 1.4 Turbo ecoFlex Zafira 1.4 Turbo latest models
7 7553 1	Bosch FIAT	1 004 336 697 1 004 337 149, 158,167,182 773 679 91	0 001 139 023,024,031,032 0 001 149 418-421,432-435 S78-M/ SL78-M 12V (R) Chrysler 56029 626AA 56029 667AA,-AB,-AC FIAT 500 457 26, 500 515 13 500 531 67, 505 329 95 533 013 83 Ford CC1T-11000-DA,-DB,-DC,-EA,-EB 1740948, 1741089 1745176, 1745178 PSA 96 786 90180 Alfa Giulia 2.2 Multijet >02/2016 Ford Tourneo Custom 2.2 T (2012-2016) Transit Custom FT 250,270,290,300, FT 310,330 (2012-2016) Transit Euroline 2.2 TDCi (2011-2013) Transit FT 250,260,280,300 2.2 TDCi (2011-2013) FT 290,310,410,470 TDCi >2014 FT 330,350,370,430,460 TDCi >2011 Transit Nugget 2.2 TDCi (2011-2013) Transit Tourneo 2.2 TDCi (2011-2013) Jeep Cherokee 2.2 CRD 4x4 >08/2015
			
7 7560 1	Bosch MB	1 004 336 689 1 004 337 060, 070 001 151 66 14 with EMC electromagnetic compability	0 001 138 015,016 0 001 147 408,409 S74-L 12V(R) 1.7 kw SL74-L 12V (R) 1.7 kw Mercedes RFI Start/Stop Starters 006 151 72 01 271 906 02 00 C 180,-CGI,-Coupe,-T-Model 2009-2012 C 200 CGI,-Coupe,-T-Model 2009-2014 C 250 CGI,-Coupe,-T-Model 2009-2014 E 200 CGI,-Cabrio,-Coupe,-T-Model,-NGT 2009-2013 E 250 CGI,-Cabrio,-Coupe,-T-Model 2009-2013 E 260 1.8i >2010 SLK 200/250 2011-2015
			
7 7561 1	Bosch MB	1 004 337 017,023,040,045 001 151 73 14 with EMC replaced by 7 7575 1 w/o. EMC	0 001 139 043,044 S78-M 12V (R) Mercedes RFI Overload Protection Start/Stop Starters
			

IKA-No.	Original	References	Unit-Nos.
7 7562 1	Bosch	1 004 337 015,035,043,061,151	0 001 147 400, 401
	MB	001 151 75 14	SL74-L 12V (R) Mercedes RFI Overload Protection Start/Stop Starters
	with EMC electromagnetic compability		276 906 12 00 276 906 23 00 C 300 CGI C 350 CGI,-Coupe,-T-Model CLS 350 CGI Coupe,-Shooting Brake E 300,-T-Model,-4Matic E 300 CGI Cabrio,-Coupe,-T-Model,-4Matic E 350,-T-Model E 350 CGI Cabrio,-Coupe,-T-Model E 400,-Coupe,-T-Model 2011-2014 E 400L 3.5 >2013 ML 300/350 4Matic 2011-2015 S 350 CGI SL 350 2012-2013 SLK 350 2011-2016
			7 7563 1
	MB	1 004 337 044,062,152	SL74-L 12V (R) Mercedes RFI Overload Protection Start/Stop Starters
	with EMC electromagnetic compability brush holder with 6 brushes	001 151 74 14	276 906 13 00
001 151 76 14		276 906 24 00	
Replacement for IKA 7 7568 1 brush holder with 4 brushes		278 906 04 00	
		278 906 05 00	
278 906 06 00	278 906 07 00	C 300 CGI,- 4Matic C 350 CGI,- 4Matic,-Coupe,-T-Model C 350 Coupe 4Matic C 63/S AMG-Cabrio,-Coupe,-T-Model CL 500 CGI Coupe,-4Matic CL 63 AMG Cabrio,-Coupe CLS 350 Shooting Brake,-CGI Coupe CLS 500 Coupe,-4Matic,-Shooting Brake CLS 63 AMG Coupe,-Shooting Brake E 300,- 4Matic,-T-Model 4Matic E 300 CGI Cabrio,-Coupe,-T-Model,-4Matic E 350 4Matic,-T-Model 4Matic E 350,-4Matic,-CGI Cabrio,-Coupe,-T-Model,-4Matic E 400 4Matic,-Cabrio,Coupe,-T-Model 4Matic E 500,-4Matic CGI Cabrio,-Coupe,-T-Model 4Matic E 63/S AMG,-4Matic,-T-Model G/GL/GLE /GT 63 AMG,- Cabrio,-Coupe,-Roadster GL 500 4Matic, GL 63 AMG 4Matic GLE 500 4Matic,-Coupe 4Matic GLK 300 4Matic, 350 CGI 4Matic G/GLS 500 GT, GT C, GT R, GT S AMG ML 400/500 4Matic, ML 63 AMG 4Matic S 350 CGI,-4Matic S 500,-4Matic,-CGI 4Matic, S63 AMG SL 350, SL 500, SL 63 AMG SLK 350, SLK 55 AMG, SLR AMG GT/S SLR GT/GTS AMG	

IKA-No.	Original	References	Unit-Nos.
7 7564 1	Bosch	1 004 337 026,066	0 001 152 410,411 SFL74-L 12V (L) Mercedes RFI Overload Protection Star/Stop Starters 270 906 07 00 A 160 1.6 >07/2015 A 180/A 200 1.6 >06/2012 A 220 4Matic 2.0 >05/2014 A 180, A 200, A 250 >06/2012 A 220 4Matic >05/2014 A 250,- 4Matic,Sport,-,-4Matic AMG A 45 4Matic >06/2013 AMG CLA 45 4Matic,-Shooting Brake >07/2015 AMG GLA 45 4Matic >07/2015 B 160/B 160 d >05/2015 B 180/B 180 d B 200/B 200 c B 200 NGD 2012-2015 B 220/B 250 4Matic >05/2012 CLA 180,-Shooting Brake CLA 200/200 d Shooting Brake,-4Matic >2015 CLA 220/220 d 4Matic,-Shooting Brake >04/2016 CLA 250,-4Matic,-Shooting Brake,-4Matic GLA 180/200 >12/2013 GLA 220 4Matic GLA 250,-4Matic >01/2014
		with EMC electromagnetic compability	
7 7565 1	Bosch	1 004 337 049,059,069	0 001 153 500,501,510,511 SFL74-E+ 12V (L) Mercedes RFI Start/Stop Starters 645 906 02 00 645 906 03 00 A 160 CDI /A 160 d A180 CDI /A 180 d A 200 CDI,-4Matic /A 200 d A 220 CDI,-4Matic /A 220 d B 160 CDI /B 160 d B 180 CDI /B 180 d B 200 CDI /B 200 d,-4Matic B 220 CDI /B 220 d,-4Matic CLA 180 CDI /B 180 d CLA 200 CDI,-4Matic /CLA 200 d 4Matic-Shooting Brake CLA 220 CDI,-4Matic CLA 220 d,-4Matic,-Shooting Brake,-4Matic GLA 180 CDI /GLA 180 d GLA 200 CDI,-4Matic /GLA 200 d,-4Matic GLA 220 CDI,-4Matic /GLA 220 d,-4Matic
		with EMC electromagnetic compability	
7 7566 1	Bosch	1 004 337 046,058,068	0 001 149 402-405,412-417 SL78-M 12V (R) Mercedes RFI Overload Protection Start/Stop Starters 000 906 99 01 642 906 08 00 642 906 09 00 642 906 10 00 642 906 11 00 642 926 10 00 642 926 11 00 AMG G 65/ S 65 Cabrio,-Coupe C 350 CDI,-T Model CLS 350 BlueTec Coupe,-Shooting Brake CLS 350 CDI Coupe,-4Matic,-Shooting Brake,-4Matic CLS 350 d,-4Matic,-Shooting Brake E 300 BlueTec,-T-Model E 300 CDI,-T-Model E 350 BlueTec,-4Matic,- Cabrio,-Coupe,-T-Model,-4Matic E 350 CDI,-4Matic-Cabrio,-Coupe,-T-Model,-4Matic E 350 d,-T-Model G 350 d GL 350 BlueTec 4Matic GLE 350 d 4Matic GLK 350 CDI 4Matic GLS 350 d ML 350 BlueTec,-4Matic S 350 BlueTec,-4Matic /S 350d
	MB	001 151 77 14	
		with EMC eletromagnetic compability	

IKA-No.	Original	References	Unit-Nos.
7 7567 1	Bosch MB	1 004 337 041 001 151 72 14 with EMC electromagnetic compability brush holder with 4 brushes	S 600,-Maybach SL 65 AMG 0 001 149 400,401 SL78-M 12V (R) Mercedes RFI Overload Protection Start/Stop Starters 651 906 12 00 651 906 23 00 E 250 BlueTec Cabrio,-Coupe >2014 GLK 220 BlueTec 4MATIC 2012-2016
			
7 7569 1	Bosch	1 004 337 023,168 with EMC electromagnetic compability	0 001 139 065,066 S78-M 12V(R) Mercedes RFI Start/Stop Starters 651 906 28 00 C 180 CDI,-T-Model C 200 CDI,-T-Model C 220 CDI,-4Matic,-Coupe,-T-Model C 250 CDI,-4Matic,-Coupe,-T-Model CLS 250 CDI Coupe E 220 CDI Cabrio,-Coupe E 250 CDI 4Matic,-Cabrio,-Coupe,-T-Model E 300 BlueTec Hybrid GLK 200/ 220 CDI,-4Matic GLK 250 CDI 4Matic ML 250 BlueTec 4Matic S 250 CDI SLK 250 CDI Sprinter 2.1 CDI Viano CDI 2.0/ 2.2 Vito 110,113,116 CDI
			
NEW	7 7570 1	Bosch 1 004 337 073 w/o. EMC	0 001 147 420,421,430,431 SL74-L 12V (R) 276 906 43 00 276 906 88 00 CLS 400 Coupe,-Coupe 4MATIC >2014 CLS 400 Shooting Brake >2014 E 320 Cabrio,-Coupe >2014 E 400, Cabrio,-Coupe,-T-Model E 400L 3.0i >2013 GL 400 4MATIC 2013-2015 GLE 320/400 4MATIC >2015 GLE 43 AMG 4Matic,-Coupe >2016 GLE 450 AMG 4MATIC,Coupe 4MATIC 2015-2016 GLE 500 e 4MATIC >2015 S 400,-Hybrid >2013 S 500 e >2014 SL 400
			

	IKA-No.	Original	References	Unit-Nos.
NEW	7 7571 1	Bosch	1 004 337 181	0 001 148 510,511 SL74-E+ 12V (R) 651 906 48 00 GLC 200 d,-Coupe 4Matic >2016
				
NEW	7 7572 1	Bosch	1 004 338 145	0 001 174 600,601 SCL70-L 12V (R) Opel 36 40 268 Citroen 1111 11 PSA 96 756 60680
				
NEW	7 7573 1	Bosch	1 004 338 141,149,156, 196,198,200	0 001 170 602-605,624,625,628,629 0 001 172 406,407 SCE70-M 12V(R) SCL70-S 12V (R) BMW 12 41 8 571 905 12 41 8 621 839,866 Ford GV6T-11000-AA GV6Z-11002-A Nissan 23300-0379R 23300-4868R 23300-7224R Renault 23 30 003 79R 23 30 048 68R 23 30 072 24R BMW 114d,118d,-ED,118d,xDrive,120d,-xDrive,,125d 116i,118i,120i,125i 218d/220d/225d Coupe 218i/220i/230i Cabrio,-Coupe 316d,-Touring 318d,-GT,-Touring,-xDrive 318i,-Touring 320d,-ED,-GT,-xDrive,-Touring,-xDrive 320i/330i,-GT,-xDrive,-Touring,-xDrive 325d,-GT,-Touring 418d Gran Coupe 418i Coupe,-Gran Coupe 420d Cabrio,-Coupe,xDrive,-Gran Coupe 420i/430i Cabrio,-Coupe,-xDrive,-Gran Coupe 520d,-GT,-Touring,-xDrive 525d,-Touring,-xDrive 530d GT,-xDrive 530i,-xDrive 730i,-Li Renault Captur 1.5 dCi Clio IV 1.5 dCi Kadjar 1.5 dCi Kangoo II 1.5 dCi Megane III 1.5 dCi CC,-Coupe,-Grand Tour, -Hatchback >09/2013 Megane IV 1.5 dCi,-Gran Tour,-Hybrid Assist, -Hybrid Assist Scenic III 1.5 dCi >07/2012 Talisman 1.5 dCi,-Grand Tour latest models 2015/2016
				

	IKA-No.	Original	References	Unit-Nos.
NEW	7 7574 1	Bosch	1 004 337 072 w/o. EMC	0 001 147 422,423,432,433 SL74-L 12V (R) 276 906 44 00 276 906 89 00 AMG C 43 4Matic,-Cabrio,-Coupe,-T-Model >2016 AMG E 43 4Matic,-T-Model >2016 C 400 4Matic,-Cabrio,-Coupe,-T-Model >2014 C 450 4Matic T-Model,-AMG-T-Model >2014 CLS 400 Coupe,-4Matic,-Shooting Brake >2014 E 320 Cabrio,-Coupe >2014 E 400 all models >2013 S 400,-4Matic-Hybrid >2013 SL 400 >2014
NEW	7 7575 1	Bosch MB	1 004 337 017,023,040,045,168, 1 004 337 185 001 151 73 14 w/o. EMC replacement for 7 7561 1 with EMC	0 001 139 043,044,065,066,085,086 S78-M 12V (R) 651 906 11 00 651 906 24 00 651 906 28 00 651 906 43 00 114 CDI, 116 CDI, 119 CDI BlueTec >09/2014 210,211,213,214,215,216 CDI Sprinter >2009 310,311,313,314,315,316 CDI Sprinter 413,414,416 CDI Sprinter 510,511,513,514,515,516 CDI Sprinter C 180/200 CDI,-T-Model C 200 d ,-T-Model,-4Matic C 220 BlueTec C 220 CDI,-4MATIC,-Coupe,-T-Model,-4Matic C 220 d,- 4MATIC,-Coupe,-T-Model C 250 BlueTec T-Model,-4Matic C 250 CDI,-4-MATIC,-Coupe,-T-Model C 250 d,-Cabrio,-Coupe,-T-Model C 300 BlueTec Hybrid,-4Matic,-T-Model C 300 h,-T-Model CLS 220 Coupe,-Shooting Brake CLS 220 d Coupe,-Shooting Brake CLS 250 BlueTec Shooting Brake,-4Matic CLS 250 d Coupe,-4Matic,-Shooting Brake E 200 BlueTec,-T-Model E 200 CDI,-T-Model E 220 BlueTec,-4MATIC,-Cabrio,-Coupe,-T-Model,-4Matic E 220 CDI,-Cabrio,-Coupe,-T-Model E 220 d Cabrio,-Coupe E 250 BlueTec,-Cabrio,-Coupe,-4MATIC,-T-Model E 250 CDI,-4MATIC,-Cabrio,-Coupe,-T-Model,-4Matic E 250 d Cabrio,-Coupe E 300 BlueTec Hybrid,-T-Model GLC 200 d GLC 220/250 d 4MATIC,-Coupe GLE 250 d,-4MATIC,-Coupe 4Matic GLK 200/220/250 CDI,-4Matic GLK 220 BlueTec 4Matic GLK 250 BlueTec 4MATIC ML 250 BlueTec 4Matic S 250 CDI S 300 BlueTec Hybrid S 300 h SLC 250 d SLK 250 CDI V 200/220 CDI V250 BlueTec

NEW



IKA-No.	Original	References	Unit-Nos.
7 7577 1	Bosch FIAT	1 004 337 146,147 773 679 66	0 001 148 021,022,039,040 0 001 153 013,014,019,020 S74-E+ 12V (R) SF74-E+ 12V (R) 519 843 59 2 H0 911 023 H,-K,-KX 3R0 911 023 C,-CX FIAT 500X 2.0 MultiJet 4x4 >2014 Ducato 115 MultiJet >2014 Jeep Renegade 2.0 MultiJet >2014 SEAT VW Amarok 2.0 TDI,-4Motion 2011-2016 Crafter 30/35/50 2.0 TDI,-BitDI 2011-2016



7 7801 1	Bosch	2 004 336 223 1 004 336 434,451,828,980 alternative product for brass type 7 7281 1	0 001 107 031,032 0 001 121 003 DB/DW(R) 12V 1.1 kW Chrysler 04557 466 Porsche 986 604 104 00 Boxster 2.5 1996-1999 Boxster 2.7/3.2 S 1999-2004
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7 7802 1	Bosch	2 004 336 214 1 004 336 416,420,462,745, 749,814,830,841	0 001 106 022-024,028 0 001 107 043,070,071,073,074,087 DW(R) 12V 0.9-1.1 kW R74-M10,-M25,-M30 12V(R) R74-S10,-S20 12V(R) 96FB-11000-KB,-KC,-KD 1011331 23300-00Q1D 77 00 875 450 82 00 050 150 82 00 186 144 82 00 199 737 82 00 466 754,-758,-761 82 00 724 786,-805,-810,-817 82 00 929 534 93161060 012 911 023,-X 06B 911 023,-X
	Ford Nissan Porsche PSA Volvo VW	5825 C8 5825 C8 30862530 012 911 209 058 911 209 B	
		replacement for 7 7282 1	



7 7803 1	Bosch	2 004 336 212 1 004 336 239,314,320,321, 368,382,391,421, 716,728,809,810, 831,853,970,985	0 001 106 012,017-019,026,027 0 001 107 009,015,016,027,028,030,034,037, 041,044,045,048,056,059-061,063 064,067,072,075,076,079,082,088, 092,093,096,100,101
	FIAT MB	9949392 001 151 00 14 001 151 34 14 001 151 34 15	6 000 AA0 013 9 000 694 035,044 9 001 107 088 F 000 AL0 113
	Nissan Opel	23378-1F705 90542850 93180602	DW(R) 12V 0.9-1.2 kW R74-M10,-M20,-M25,-S10 12V(R) 12 41 1 489 994,-995 12 41 7 570 487,-488
	PSA Renault Toyota VW	77 01 047 321 28140-02020 069 911 209 D	93 427 646 04686 512,-AC,-CB,-CC 60562974, 9615519880,9624291380 91AB-11000-LB 92AB-11000-GB,-JA 93BB-11000 CA,-CB 95FB-11000-BD 95GB-11000-FA 96FB-11000-ME 97KB-11000-AA,-AB,-AC R91AX-11000-KB1 1027772,1067622,1416207 005 151 53 01 005 151 66 01 005 151 69 01 09198701 90444193,90449689,90451825,
		replacement for 7 7260 1	





IKA-No.	Original	References	Unit-Nos.
			90487345,90508037,90512188, 90512189,90518627,90518628 9200961 23300-1F705,-1F715 23300-99B16 96 147 592, 96 155 198 77 00 115 294 77 00 872 450 77 00 875 450 82 00 466 744 82 00 724 786 28100-02040,-02080, 28100-16230 28100-0E010,-0D030 069 911 023 G












7 7804 1	Bosch	2 004 336 226 1 004 336 338,392,444,717, 833,989	0 001 107 047,077,098 DW(R) 12V 1.1 kW R74-M20 12V(R) 1516788R
	Opel	09117925	9117691,9200960
	Renault	77 01 042 469	90586916,93184536 77 00 105 080 77 00 865 719
		replacement for 7 7283 1	








7 7805 1	Bosch	2 004 336 221,261 1 004 336 309,332,397,415, 432,433,715,744 801,813,827,842, 938,957,964,975	0 001 106 011,014,015,025 0 001 107 010,012,014,017-019, 025,026,029,033,038, 049,054,055,062,066, 068,069,083,085,089, 094,095,097
	FIAT	7078094,77363063, 9943569,9947478,9947649 9947890,9949392,9950837	0 001 121 001,002 9 000 694 022 9 007 045 020
	Ford	BF5-A11082-A	DB/DW(R) 12V 0.9-1.1 kW
	KHD	01340542	1516766R,1516773R,1516776R
	Nissan	23378-99B15	46468696,46748349,46748350, 46821681,55193407
	Opel	90444710,9118123,93185011	9613230280,9615519880, 9624291380
	PSA	5828 98, 9947649	92AB-11000-GA,-GB 92BB-11000-AA
	VW	001 911 209 053 911 209 058 911 209 A	6816678 005 151 38 01 660 151 01 01 23300-94851 23300-99B15,-99B16 23300-1F705,-1F715 90444193,90458462, 90512188,90518628,90535261 9117031,9133598,9198701 5802 E4 96035034,96102058, 28100-02080,-16230 28100-0E010,-0D030 8602102,8602104 001 911 023,-X 036 911 023 S,-SX 053 911 023,-A,-B 058 911 023 B,-BX
		alternative product for brass type 7 7131 1	

	IKA-No.	Original	References	Unit-Nos.
	7 7806 1	Bosch Nissan	2 004 336 220 1 004 336 219,326,427,428, 435,469,775,776, 820,870,937,987 23378-99B05 replacement for 7 7259 1	0 001 106 020 0 001 107 011,024,039,040,046, 058,080,090 F 002 G20 318 DW(L) 12V 0.9-1.1 kW R74-M27,-S10 12V(L) RF74-M25 12V(L) 23300-94850 23300-99B00,-99B05,-99B06 Nissan Micra, -Sabre, -Sentra 1.3/1.6 i MG,Rover, Lombardini, Piaggio
	7 7807 1	Bosch VW	2 004 336 215,260 1 004 336 417,746,821,951 02B 911 209 alternative product for brass type 7 7126 1	0 001 106 016 0 001 107 003-008,020-023,052,053 0 001 121 006-011,016-019,022,023 DB/DW(L) 12V 1.1 kW 1516679R,1516723R, 1516779R,1516781R 95VW-11000-BA,-BB YM21-11000-EA 1029411 020 911 023,-F,-FX,-J,-N 02A 911 023 E,-F,-L,-LX,-T,-TX 02B 911 023 B,-F 02M 911 023,-X 02T 911 023 A,-B,-E,-EX
	7 7811 1	Bosch Opel PSA Renault	2 004 336 209,227 1 004 336 337,343,363,374, 375,823,832,850, 859,935,971,973 90444706 95655222, 5825 C4 77 01 039 506 77 01 044 936,-938 77 01 047 322 replacement for 7 7257 1 7 7258 1 7 7296 1	0 001 108 074,123,143,148,170,172, 180-182,185,186,199 DW(R) 12V 1.4 kW R74-L20,-L25,-L35 12V(R) 1516807R 90490356,90490771, 90541527,90563736, 93177175,93184538, 96017849,96035034, 96092340,96325689 1202136 77 00 106 426,-763, 77 00 113 207 77 00 860 915 82 00 466 763 82 00 724 823 51 94 899 18213-M68KA-000
	7 7812 1	Bosch BMW FIAT Ford MB Mitsubishi Opel Porsche PSA	2 004 336 216,217,222,225 1 004 336 146,162,300,318, 346,403,411,418, 419,423,436,439, 443,457,464,733, 740,747,748,762, 806,812,816,837, 902,903,907,912, 913,918,921,922, 934,936,941,950, 954,960,965,968, 974,986,995,998 1 007 010 065 Kit 12 41 1 722 849 12 41 1 735 887 9939779,9950076 AU2-11049-A V86BB-11061-AA 001 151 46 14 001 151 49 14 001 151 87 14 001 151 96 14 001 151 98 14 001 151 99 14 MR922747 905434727,9196673 1203039 5825 C1 5825 C1, 5825 C5	0 001 108 001,002,004,009-013,016-020, 022-033,035,307-040,042-048, 051-054,056,057,061-066, 068-073,075,078-093,098, 100-122,124-126,128-141, 144-146,149-156,158-160,162, 166,167,169,171,173-178,183, 184,188,189,197,205,995-999 0 001 111 002-004 0 001 115 024 9 000 694 001,003,008,010,020, 026,038,043 F 002 G20 049,052,101,141, 449,500,639 F 005 M00 006,010,011,013,016 F 010 AL0 103 DW(R) 12V 1.1-1.6 kW DW(R) 24V 1.6 kW R74-L20,-L25,-L35 12V(R) R74-E10 12V (R) 12 41 1 312 104,130 12 41 1 720 642 12 41 1 726 504 05097072AA 1516802R 9629473280 94GX-11000-AA, 5030457 005 151 65 01 55351631






IKA-No.	Original	References	Unit-Nos.
	Volvo VW	95 656 565 1363547 035 911 209 D.-E 078 911 209,-A replacement for 7 7256 1 alternative product for brass type 7 7124 1	90542967, 90566073 93176056, 93184537, 93184539 5802 A9, 5802 C1 5802 E1, 5802 E5 5802 F0, 5802 F5 96 092 340, 96 147 592, 96 343 143 77 00 114 428 49 66 842, 88 28 238 034 911 023 035 911 023 N 078 911 023,-B
	7 7813 1	Bosch Ferrari FIAT Piaggio VW replacement for 7 7128 1	2 004 336 219 1 004 336 147,426,442,467, 772,811,904,919, 923,961 493 323 9944377,9944734 433 323 02A 911 209 A 0 001 108 005,014,015,050,058-060,076, 077,094-097,099,127,147,168 0 001 111 001,005 9 000 694 021 DW(L) 12V 1.1-1.4 kW DW(L) 24V 1.6 kW 7727534,76683140 293 762 Piaggio 563 30 Ruggerini 933 604 001 00 02A 911 023 C,-D 02B 911 023 B 055 911 023 G
	7 7814 1	Bosch replacement for 7 7128 1	2 004 336 210 1 004 336 136,362,911,944 0 001 108 021 DW(L) 12V 1.4 kW Porsche 951 604 101 00 924 2.5 S 944 2.5,-S,-Turbo 944 2.7
	7 7821 1	Bosch Volvo VW replacement for 7 7248 1 7 7249 1	2 004 336 218 1 004 336 424,452,763,803, 852 9442299 03G 911 209 M 0 001 115 002,007 0 001 123 001 DB/DW(R) 12V 1.7 kW R/RF74-E10 12V(R) 30658566 9162400,9168267 996 604 103 00
	7 7822 1	Bosch MB VW replacement for 7 7250 1	2 004 336 213 1 004 336 396,414,470, 722,743,824 0 001 151 08 14 0 001 151 45 14 07C 911 209 0 001 115 009,012,016,017,024 DW(R) 12V 1.7 kW R74-E10 12V(R) 55351631 9146359 9200610 93176056,93184539 07C 911 023,-X






	IKA-No.	Original	References	Unit-Nos.
	7 7823 1	Bosch VW	2 004 336 224 1 004 336 453,514,867,891 03G 911 209 L,-N,-Q replacement for 7 7247 1 replacement for 7 7280 1	0 001 115 011,013,118 DW(L) 12V 1.7kW R74-E10 12V(L) 996 604 107 00, 01, 02 996 604 108 00 Porsche 911 3.6 Carrera 2,-Convertible 2 3.6 Carrera 4 3.6 GT2,-RS,-GT 3 3.6 Turbo Cabriolet 4,-Carrera 4 3.6 Turbo Coupe 4,-GT2 4 3.6 Turbo S Cabriolet 4,-Coupe 4 3.8 GT 3,-RS 4.0 GT 3 RS
	7 7831 1	Bosch Renault	2 004 336 233 1 004 336 361,456,460,468, 802,848,946,994 77 01 042 471 77 01 044 940 old model: brass type 7 7132 1	0 001 109 035 0 001 110 089,114 0 001 115 001 DW(R) 12V 1.7kW 1516790R 60 01 040 105 77 00 102 800 77 00 866 505
	7 7832 1	Bosch MB Renault Volvo	2 004 336 245 1 004 336 437,463,835,864, 908,931,949,976 1 007 010 092 Kit 000 151 95 14 001 151 02 14 001 151 23 14 77 01 033 239 3344018 replacement for 7 7253 1	0 001 110 003,026,039,053,095,113 DW(R) 12V 1.7-1.8kW R78-L25 12V(R) 1516790R 001 151 78 01 003 151 79 01 004 151 37 01 77 00 777 478 77 00 864 634 35605617
	7 7833 1	Bosch Toyota VW	2 004 336 235 1 004 336 279,409,422,729, 738,860,868 28140-0G010 28140-0G030 068 911 209 J replacement for 7 7284 1 7 7295 1	0 001 110 126-129,132 0 001 124 020,021 F 000 AL0 108 DW(R) 12V 1.8kW R/RF78-L25 12V(R) 28100-0G010 28100-0G030 068 911 024 F,-G,-GX,-H
	7 7834 1	Bosch Toyota VW	2 004 336 244 1 004 336 405,407,450,465, 735,736,819,826, 845,984 1 007 010 056 Kit 28140-0B020 069 911 209 E replacement for 7 7254 1 field coil connector 71 mm	0 001 109 034,041 0 001 110 004,048,049 0 001 124 015 0 001 125 501-504,507,508 DB(R) 12V 1.7-2.0 kW 1516661R, 1516674R 1516682R, 1516727R 996 604 104 00 28100-0B020 069 911 023 E,-H,-J 073 911 023 A

	IKA-No.	Original	References	Unit-Nos.
	7 7835 1	Bosch	2 004 336 238 1 004 336 367,401,404,413, 455,458,731,734, 742,807,849,909, 914,924,925,942, 947,955,959,962, 981 1 007 010 076,091 Kit	0 001 109 021,022 0 001 110 004,005,007,008,011-013,016,017, 019,022-025,027-030,041-046,051, 052,054-056,063-068,075,078,079, 082,083,088,090-092,102,104-108, 110,111,120,122-125,999 F 010 AL0 101, F 042 002 067 DW(R) 12V 1.6-2.2 kW R78-M10,-M15,-M20,-M25 12V(R) 12 41 1 731 898 12 41 7 720 663,-664 1516753R 05226948 4392461,46231601,46446291,5997309, 7540278,7580192,7587118,7597118, 7692102,77167660,77323430 84AB-11000-AC 86AB-11000-AA,-A1A 89BB-11000-AA,-AB 91AB-11000-FA,-FB 91BB-11000-LA 91BX-11000-LA 92AB-11000-HA,-HB 92AX-11000-HA 1644028,5016235,5027120, 6147936,6158978 003 151 50 01 004 151 02 01 004 151 45 01,-55 01,-65 01 1202016, 1202045, 1205956, 1202959, 90008257, 90243160, 90349285, 90443488 5802 A6,-C3,-50 91 040 098, 91 536 044, 96 054 384, 77 00 856 291 30658567 059 911 023 H,-HX 068 911 023 L,-LX,-P,-R,-S 068 911 024 B,-C 077 911 023 C
		BMW	12 41 1 726 041	
	FIAT	9940747,9947402,9945959, 99504680		
	Ford	84AB-11061-AB 84AB-11461-AB 6147939		
	MB	001 151 17 14 000 151 92 14 1203037,90510286,93185012		
	Opel	5825 A4		
	PSA	77 01 036 633		
	Renault	059 911 209 A		
	VW	068 911 209 F,-G,-H 077 911 209,-A,-B replacement for 7 7251 1 alternative product for brass type 7 7129 1 field coil connector 64 mm		
	7 7836 1	Bosch	2 004 336 237,241 1 004 336 301,400,412,430, 431,438,445,447, 472,730,741,778, 779,804,829,836, 840,881,956,996, 997 994784, 994840, 9951205 99478260, 9947840, 9951021, 001 151 03 14 001 151 43 14 001 151 44 14 9117908 5825 D0 91536044, 994784 031 911 209 077 911 209 C replacement for 7 7252 1 7 7297 1 7 7298 1	0 001 109 001-003,006-009,014,017,018, 025,026,028,030,031,033, 036,040,042,043,045,046, 048,049,056,363,419,420 0 001 110 100,101,112,115 F 000 AL0 105,107,112,117 DW(R) 12V 1.6-2.0 kW R78-M25 12V(R) 12 41 2 242 703 12 41 2 246 570 12 41 2 446 570 12 41 4 371 646 93389727 1516655R, 1516680R 46430721, 46430784, 46437520, 46800159, 60814911, 9947830 2T14-11000-AA 004 151 70 01, 004 151 89 01 004 151 92 01 120 2143 90511841, 90519332 91154217, 91536044 96035035, 96054384 031 911 023 A,-AX,-C 077 911 023 E,-EX
		FIAT		
	MB			
	Opel			
	Porsche			
	PSA			
	VW			

	IKA-No.	Original	References	Unit-Nos.
	7 7837 1	Bosch	2 004 336 234 1 004 336 394,461,720,999	0 001 109 015,042,046,052,055,061-063 DW(R) 12V 2.0 kW
		Opel	90540337 93185014	R78-M15,-M25 12V(R) 1516830R 24422273, 24454431 09200962 55351630 90512467, 90519015, 90519331, 90566073, 93171526, 93176034, 53 42 340 53 43 371 95 44 537
			replacement for 7 7532 1	
	7 7838 1	Bosch	2 004 336 230 1 004 336 257,402,440,446, 459,466,732,847, 906,926,927,933, 958,983,988,991	0 001 109 011,023,044 0 001 110 001,002,009,010,013-019,021, 022,031-033,039,047,057-059, 061,062,069,070,076,077,081, 084,085,098,099
		VW	1 007 010 053 Kit 1 007 010 054 Kit 02A 911 209 B 020 911 209 021 911 209 036 911 209 A 068 911 209 E	0 001 125 005,006,009,010,018,019 DB/DW(L) 12V 1.6-2.0 kW R78-M10,-M25 12V(L) 1516724R, 1516749R,1516782R 97VW-11000-BA 004 151 87 01 911 604 102 01 964 604 104 00, 965 604 104 00 02A 911 023 B,-C,-G,-H,-S 02B 911 023 C 02M 911 023 A 020 911 023 A,-B,-D,-P,-PX 020 911 024 A 068 911 023 G,-M,-T 098 911 023
			replacement for 7 7255 1	
			alternative product for brass type 7 7127 1	
			field coil connector 64mm	
	7 7839 1	Bosch	2 004 336 240 1 004 336 408,429,737,777 808,990	0 001 109 012,029,047 0 001 125 001,002,012,013, 016,017,021,022
		VW	02A 911 209 C	DB(L) 2.0 kW 1516691R,-6812R,-6828R 028 911 023 M 02A 911 023 R,-RX 02B 911 023 D.-E 02T 911 023 C
			replacement for 7 7294 1	

IKA-No.	Original	References	Unit-Nos.
7 7171 1	Denso	028510-0640 028510-0840 028510-5500 with 2 negative brushes complete kit with positive brushes: 7 7371 1	028000-7000,-7001,-7002 028000-7003,-7370,-7372 028000-7373,-7740, 7790, 028000-8130, 9830 128000-0570,-0960,-1040
7 7172 1	Denso	028510-0500 028510-5390 with 2 negative brushes complete kit with positive brushes: 7 7372 1	028000-4800,-5000,-5300 028000-5301,-5510,-5511 028000-5860,-6290,-6870 028000-7240,-8070 128000-1790,3080 428000-1860
7 7179 1	Denso	028510-0880 Kit with 4 brushes	128000-0490,-2450,2470, 128000-2560,-2740,-3361 128000-4250,-4682-4685 228000-331,332,573 228000-585,700 12/24V 3.0/5.5KW
7 7181 1	Denso	028510-5190 with 2 negative brushes complete kit with positive brushes: 7 7381 1	128000-5210,5211,5680, -5682,6420,6422, -6720,6721,7400
7 7214 1	Denso	028510-0750,-5320 with 2 negative brushes complete kit with positive brushes: 7 7414 1	028000-6260,-7700,-8980,9320 028000-9321,-9380,-9860 128000-0050 1.4 kW OSGR-Starters with Cast Aluminium C.E. Frame






IKA-No.	Original	References	Unit-Nos.
7 7370 1	Denso	028510-0560 Kit with 4 brushes	028000-5330-35, -6380-82, -9490 Daihatsu
			
7 7371 1	Denso	028510-0640 028510-0840 028510-5500 Kit with additional positive brushes 2 x JAS 77	028000-7000,-7001,-7002 028000-7003,-7370,-7372 028000-7373,-7740, 7790, 028000-8130, 9830 128000-0570,-0960,-1040
			
7 7372 1	Denso	028510-0500 028510-5390 Kit with additional positive brushes 2 x JAS 88	028000-4800,-5000,-5300 028000-5301,-5510,-5511 028000-5860,-6290,-6870 028000-7240,-8070 128000-1790,3080
			
7 7377 1	Denso Italy Bosch	028510-6410,-6421, -6440,-6490 2 008 336 010 complete with 4 brushes	P76 - 12 Volt 2.0 kW BMW series 3,5,7 Citroen C5 Peugeot 307,407 Toyota Avensis,Corolla,Verso
			
7 7381 1	Denso	028510-5190 Kit with additional positive brushes 2 x JAS 52	128000-5210,5211,5680, -5682,6420,6422, -6720,6721,7400
			




	IKA-No.	Original	References	Unit-Nos.
	7 7414 1	Denso	028510-0750,-5320 Kit with additional positive brushes 2 x JAS 84	028000-6260,-7700,-8980,9320 028000-9321,-9380,-9860 128000-0050 1.4 kW OSGR-Starters with Cast Aluminium C.E. Frame
	7 7606 1	Denso Toyota	128099-6311,-6312,-6660 28130-20020,-28040 028510-7620 complete with 4 brushes brush set JASX 115-116 IKA P/N 0 1348 1	28100-0H050,-0H051,-0H060,-0H061,-0H100,0-0H110 28100-28040,-28041,-28042 28100-28050,-28051,-28052,-28053 28100-28080,-28081,-28082 12 Volt a/c Toyota Avensis 2.0/2.4,-Combi,-Stufenheck Avensis Verso 2.0 Camry 3.0,-Stufenheck 2.4/3.0 RAV 4 III 2.0 VVT-i 4WD
	7 7629 1	Denso MB	complete with 4 brushes	428000-5510,-5511 A 000 906 01 26 80 A 006 151 45 01 12V 1.8 kW Mercedes CDI
	7 7630 1	Denso Bosch Toyota	complete with 4 brushes	428000-4500,-4550,-4560,-5830,-6180 DSN920,-947,-948,-949,-980 0 986 023 260 28100-0D090,-0D180 28100-0J030,-0J031,-0J050 28100-0Q040,-0Q041,-0Q050 28100-0Y010,-0Y030 28100-40090,-40091,-40140 28100-47120,47121,-47122,-47130,-47131,-47132 12V 1.3 kW Toyota Avensis 1.6i/1.8i 16V,-Liftback,-Wagon 2003-2008 Corolla 1.6i/1.8i 16V >2004
NEW 	7 7631 1	Denso Toyota	complete with 4 brushes brush set JASX 101-102 IKA P/N 0 1933 1	428000-0670,-0680,-0700, 428000-1640,-1750 12 Volt






IKA-No.	Original	References	Unit-Nos.
7 7211 1	Ford-Visteon	E90Z-11061-A,B,C complete with 4 brushes	E90F-11000-AA,-BA E9SF-11000-AA,-BA F02F-11000-AA F07U-11000-AA,-BA F0CF-11000-AA,-BA F0OU-11000-AA F13U-11000-AA F17U-11000-AB F1VU-11000-AA PMGR-Starter Ford USA
7 7212 1	Ford-Visteon	F3RZ-11061-A complete with 4 brushes	93BB-11000-HB,-JB,-JC, 93BB-11000-KA,-KB,-KC PMGR-Starter Ford Europe
7 7213 1	Ford-Visteon	1C3U-11424-AA 1C3U-11434-AA with 2 negative brushes two component grade O.E. version complete kit with positive brushes: 7 7313 1	1C2U-11000-AA 1C2Z-11002-AA 1C3U-11000-AA,-AB,-AC,-AD,-AE 1C3Z-11002-AA 2C2U-11000-AA 2C3T-1000-AA 2C3Z-11002-AA PMGR-Starter 12V 3,6kW
7 7215 1	Ford-Visteon	complete with 4 brushes	1S7U-11000-AB, -AC, 2S6U-11000-EB, 96BB-11000-AA, -AB, -AC 98AB-11000-BB, -BC, -CC, -CD, YS4U-11000-AA, -BA
7 7261 1	Ford-Visteon	F7RU-11434-BA complete with 4 brushes	97BB-11000-BB,BC 97VB-11000-AA,AB 98AB-11000-AC 98VB-11000-BA,B1A,B3A 12V 1.9 kW

IKA-No.	Original	References	Unit-Nos.
7 7313 1	Ford-Visteon	1C3U-11424-AA 1C3U-11434-AA Kit with additional positive brushes 2x F76 two component grade O.E. version	1C24-11000-AA 1C2U-11000-AA 1C2Z-11002-AA 1C3U-11000-AA,-AB,-AC,-AD,-AE 1C3Z-11002-AA 2C24-11000-AA 2C2U-11000-AA 2C3T-11000-AA 2C3Z-11002-AA PMGR Starter 3.6 kw 12 Volt



IKA-No.	Original	References	Unit-Nos.
7 7140 1	Hitachi	2114-23106 2114-53104,-53105 2114-63104,-73105 complete with positive brush-pair	S114-750,751,753,758,762A, 765,766A,775A,800,801 804,805,808,816,818 829A,-B,850 Opel Astra D Opel Corsa D
			
7 7141 1	Hitachi	2114-4311, -19008 2114-29007,-39001,-49007 2114-69008,-79001,-89007 23378-0500 23378-05E00 23378-M4901	S114-252,-A,-F,253A,-B,254A,-C,-D S114-255A,256B,257,357A,374B S114-393,480,481,489,525
	Nissan	with 2 negative brushes	
		complete kit with positive brushes: 7 7341 1	
7 7142 1	Hitachi	2130-1306,-13022 2130-73021,-73022,-93021 2240-1310,-2310,-3310 23378-10G100	S13-62,62B,64,69,83,84,89A, S13-89B,92A,100,101,102, S13-104,105,105A,106A,-B,-C S13-107A,114,121
		with 2 negative brushes	
		complete kit with positive brushes: 7 7342 1	
7 7143 1	Hitachi	2250-7310	S13-33,-A,-B,-34A,-37,-B S13-38B,-41A,-B,-45A,-B S25-156 Nissan 23300-C8601 Nissan 23300-J5500
		with 2 negative brushes	
		complete kit with positive brushes: 7 7343 1	
7 7341 1	Hitachi	2114-4311, -19008 2114-29007,-39001,-49007 2114-69008,-79001,-89007	S114-252,-A,-F,253A,-B,254A,-C,-D S114-255A,256B,257,357A,374B S114-393,480,481,489 Nissan 23378-05E00
		Kit with additional positive brushes 2 x JAS 81	

IKA-No.	Original	References	Unit-Nos.
7 7342 1	Hitachi	2130-1306,-13022 2130-73021,-73022,-93021 2240-1310,-2310,-3310 23378-10G100	S13-62,62B,64,69,83,84,89A, S13-89B,92A,100,101,102, S13-104,105,105A,106A,-B,-C S13-107A,114,121
		Kit with additional positive brushes 2 x JAS 74	
7 7343 1	Hitachi	2250-7310	S13-33,-A,-B,-34A,-37,-B S13-38B,-41A,-B,-45A,-B S25-156 Nissan 23300-C8601 Nissan 23300-J5500
		Kit with additional positive brushes 2 x JAS 36	
7 7524 1	Hitachi	2114-23104,-39008, -83102,-93102	S114-505,-A,507A,509,516,-A 517,-C,518,519A,523 526,-A,-B,527,-A,-B,530,533 535,701A,-B,-BR,705A
		complete with 4 brushes and 4 springs	





IKA-No.	Original	References	Unit-Nos.
7 7190 1	Marelli / FIAT	832 244 61 832 253 26 with 1 negative brush complete kit with positive brushes: 7 7390 1	E80E 0,9-12 631 020 03,04,07,08 632 229 00,01 632 230 85 632 231 01,03,08 632 931 01 Brava,Palio,Tipo
			
7 7191 1	Marelli / FIAT Bosch	832 263 36 2 008 336 015 with 2 negative brushes complete kit with positive brushes: 7 7391 1	E95RL 2,2/2,6-12 631 140 08,10,14 Ducato
			
7 7192 1	Marelli / FIAT	832 212 41 with 2 negative brushes complete kit with positive brushes: 7 7392 1	E80 0,8/1-12 632 228 31-33,36-38 632 230 31-34
			
7 7193 1	Marelli / FIAT Bosch	542 944 44 832 204 61 2 008 336 014 with 2 negative brushes complete kit with positive brushes: 7 7393 1	M70R 1,4/1,8-12 E70R 1,4-12 631 110 00,05,08 632 234 30-33,35,36 632 235 30-33 632 236 39 632 934 35
			
7 7194 1	Marelli / FIAT	832 258 86 with 2 negative brushes complete kit with positive brushes: 7 7394 1	632 230 39 632 233 04 632 930 39 E80E
			

IKA-No.	Original	References	Unit-Nos.
7 7390 1	Marelli / FIAT	832 244 61 832 253 26 Kit with additional positive brushes 1 x JS 39 1 x JS 40	E80E 0,9-12 631 020 03,04,07,08 632 229 00,01 632 230 85 632 231 01,03,08 632 931 01 Brava,Palio,Tipo
7 7391 1	Marelli / FIAT	832 263 36 Kit with additional positive brush pair JS 54	E95RL 2,2/2,6-12 631 140 08,10,14 Ducato
7 7392 1	Marelli / FIAT	832 212 41 Kit with additional positive brushes 2 x JS 36	E80 0,8/1-12 632 228 31-33,36-38 632 230 31-34
7 7393 1	Marelli / FIAT	542 944 44 832 204 61 Kit with additional positive brushes 2 x JS 34	M70R 1,4/1,8-12 E70R 1,4-12 631 110 00,05,08 632 234 30-33,35,36 632 235 30-33 632 236 39 632 934 35
7 7394 1	Marelli / FIAT	832 258 86 Kit with additional positive brushes 1 x JS 45 1 x JS 57	632 230 39 632 233 04 632 930 39 E80E






IKA-No.	Original	References	Unit-Nos.
7 7395 1	Marelli / FIAT	721 641 01 Kit complete with 4 brushes	632 171 01,04-08,10,12,16-21,25, 632 171 26,38,47,48,54,56,58,63, 632 171 73,80,82,86,88,97 632 174 01-04,07,08,10,25,33,47 MT71 / MT74 - 12 Volt
7 7396 1	Marelli / FIAT	721 641 02 Kit complete with 4 brushes	632 172 25,26 MT72 - 24 Volt
7 7397 1	Marelli / FIAT	721 647 01 723 627 01 Kit complete with 4 brushes	632 168 02,08,11,14-18,25-27,31, 632 168 33,51,52,59,61,73,74,76, 632 168 84,96,98 MT68 - 12 Volt
7 7398 1	Marelli / FIAT	721 650 01 Kit complete with 4 brushes	632 167 01-04,06-08,10,25-27,31, 632 167 33,38,40,41,47,48,63 MT67 - 24 Volt

IKA-No.	Original	References	Unit-Nos.
7 7182 1	Melco	M649T03571 M649X02572,-03573 with 2 negative brushes complete kit with positive brushes: 7 7382 1	M3T10172,10271,10272,10372, 10473,10475,10476,10672, 10977,11173
7 7183 1	Melco	M649T01371 M649T02271 M649T04871 Mitsubishi MD607555 MD607926 MD618513 Hyundai 36170-21740	M2T20181D,30481,30581,30981, 31081,32281,32581,32782D, 37081,41181,41182,42381, 42481,42781,42881,42981, 42985,43681,43781,43881, 44081,44781,48081,49281, 49282,49881 M3T10476D,21781D,21882D, 27686H,27781,27781D, 29482D,30081,30082,30281 30282,30285,30286,30381, 30382,30581,30781,30782, 30881,30981,32581,32582, 32583,32589,32591-32593, 32681,32782,32782D,33081 33182,33282,33581,33582, 33582A,33583,33585,33586, 33586A,33586D,33587, 33588,34782,35081,35082, 36081,37481,37781,37782, 38481,38581,38682,38881, 38881A,B,C,38882, 38882A,B,C,38883,38884, 38885,39385,39981,41081, 41083,41181,41285,41381, 41781,42781,42881,43881, 44081,70381, 36100-11150,21760,21770
7 7185 1	Melco	M649T02171 with 2 negative brushes complete kit with positive brushes: 7 7385 1	M2T60071-073,60171 60185,60271,60371, 60571,92071,92172, 92271
7 7186 1	Melco	M649T05071 with 2 negative brushes complete kit with positive brushes: 7 7386 1	M2T54172,54271,54371,54372, 54572,55971,56071,56171, 56181,56182,56271,56272, 56471,56472,56971,57271, 61071,61171,61371,61471, 61771,62271,65971 36100-42011

IKA-No.	Original	References	Unit-Nos.
7 7187 1	Melco Hyundai/KIA	M649T01271,1272,-1273 M649T06871,-09371,-09471 36169-32510 36170-32500 complete with positive brush pair	M1T70381,70481,70483,70485, 70781,70881,71381,71881, 72581,72583 HSP112110,112130 MG112014,MP112023 36100-32510
7 7188 1	Melco	M649T01671 M649T06971 complete with positive brush-pair	M1T74081,74181,74281,74283, 74381,74481,74482,74581, 74583,74781,74781A,75181, 75281,75283,75381,75581, 75681,76081,76281
7 7189 1	Melco Nissan	M649T04471 M649X09571 23378-N5912 with 2 negative brushes suitable for 3 and 4 brushes version complete kit with positive brushes: 7 7389 1	M2T23685,-24181,-24281,-25481 25581,-25681,-50171,-50181 50281,-50285,50371,-50381 50391,50585,51085,52181 52681,52881,52882,53181, 53781,53785,58581, M3T21882D 23300-00H10
7 7274 1	Melco Mitsubishi	M649T20471 M649X20471 ME701467 with 2 negative brushes complete kit with positive brushes: 7 7374 1	M2T84071,-ZT, M2T84171,-ZT, M2T84271, M2T84371, M2T 84571 M2T84671, M2T84771, M2T87071, M2T87171 1810A050, 181A053 12 Volt
7 7275 1	Melco	M321X07076 complete with positive brush pair	M0T80281B,-82881,-87881 91581 DACIA






IKA-No.	Original	References	Unit-Nos.	
	7 7374 1	Melco Mitsubishi	M649T20471 M649X20471 ME701467 Kit with additional positive brushes 2 x JAS 70	M2T84071,-84171,-84271,-84371, 84571,-84671,-87071,-87171
	7 7382 1	Melco	M649T03571 M649X02572,-03573 Kit with additional positive brushes 2 x JAS 70	M3T10172,10271,10272,10372, 10473,10475,10476,10672, 10977,11173
	7 7383 1	Melco Mitsubishi Hyundai	M649T01371 M649T02271 M649T04871 MD607555 MD607926 MD618513 36170-21740 Kit with additional positive brushes 2 x JAS 83	M2T20181D,30481,30581,30981, 31081,32281,32581,32782D, 37081,41181,41182,42381, 42481,42781,42881,42981, 42985,43681,43781,43881, 44081,44781,48081,49281, 49282,49881 M3T10476D,21781D,21882D, 27686H,27781,27781D, 29482D,30081,30082,30281 30282,30285,30286,30381, 30382,30581,30781,30782, 30881,30981,32581,32582, 32583,32589,32591-32593, 32681,32782,32782D,33081 33182,33282,33581,33582, 33582A,33583,33585,33586, 33586A,33586D,33587, 33588,34782,35081,35082, 36081,37481,37781,37782, 38481,38581,38682,38881, 38881A,B,C,38882, 38882A,B,C,38883,38884, 38885,39385,39981,41081, 41083,41181,41285,41381, 41781,42781,42881,43881, 44081,70381 36100-1150,-21760,-21770
	7 7384 1	Melco Mitsubishi Nissan	M648X28671 M649T05072 Kit with 4 brushes 24 Volt	





IKA-No.	Original	References	Unit-Nos.
7 7385 1	Melco	M649T02171 Kit with additional positive brushes 2 x JAS 71 12 Volt	M2T60071-073,60171 60185,60271,60371, 60571,92071,92172, 92271
7 7386 1	Melco Mazda Mitsubishi Nissan	M648X28271 M649T05071 Kit with additional positive brushes 2 x JAS 99 12 Volt	M2T54172,54271,54371,54372, 54572,55971,56071,56171, 56181,56182,56271,56272, 56471,56472,56971,57271, 61071,61171,61371,61471, 61771,62271,65971 36100-42011
7 7389 1	Melco Nissan	M649T04471 M649X09571 23378-N5912 Kit with additional positive brushes 2 x JAS 70 suitable for 3 and 4 brushes version	M2T23685,-24181,-24281,-25481 25581,-25681,-50171,-50181 50281,-50285,50371,-50381 50391,50585,51085,52181 52681,52881,52882,53181, 53781,53785,58581, M3T21882D 23300-00H10
7 7525 1	Melco Mitsubishi Ford	M649T04971,-04972 M649T07371 M371X07371 ME 700047 ME 700939 E5PF-11061-A E5PF-11434-AA w/o. brushes and springs for brush set JASX 71-72 IKA P/N 0 1972 1 complete kit: 7 7625 1	M3T56071,-56072,-56076, 56082,-56174,-56181, 56182,-56183,-56272, 56471,-66071,-66072, 66073,-66074 67171,-67172 E8TF-11000-AA F3TU-11000-AA
7 7526 1	Melco	M321X04471,-04771 M321X05171,-07071 complete with springs and brushes	M0T60081,-60082,-70881 M0T80081,-80281,-A,80285,-A M0T80381,80581,-80981 M0T81081,-81281,-81284,-81681 M0T82281,-83981,-85981 M1T60285,-84181,-86281,-ZC






IKA-No.	Original	References	Unit-Nos.
7 7527 1	Melco Mitsubishi	M649X20771 ME701495 with 4 springs and 2 negative brushes 24 V	M2T80772, M2T87571, M2T87871, M2TS5071 M8T80071,-A,-B, M8T80171, M8T80371, M8T80372, M8T80373
			
7 7528 1	Melco	M321X10276 complete with springs and brushes	M0T70381,-70481,-81181 M1T70483,-73383,-84883
			
7 7625 1	Melco Mitsubishi Ford	M649T04971,-04972 M649T07371 M371X07371 ME 700047, ME 700939 E5PF-11061-A E5PF-11434-AA	M3T66071-074 M3T67171,-172
		Kit Kit with 4 springs and brush set JASX 71-72 IKA P/N 0 1972 1	
7 7628 1	Melco Honda	M321X15071	M0T20871, M0T20871ZE, M0T20872ZE M0T21471, M0T30771, M0T32171, M0T32172, M0T35471, M0T36071, M0T45071ZT, M0T45171
			
NEW	7 7634 1	Melco	M000T22472, -22472, -22473 M000T32271, -32272, -32571, -32771 M000T33071 M000T46171 M000T93581 12V
			






IKA-No.	Original	References	Unit-Nos.
7 7168 1	Remy	1988121,1988122 1988439 w/o. brushes brush set RX 134 (12V) 0 1282 1 brush set RX 134H (24V) 0 1259 1 complete kit 12V 7 7368 1 complete kit 24V 7 7468 1 latest models require: brush set RX 134-2C (12V) 0 1264 1 brush set RX 134H-2C (24V) 0 1265 1	10478809,10,20,24,36,39 92-94 10478918,31 42MT 12/24 Volt
7 7169 1	Remy	10475602 complete with 4 brushes	9000786, 798, 804-806, 812, 9000819-822, 827, 834, 835, 9000844, 850, 851, 853 PG260M 12 Volt
7 7175 1	Remy	10468705,10468706 10469238,10470140 w/o. brushes brush set RX 135 (12V) 0 1283 1 brush set RX 135H (24V) 0 1260 1 complete kit 12V 7 7375 1 complete kit 24V 7 7475 1	37MT, 41MT series DD 12/24 Volt
7 7176 1	Remy	1979387,1979494 with terminal post w/o. brushes brush set RX 122 (12V) 0 1280 1 brush set RX 122H (24V) 0 1256 1 complete kit 12V 7 7376 1 complete kit 24V 7 7476 1	40MT 400,450 12/24 Volt
7 7178 1	Remy	10456456 w/o. brushes brush set RX 457-458 (12V) 0 1255 1 brush set RX 419-420 (24V) 0 1254 1 complete kit 12V 7 7378 1 complete kit 24V 7 7478 1	28MT 12/24 Volt




IKA-No.	Original	References	Unit-Nos.
7 7180 1	Remy	1984974,1985065 with terminal post w/o. brushes brush set RX 124 (12V) 0 1281 1 brush set RX 124H (24V) 0 1257 1 complete kit 12V 7 7380 1 complete kit 24V 7 7480 1	50MT 12/24 Volt
7 7263 1	Remy	10472352 w. 4 brushes 10476006 w. 2 brushes complete with 4 brushes	PG150, PG150S, PG260F1 9000785,-833,-839,-840,-847, -859,-871,872,-873,-884 21020-761,-893 21021-366
7 7264 1	Remy	10475107 complete with 4 brushes	SD80F 10455506,9627548
7 7368 1	Remy	1988121 Kit with brush set RX 134 IKA P/N 0 1282 1	42MT 12 Volt
7 7375 1	Remy	10468705 Kit with brush set RX 135 IKA P/N 0 1283 1	37MT, 41MT series DD 12 Volt



IKA-No.	Original	References	Unit-Nos.
7 7376 1	Remy	1979387 Kit with brush set RX 122 IKA P/N 0 1280 1	40MT 12 Volt
			
7 7378 1	Remy	10456456 Kit with brush set RX 457-458 IKA P/N 0 1255 1	28MT 12 Volt
			
7 7380 1	Remy	1984974 with terminal post Kit with brush set RX 124 IKA P/N 0 1281 1	50MT 12 Volt
			
7 7468 1	Remy	1988439 Kit with brush set RX 134H IKA P/N 0 1259 1	42MT 24Volt
			
7 7475 1	Remy	10469238 Kit with brush set RX 135H IKA P/N 1260 1	37MT, 41MT series DD 24 Volt
			

IKA-No.	Original	References	Unit-Nos.
7 7476 1	Remy	1979494 Kit with brush set RX 122H IKA P/N 0 1256 1	40MT 24 Volt
			
7 7478 1	Remy	10456456 Kit with brush set RX 419-420 IKA P/N 0 1254 1	28MT 24 Volt
			
7 7480 1	Remy	1985065 Kit with brush set RX 124H IKA P/N 0 1257 1	50MT 24 Volt
			
7 7632 1	Remy Melco	39MT	19011501, 19011504, 19024196 M9T80472,-80473,-83671,-83672, 24 Volt
			

	IKA-No.	Original	References	Unit-Nos.
	7 7146 1	Valeo VW	190987,191335,191824, 193288,200393 A1200393 02M 911 209F complete with brushes PSX 163-164 IKA P/N 0 1740 1	D7GS8,D7GS10 TS18E1,TS18E3,TS18R123,TS18ER SIH anticlock VW Overload Protection Starters 02Z 911 024JX
	7 7147 1	Valeo	190097,190986,191141 191821,191823 limited stock replaced by 7 7149 1	D7G11, D7G3, D7G4, D7GS9 SH clockwise Overload Protection Starters Audi,BMW,PSA
	7 7149 1	Valeo	192984 190097,190986,191060,191141, 191821,191822,191823,191984 complete with brushes PSX 160-164 IKA P/N 0 1735 1 replacement for 7 7147 1 and 7 7148 1	D7G... SH clockwise Overload Protection Starters Audi/BMW Ford/PSA/Renault
	7 7150 1	Valeo	181 961 594 072 brush length 14.5 mm w/o. brushes and springs	D6RA8,10 PSX 146-147
	7 7151 1	Valeo	183 957, 186381 594 070 brush length 16.5 mm w/o. brushes and springs	D6RA5,6,12,16,18,20,61 PSX 148-149

IKA-No.	Original	References	Unit-Nos.
7 7152 1	Valeo	for 4 brushes w/o. brushes and springs brush set PSX 129 IKA P/N 0 1766 1	D8E... / D9E...
			
7 7153 1	Valeo	for 2 brushes w/o. brushes and springs brush set PSX 133 IKA P/N 0 1770 1	
			
7 7156 1	Valeo	for 2 and 4 brushes w/o. brushes and springs brush set with 2 brushes PSX 138-139 IKA P/N 0 1775 1 brush set with 4 brushes PSX 140-141 IKA P/N 0 1776 1	D9R...
			
7 7157 1	Valeo	with 4 springs and 4 caps w/o. brushes brush set PSX 142-143 IKA P/N 0 1779 1 brush set PSX 142-144 IKA P/N 0 1752 1 brush set PSX 142-145 IKA P/N 0 1754 1	D7R...
			
7 7159 1	Valeo	594290 3 brushes 594351 4 brushes 594479 4 brushes complete with 4 brushes fits 3 brushes version brush set PSX 155 (3) IKA P/N 0 1727 1 brush set PSX 155 (4) IKA P/N 0 1728 1	D7E 1,16,29-32,39-42 D7E 4,6,8,15,18-20,22,23,27,38,52,70 D7ED28,281 D7E62,79 SH 12 Volt clockwise PSA Mercedes A-class, Renault
			

	IKA-No.	Original	References	Unit-Nos.
NEW 	7 7159 2	Valeo	594290 3 brushes 594351 4 brushes 594479 4 brushes alternative product O.E. product = 7 7159 1	D7E1, 16, 29-32, 39-42 D7E4, 6, 8, 15, 18-20, 22, 23, 27, 38, 52, 70 D7ED28, 281 D7E62, 79 SH 12 Volt clockwise
	7 7165 1	Valeo	555649, 594381 187946 complete with 4 brushes brush set PSX 156 IKA P/N 0 1726 1	D7ES 2, 4-7 SIH 12 Volt anticlock VW
	7 7601 1	Valeo	199411 brush holder with bracket with two component brushes	D6G... SIH anticlock VW
	7 7602 1	Valeo	594674 195253 brush holder with bracket with two component brushes	D6G... SH clockwise
	7 7603 1	Valeo	195713 brush holder with bracket with two component brushes	

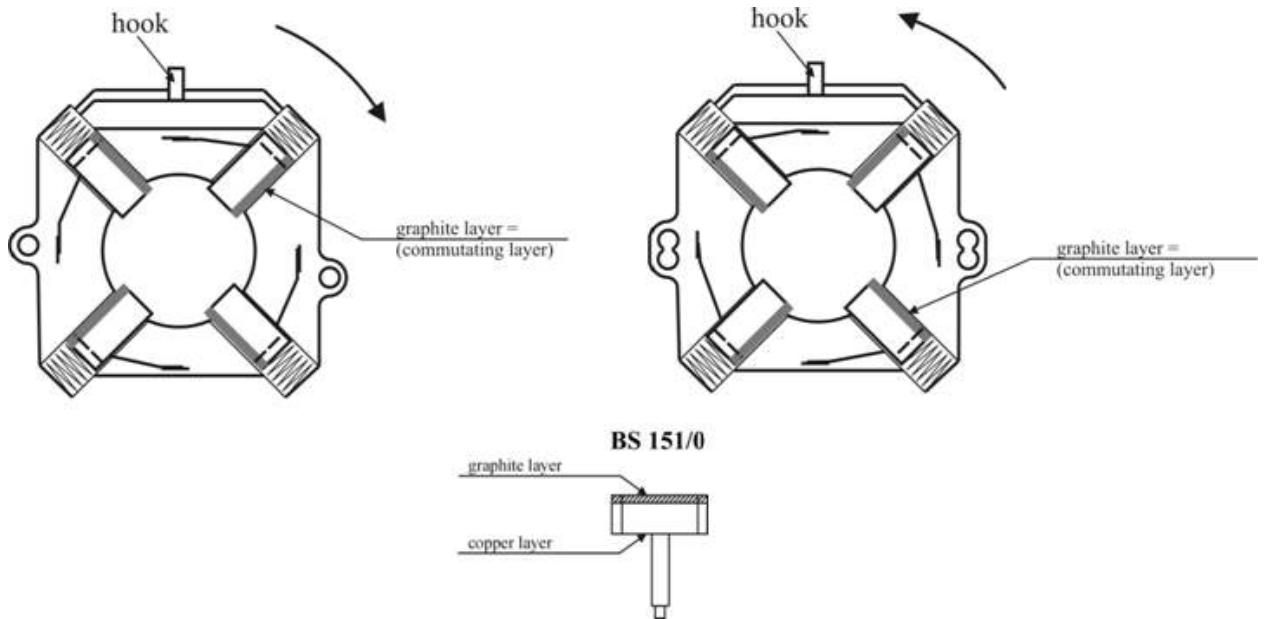
	IKA-No.	Original	References	Unit-Nos.
	7 7604 1	Valeo	594706 194404 brush holder with bracket with two component brushes	D6G3.. SH clockwise
NEW 	7 7633 1	Valeo Korea Hyundai/Kia		TM000A27301, TM000A27601 TM000A31001, TM000A37001 36100-22800 12V

Assembly Instructions for Bosch Gear-Starter Brushes

Starter-Unit EV 2,2 KW 12 Volt 0 001 218 ...

7 7130 1 clockwise rotation EV(R)

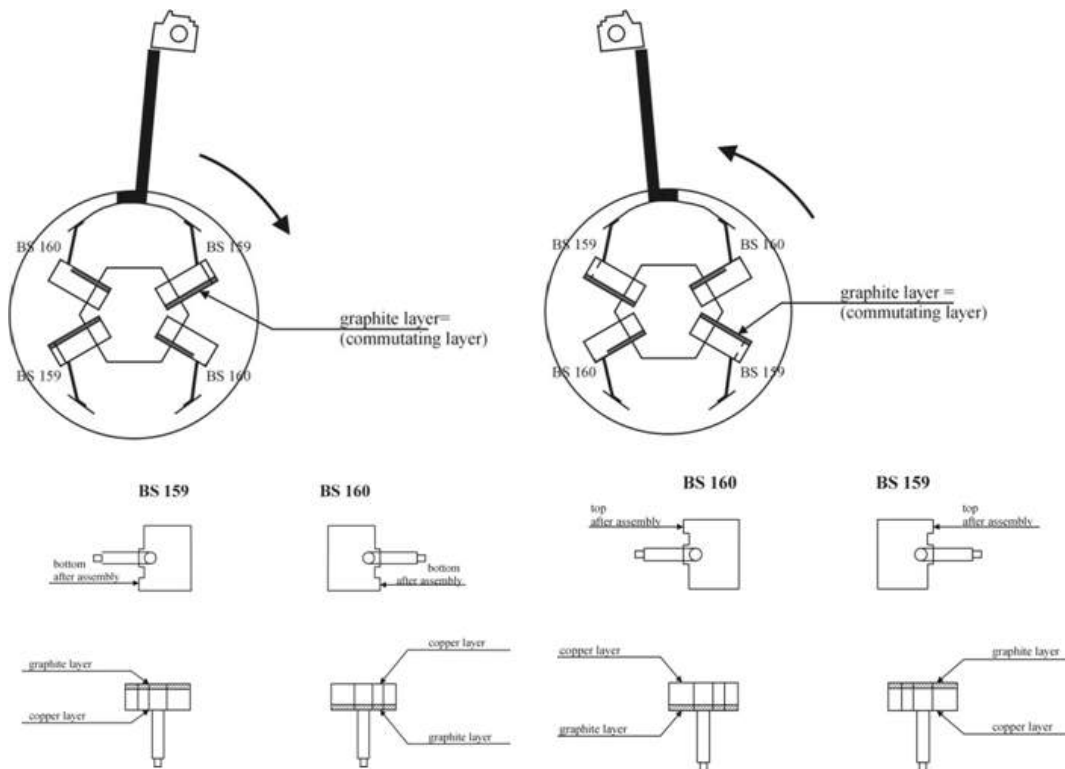
7 7133 1 anticlock rotation EV(L)



Starter-Unit DW 1,1 KW 12 Volt 0 001 108 ...

7 7124 1 clockwise rotation DW(R)

7 7128 1 anticlock rotation DW(L)



Assembly Instructions for Brush holder with 6 brushes

Brush holder 7 7538 1 with 3 x BS 234 and 3 x BS 235

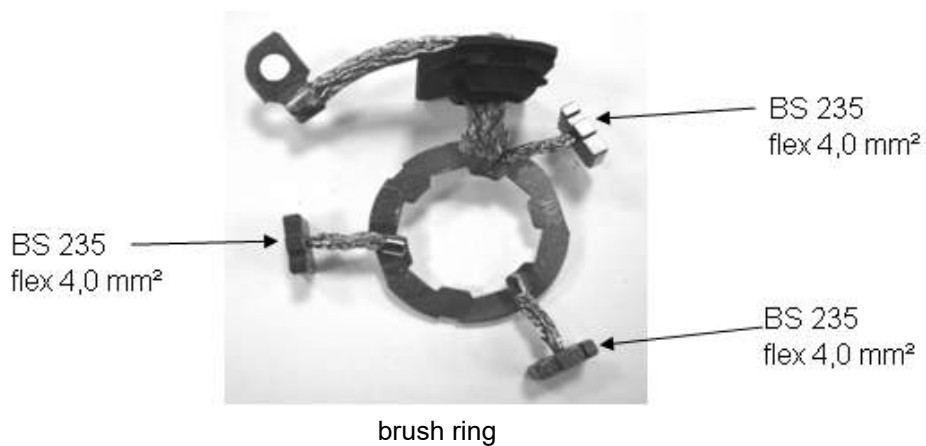
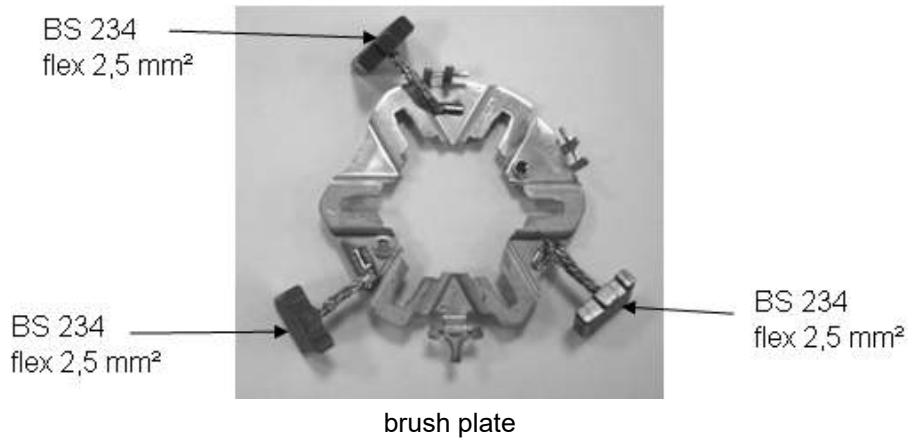
SF78-M 12V (L) VW Start/Stop Overload Protection Starters



bottom



top



Attention!

(L) anti clock rotation: all brushes with assembly mark left in direction to brush ring

(R) clockwise rotation: all brushes with assembly mark right in direction to brush plate



3



STARTERRITZEL

STARTER DRIVES







LANCEURS DE DEMARREUR











IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5174 1	Belarus	CT212-3708600	16/36 x 107 10 teeth Splines 4 E CW	CT212-3708000 CT212-394057 CT212-PT12880
				
NEW 4 5178 1	Belarus	CT352-37086003	16/36 x 107 10 teeth Splines 12 E CW	CT352-3708000
				





IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5000 1 	Bosch	2 006 380 558 2 006 381 558 3550	41 x 120 11 teeth	0 001 401 002,044,045,046 0 001 402 002,051,052,053, 057
	Femsa Fiat Iskra Marelli	9008738 18 100 021 74372580,74372630	CW	0 001 501 003,020,032 11 130 158
4 5001 1 	Bosch	2 006 380 010 2 006 380 410 2 006 381 010 2 006 381 410	35 x 120 9 teeth	0 001 401 007,025,041,049,050,051 052,061,066,074
	CAV Fiat Iskra Marelli	5549 306BJ 8122125,9004794,9923779 18 100 098 74372530	CW	0 001 402 008,050,054,055,058,059, 060,061,071,075,080,081, 083 0 001 501 001,038
4 5002 1 	Bosch	2 006 209 452 2 006 209 495 2 006 209 532	14.3/40 x 91 10 teeth	0 001 362 302,324 0 001 367 002,017,020,047,048, 051,057,066,070,071, 076,077,302
	DAF Fiat Iveco	067031 9959813 93159768	Splines 10 E CW	0 001 368 023,034,040,044,052, 060,066,068,070,072, 076,082,087,306,312, 0 001 369 002,012 9 000 143 412,415,416,601
4 5003 1 	Bosch	2 006 209 471	12/26 x 71 9 teeth	0 001 362 047,069,070,077, 078,083
	Iskra MB Volvo VW	16 900 920 A 000 151 68 13 000 151 68 13 1257680 069 911 335	Splines 10 E CW	11 130 300 11 130 399
4 5005 1 	Bosch	086 264 492 2 006 209 492 2 006 209 529 2 006 209 530 2 006 209 536 2 006 209 930	14.3/35 x 91 9 teeth	0 001 362 051,063,096,097,300, 306,309
	Fiat MB Remy	79034927,8122157,9959619 A 001 151 00 13 001 151 00 13 190245520 19025715	Splines 10 E CW	0 001 363 116 0 001 364 301 0 001 366 018,021 0 001 367 001,004,005,007,010, 011,012,014,019,021, 023,026,027,030,031, 034,039,045,046,049, 050,052,059,068,074, 300,301,303 0 001 368 001,002,003,005,007, 008,010,011,012,013, 014,017,018,021,022, 024,028,030,031,032, 033,035,047,055,061, 062,063,300,301







IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5006 1 	Bosch MB	1 006 209 523 9 003 336 291 A 000 151 95 13 000 151 95 13	12/28 x 64 10 teeth Splines 10 E CW	0 001 218 006,016,021,029,108 109,110,150,156,160 0 001 219 001,007,009,013
4 5007 1 	Bosch Fiat VW	1 006 209 543,544,576, 596,703,710, 918,919,921 1 007 010 045 9944373 020 911 335 B	12/26 x 58 9 teeth Splines 10 E AC	0 001 108 094,095,127 110 001,002,014,015,076 077,098,099,133 112 003,004,038,039 113 011,012 114 005,006
4 5008 1 	Bosch Fiat Iveco	9 002 336 283 9939710 42531397	12/36 x 62 9 teeth Splines 10 E CW	0 001 218 014,019,024,101 102,103,154,159 163,164,167,174
4 5010 1 	Bosch VW	1 006 209 553,558,565, 583,591,910, 911,922 021 911 335	12/28 x 79 10 teeth Splines 10 E AC	0 001 107 005,006 108 076,077,096 110 069,070,086,87 118,119 114 009,010
4 5014 1 	Bosch VW	1 006 209 552,594,912 02A 911 335 D	12/28 x 79 10 teeth Splines 10 E AC	0 001 110 031,032,061,062 084,085
4 5015 1 	Bosch VW	1 006 209 579,917 9 001 081 010 F 000 AL1 704 02A 911 335 C	12/28 x 76 10 teeth Splines 10 E AC	0 001 107 003,004,022,023 9 000 081 001,002

IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5017 1 	Bosch	1 006 209 584 1 006 209 600 1 006 209 686 9 001 081 033 9943565	12/26 x 54 9 teeth Splines 10 E CW	0 001 106 012,017,022,023 107 009,012,013,015 017,018,019,025 026,034,044,045 056,070,071 100,101
	Fiat PSA Renault VW	5835.A8 7701049503 053 911 335 A		9 000 081 004
4 5021 1 	Bosch	1 006 209 618,638,667, 672,677,690, 787,937	12/26 x 49 9 teeth Splines 10 E CW	0 001 107 037,048,054,055,067 068,069,072,073,074 076,094,095,096
	Fiat Opel	9947831 90543728		0 001 108 162,166,167,172,173 174,175,178,188,189 199,204 0 001 109 018 0 001 115 002,007,012,015,020,024
4 5022 1 	Bosch	1 006 209 621 1 006 209 648 1 006 209 699	11/28 x 81 10 teeth Splines 16 E AC	0 001 124 001,002,005,006 0 001 125 001,002,007,008, 011,012,013,021, 022,031,042,051
	VW	02T 911 335 047 911 335 D		
4 5024 1 	Bosch	1 006 209 628 1 006 209 649 1 006 209 758	11/28 x 81 9 teeth Splines 16 E AC	0 001 124 003,004,013,014 0 001 125 005,006,009,035
	VW	047 911 335 F		
4 5025 1 	Bosch	1 006 209 624,633,692, 696,706,715, 944	12/26 x 47 9 teeth Splines 10 E CW	0 001 106 011,014,015 0 001 107, 047,063,077 091,097
	Fiat	9948703		0 001 108 171,176,184 0 001 112 035,041 0 001 116 003
4 5031 1 	Bosch	1 006 209 645 1 006 209 802 1 006 209 950	12/29 x 49 9 teeth Splines 10 E CW	0 001 109 025,030,033,035,045 200,201,253,267-270
	Fiat	9947843		

IKA-No.	Original	References	Dimensions	Unit-Nos.
 4 5032 1	Bosch Fiat	1 006 209 634,660,779,792 77363343	12/30 x 49 9 teeth Splines 10 E CW	0 001 107 062 108 157,169
 4 5033 1	Bosch Renault	1 006 209 671 77 01 044 934	12/30 x 49 11 teeth Splines 10 E CW	0 001 108 180,182,186
 4 5035 1	Bosch Fiat MB PSA	1 006 209 631,635,678 77362114 A 001 151 27 13 001 151 27 13 5835.F3	12/28 x 49 10 teeth Splines 10 E CW	0 001 108 183 0 001 109 036,250 0 001 110 112 0 001 115 001,008
 4 5036 1	Bosch	1 006 209 681 1 006 209 943	12/28 x 104 10 teeth Splines 16 E AC	0 001 125 016,017,018,019 046,047,048,049 605,606
 4 5038 1	Bosch Iveco Renault	6 033 AD0 077 6 033 AD1 002 42535270 50 01 856 564	12/36 x 62 9 teeth Splines 16 E CW	0 001 223 003,007
 4 5039 1	Bosch DAF Iveco John Deere	6 033 AD0 184 6 033 AD0 200 6 033 AD4 019 9 002 336 237 1382550 42537064 RE 50 881 3	14.3/40 x 82 10 teeth Splines 10 E CW	0 001 230 004,008,009 231 012,016,017

IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5040 1 	Bosch MB	0 952 236 000 6 033 AD0 442 6 033 AD0 462 6 033 AD3 006 6 033 AD3 108 6 033 AD3 244 6 033 AD3 850 6 033 AD4 034 9 002 336 236 001 151 18 13 001 151 32 13	14.3/34 x 82 9 teeth Splines 10 E CW	0 001 230 001,006,012 231 002,003,005,018
4 5042 1 	Bosch Fiat	1 006 209 653 1 006 209 751 1 006 209 947 9948378	12/26 x 49 9 teeth Splines 10 E CW	0 001 109 041,048,061,063 252,256,264
4 5046 1 	Bosch Opel VW	1 006 209 793 1 006 209 801 1 006 209 807 93176041 03G 911 335 B	11/26 x 48 9 teeth Splines 16 E CW	0 001 107 401- 406 408,409,421 427,428,435 436,446,447
4 5047 1 	Bosch	1 006 209 804	11/27 x 48 10 teeth Splines 16 E CW	0 001 107 407,410 417,418
4 5048 1 	Bosch	1 006 209 812	11/28 x 48 10 teeth Splines 16 E CW	0 001 108 400
4 5051 1 	Bosch Toyota	1 006 209 695 28011-0D030	12/35 x 47 11 teeth Splines 10 E CW	0 001 107 088 28100-0D030







IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5057 1 	Bosch	2 006 209 241 2 006 209 242 2 006 209 249 2 006 209 331 2 006 209 332	12/26 x 73 9 teeth Splines 10 E CW	0 001 362 001,003,004,007, 027,028,029,030
	MB	000 151 83 13		
4 5058 1 	Bosch	2 006 209 470 2 006 209 483 9 001 451 343	14..3/35 x 74 9 teeth Splines 10 E CW	0 001 362 039,062,073,102,105, 322,323
	Fiat Iveco	79026090,9936730,9937949 9956676,9983629 79026090		0 001 363 111,122 4728682
4 5059 1 	Bosch	2 006 209 449 2 006 209 469 2 006 209 476 2 006 209 485 2 006 209 504	14.3/34 x 74 9 teeth Splines 10 E CW	0 001 362 034,036,040,041,046, 046,050,053,072,074, 075,076,091,305,308, 311,313,314,320
	Fiat Remy Volvo	60732870 19024524 2199120		0 001 363 107,109,110,112,113, 114,115,124 0 001 366 001,002,004,009,014, 014,015,017,020,022, 0 001 369 014,024
4 5061 1 	Bosch	1 006 209 503,504,506,509, 513,526,528,530, 531,536,548,563, 567,570,572,573, 582,597,619,684, 685,693,694,701, 702,705,707,709, 711,906,939	12/26 x 58 9 teeth Splines 10 E CW	0 001 108 001,002,003,007,009,010 011,012,016,017,018,019 022,023,024,026,027,028 029,030,031,035,038,043 044,047,048,051,052,053 056,061,062,064,072,073 074,078,079,080,081,084 085,086,088,089,090,093 098,101,102,107,109,112 113,114,120,124,125,126 130,133,136,138,143,148 149,150,153,159,170
	Fiat Ford Opel PSA Volvo	9 001 081 002 F 000 AL1 040,514,516,534,698,700 60734324,60808596 9941314,9943481,9947424 6118837 82GB11350AA 87GB11350BA V86BB11350AA 1203188,90273737, 90444703 583571,583579,583599, 5835.A4 1363534,3343937,3344825		0 001 109 059,060 0 001 110 012,022,023,027,029,030 045,046,048,049,052,063 100,101,106,107,122,123 126,128,129 0 001 112 005,006,007,008,013,015 022,024,025,027,028,029 044,045 0 001 113 001,002,004,005,006,007 008,013,014 0 001 114 003,004,015,016 0 001 116 005 0 001 208 501,507,510,515,516,517 518,526,528,705,707,709 710,711,713,714,717 0 001 211 500,501,502,503,504,505 510,514,525,526,529,530 536,538 9 000 081 003 9 000 333 104,106,109







IKA-No.	Original	References	Dimensions	Unit-Nos.
 4 5062 1	Bosch Ford PSA	2 006 209 431 6122080 583563	14.3/27 x 74 10 teeth Splines 10 E CW	0 001 362 081,602,603,606,607
 4 5063 1	Bosch MAN Remy	2 006 209 425 2 006 209 494 81 26213 6003 19024525	14.3/41 x 91 11 teeth Splines 10 E CW	0 001 362 064,301,303,304 0 001 363 118 0 001 366 008 0 001 367 008,009,013,015, 018,024,032,043, 067 0 001 368 006,009,015,025, 039,041
 4 5064 1	Bosch Fiat VW Volvo	9 001 140 317 9 003 336 293 5984563 5985182 046 911 342 AC 069 911 335 A 1367414	12/26 x 62 9 teeth Splines 10 E CW	0 001 218 001,004,005,008,010,012 013,017,018,025,107,111 112,113,114,115,120,121 130,131,133,141,145,146 147,155 0 001 219 004,008
 4 5065 1	Bosch	6 003 AD5 055 6 003 AD5 078	20.8/30 x 128 19 teeth Splines 7 E CW	0 001 241 003,004 005,006,007 014,015,019
 4 5066 1	Bosch Iveco	1 006 209 818 1 006 209 964 500053150	12/36 x 54 9 teeth Splines 10 E CW	0 001 109 300,302
 4 5070 1	Bosch Toyota	1 006 209 799 1 006 209 981 28011-0D130	11/29 x 48 9 teeth Splines 10 E CW	0 001 107 423,433,434 6 004 A94 449




STARTERRITZEL STARTER DRIVES







BOSCH






IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5077 1	Bosch	1 006 209 785 1 006 209 961	11/28 x 91 10 teeth Splines 16 E AC	0 001 123 014-017 0 001 123 020, -021
				
4 5082 1	Bosch Fiat	1 006 209 607, -670, -675 F 000 AL1 250 9947838	12/29 x 47 9 teeth Splines 10 E CW	0 001 107 030, -066, -075, -078, -079, -081 46468696
				
4 5083 1	Bosch	2 006 209 466	14.3/47 x 74 12 teeth Splines 10 E CW	0 001 362 307
				
4 5084 1	Bosch	2 006 209 458 2 006 209 543 2 006 209 544	14.3/37 x 91 9 teeth Splines 10 E CW	0 001 367 072 0 001 368 069, -083 0 001 369 007, -019, -025
				
4 5085 1	Bosch	1 006 209 602	12/30 x 54 9 teeth Splines 10 E AC	0 001 107 024
				
4 5086 1	Bosch	6 033 AD0 004	12/30 x 58 9 teeth Splines 16 E CW	0 001 223 001
				







IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5090 1	Bosch	9 002 336 216	12/30 x 62 9 teeth Splines 10 E CW	0 001 218 143 0 001 218 144 0 001 218 171
				
4 5095 1	Bosch	1 006 209 683 F 002 G20 517	12/35 x 49 9 teeth Splines 10 E CW	0 001 107 083 F002 G20 516
				
4 5101 1	Bosch	1 006 209 755 1 006 209 783 1 006 209 949 1 006 209 960	11/29 x 90 9 teeth Splines 16 E CW	0 001 124 020, -021 0 001 125 053, -054, -600, -601
				
4 5105 1	Bosch	0 399 D53 002 2 006 209 558 2 007 010 160 6 033 AD5 359	21/30 x 130 19 teeth Splines 7 E CW	0 001 241 001, -008, -024, -119 0 001 261 004, -006, -013, -025 -026, -028
				
4 5107 1	Bosch	6 033 AD 115 6 033 AD4 001	14.3/36 x 82 11 teeth Splines 10 E CW	0 001 231 006
				
NEW 4 5114 1	Bosch	2 006 209 465	14.3/36 x 74 11 teeth Splines 10 E CW	0 001 362 700
				






IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5115 1	Bosch	1 006 209 420	12/34 x 64 9 teeth Splines 10E AC	0 001 311 056 0 001 314 016
				
NEW 4 5127 1	Bosch	1 006 209 824 1 006 210 128 1 006 210 146	12/39 x 56 12 teeth Splines 10 E CW	0 001 109 205, 0 001 109 304, 0 001 109 305 0 001 109 324, 0 001 109 325, 0 001 109 328 0 001 109 387, 0 001 109 391
				
NEW 4 5133 1	Bosch	6 033 AC5 149 6 033 AC5 246		0 001 241 001, -003, -004, -005, -006, -007 -014, -015, -019, -020 0 001 261 012
				
NEW 4 5134 1	Bosch	2 006 209 477 2 006 209 501	12/28 x 71 10 teeth Splines 10E CW	0 001 363 106 0 001 363 119 0 001 363 120
				
NEW 4 5135 1	Bosch Fiat	1 006 209 540 9939784	12/30 x 58 11 teeth Splines 10 E CW	0 001 108 025 0 001 108 146
				
NEW 4 5139 1	Bosch	1 006 209 629 1 006 209 929	12/26 x 47 10 teeth Splines 10 E CW	0 001 107 043, 0 001 107 087 0 001 113 010, 0 001 113 017
				






IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5140 1	Bosch	1 006 209 601 1 006 209 924	12/30 x 70 9 teeth Splines 10 E CW	0 001 109 008 0 001 109 043
				
NEW 4 5141 1	Bosch	6 033 AD0 267 6 003 AD3 106	14.3/40 x 82 11 teeth Splines 10 E CW	0 001 230 002
				
NEW 4 5144 1	Bosch	1 006 209 805 1 006 209 814 1 006 209 958	11/30 x 48 9 teeth Splines 16 E CW	0 001 107 411, -425, -426, -490, -491
				
NEW 4 5145 1	Bosch	1 006 209 072 1 006 209 073 1 006 209 107	12/30 x 68 9 teeth Splines 10 E AC	0 001 214 002 0 001 311 035
				
NEW 4 5150 1	Bosch John Deere	6 033 AD0 102 6 033 AD3 078 SDV38236	14.3/34 x 84 11 teeth Splines 10 E CW	0 001 230 003
				
NEW 4 5151 1	Bosch	1 006 209 608 1 006 210 184	12/27 x 53 10 teeth Splines 10 E CW	0 001 137 003, -005 0 001 138 011, -012, -029, -037
				


IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5156 1	Bosch	1 006 209 436	12/34 x 64 9 teeth Splines 10 E CW	0 001 314 017
				
NEW 4 5157 1	Bosch	1 006 209 524 1 006 384 642 6 003 AD0 044 9 002 336 209 9 003 336 280	12/30 x 62 9 teeth Splines 10 E CW	0 001 218 009, 011, 026-28 0 001 218 122, 135, 136, 153 0 001 218 177, 735, 736,
				
NEW 4 5162 1	Bosch	1 006 209 636 1 006 209 643 1 006 209 759	11/26 x 90 9 teeth Splines 16 E AC	0 001 124 007, 008, 011, 012 0 001 125 003, 004, 010
				
NEW 4 5166 1	Bosch	1 006 209 642	12/28 x 49 10 teeth Splines 10 E CW	0 001 109 014
				
NEW 4 5172 1	Bosch	1 006 209 796	11/26 x 47 9 teeth 10 E CW	0 001 107 429 0 001 107 437 0 001 108 444
				
NEW 4 5173 1	Bosch	1 006 209 425 9001082324 9001082748 F 000 AL1 001	12/30 x 64 11 teeth Splines 10 E CW	0 001 208 218, 408, 422 0 001 211 246 0 001 311 116, 119, 123, 129, 130, 133 0 001 315 005 0 001 316 010 9000082021, 9000082040, 9000333112, 4470377 7501995
	Fiat	7073094 9932923		


IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5175 1	Bosch	1 006 209 522 F 000 AL1 520	11/26 x 58 9 teeth Splines 10 E AC	0 001 110 001, 002, 014, 015, 133, 134 0 001 117 008 0 001 125 015 068 911 023 DX 068 911 023 EX
				
NEW 4 5176 1	Bosch	1 006 209 510, 516, 537 1 006 209 545, 566, 568 1 006 209 587, 603, 905 1 006 209 907 1 006 210 145	12/28 x 58 10 teeth Splines 10 E CW	0 001 107 014, 016, 027, 028, 029, 041 0 001 108 004, 020, 033, 037, 039, 040 0 001 108 057, 071, 082, 083, 087, 106 0 001 108 110, 111, 121, 122, 128, 132 0 001 108 139, 140, 152, 155, 158 0 001 110 013, 019 0 001 112 009, 012, 016, 020, 033 0 001 113 003, 005, 009 0 001 114 008, 014, 017, 020, 021, 022 0 001 208 513, 514, 521, 706, 715, 718 0 001 211 512, 513, 515 9000333120
				
NEW 4 5177 1	Bosch Fiat	1 006 209 538, 539, 546, 691 9940740	12/28 x 58 10 teeth Splines 10 E CW	0 001 110 003, 005, 016, 024, 025, 026, 039, 053, 054, 055 0 001 110 075, 078, 079, 082, 089, 091, 092, 095, 102, 113 0 001 110 114, 115, 124, 125 7580192
				
NEW 4 5179 1	Bosch	6 033 AD0 422	12/35 x 58 9 teeth Splines 10 E CW	0 001 218 818
				
NEW 4 5183 1	Bosch	1 006 209 534, 547, 549, 554, 559 9 001 066 242, 247, 248, 476 9 001 690 111	12/29 x 58 9 teeth Splines 10 E CW	0 001 107 033, 061 0 001 108 042, 054, 063, 065, 100, 108, 115, 117, 129, 131 0 001 108 145, 210 0 001 109 009 0 001 110 011, 028, 041, 042, 111, 130 0 001 111 003 0 001 115 035 9 000 694 008
				

IKA-No.	Original	References	Dimensions	Unit-Nos.	
	4 5091 1	Denso	11/29 x 43 9 teeth Splines 10 E CW	428000-0670 428000-0680 428000-1750, -1760	
	4 5109 1	Denso	11/32 x 43 12 teeth Splines 10 E CW	428000-4600 428000-5510 428000-5511	
	NEW 4 5116 1	Denso Daihatsu Isuzu Kubota Toyota	028300-1730, -2011, -2012 -2017, -3952, -4550 -4551, -5090, -5091 28011-54010 5811240040 14182-63041 28011-54010	41 11 teeth CW	028000-5300, -5530, -5550, -5551, -5560, -5570, -5651, -5691, , -5833, -5850, -5860, -5870, -5890, -6012, -6200 ... 12800-0380, -0383, -0520, -0530, -0972, -1000 ...
	NEW 4 5123 1	Denso	11/30 x 53 11 teeth Splines 10 W CW	228000-7791	
	NEW 4 5143 1	Denso Toyota	028300-7700, -7790, -8150 28011-54380 28011-55050	38 x 83 10 teeth CW	128000-9860, -9870, -9880 228000-3622 28100-54380
	NEW 4 5152 1	Denso Toyota	028300-1810 028300-1811 028300-1812 15451-63041	35 9 teeth CW	028000-5000, -7730, -7731, -7732 128000-6860, -6861

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5153 1	Denso	028300-5380 028300-5381	CW	028000-5300, 5530, 5550, 5551, 5560, 5570, 5691, 5890, 6200 028000-6290, 6340, 6461, 6590, 6880, 6891, 6900, 6910, 6950 028000-7240, 7810, 8070, 8072, 8840, 8841, 9331 128000-0383, 0520, 0530, 0972, 1571, 1574, 1581, 1790, 3080 128000-3514, 4100, 5381, 6830, 6833, 7280, 7283, 7290, 7933 128000-9582 228000-0271, 0282, 0292, 0571, 1591, 1661, 1671, 2660, 3080 228000-3090, 3100, 3710
				
NEW 4 5163 1	Denso Toyota	028301-0010 023801-0080 023801-0190	CW	128000-8210, 128000-8780, 128000-9520 228000-0410, 228000-2120, 228000-2260 228000-2520, 228000-2840 28100-54380, 28100-76070
				
NEW 4 5168 1	Denso	NIP020CU	CW	
				
NEW 4 5181 1	Denso Toyota	028099-2700 28011-54070	40 x 102 11 teeth CW	028000-7373, 8760, 8761, 8762 128000-0362, 7353, 8142, 8152, 9591, 9592 228000-0400, 0640, 1300 28100-54100, 54170, 54310, 54700
				
NEW 4 5185 1	Denso Iveco	028300-3690, 3691, 3950, 5450 028300-6690, 6691, 6692	40 10 teeth CW	228000-5641, 5720, 5721, 5722, 5723, 7550 99432760, 99486046
				






IKA-No.	Original	References	Dimensions	Unit-Nos.
	4 5027 1	Ford-Visteon 106688 10670-F7RU	12/45 x 47 13 teeth Splines 12 E CW	97VB-11000-AB 98VB-11000 98VB-11000-B1A 98VB-11000-B3B 98VB-11000-BA
	4 5044 1	Ford-Visteon	12/38 x 47 12 teeth Splines 12 E AC	1S7U-11000-BA, BB, BC 2S7T-11000-DA 97CA-11000-AB XS7U-11000-AB, BA YC1U-11000-AA, AB, AE
	4 5069 1	Ford-Visteon	12/36 x 47 11 teeth Splines 12 E CW	3M5T11000CD, CE, DC 4M5T11000FA
NEW 	4 5121 1	Ford-Visteon	12/27 x 46 10 teeth Splines 12 E CW	98AB11000CB YS4U11000AA YS4U11000AB
NEW 	4 5122 1	Ford-Visteon		1S7U11000BA, 1S7U11000BB, 1S7U11000BC 2S7T11000DA, 97CA11000AB, XS7U11000AB XS7U11000BA, YC1U11000AA, YC1U11000AB YC1U11000AE

IKA-No.	Original	References	Dimensions	Unit-Nos.
	Hitachi Nissan	2114-15507 2114-85501 2130-75004 23312-06T00 23312-10G00 23312-11M00 23312-W1700	36 x 87 9 teeth CW	S114-357B S114-367 S114-395A S13-101,102,104,105, 105A,326,327,502A, 69,81,92A
NEW 	Hitachi	2250-45006	64/40 x 132 11 teeth AC	S25-505, -A, -C, -E, -F, -G
NEW 	Hitachi Isuzu	2130-25005 2140-1500, -15003 8944355630	54/33 x 94 9 teeth CW	S13-111, -112, -113, -114 S14-03 8944104090, 8944179250, 8944339120
NEW 	Hitachi Fiat		12.5/28 x 38 10 teeth Splines 10 E CW	S114-905, S114-906, S114-907 55193356
NEW 	Hitachi Nissan	2130-15005 2130-15505 2130-95007 23312-43G00	36 x 94 9 teeth CW	S13-106 S13-106B S13-126
NEW 	Hitachi		12.5/34 x 38 13 teeth Splines 10 E CW	S114-829, S114-829A S114-829B, S114-829C

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5170 1	Hitachi	2130-35009, 2130-75002 2130-75003, 2130-75504 2130-85003, 2130-85004	33 x 87 9 teeth	S114-338A S13-75, S13-82, S13-87 S13-89A, S13-89B, S13-92 23300-25F00
	Nissan		CW	

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5180 1	Iskra	16 900 117	14.3/35 x 82 9 teeth Splines 10 E CW	11 130 026 11 130 141 11 130 151 11 130 198



IKA-No.	Original	References	Dimensions	Unit-Nos.
 4 5075 1	Lucas Marelli	54293455 54293455	12/28 x 50 8 teeth Splines 9 E CW	26814A 63226814
 4 5103 1	Lucas Marelli	54268140, TNB167 85541459	17/46 x 70 13 teeth Splines 12 E CW	27501A/E, 27531A/D, 27577 63227501
NEW  4 5113 1	Lucas Marelli	54247393, 54268139, 54290585 TMB148, TMB170 85541462, 85541466	17/39 x 70 10 teeth Splines 12 E CW	27500A/J, 27504A/B, 27506A/D, 27554A/B 27507A/B, 27511A, 27516A/D, 27562A/B, 27569A 63227553, 63227554
NEW  4 5130 1	Lucas	54247034, 54247036 54247134, 54295155 60600024, TMB120	17/39 x 73 teeth 10 Splines 12 E CW	26236L, 26256H, 26288F ...
NEW  4 5158 1	Lucas	54243783 54246738 54246896 54247187 TMB115	17/39 x 70 10 teeth Splines 12 E CW	26211U, 26227R, 26227V, 26265J, 26265M 26291E, 26305D, 26305N, 26312B, 26316A 26316D, 26316M, 26329A, 26329L, 26329D 26329K, 26338A, 26338F, 26339A, 26339K 26341A, 26341J, 26352A, 26352L, 26379A 26379F, 26395A, 26395H, 26430A, 26430D 26431A, 26431B

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5161 1	Lucas	54268141 54294922 TNB108	17/39 x 73 10 teeth Splines 12 E CW	27502A, 27502D, 27503A, 27503D, 27510, 27513A 27514A, 27514B, 27515A, 27515E 27518A, 27518E, 27519A, 27519D, 27522A, 27522D 27523A, 27523D, 27524A, 27524B, 27525A, 27525B 27526A, 27526D, 27527A, 27527B, 27532A, 27532D 27536A, 27536D, 27537A, 27537B, 27538A, 27538D 27539A, 27539F, 27540A, 27540H, 27541A, 27514D 27550A, 27550B, 27559A, 27559E, 27565B, 27565D 27568A, 27570A, 27570F, 27571A, 27571B 27572A, 27572B, 27573, 27574 27583D, 27588A, 27588B 63227502, 63227510, 63227515, 63227518, 63227523, 63227539 63227541, 63227559, 63227565, 63227568, 63227570, 63227571 63227572, 63227574, 63227582, 63227583, 63227584, 63227585 63227588, 63227589, 63227590, 63227591, 63227592, 63227593 63227594, 63227596, 63227597, 63227598, 63227599, 63227600 63227602, 63227603
	Marelli	54268141 54294922 85541454 85541479		









STARTERRITZEL STARTER DRIVES

MARELLI/FIAT

IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5018 1	Fiat	9945556	11.5/26 x 64 9 teeth Splines 6 E CW	46414994,5504,6879,6897 7733966 7772459,2462 7785949 63101000,1002,1008 63102003,2004,2007,2008 63103002,3003,3025,3026 63222889,2900,2901,2905, 2908,2909,2936, 3035,3085,3101, 3108,3109,3200, 3303
	Marelli	85540971 85541780		
4 5029 1	Marelli	85540831 85541050	12/28 x 53 10 teeth Splines 10 E CW	63223433
4 5073 1	Marelli		12/29 x 64 9 teeth Splines 10 E CW	63114017
4 5079 1	Fiat	9941306	11.5/26 x 64 9 teeth Splines 12 E CW	7589547, 7589655 63222831, -832, -833 63222836, -837, -838 63222897, 63223001, 63223031 63223032, 63223033, 63223034
	Marelli	85540411		
4 5080 1	Fiat	4059392 4061018	12/27 x 64 8 teeth Splines 2 R AC	4050812, 4060912, -919 4060920, 4126193 63220101, -106, -402, -403 63220432, -433
	Marelli	74868261		
4 5093 1	Marelli	83226407 85541300	12/35 x 50 11 teeth Splines 10 E CW	428000-0660 63113001, -3002 63193001 63280071







IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5094 1	Marelli Nissan	54294771 23354-2F200	12/28 x 66 8 teeth Splines 10 E CW	63111001, 63191001, 63223534 23300-2F000, -4E210, -53J11, -63J10, -63J11, -70J12
				
4 5100 1	Marelli		12/29 x 64 9 teeth Splines 10 E CW	63114017
				
4 5104 1	Marelli		12/40.5 x 73 10 teeth Splines 10 E CW	63280040, 63280041
				
NEW 4 5117 1	Marelli	85541390	11/26 x 58 9 teeth Splines 12 E CW	63101007 63191007
				
NEW 4 5118 1	Marelli	85541220	12/28 x 62 8 teeth Splines 6 E CW	63102000 63192000 63223106
				
NEW 4 5126 1	Fiat Marelli	9948135 83226569 85541700	12/35 x 64 9 teeth Splines 10 E CW	131955508 63114014
				




IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5128 1	Marelli Fiat	74893901 9939915	11.5/26 x 64 9 teeth Splines 12 E CW	
				
NEW 4 5129 1	Marelli Fiat	72159801 85540151 79081045, 7984505, 9961781	14.3/35 x 77 9 teeth Splines 6 E CW	63216731, 63216741, 63216831, 63216896, 63217126, 63217148, 63217154, 63217188, 63217226, 63217410
				
NEW 4 5131 1	Marelli	72138801	14.3/34 x 77 9 teeth Splines 12 E CW	63216733, 63216816, 63216833 63217117, 63217152, 63217173 63217182, 63217402, 63217404
				
NEW 4 5132 1	Marelli		14.3/35 x 77 9 teeth Splines 12 E CW	
				
NEW 4 5138 1	Marelli	85541270	12/29 x 50 9 teeth Splines 10 E CW	63111005, 63111007 63223537, 63223730
				
NEW 4 5146 1	Marelli	8121714, 9956426 72378801, 72399501	14.3/34 x 77 9 teeth Splines 12 E CW	4706720, 4712894 63216702, 63216802, 63217107, 63217110
				

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5147 1	Marelli Denso		12/36 x 51 9 teeth Splines 10 E CW	428000-0720
				
NEW 4 5155 1	Fiat Marelli	4154293, 4243124, 4475122 74866611, 74867401, 74874241 85540271, 85540751	14/29 x 67 11 teeth Splines 12 E CW	4156064, 4162784, 4206634, 4285916, 4294494, 4294495 4474599, 4474714, 4474746, 4474747, 4474762, 4474976 4474979, 4475025, 4475130 63222400, 63222405, 63222408, 63222409, 63222430, 63222435 63222438, 63222439, 63222501, 63222536, 63222635, 63222636 63222700, 63222701, 63222706, 63222730, 63222731, 63222736
				
NEW 4 5165 1	Marelli	83227285	12/30 x 50 11 teeth Splines 10 E CW	63112003 63113003 63113004
				
NEW 4 5186 1	Marelli	85553621	30 11 teeth CW	428000-1640 63280091
				


IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5009 1 	Melco Mando Melroe	M191T22771 1D30 2128 6D19 E356 18 X45	12/28 x 55 8 teeth Splines 8 E CW	M3T21882 M3T22581 M3T30881 M3T33981 E365 18 400B
	Mazda			
4 5011 1 	Melco	M191T22071 M191T22371 M191T22971 M191T23071 M191T23471 MD607894,MD611372	12/28 x 55 8 teeth Splines 8 E CW	M2T30581 M3T21281,21281D,21381,21381D M3T24482H,24482J,24486H,25282H M3T27686D,27786,29482,29482D M3T32591,32592,32593,32782D M3T33281,33282,33586D,38181,38381 M3T38881,38881A,38881B,38881C M3T38882,38882A,38882B,38882C M3T38884,38981,38982,39481,39981 M3T41081,41083,41088,41181,41185 M3T41186,41285,42781,48181,49381
	Mitsubishi Mazda Nissan Suzuki	B630 18 X45 23354 42L10 31320 79030, 31320 82130		
4 5016 1 	Melco	M191T12070 M191T12071 M191T12471 MD611211 23354 42 L70 AM15 18 X25	12/28 x 51 8 teeth Splines 8 E CW	M0T70381 M0T80081 M1T70481,70482,70483,70485,70681, 70685,70686,70687,71382, 71388,71581,71681,72081, 72085,72086,72088,72088, 72483,72483ZC,72581,72582, 72583,73283,73381,73383, 73881,73881ZC,74881,78981, 79091
	Mitsubishi Nissan Mazda			
4 5019 1 	Melco	M191T13671 M191T14671 M357X91372	12/32 x 51 12 teeth Splines 8 E CW	M1T80081 M1T90281
	Mitsubishi			
4 5028 1 	Melco	M191T15071 M191X68071 MD618963	13/33 x 51 10 teeth Splines 8 E CW	M2T80582 M2T84071 M2T84171 M2T87171
	Mitsubishi			
4 5030 1 	Melco	M191X67771 M191X67871 M191X68671	14.8/19.9 x 110 20 teeth Splines 5 E CW	M8T50071 M8T50171 M8T75171 M8T80071





IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5034 1	Melco Mitsubishi	M191T68471 M191X68471 MD619204	13/38 x 51 12 teeth Splines 8 E CW	M2T87971 M2T88071
4 5050 1	Melco	M191T94571	13/32 x 51 12 teeth Splines 8 E CW	5033125 M2T88571 M2T88572
4 5072 1	Melco	M191X69271	13/30 x 51 9 teeth Splines 8E CW	M2T84771
4 5078 1	Melco Nissan	M357X77971 23357-0C010	10/60 x 98 21 teeth AC	M2T25481
4 5087 1	Melco	M191T15871	12/28 x 37 8 teeth Splines 8 E CW	M0T20471, -72 M0T30672 M0T30771 M0T35171 M0T36071
4 5089 1	Melco	5001857622 M191X69771 M191X93771	18.9/24.9 x 135 26 teeth Splines 5 E CW	5010306533 M9T60371 M9T60471 M9T60671 M9T60672

IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5092 1	Melco Hyundai/Kia		14.6/19 x 118/130 19 teeth CW	
				
4 5098 1	Melco	M191X94271	14.8/19.9 x 92 20 teeth Splines 5 E CW	M8T75071
				
NEW 4 5110 1	Melco	M191X94471	20/62 x 111 20 teeth Splines 5 E CW	M8T62471
				
NEW 4 5119 1	Melco	M191T68771 M191X68171 M191X68785	14.8/18.6 x 91 20 teeth Splines 5 E CW	M8T70071 M8T78611
				
NEW 4 5142 1	Melco	M191T68971	13/36 x 51 9 teeth Splines 8 E CW	M2T87671
				
NEW 4 5148 1	Melco		13.2/46 x 166 12 teeth Splines 8 E CW	M2TS0571
				

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5149 1	Melco		13.5/18.6 x 135 18 teeth Splines 8 E CW	M2TS0671
				
NEW 4 5159 1	Melco	M191T30974 M191T33371 M191T34071 M191T35171	12.8/28 x 60 8 teeth Splines 8 E CW	M2T20181, M2T201811A, M2T20281, M3T20681, M3T20681A M3T20681A, M3T20781, M3T21282, M3T24482, M3T24482A M3T24486, M3T24486A, M3T25781, M3T25783, M3T27686 M3T29681, M3T30088, M3T30281, M3T30285, M3T30286 M3T30382, M3T30782, M3T32382, M3T32681, M3T33582 M3T33582A, M3T33586, M3T33586A, M3T35082, M3T39182 D30618400A, D30618400B, D50118400A, D50218400A E30118400A, E35618400, F60118400, F60118400A F80218400B, F85018400B, FE0518400C, FE5018400B H83318400, HE2018400B MD019891, MD026174 23300-B5013, 23300-D0212, 23300-H5013, 23300-R9000 23300-U0113
	Mazda	808824722 H83318X45		
	Mitsubishi Nissan	MD607283, MD608273 23312-Y0511		
NEW 4 5169 1	Melco	M191T40971	12/32 x 51 10 teeth Splines 8 E CW	M1T30171
				

IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5081 1	PAL Magneton	02-8014-09	18.6/41 x 109 11 teeth Splines 3 E AC	













IKA-No.	Original	References	Dimensions	Unit-Nos.
 <p>4 5037 1</p>	Remy	10451980 10475974	12/26 x 45 9 teeth Splines 12 E CW	10465298,384,459 21020761 3231062,1396 9000794,833,837,839, 840,847,859 96208781,8782,8783,8785
 <p>4 5049 1</p>	Remy Daewoo	1055503 3120A78B00	12/28 x 45 8 teeth Splines 12 E CW	96275481 31100A78B00
 <p>4 5074 1</p>	Remy Fiat Iveco	10510651	12/36 x 61 9 teeth Splines 6E CW	8000032 134705880 55195967
 <p>NEW 4 5184 1</p>	Remy Caterpillar Ford	1893560, 1894213 1936647, 1946945, 1957846 1970711, 1977005 800068 2P-7408, 6N-3827, 8S-8036 C8TZ11350B , C9WF11350C	16/46 x 120 12 teeth Splines 19 R CW	110... 111... 199... 40MT, 42MT, 50MT

IKA-No.	Original	References	Dimensions	Unit-Nos.
 4 5004 1	Valeo	105538 182047,185182 594245 NE209,NE883	12/32 x 61 12 teeth Splines 9 E CW	D9R73 D9R134
 4 5012 1	Valeo	180827,182176,184530 185675,186456 594042 NE776,NE832	12/30 x 61 12 teeth Splines 9 E CW	D9R89,D9R99 D9R112,D9R118,D9R119 D9R122,D9R135,D9R149
 4 5020 1	Valeo	185915 594185 NE834	12/30 x 54 11 teeth Splines 9 E CW	D7R5,D7R7,D7R8,D7R9 D7R12,D7R13,D7R16,D7R18 D7R20,D7R25,D7R26,D7R27 D7R35,D7R40,D7R43,D7R44 D7R47,D7R48,D7R49
 4 5023 1	Valeo	186798 594177,594252	12/28 x 51 10 teeth Splines 5 E CW	D6RA56 D6RA62 D6RA133
 4 5026 1	Valeo	187336,187863,187996 188251 594287 NE949	11/25 x 41 9 teeth Splines 10 E CW	D7E1, D7E5, D7E16, D7E23 D7E26, D7E39, D7E52, D7E62, D7E79
 4 5041 1	Valeo	059427 594279 187528	12/29 x 54 11 teeth Splines 10 E CW	D7R19 D7R28

IKA-No.	Original	References	Dimensions	Unit-Nos.
 4 5043 1	Valeo	188993 594410	12/32 x 54 10 teeth Splines 9 E CW	D7R34 D7R53
 4 5045 1	Valeo	187328 594248 NE878	12/26 x 57 9 teeth Splines 5 E CW	D6RA68 D6RA168
 4 5053 1	Valeo	191601	12/26 x 45 9 teeth Splines 5 E CW	D6G1, D6G3, D6G32, D6G5, D6G98
 4 5054 1	Valeo	076980 093623,097062,097062 NE184	12/26 x 60 9 teeth Splines 12 E CW	D8E121,D8E142,D8E152,D8E81 D9E12,D9E20,D9E22,D9E26,D9E34 D9E35,D9E37,D9E41
 4 5060 1	Valeo Fiat	099931 184917 NE197 9405835568	12/26 x 55 9 teeth Splines 9 CW	D9E36,D9E38,D9E39,D9E46,D9E48 D9E49,D9E52,D9E54,D9E55,D9E56 D9E61,D9E62,D9E66,D9E68,D9E69 D9E70,D9E74,D9E76,D9E77,D9E78 D9E79,D9E81,D9E85,DE9851,D9E852 D9E86,D9E100,D9E101,D9E123
 4 5067 1	Valeo	193462 594729	12/28 x 73 10 teeth Splines 9 E CW	D7G15, D7G18, D7G22

IKA-No.	Original	References	Dimensions	Unit-Nos.
4 5068 1	Valeo	191769	11/24 x 41 8 teeth Splines 5 E CW	TS10E4 TS10E5
				
4 5071 1	Valeo	192929 594631	12/29 x 46 11 teeth Splines 10 E CW	D7G3 TS18E13
				
4 5076 1	Valeo Mitsubishi	187077 594247 NE879 MD620980	12/28 x 51 8 teeth Splines 5 E CW	D6RA76, D6RA77, D6RA78, D6RA79
				
4 5088 1	Valeo Nissan	193013 594747 23354-JG70A	12/32 x 45 10 teeth Splines 8 E CW	TS22E5 TS22E5B 23300-00Q0D 23300-3400A9 23300-JG70A
				
4 5096 1	Valeo	191548 594665	12/29 x 82 10teeth Splines 10 E AC	D6GS11, D6GS11M D6GS13, D6GS13M
				
4 5097 1	Valeo Nissan	192651, 594725	11/27 x 41 8 teeth Splines 5 E CW	TS8E3, -E4, -E5 23300-1F770, -1F771, -1F772
				

IKA-No.	Original	References	Dimensions	Unit-Nos.
 <p>4 5099 1</p>	Valeo	188270 594389 594699	12/29 x 91 11 teeth Splines 9 E AC	D7RS29, D7RS30, D7RS129, D7RS130, D7RS131, D7RS291, D7RS301
 <p>4 5102 1</p>	Valeo	594030 594033	12/27 x 56 9 teeth Splines 9 E AC	D6RA15 D6RA7
 <p>4 5108 1</p>	Valeo	194440 194480 594734	11/27 x 44 8 teeth Splines 5 E CW	TS10E1, TS10E11
 <p>NEW 4 5120 1</p>	Valeo	190694 191775 594451	11/27 x 44 8 teeth Splines 10 E CW	D7E29, D7E30, D7E31
 <p>NEW 4 5136 1</p>	Valeo	589074, 101598 079333, 092718, 094635	16/46 x 150 12 teeth Splines 6 R CW	D13E107TE D13E109TE D13E110TE D13E77, D13E86TE, D13E87TE D13E94TE, D13E96TE
 <p>NEW 4 5137 1</p>	Valeo	184795 594034 NE817	12/30 x 66 9 teeth Splines 9 E AC	D6RA17, D6RA19, D6RA27 D6RA29, D6RA34, D6RA50 D6RA54, D6RA60

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 5154 1	Valeo	191362 594635 594657	12/33 x 45 10 teeth Splines 10 E CW	D7G11, D7G11(B)
				
NEW 4 5160 1	Valeo	185441 186020 594108 NE830	12/28 x 51 10 teeth Splines 9 E CW	D6RA6, D6RA32, D6RA33, D6RA39 D6RA48, D6RA59, D6RA61
				
NEW 4 5171 1	Valeo	192125 594696	11/27 x 41 8 teeth Splines 10 E CW	D7E40 D7E41 D7E42
				
NEW 4 5182 1	Valeo	594726 193512	11/26 x 41 9 teeth Splines 5 E CW	TS8E2 TS8E6
				



4







MAGNETSCHALTER







SOLENOIDS


INTERRUPTEUR MAGNÉTIQUE

















IKA-No.	Original	References	Dimensions	Unit-Nos.
4 3470 0	Bosch	0 331 450 002	Relais KB Starter	0 001 410 ...,411 ..., 0 001 414 ...,415 ..., 0 001 416 ...,417 ... 9 000 084 ...
				
4 3471 0	Bosch	0 331 101 005	Relais KB Starter	0 001 410 ...,411 ..., 0 001 414 ...,415 ..., 0 001 416 ...,417 ... 9 000 084 ...
				
4 6035 1	Bosch	0 331 450 001	Relais KB Starter	0 001 410 ...,411 ..., 0 001 414 ...,415 ..., 0 001 416 ...,417 ... 9 000 084 ...
				
4 6054 1	Bosch	0 331 101 006	Relais KB Starter	0 001 410 ...,411 ..., 0 001 414 ...,415 ..., 0 001 416 ...,417 ... 9 000 084 ...
				
NEW 4 6106 9	Bosch MB	0 331 402 077 0 331 401 008, 009 0 001 528 510	M10/M10/M4 hole 12V	0 001 354 091
				
NEW 4 6107 9	Bosch	0 331 400 023 0 331 401 001, 003, 004 0 331 401 012, 029, 046 0 331 401 051, 501, 503 0 331 402 073, 074	M10/M10/M4 hole 12V	0 001 356 002, 003 0 001 359 001-003, 006-008, 010, 012-014, 016, 019-021 0 001 359 024-027, 030, 032-034, 037, 038, 041, 044-046, 053
				

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6108 9	Bosch	0 331 303 006, 026, 506	M8/M8 male 12V	0 001 110 005, 012, 025 0 001 208 204, 408, 410 0 001 311 129
				
NEW 4 6109 9	Bosch	0 331 303 005, 016, 028, 031	M8/M8/M4 post 12V	0 001 108 004, 019, 020, 039 0 001 208 219, 501, 513 0 001 211 206, 227, 228, 242, 246, 512, 513 0 001 311 107, 121
				
NEW 4 6112 9	Bosch	0 331 400 014, 016, 017, 022 0 331 401 007, 507 0 331 402 076	M10/M10/M4 hole 12V	0 001 358 017, 018, 020, 028, 032, 033, 046
				
NEW 4 6113 9	Bosch	0 331 402 015, 515	M10/M10/M4 hole 24V	0 001 360 035, 041, 045 0 001 368 001, 005, 013, 033, 042, 052
				
NEW 4 6116 9	Bosch VAG	0 331 303 147 2 339 303 211, 222, 258 2 339 303 265, 339, 351 2 339 303 377, 412, 722 6 004 AF1 027, 029 F 000 SH0 102, 120, 133 F 00A SH0 120 02M 911 287 A	M8/M8 plug 12V	0 001 107 020-23, 025 0 001 110 076, 077, 086 0 001 112 021, 027, 038, 039, 044, 045 0 001 121 001, 002, 006-009, 016-019, 026 0 001 124 001 0 001 125 005, 006, 009, 012, 013, 039, 042, 043, 052 9 000 081 010, F 000 AL0 402, F 000 AL0 415
				
NEW 4 6117 9	Bosch Toyota	2 339 303 202, 294, 306 F 000 SH0 107, 152 28150-02040, 02080, 0B020	M8/M8 plug 12V	0 001 107 030, 075, 079 0 001 109 034, 0 001 110 132, F 000 AL0 108 28100-0B020, 28100-0G010, 28100-0G100
				







IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6120 9	Bosch MB	2 339 402 117, 156, 180	M10/M10/M6 hole M5 post 24V	0 001 231 002, 033 004 151 22 03, 004 151 62 01 004 151 84 01, 005 151 20 01 006 151 22 01
				
NEW 4 6123 9	Bosch	0 331 401 040 0 331 402 001, 019, 030, 035, 039 0 331 402 087, 205, 501, 504, 519 0 331 402 535, 539	M10/M10/M4 hole 12V	0 001 362 062, 073, 092 0 001 367 028, 029, 030, 037, 045
				
NEW 4 6124 9	Bosch	2 339 304 001	M8/M8/M6 post 12V	0 001 106 011 0 001 107 016, 041, 046, 059, 082 0 001 108 121, 122, 155, 168 0 001 113 010
				
NEW 4 6125 9	Bosch	2 339 304 007, 019, 023	M8/M8 male 12V	0 001 107 062, 067, 076, 078 0 001 108 166, 167, 173, 181 0 001 109 028, 029, 031, 035, 252 0 001 115 002, 007
				
NEW 4 6126 9	Bosch Renault	2 339 304 020, 025 77 01 047 303	M8/M8 male 12V	0 001 116 001 77 00 864 608
				
NEW 4 6127 9	Bosch VW	2 339 305 014, 034, 054 2 339 305 076, 337 02E 911 287 A, D 0AH 911 287	M8/M8 plug 12V	0 001 121 412, 413 02E 911 023 J, JX
				







IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6128 9	Bosch	0 331 303 057, 104	M8/M8 male 12V	0 001 212 213, 214, 402, 403
				
NEW 4 6132 9	Bosch	0 331 402 004, 016 6 004 4F4 004, 005 6 004 AF4 005	M10/M10/M4 hole 12V	0 001 362 030, 044, 304 0 001 367 026, 032 0 001 368 069 9 000 044 000, 001 9 000 143 017, 415
				
NEW 4 6133 9	Bosch	0 331 402 002, 003, 502, 503 F 042 010 270	M10/M10/M4 hole 12V	0 001 362 046, 305, 312, 700 0 001 366 008, 010, 025
				
NEW 4 6140 9	Bosch	0 331 400 008, 068 0 331 401 015	M10/M10/M5 hole 12V	0 001 354 016, 018, 031, 080, 085
				
NEW 4 6141 9	Bosch	0 331 402 012, 207	M10/M10/M4 hole 24V	0 001 360 031, 044, 048, 054, 057 0 001 368 003, 088, 015, 023, 302
				
NEW 4 6145 9	Bosch	0 331 302 011, 047, 052, 075	M8/M8 male 12V	0 001 208 006, 014 0 001 211 002, 004, 005, 014, 016 0 001 214 002 0 001 311 045
				







IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6146 9	Bosch DAF FIAT Iveco	0 331 400 001 316490 9907553 1310012	M10/M10/M4 hole 12V	0 001 354 006, 025, 032, 033, 034, 062
				
NEW 4 6147 9	Bosch	0 331 401 009, 509	M10/M10/M4 hole 12V	0 001 354 012, 082, 083, 084, 091, 094, 096 0 001 354 108, 113
				
NEW 4 6148 9	Bosch	0 331 401 040 0 331 402 001, 019, 030, 035, 039 0 331 402 087, 205, 501, 504, 519 0 331 402 530, 539 2 339 402 128	M10/M10/M4 hole 12V	0 001 359 090 0 001 362 027, 029, 062, 073, 092 0 001 367 028, 029, 030, 037, 045, 082
				
NEW 4 6151 9	Bosch	9 330 331 010, 510	M8/M8/M4 hole 12V	0 001 218 172, 772 0 001 223 002, 016, 021
				
NEW 4 6152 9	Bosch Iveco	2 339 303 445 9 330 331 013, 513 42563047	M8/M8 male 12V	0 001 218 174, 774 93828721, 994517530
				
NEW 4 6154 9	Bosch MB	2 339 304 002, 018, 021, 039	M8/M8/M6 post 12V	0 001 107 406 0 001 110 112 0 001 115 008 005 151 16 01, 005 151 39 01
				





IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6158 9	Bosch Marelli FIAT	1 987 BE2 016 9948651	M8/M8/M6 post 12V	631 010 04, 631 020 14 46465475, 46758241
				
NEW 4 6163 9	Bosch DAF	2 339 403 009 2 339 403 509 1337458	M12/M12/M6/M6 post 24V	0 001 371 010, 013 0 001 372 002, 003 1284775 1317220, 1318615, 1329660
				
NEW 4 6164 9	Bosch Remy MB	2 339 403 010 19070190	M12/M12/M6 hole M6 post 24V	0 001 371 019 0 001 372 001, 005, 006 19070030, 19070033 004 151 94 01
				
NEW 4 6165 9	Bosch DAF Scania	2 339 402 220, 230 F 042 010 673	M10/M10/M6 hole M6 post 24V	0 001 241 001, 003, 007, 014, 019 0 001 261 002, 026 F 042 002 135 1604246, 1667205, 1688720 1447911, 1796026
				
NEW 4 6167 9	Bosch Ford Iveco	2 339 305 092, 135	M8/M8/M6 post 12V	0 001 109 306, 307, 371, 375, 376 8G9N-11000-AB 69502571
				
NEW 4 6168 9	Bosch VW	2 339 305 040, 055, 077, 324	M8/M8 plug 12V	0 001 123 016 0E9 110 238
				





IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6169 9	Bosch Remy Scania	2 339 403 006, 506 2 33A 403 006 9 330 451 071 19070191 1405979	M12/M12/M6 hole 24V	0 001 371 004, 006, 008 19070035, 19070036, 19070037 1332903, 1357709, 1382290 571462, 571464
NEW 4 6170 9	Bosch FIAT DAF PSA	2 339 305 033 77363816	M8/M8/M6 post 12V	0 001 109 300, 302 134 70580 80, 55779086 1524014R 5802.AQ
NEW 4 6173 9	Bosch BMW	2 339 304 005, 009, 046	M8/M8/M6 post M6 post 12V	0 001 107 442 0 001 108 157, 401 12 41 1 438 696, 12 41 1 712 937, 12 41 1 712 973 12 41 1 740 374, 12 41 4 354 823
NEW 4 6181 9	Bosch	0 331 402 089	M8/M10/M4 male 24V	0 001 368 034, 065
NEW 4 6185 9	Bosch	0 331 303 048, 061	M8/M8/M5 hole 12V	0 001 218 001, 006, 007, 009, 011, 016, 021, 023 0 001 218 108, 122, 125, 165, 177 9 000 331 419
NEW 4 6186 9	Bosch	0 331 401 008, 508	M10/M10/M4 hole 12V	0 001 354 007, 010, 021, 041, 081, 087-090


IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6187 9	Bosch DAF	2 339 403 014 1448595	M12/M12/M6 hole M6 post 24V	0 001 371 015, 016, 018 0 001 372 007, 008 1357210, 1357211, 1357212, 1357213
				
NEW 4 6189 9	Bosch	9 330 331 006	M8/M8 male 12V	0 001 218 168 9 000 331 432, 433
				
NEW 4 6190 9	Bosch	0 331 303 165	M8/M8 male 12V	0 001 218 152
				
NEW 4 6191 9	Bosch FIAT	2 339 303 256 F 000 SH0 108, 139 F 00A SH0 139	M8/M8/M6 post 12V	0 001 107 066, 091 0 001 110 124 F 000 AL0 100, 102 46468696, 46748349, 46821681
				
NEW 4 6196 9	Bosch Iveco	2 339 303 842 6 003 AD1 113 6 033 AD0 074	M8/M8/M6 post 12V	0 001 223 003 0 001 223 007 42535273
				
NEW 4 6204 9	Bosch Iveco	2 339 402 143 6 033 AD4 031 9971885	M10/M10 male 12V	0 001 230 007, 020, 022 9 007 044 015 323019050 500338952, 500389864, 504031929
				

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6205 9	Bosch	F 000 SH0 110	M8/M8 male 12V	F 000 AL0 307
				
NEW 4 6206 9	Bosch	0 331 402 051, 053, 054, 094 0 331 402 206, 706	M10/M10/M4 hole 24V	0 001 360 029, 032, 033, 034, 043, 050, 060, 061, 063 0 001 363 103-107, 109, 111-113, 116, 117 0 001 368 002, 009, 010, 012, 016, 017, 034, 040, 058, 069, 301
				
NEW 4 6207 9	Bosch	0 331 402 010	M10/M10/M6 hole 24V	0 001 360 022, 037, 056 0 001 368 024, 028, 055
				
NEW 4 6208 9	Bosch	0 331 402 006, 042, 068, 070, 209 0 331 402 568, 570	M10/M10/M4 hole 12V	0 001 359 089, 097, 098 0 001 362 039, 322, 601, 605, 700 0 001 362 701, 702 0 001 367 003, 027, 035, 046 0 001 367 051, 054, 063 0 001 369 002, 003, 006, 007
				
NEW 4 6210 9	Bosch VAG	0 331 302 040, 064, 540 9 330 041 005 9 330 081 038 311 911 287	M8/M8/ male	0 001 211 221, 222, 992, 993, 997, 998 9 000 082 009, 031
				
NEW 4 6211 9	Bosch BMW Saab Volvo	0 331 303 008, 033, 074 9 330 081 046 9 33A 081 046 1 241 1 273 228 75 27 856 13635461	M8/M8/ male / male 12V	0 001 108 012, 030, 038, 088, 089, 091, 092 0 001 311 100 0 001 314 025 9 000 082 021, 033, 039, 040, 048, 052, 053, 061, 066
				


IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6212 9	Bosch	0 331 303 003, 007, 010 0 331 303 015, 040, 503 9 330 081 039 9 33A 081 039	M8/M8/ male / male 12V	0 001 208 200, 201, 208 0 001 211 213, 214, 216-219 0 001 311 118, 122, 136, 137 0 001 314 002, 018, 033 9 000 082 025, 028, 030, 032, 035, 041, 042 9 000 082 043, 045, 046, 047, 049, 051 9 000 082 054, 057, 060, 065, 073
				
NEW 4 6214 9	Bosch	0 331 402 008, 508	M10/M10/M4 hole 24V	0 001 364 100, 101, 104, 105 0 001 368 057
				
NEW 4 6215 9	Bosch MB	0 331 303 012 0 331 303 021 000 152 36 10	M8/M8/M4 hole M5 hole 12V	0 001 314 030, 041 003 151 43 01, 003 151 96 01, 003 151 97 01 003 151 98 01, 003 151 99 01
				
NEW 4 6216 9	Bosch	0 331 303 035, 053 2 339 303 260	M8/M8/M4 hole M5 hole 12V	0 001 108 003 0 001 110 016 0 001 314 027, 036
				
NEW 4 6217 9	Bosch	0 331 303 055, 056, 076 0 331 303 132	M8/M8 male 12V	0 001 110 009 0 001 208 425, 426, 429 0 001 211 253, 254 0 001 317 016, 017
				
NEW 4 6218 9	Bosch	0 331 303 140, 640	M8/M8/M6 post 12V	0 001 107 027-029 0 001 108 087, 106, 109-111, 116, 133, 139, 140 0 001 110 104 0 001 112 016, 033 0 001 113 009
				

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6221 9	Bosch	0 331 402 002, 003 0 331 402 502, 503	M10/M10/M4 hole 12V	0 001 362 013, 014, 016, 022-024, 034, 035, 037 0 001 362 041, 046, 071, 305, 312 0 001 366 008, 010, 025
				
NEW 4 6222 9	Bosch	2 339 303 201, 206	M8/M8/M6 post 12V	0 001 107 034, 045, 046 0 001 108 148, 170
				
NEW 4 6223 9	Bosch FIAT Iveco	6 033 AD0 312	M8/M8/M6 post 12V	0 001 223 013 1329201080, 46758240 8029647
				
NEW 4 6227 9	Bosch MB Renault Truck MAN	2 339 402 139	M10/M10/M4 hole 24V	0 001 231 009 002 584 10 44 5000791211, 5001014221, 5001852507, 5010090370 5010090683, 5010306413, 5010508443 81 26201 9013, A5 00055 9254
				







IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6160 9	Denso		M8/M8/ plug 12V	428000-0950 428000-0960
				
NEW 4 6172 9	Honda	35850-KBB-900	M6/M6/ male / male 12V	
				
NEW 4 6209 9	Denso BMW	MS428000-0670	M8/M8/M6 post M5 post 12V	428000-0670 7 515 392 04
				
NEW 4 6224 9	Denso	428000-0680	M8/M8 plug 12V	28100-0D090
				







IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6115 9 	Bosch Ford-Visteon	F 042 010 038 F3RZ-11390-A, B F78Z-11390-AA XS6U-11390-AA	M8/M8/M6 post 12V	93BB-11000-HB, 96BB-11000-AB, 97VB-11000-A, B, F3RZ-11002-A, B, C, F5OY-11002-A, F87U-11000-DC XS6U-11000-AC



IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6114 9	Hitachi Nissan	2114-67505 23343-M8000, M8001, M8003	M8/M8 male 12V	S114-315, 316, 317, 317A, 317B, 318, 318A, 319, 320, 320A S114-364, 377, 378, 413A, 414A, 424, 550, 550A, 650A, 651A, 653
				
NEW 4 6118 9	Hitachi	2114-37613 2114-97612	M8/M8/M4 hole 12V	S114-850
				
NEW 4 6134 9	Hitachi Nissan	2114-57506 23343-16E01	M8/M8 cable 12V	S114-430A, B S114-439, A
				
NEW 4 6144 9	Hitachi	2114-57610	M8/M8 male 12V	S114-753 S114-753C
				
NEW 4 6153 9	Hitachi Nissan	2130-67005, 77005, 97008 23300-6T001, 80G00, 02N00 23343-43400, 43G00, 6T000	M8/M8 male 12V	S13-106A, B, C, S13-107, A, S13-117A, 122, 126A, 127, 327 23300-6T001, 23300-80G00
				
NEW 4 6178 9	Hitachi	2114-27613	M8/M8/M4 hole 12V	S114-808, S114-869, S114-925
				







IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6195 9	Hitachi	2130-37004 2130-37008 2130-97004 23343-10G00	M8/M8 male 12V	S13-92A
	Nissan			23300-10G02, 23300-83W00





IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6136 9	Lucas Ford	76740, 76753, 76756, 76781 76825, 76833, 76834, 76835 ... 2701E-11390-A, B D4NN-11390-B D7NN-11390-B	M8/M6/M6 post 12V	26211, 27, 34, 46, 65, 74, 91, 94, 95 26304, 05, 12, 16, 23, 38, 39, 41, 43, 45, 51, 52, 57, 58 ,59, 66 ...
NEW 4 6137 9	Lucas	76755, 76759, 76763, 76786 76796, 76800, 76803, 76804, ...	M8/M8 male / male 12V	25620, 21, 27, 73 26233, 36, 38, 48, 64, 66, 68, 69, 70, 71, ...
NEW 4 6138 9	Lucas	76923, 77121, A, 77131, 77141 TPB104, 116, 118, 119	M8/M8 male 12V	27500, 502, 503, 504, 509, 513-516, 518-522, 528, 539-541 27565
NEW 4 6139 9	Lucas	76888, 76906, 76925, 76983 77011, 77021, 77128, 77169 TOB103, 119, 128, 131	M8/M8 male / male 12V	26327, 364, 400, 460, 426
NEW 4 6180 9	Lucas	60933083 76901, 76926, 76997, 77040, 77089 TOB123, TOB125, TOB183	M8/M8/M6 post 12V	26349 26416

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6142 9	Marelli FIAT	636 338 01, 06, 25 636 938 01, 790 366 83 855 400 11, 855 402 21 79036683, 7980335 9936770, 9957705, 9986144	M10/M10 male 12V	632 168 27, 31, 33, 59, 74, 96, 98 632 171 18, 19, 20, 21, 25, 26, 47, 48, 54, 88 632 174 10
				
NEW 4 6143 9	Marelli FIAT	636 339 01, 02, 25, 33 855 402 11 79036685, 7980336 9986109	M10/M10 male 24V	632 167 27, 31, 33, 40, 41 632 172 25, 26
				
NEW 4 6155 9	Marelli FIAT Iveco	63602404	M8/M8/M6 post 12V	631 140 14, E95RL, MSN801 46231646, 71721242, 71782324 1319555080, 1311955508, 1331329080
				
NEW 4 6161 9	Marelli	855 414 20	M8/M8/M6 post 12V	631 020 08 631 030 02, 03, 07, 08 631 031 08 632 229 01, 08 632 231 01
				
NEW 4 6174 9	Marelli Ford	855 410 03	M8/M8/M6 post 12V	632 235 38, 632 935 38 95FB-11000-BC, BD, BG
				
NEW 4 6175 9	Marelli		M8/M8/M6 post M5 post 12V	632 220 05 632 220 35 010
				





IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6182 9	Marelli FIAT	636 004 00 4189658	M8/M8 male 12V	632 253 99 4198226, 4198600, 4229113 4229114, 4474714
				
NEW 4 6183 9	Marelli FIAT	636 009 01 855 303 30, 855 400 01, 855 405 61 9938390	M8/M8 male 12V	632 214 05, 06, 35, 36 632 215 30, 33, 36 632 216 35 632 232 03, 35, 36, 37, 38, 39 632 233 30, 31
				
NEW 4 6184 9	Marelli FIAT	636 004 03, 83, 93 636 005 02, 05, 08 855 302 80, 90 855 402 81 855 407 21 4475085, 4475093, 4475095 9935727, 9938503, 9938576	M8/M8 male 12V	632 060 02, 03 632 070 01 632 204 00, 02, 03, 08, 09, 30, 38, 39, 40 632 205 07, 37, 38 632 207 00-06, 20, 21, 23, 24, 26, 30-36, 40, 41, 43-46
				
NEW 4 6197 9	Bosch Marelli FIAT	1 987 BE2 015 855 402 31 855 404 71, 73 855 405 01, 91 9941308, 9942333	M8/M8 male 12V	632 218 32, 92 632 228 31, 32, 33, 36, 37, 97 632 230 31, 32, 33 632 234 31, 36 632 235 30, 31 943 222 831 46231570, 46406469, 46432301 7668988, 7680616, 7716198
				
NEW 4 6199 9	Marelli FIAT	855 409 81 9945557	M8/M8 male 12V	632 228 89 632 229 36 632 231 09
				
NEW 4 6201 9	Marelli MB	855 413 550	M8/M8 male 12V	631 010 07 005 151 26 01 005 151 27 01
				

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6203 9	Marelli	855 410 10 855 414 00	M8/M8/M6 post 12V	631 010 00, 02, 03, 07 632 229 09 632 231 08 632 232 00
				
NEW 4 6213 9	Marelli FIAT	636 339 01, 02, 25, 33 855 402 11 79036685, 7980336 9986109	M10/M10 male 24V	632 167 27, 31, 33, 40, 41 632 172 25, 26
				







IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6149 9	Bosch Melco Mitsubishi	F 042 010 517 M372X00471 MD607634	M8/M8 male 12V	M2T54172 M2T56171, 181, 182, 271, 272, 971 M2T60171, 1171 M2T92071
				
NEW 4 6150 9	Melco		M8/M8/M5 post 12V	M0T80082, M1T80081 M1T80082, M1T90281
				
NEW 4 6166 9	Melco Opel FIAT		M8/M8/M5 post 12V	M1T30071, M1T30072 55353857, 55358857, 6202074 46823543, 51782321, 55192482, 55195211, 60817002
				
NEW 4 6188 9	Melco	M372X00171 M372X02371	M8/M8/M5 hole 12V	M2T56071 M2T56072
				
NEW 4 6198 9	Melco Mazda Mitsubishi Nissan	M371X64271, M371X64273 M371X64471, M371X74471 N326-18-X10 MD611591 23343-M8210	M8/M8 male 12V	M1T70781, 0881, 1381, 1781, 4181 M3T27781
				
NEW 4 6200 9	Melco Chrysler		M8/M8 plug 12V	M1T84381 M1T84381ZC, M1T84382, M1T84382ZC 56041012AB, AD
				




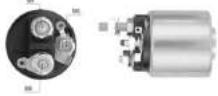


IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6176 9	UNIVERSAL		M8/M8 12V 200A	
 				
NEW 4 6177 9	UNIVERSAL		M8/M8 24V 200A	
 				







IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6000 1 	Valeo	594117	12V	D6RA32, D6RA62, D6RA82, D6RA162, D6RA163, D6RA169, D6RA249
	Opel	90421772	OE Version	
4 6001 1 	Valeo	594271	12V	D6RA68, D6RA168 D7R19, D7R28, D7R43, D7R46 D7R65, D7R281
	MB	A 001 152 26 10	OE Version	
4 6002 1 	Valeo	594613 CED 5100	12V	D7R26, D7R27 D8R27, D8R28, D8R29
	Fiat	77363326	OE Version	
4 6003 1 	Valeo	594181	12V	D6RA37, D6RA51, D6RA511 D6RA57, D6RA571
	PSA	5836.62	OE Version	
4 6004 1 	Valeo	594426 CED 5071	12V	D6RA100 D7R1, D7R3, D7R11, D7R15, D7R151
			OE Version	
4 6005 1 	Valeo	594045 CED 564	12V	D6RA5, D6RA7, D6RA10, D6RA13 D6RA15, D6RA20, D6RA42 D7R7, D7R41, D7R42, D7R61
	BMW PSA	1244607-00 9405836488	OE Version	







IKA-No.	Original	References	Dimensions	Unit-Nos.
4 6006 1	Valeo BMW	594467 CED 5093 7787355-01	12V OE Version	D7G4
				
4 6007 1	Valeo PSA	594348 CED 5120 5836.83	12V OE Version	D6G3 D7E5, D7E16, D7E23 TS8E2
				
4 6008 1	Valeo Nissan	594452 CED 5086 23343-AX010	12V OE Version	TS8E3, TS8E4 D7E29, D7E30, D7E31 D7E40, D7E41
				
4 6009 1	Valeo VW	595617 594617 CED 5258 02Z 911 287, -B	12V OE Version	D6GS19, D7G6 D7GS8, D7GS9, D7GS10 TS18E1, TS18E3, TS18ER20 TS18ER22, TS18ER121, TS18ER123
				
4 6010 1	Valeo	595731 CED 5158	12V OE Version	D7G3, D7G26 TS18E13, TS22E26
				
NEW 4 6011 1	Valeo	594653	12V OE Version	D7E27, D7E47, TS10E3







IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6012 1	Valeo Toyota	594784 28150-0R020	12V OE Version	TS24E3, TS24E30
				
NEW 4 6013 1	Valeo PSA	594183 5836.61	12V OE Version	D6RA12, D6RA16, D6RA38, D6RA66 D6RA72, D6RA74, D6RA161, D6RA661 D6RA721
				
NEW 4 6014 1	Valeo FIAT PSA Renault	594188 9948724 5836.58 77 010 450 12	12V OE Version	D6RA70, D6RA107, D6RA109 D6RA114, D6RA190 D7R12, D7R17, D7R20, D7R24, D7R34 D7R53, D7R56, D7R57, D7R8, D7R9 D8R1
				
NEW 4 6015 1	Valeo Renault	594208 77 010 404 23	12V OE Version	D6RA33, D6RA41, D6RA45, D6RA53 D6RA63, D6RA133, D6RA141
				
NEW 4 6016 1	Valeo Renault	594355 77 012 073 82	12V OE Version	D7E22, D7E6 TS10E5, TS10E5(B)
				
NEW 4 6017 1	Valeo Renault	594438 77 012 073 81	12V OE Version	D7E19, D7E26 TS10E4
				

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6018 1	Valeo MB	594447 A 001 152 50 10	12V OE Version	D7E4, D7E8
				
NEW 4 6019 1	Valeo FIAT	594646 77362732	12V OE Version	D6G1, D6G32
				
NEW 4 6105 9	Valeo	594118 594140 594426	M8/M8/M5 post 12V	D6RA43, 100 D7R1, 3, 11, 15, 151
				
NEW 4 6110 9	Valeo Remy	502326	M8/M8/M6 post 12V	D6RA65, 84, 85, 132, 165, 185 D7R19, 28 21023232, 21023719, 21023994, 21024210
				
NEW 4 6111 9	Valeo	594047 594119	M8/M8 male 12V	D6RA8, 18, 19, 22, 27, 29, 34, 40, 52, 54, 60 D7R2, 4, 17
				
NEW 4 6119 9	Valeo Ford	494813 BG3A-11391-AA	M8/M8/M6 post 12V	438153, 438180, 438181 D7E33, 34, 37, 43, 45 FS10B1 5S65-11000-AA, 7S55-11000-AA, 7S55-11000-AB
				

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6130 9	Valeo MB	594347 CED5033	M8/M8/M6 post 12V	D6RA83 D7E4, 8, 18, 38 004 151 85 01 005 151 11 01, 005 151 21 01, 005 151 47 01 006 151 03 01
				
NEW 4 6131 9	Bosch Valeo	F 042 010 373 594048, 594183 NE-898	M8/M8/M5 post 12V	432636 D6RA12, 16, 38, 66, 72, 74, 161, 661, 721
				
NEW 4 6135 9	Valeo	106142 106143	M8/M8 male	D9E39, 52, 112, 771, 772 D10E85, 92, 921
				
NEW 4 6156 9	Valeo	594365	M8/M8/M5 post 12V	432623 D6RA572
				
NEW 4 6157 9	Valeo	494822	M8/M8/M6 post 12V	438143, 438185 BD7E44 D7E36
				
NEW 4 6159 9	Valeo	594391	M8/M8 plug 12V	D7RS29, D7RS30, D7RS129, D7RS130, D7RS291, D7RS301
				

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6162 9	Valeo	594181, 594449 CED5010, CED5083	M8/M8/M5 post 12V	432633 D6RA37, 51, 57, 110, 511, 571
				
NEW 4 6171 9	Valeo PSA Toyota	594632 595731	M8/M8/M5 post 12V	438133 D7G3, TS14E110 5802.AZ, 5802.FG, 5802.FH, 5802.FP, 5802.Y5 28100-YV010
				
NEW 4 6179 9	Bosch Valeo	F 042 010 366 102217 CED528	M8/M8 male 12V	D9E38, 48, 49, 50, 51, 61, 62, 66
				
NEW 4 6192 9	Valeo	594183 NE-898	M8/M8/M5 post 12V	D6RA6, 33, 46, 53, 56, 61, 73
				
NEW 4 6193 9	Valeo MB	594704	M8/M8/M6 post 12V	432644, 455720 D7R43, D7R46 005 151 13 01
				
NEW 4 6194 9	Valeo PSA	594348	M8/M8/M5 post 12V	438093, 438129 D6G3, 5, 16, 23 9618725080, 9648644680
				

IKA-No.	Original	References	Dimensions	Unit-Nos.
NEW 4 6220 9	Valeo	102190, 108458 CED528	M8/M8/M5 post 12V	D9E46, 68
				
NEW 4 6225 9	Valeo FIAT	594646	M8/M8 coaxial 12V	438168, 458191 D6G1, 32, 321 46823548, 518102660, 51880229, 55204116 71724236
				
NEW 4 6226 9	Valeo	594743	M8/M8 plug 12V	191429 436174, 458214, 458216 D6GS9, 11-14 02M 911 023 G, GX, M, MX 02T 911 023 R, S
				
NEW 4 6228 9	Valeo	594087	M8/M8 male 12V	D6RA8, 17-19, 22, 23, 27, 29, 34, 44, 50, 52, 54, 60, 64
				

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ERSATZTEILE FÜR GETRIEBESTARTER

COMPONENTS FOR GEAR STARTERS

PIECES DE RECHANGE POUR DEMARREURS
A REDUCTEUR











	IKA-No.	Original	References	Unit-Nos.
	4 2200 0	Bosch VW	1 005 821 340 1 005 821 362 03G 911 256	Gear 1 006 200 058,083,087,103,105, 112,114,116,125,137, 145,149,155,923 0 001 107 017,018,031,032,037,044, 045,048,049,054,055,059, 067-069,072-074,076,082,096 0 001 108 157,162,166,169,172-175,178, 180,182,186,188,189,190,196, 200,201,204 0 001 115 001,002,007,012,015,024 0 001 121 006-011,016-019,024-029 0 001 137 001-006,011,012 6 004 AA0 018 9 007 045 018,020 F 000 AL0 128 F 002 G20 318
	4 2201 0	Bosch VW	1 005 821 300,307,311 035 911 307,-A	Gear 1 006 200 001,005,007,010,018, 022,024,026,031,032,036,056, 068,074,123,131,135 0 001 108 001,002,004,007,009-013,016,017, 019,020,023-033,035,037-040, 043-048,050-053,056,057,059-062, 066,068-073,075-077,081,082, 084-086,091-096,098-100,103-105, 109,111,113-119,126-141,143-146, 148,150-159,169,203,210,225, 241,242,996-999 0 001 111 001
	4 2202 0	Bosch VW	1 005 821 303 068 911 307	Gear 1 006 200 004,006,012,015,020, 021,027,044,183,187 FIAT 9940739 0 001 109 003,008,009,011,012 0 001 110 001-005,007-016,018,019, 022-025,027,031-033, 042-046,048,049,051,052, 055,057,058,061,064-067,076, 077,082,083,088,090,092,098, 099,102,108,110,111,113, 115,120,124,125
	4 2203 0	Bosch VW	1 005 821 308,317 1 005 821 352 069 911 255F	Gear 1 006 200 014,017,047-049,057,059, 061,070,071,076,082,098, 104,111,132-134 900,903 0 001 107 014,016,027-029,041 0 001 108 003,018,021,042,054-057, 063-065,074,078-080,083 087-090,101,102,106-108, 110,112-115,120,121-125, 128,132,134,135,139-141, 143,145,147-150,153,155, 156,160,170,177,995 0 001 111 002 0 001 115 035 F 002 G70 047 F 004 A94 009




IKA-No.	Original	References	Unit-Nos.	
	4 2204 0	Bosch VW	1 005 821 306 035 911 256B	Gear 1 006 200 016,019,033,034,039,055, 077,086,090,103,152,163, 171,184,902,904,908,909 F 010 AL1 030 0 001 109 017,040,049,059,060 0 001 110 016,017,026,028-030, 039,041,047-049,053, 054,059-063,068-073, 075-078-081,084-087, 089,091,095,098-100, 101,104-107,113,114, 118,119,122,123, 126-131,999
	4 2205 0	Bosch FIAT MB Opel PSA VW	9 001 140 322 Plastic Gear 9939195 000 151 02 30 1203400 5851 02 069 911 307 alternative product 4 2221 1	0 001 218 001-029 0 001 219 002,003 9 000 331 401-413,417,418,421
	4 2206 0	Bosch	9 001 140 322 alternative product Steel Gear	0 001 218 001-029 0 001 219 002,003 9 000 331 401-413,417,418,421
	4 2207 0	Bosch VW	1 005 821 312 035 911 307B	Gear 1 006 200 037,042,043,060,064,069, 093,095,110,127,128,130, 141,195,910 F 000 AL1 937 0 001 107 003,004,007-009,012,013 015,019-026,034,043,047, 052,053,060,062,063,066, 083,087,089,097,103,104 9 000 081 004 9 000 694 029 F 000 AL0 116
	4 2208 0	Bosch VW	1 005 821 313 035 911 307F	Gear 1 006 200 040 0 001 109 001,002,006,007



IKA-No.	Original	References	Unit-Nos.
	4 2209 0	Bosch 1 005 821 321	Gear 1 006 200 062,063,072,148,153, 160,161,180,206 0 001 106 011,012,015-017,019, 022-024 0 001 107 010,011,030,038,039, 075,077,079,080,088, 089,092,093,098 0 001 115 006 9 000 694 035,044 F 000 AL0 106
	4 2210 0	Bosch VW 1 005 821 314 035 911 307C	Gear 1 006 200 030, 041,074,129,158,173 9 001 694 065 0 001 107 005,006,033,061,085 0 001 108 059,060,076,077,096,097 9 000 694 007,041,051,052
	4 2211 0	Bosch Rubber for Outer Gear 4 2200 0, 4 2203 0	0 001 107 ... 0 001 108 ... 0 001 115 ... 0 001 121 ... 0 001 137 001-006,011,012
	4 2212 0	Bosch Rubber for Outer Gear 4 2204 0, 4 2214 0 replaced by 4 2217 0	
	4 2213 0	Bosch 9 003 331 003	Rubbber for 0 001 218 ...



IKA-No.	Original	References	Unit-Nos.
	4 2214 0 Bosch VW	1 005 821 333 02A 911 256	Gear 1 006 200 088,096,099-101,117, 118,122,126,143,166 0 001 109 014,015,018,019,025,026,028, 030,031,033,036,041,042,048, 052,055,061,062,068,200, 202-204,252,253,264,267-270, 336,337,340,341,364 0 001 110 112 0 001 124 001-008,011-015,022-025 0 001 125 001-013,016-019,021,022,025, 031,032,035,036,039,040,042, 043,046-049,051,052,055-060, 501-504,507,508,511-514, 517,518,602,605,606,617,618 F 002 G20 292,524,618,622,658,672
	4 2215 0 Bosch	Coverplate for Outer Gear 4 2200 0, 4 2203 0	0 001 107 ... 0 001 108 ... 0 001 115 ... 0 001 121 ...
	4 2217 0 Bosch	Rubber for Outer Gear 7 2204 04, 2214 0 Replacement for 4 2212 0	0 001 109 ... 0 001 110 ... 0 001 124 ... 0 001 125 ...
	4 2221 1 Bosch FIAT MB Opel VW	9 002 338 850 9950143 000 151 03 30 90297091 046 911 307	0 001 218 100-161,163,164,167,168 170,171,174-178 602,620,703,710-712,715,716, 719,722,725,728,730,735-737, 740-742,754,757-759,763,764, 767,768,770,771,774-777,805, 808,809,812,814-822, 0 001 219 001-012,014,015,017,112 6 033 AB1 J00 9 000 331 402,405-407,412,415, 417-428,430-433, 9 000 332 401,402,405,406
	4 2222 0 Bosch	1 000 290 014,020 plastic gear ring for 4 2200 0 limited stock	0 001 107 017,018,031,032,037,044,045, 048,049,054,055,059,067-069, 073,074,076,082 0 001 108 190 F 005 M00 006,013 0 001 121 006-011,016-019,024-029 F 002 G20 318

IKA-No.	Original	References	Unit-Nos.	
	4 2225 0	Bosch	plastic gear ring for 4 2203 0	0 001 108 003,018,021,042,054,057, 063-065,074,078-080,083, 087-090,101,102,106-108, 110,112-115,120-124,128, 132,134,139-141,143,145, 148-150,155,156,160,170, 177,995
			plastic gear ring for 4 2204 0	0 001 109 040 0 001 110 017,026,028-030,039,041, 048,049,053,054,059,061, 062,069-073,075-079,081, 084-087,089,091,095, 105-107,113,114,118,119, 122,999 F 010 AL0 101
	4 2226 0	Bosch	plastic gear ring for 4 2214 0	0 001 109 014,018,019,025,026,028, 030,031,033,036,041,042, 048,200,252,253 0 001 110 112 0 001 124 001-006, 011-015 0 001 125 001,002,005-009,012,013, 016-019,021,022,031,032, 035,036,042,043,046-049, 051,052,055,056, 501-504,507,508,511-514, 517,518,602,605,606
	4 2241 0	Bosch	Gear for 4 2200 0	0 001 107 017,018,044,045,054,055, 067-069,073,074,076 0 001 108 162,172,178,180,182,186,204 0 001 137 001-006,011,012 0 001 107 014,016,027-029,041 0 001 108 003,018,021,042,054,057, 063-065,074,078-080,083, 087-090,101,102,106-108, 110,112,114,120-124,128, 132,134,139-141,143,148-150, 155,156,160,170,177,995
			Gear for 4 2203 0	
	4 2242 0	Bosch	Gear for 4 2204 0	0 001 109 040 0 001 110 017,026,028-030,039,041, 048,049,053,054,059,061, 062,069-073,075-079,081, 084-087,089,091,095,105-107, 113,114,118,119,122,999 F 010 AL0 101 0 001 124 001-006,011-015 0 001 125 003,010,011,025,057-060 F 002 G20 658
			Gear for 4 2214 0	
	4 2244 0	Bosch	Gear for 4 2214 0	0 001 109 014,018,019,025,026,028, 030,031,033,036,041,042-048, 200,252,253 0 001 110 112 0 001 125 001,002,005-009,012,013, 016-019,021,022,031,032,035, 036,042,043,046-049,051,052, 055,056, 501-504,507,508,511-514,517, 518,602,605,606

IKA-No.	Original	References	Unit-Nos.	
	4 2246 0	Bosch	Outer Gear	Gear 1 006 200 136 0 001 109 034,063 Toyota 28100-0B020
	4 2250 0	Bosch	9 003 337 009	Gear 6 033 AD0 233 6 033 AD3 087, 308-311 6 033 AD4 066,120 9 001 336 244 Gear Kit 6 033 AD3 306,330 9 001 338 048 9 003 337 009 0 001 230 001-010,012-016,018,020-024, 026-030 0 001 231 001-014,016-019,023,026-030, 033-036,038-041,045,046,119 146
	4 2251 1	Bosch	4 2200 0 w.Rubber (3)	0 001 107 ... / 108 ... 0 001 115 ... / 121 ... 0 001 137 ...
	4 2252 0	Bosch	Gear for 4 2200 0	0 001 121 006-011,019-019,024-029 F 002 G20 318 F 004 A94 029
	4 2253 1	Bosch	4 2203 0 w.Rubber (3)	0 001 107 ... / 108 ... 0 001 111 ... / 115 ...
	4 2254 1	Bosch	4 2204 0 w. Rubber (3)	0 001 109 ... / 110 ...

IKA-No.	Original	References	Unit-Nos.
4 2255 1	Bosch	4 2214 0 w. Rubber(3)	0 001 109 ... / 110 ... 0 001 124 ... / 125 ...
			
4 2256 0	Bosch	Outer Gear	0 001 107 401-405,408-411,417,417, 421,422,427,428,430,446, 447,490,491,499-502 0 001 108 400-402,405,406,408,412, 430,431 0 399 708 303,301 F 004 A94 000,001,004,410,418
			
4 2265 1	Bosch	Gear Wheel Kit 3 gear wheels 108 3 HK 0608 for Gear 4 2241 0	0 001 107 014,016,027-029,041 0 001 108 ...
			
4 2266 1	Bosch	Gear Wheel Kit 3 gear wheels 110 3 HK 0609 for Gear 4 2242 0	0 001 110 ... 0 001 124 ... 0 001 125 ...
			
4 2267 1	Bosch	Gear Wheel Kit 3 gear wheels 218 3 HK 0509 for Gear 4 2243 0 4 2244 0	0 001 109 ... 0 001 124 ... 0 001 125 ... 0 001 218 001-029
			

IKA-No.	Original	References	Unit-Nos.
4 2229 0	Ford-Visteon	E90Z-11A165-A F7RU-11165-CA	E90F-11000-AA,BA E9SF-11000-AA,BA F02F-11000-AA F07U-11000-AA,BA F0CF-11000-AA,BA
			
4 2248 0	Ford-Visteon	Outer Gear for 4 2247 0	
			

IKA-No.	Original	References	Unit-Nos.
4 2224 0	Marelli	542 94580 M70R fits Planetary Gear 855 412 40	631 110 01,05,08 631 130 01 632 235 35,37 632 237 30
			
4 2245 0	Marelli	fits Planetary Gear 855 408 21,-22 IKA P/N 4 2400 1	631 110 00 632 234 30-36,38,94 632 235 30-33 632 236 39 E70R
			




IKA-No.	Original	References	Unit-Nos.
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4 2228 0	Melco	M135C00171 M135X00871 MD618538	M1T7 0281,0285-0287,0381,04810,681, M1T7 0685-0687,0781,0881,0981,0985 M1T7 1081,1181,1281,1381,1385,1481, M1T7 1581,1681,1781,1841,1881 M1T7 2081,2086,2181,2182,2581,2981
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IKA-No.	Original	References	Unit-Nos.
4 2223 0	Remy	10475632	PG 260



IKA-No.	Original	References	Unit-Nos.
4 2218 0	Valeo Remy	21023994 21024210 Outer Gear 37 teeth fits 4 2501 1	D6RA84,85,87,185,187,188
			
4 2219 0	Valeo Remy	21023232 21023719 Outer Gear 59 teeth fits 4 2502 1	D6RA5,6,8,10,12,13,16,18,20, 22,26,30,32,33,37-39,41, 48,49,53,56,59,61,62,73, 74,93,133,141,162,249, 511,571,572
			
4 2268 1	Valeo	594019 Gear Wheel Kit (3) complete with bushings fits Planetary Gear 4 42502 1, 4 2503 1 fits Outer Gear 4 2219 0 59 teeth	D6RA10, D6RA12, D6RA13, D6RA16, D6RA18, D6RA20, D6RA22, D6RA26, D6RA30, D6RA33, D6RA37, D6RA41, D6RA48, D6RA5, D6RA5, D6RA59, D6RA6, D6RA61, D6RA8
			

6

SINTERBUCHSEN

BUSHINGS

BAGUES





Original	IKA-No.	IKA-No.	Dimensions
BOSCH 1 000 301 000 1 000 301 042 2 000 301 019	bulk 4 4000 0	packed by 10 4 4000 1	12.56/16.6x15.8
BOSCH 1 000 301 093 2 000 310 002 2 000 310 010	bulk 4 4001 0 O.E.split bushing O.E.split bushing	packed by 10 n.a.	14.3/16x39.8
BOSCH 1 000 301 002 1 000 301 047	bulk 4 4002 0	packed by 10 n.a.	12.56/16.6x14
BOSCH 1 000 301 001 1 000 301 034 1 000 301 046	bulk 4 4004 0	packed by 10 4 4004 1	12.56/16.6x11.5
BOSCH 1 000 322 005	bulk 4 4005 0	packed by 10 4 4005 1	10.06/16.6 -19x14.8
BOSCH 1 000 301 009 1 000 301 031 1 000 301 066 1 000 301 106 1 000 301 120 2 000 301 020 2 001 301 020	bulk 4 4009 0	packed by 10 n.a.	12.1 /13.62x11.5
BOSCH 1 000 301 011	bulk 4 4011 0	packed by 10 4 4011 1	12.06/16.12x16
BOSCH 1 000 301 012	bulk 4 4012 0	packed by 10 n.a.	12.06/16.12x14
BOSCH 1 000 301 013	bulk 4 4013 0 limited stock	packed by 10 n.a.	26.12/30.13-33x11.5
BOSCH 1 000 301 021	bulk 4 4021 0	packed by 10 n.a.	11.06/13.63x14
BOSCH 1 000 301 022	bulk 4 4022 0	packed by 10 n.a.	17.61/21.62x 9.5
BOSCH 1 000 301 023	bulk 4 4023 0 limited stock	packed by 10 n.a.	14.36/16.04x10
BOSCH 1 000 301 032	bulk 4 4032 0	packed by 10 n.a.	11.1 /12.62x11.5
BOSCH 1 000 301 054 L	bulk 4 4052 0 gear inside 0 001 218 ...	packed by 10 4 4052 1	8.06/11.12x10
BOSCH 1 000 301 026 1 000 301 053 1 000 301 077 2 000 301 025 2 000 301 053	bulk 4 4053 0	packed by 10 n.a.	12.1 /13.62x13.5
BOSCH 1 000 301 054 1 000 301 070 1 000 301 076 VALEO D7E CE	bulk 4 4054 0	packed by 10 4 4054 1	8.06/11.12x8.00

Original	IKA-No.	IKA-No.	Dimensions
BOSCH 1 000 301 055 1 000 301 074	bulk 4 4055 0	packed by 10 4 4055 1	18.03/22.12x08
BOSCH 1 000 301 056 1 000 301 083 2 000 301 056 FORD E90Z-11135-A VALEO D7E (DE)	bulk 4 4056 0 Bosch INA	packed by 10 4 4056 1 alternative: 1 000 917 003 HK 1010	10.06/14.1x10 8 4096 0
BOSCH 1 000 301 055 K	bulk 4 4057 0 gear outside 0 001 218 ...	packed by 10 4 4057 1	18.03/22.12x 6.5
BOSCH 1 000 301 061	bulk 4 4061 0	packed by 10 n.a.	10.06/16.6x10.5
BOSCH 1 000 301 062 9 001 320 323 F 000 AL1 011	bulk 4 4062 0	packed by 10 n.a.	12.56/16.6x10
BOSCH 1 000 301 063	bulk 4 4063 0	packed by 10 n.a.	12.05/15.05x15
BOSCH 1 000 301 082	bulk 4 4066 0 limited stock	packed by 10 n.a. O.E. split bush	12.10/13.62x18.8
BOSCH 1 000 301 080	bulk 4 4071 0	packed by 10 n.a.	12.56/16.6x8
BOSCH 1 000 301 072	bulk 4 4072 0	packed by 10 n.a.	11/13.5x09
BOSCH 9 001 140 347 FIAT / MARELLI 9 939 199	bulk 4 4077 0	packed by 10 n.a.	10.06/16.6x11.5
BOSCH 1 900 301 420	bulk 4 4080 0	packed by 10 4 4080 1	14/20x10
BOSCH 1 900 301 454	bulk 4 4081 0 O.E. bushing	packed by 10 n.a.	25/32x17.9
BOSCH 1 000 390 001/003 1 000 390 004	bulk 4 4082 0 split bushing	packed by 10 4 4082 1 replacement	28.5 /32.3x11
BOSCH 1 000 390 001/003 1 000 390 004	bulk 4 4083 0 sintered bushing	packed by 10 n.a.	28.5 /32.3x11
BOSCH 1 000 390 001/003 1 000 390 004	bulk 4 4085 0 O.E.split bushing	packed by 10 n.a.	28.5 /32.3x11
BOSCH 9 003 330 317	bulk 4 4093 0	packed by 10 n.a.	10/16.1x10
BOSCH 2 000 301 000	bulk 4 4103 0	packed by 10 4 4103 1	12.56/16.6x18

Original	IKA-No.	IKA-No.	Dimensions
BOSCH 2 000 301 004 2 000 310 001	bulk 4 4104 0	packed by 10 n.a.	16.67/19.6x19
BOSCH 2 000 301 006	bulk 4 4106 0	packed by 10 n.a.	14.36/16.04x23.5
BOSCH 2 000 301 013	bulk 4 4113 0	packed by 10 n.a.	10.07/14.1x13
BOSCH 2 000 301 015	bulk 4 4115 0	packed by 10 4 4115 1	40/48x10.5
BOSCH 2 000 301 016	bulk 4 4116 0	packed by 10 4 4116 1	22.14/28.1x11.3
BOSCH 1 000 301 008 1 000 301 078 2 000 301 023 2 000 301 040	bulk 4 4123 0	packed by 10 4 4123 1	12.1/14.12x13
BOSCH 2 000 301 026	bulk 4 4126 0	packed by 10 4 4126 1	19.09/23.1x10
BOSCH 1 000 301 019 2 000 301 031	bulk 4 4131 0	packed by 10 n.a.	14.36/16.04x11.7
BOSCH 2 000 301 036 9 001 082 166 Opel 347 1553 Opel/Remy 347 1069	bulk 4 4136 0	packed by 10 4 4136 1	12.1/14.12x14
BOSCH 2 000 301 037	bulk 4 4137 0	packed by 10 n.a.	14.06/20.03x17
BOSCH 2 000 301 041 2 000 301 045 2 000 301 049	bulk 4 4141 0	packed by 10 4 4141 1	19.09/23.1x13
BOSCH 2 000 301 043 2 000 301 047	bulk 4 4142 0	packed by 10 4 4142 1	14.06/18.1x14
BOSCH 2 000 301 044	bulk 4 4144 0	packed by 10 n.a.	14.36/16.04x20.5
BOSCH Gear Shaft for Planetary Gear Starters	bulk 4 4198 0 9 001 336 244 0 001 230 ... / 231 ...	packed by 10 n.a.	20.85/25x11.8
BOSCH 2 000 322 020 2 000 301 110	bulk 4 4199 0 white metal	packed by 10 n.a. limited stock	34.5/44x42.5

Original	IKA-No.	IKA-No.	Dimensions
DENSO 028403-0082	bulk 4 4457 0	packed by 10 4 4457 1	12.5/14.7x14
DENSO 949103-0390	bulk 4 4461 0	packed by 10 n.a.	12.5/16.5x10.5
DENSO 949103-3160	bulk 4 4462 0	packed by 10 n.a.	12.5/15.5x10.5
NEW DENSO	bulk 4 4509 0	packed by 10 4 4509 1	6.9/9.45-13.0x9.25
NEW DENSO	bulk 4 4510 0	packed by 10 4 4510 1	7.05/9.4x8.25

Original	IKA-No.	IKA-No.	Dimensions
FIAT / MARELLI 4 114 431 9 938 368 748 603 00 FEMSA 3305-103	bulk 4 4300 0	packed by 10 n.a.	12/16x14
FIAT / MARELLI 4 114 442 748 603 80	bulk 4 4301 0	packed by 10 4 4301 1	10/14x15
FIAT / MARELLI 672 541 748 682 10 FEMSA 3305-13 ISKRA 17 120 057 PAL MAGNETON	bulk 4 4302 0	packed by 10 4 4302 1	10/14x13.5
FIAT / MARELLI 4 007 952 747 057 10 FEMSA 3305-10 3835-38 ISKRA 17 120 203 CE LADA 2101-370-8310 CE	bulk 4 4304 0	packed by 10 n.a.	12/16x16
FIAT / MARELLI 4 047 985 748 661 40 FEMSA 3305-11 LADA 2101-370-8405 DE	bulk 4 4305 0	packed by 10 n.a.	12/16x24.5
FIAT / MARELLI 9 927 787 723 625 10	bulk 4 4306 0	packed by 10 4 4306 1	12.57/18.54x19.8
FIAT / MARELLI 9 927 783,-789 723 629 10	bulk 4 4307 0	packed by 10 4 4307 1	14.1/20x11.8
FIAT / MARELLI 9 927 796 723 650 10	bulk 4 4308 0	packed by 10 4 4308 1	20.27/24x13,9
FIAT / MARELLI 748 811 10 748 878 90	bulk 4 4311 0	packed by 10 n.a.	12/16x12
FIAT / MARELLI E70R D.E.	bulk 4 4312 0	packed by 10 n.a.	8/12x 9.6
FIAT / MARELLI E70R I.M.	bulk 4 4313 0	packed by 10 n.a.	18.1/23x8.0
FIAT / MARELLI Starter Drive	bulk 4 4314 0	packed by 10 n.a.	12.16/14.1x18
FIAT / MARELLI E95R C.E.	bulk 4 4315 0	packed by 10 n.a.	15.07/18.1x11.8
FIAT / MARELLI E70R C.E.	bulk 4 4316 0	packed by 10 n.a.	8/11.5-14.5x10
FIAT / MARELLI M70R	bulk 4 4318 0	packed by 10 n.a.	18.17/23.05x 9.2

Original	IKA-No.	IKA-No.	Dimensions
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FIAT / MARELLI	bulk	packed by 10	
850 208	4 4354 0	4 4354 1	14/18x20
747 058 10			
DUCELLIER			
604 521			
PARIS RHONE			
47 852			

Original	IKA-No.	IKA-No.	Dimensions
FORD-VISTEON PMGR 97BB-11000-BB,BC	bulk 4 4272 0	packed by 10 n.a.	8.1/12.45x10
FORD-VISTEON Gear	bulk 4 4273 0	packed by 10 n.a.	7.0/11.9x10

Original	IKA-No.	IKA-No.	Dimensions
HITACHI 2114-44101	bulk 4 4443 0	packed by 10 n.a.	18.1/22.04x6.8
HITACHI PMGR	bulk 4 4444 0	packed by 10 n.a.	22.05/26.05x5.2
HITACHI 2114-5352 PAL 323 622 640 853 Skoda Favorit	bulk 4 4454 0	packed by 10 n.a.	12.5/16.0x12
HITACHI 2114-4661 2114-5661	bulk 4 4455 0	packed by 10 4 4455 1	12.5/16.0x15
HITACHI 2114-3601 FIAT 748 944 80	bulk 4 4459 0 limited stock	packed by 10 n.a.	11.0/15.0x15
HITACHI 2120-4401	bulk 4 4463 0 limited stock	packed by 10 n.a.	20.4/26.5x12.5
HITACHI 2106-1601 2106-2352 2114-1352 2114-1601 2114-3352	bulk 4 4466 0 limited stock	packed by 10 n.a.	11.5/15.0x13/14
HITACHI 2114-2601 2120-2601	bulk 4 4471 0	packed by 10 n.a.	14.0/18.0x20
HITACHI 2130-1310 2130-2601	bulk 4 4472 0	packed by 10 n.a.	14.0/18.0x17
HITACHI 2114-1353	bulk 4 4485 0	packed by 10 n.a.	12.05/15.55x5.5

Original	IKA-No.	IKA-No.	Dimensions
LUCAS 54.252.054 TCB 114	bulk 4 4400 0 limited stock	packed by 10 n.a.	12/15x16.7
LUCAS 253.316 TCB 124	bulk 4 4403 0 limited stock	packed by 10 n.a.	19/20.6x17.8
LUCAS 54.255.966 TCB 118 part of kit	bulk 4 4409 0	packed by 10 4 4409 1	17.1/21x22.2
LUCAS 54.256.151	bulk 4 4410 0 TCB 106/118 part of kit	packed by 10 n.a.	28.6/31.8-38.1x13
LUCAS 54.257.833	bulk 4 4411 0 TCB 106/118 part of kit	packed by 10 n.a.	12.8/19.1x14
LUCAS 271.364 TCB 120	bulk 4 4412 0 limited stock	packed by 10 n.a.	12.7/15.9x16.5
LUCAS 54.256.098 54.256.132	bulk 4 4414 0 TCB 106/118 part of kit	packed by 10 n.a.	12.8/15.9x14
LUCAS Starter 27576	bulk 4 4415 0 TCB 106 part of kit	packed by 10 n.a.	14.4/17.5x22.2
LUCAS 54.269.790	bulk 4 4418 0 TCB 129/130 part of kit	packed by 10 n.a.	12/15x8

Original	IKA-No.	IKA-No.	Dimensions
MELCO Planetary Gear	bulk 4 4452 0	packed by 10 n.a.	8.1/11.5x11.6
MELCO Starter Drive	bulk 4 4453 0 limited stock	packed by 10 n.a.	12.0/14.0x16
MELCO M410D11271	bulk 4 4456 0	packed by 10 n.a.	11.0/13.0x13
MELCO M409C12670	bulk 4 4458 0	packed by 10 n.a.	11.0/14.0x13
MELCO M409C12970 M409D30201 M649D 30201	bulk 4 4464 0	packed by 10 4 4464 1	10.0/14.0x13.5
MELCO M409C32370	bulk 4 4465 0	packed by 10 4 4465 1	12.0/16.0x9.5
MELCO M409C12870	bulk 4 4470 0	packed by 10 4 4470 1	10.0/14.0x9.5
MELCO M409X32571	bulk 4 4484 0	packed by 10 4 4484 1	10.0/13.0-16.0x10.5

Original	IKA-No.	IKA-No.	Dimensions
PAL MAGNETON 323 125 527 127 AVIA CE 360 904 551	bulk 4 4240 0	packed by 10 n.a.	14.54 /18.03x14.8
PAL MAGNETON 323 125 436 125 AVIA IM 397 907 552	bulk 4 4241 0	packed by 10 n.a.	19.06 /22.53x13.9
PAL MAGNETON 323 125 527 131 AVIA DE 360 904 550	bulk 4 4243 0	packed by 10 n.a.	14.54 /18.03x16.8
PAL MAGNETON 751 904 552 VIKO T815 931550	bulk 4 4244 0 limited stock	packed by 10 n.a.	23.04 /27.03x19.8
PAL MAGNETON 390 905 550 LIAZ TATON	bulk 4 4245 0	packed by 10 n.a.	21.03 /24.67x25.9
PAL MAGNETON 323 125 723 125 SKODA 103 903 552	bulk 4 4247 0	packed by 10 n.a.	12.56 /16.6x14
PAL MAGNETON 323 622 642 933 SKODA FAVORIT 114 904 550	bulk 4 4248 0	packed by 10 n.a.	10/14x15

Original	IKA-No.	IKA-No.	Dimensions
REMY US 194 5509	bulk 4 4201 0	packed by 10 n.a.	16/19.2x22
REMY US 198 8096	bulk 4 4202 0	packed by 10 n.a.	21.3 /24.4x25
REMY US 196 2606	bulk 4 4205 0 limited stock	packed by 10 n.a.	19.2 /31.8x10.2
REMY US 1943628	bulk 4 4207 0 limited stock	packed by 10 n.a.	14.31/19.11x19.2

Original	IKA-No.	IKA-No.	Dimensions
VALEO 600 609	bulk 4 4253 0	packed by 10 n.a.	13/15x14,5
VALEO 098 888	bulk 4 4257 0	packed by 10 n.a.	10/13x12
VALEO 030828 DUCELLIER 094 909 604 541	bulk 4 4259 0	packed by 10 4 4259 1	15.95/19.15x14
VALEO 028 936 068 888	bulk 4 4260 0	packed by 10 n.a.	16.2/19.15x15
VALEO 600 628 602 039	bulk 4 4263 0	packed by 10 n.a.	13/15x13.5
VALEO 68 412 601 476 ISKRA 15 120 087 LUCAS 54.269.480 PARIS RHONE 097 726 ROMANIAN DM 214 Dacia CE	bulk 4 4264 0	packed by 10 4 4264 1	12.05/15.05x12
VALEO 051914 DUCELLIER 068 902, 068 903 084 909 LADA Samara DE ROMANIAN DM 214 Dacia DE	bulk 4 4265 0	packed by 10 4 4265 1	12.05/15.05x15
VALEO 078039	bulk 4 4350 0	packed by 10 n.a.	12/15.05-18x16
VALEO 068 763 PARIS RHONE 096 485 FEMSA 3305-89 ROMANIAN 2130510	bulk 4 4351 0	packed by 10 4 4351 1	14/18x16
VALEO 050488	bulk 4 4352 0	packed by 10 4 4352 1	20/24x12
VALEO 049 785, 052 123 DUCELLIER 068 449	bulk 4 4353 0	packed by 10 4 4353 1	14/18x18
VALEO 074 952	bulk 4 4355 0	packed by 10 n.a.	16/20x10
VALEO 055 330 074 332	bulk 4 4361 0	packed by 10 n.a.	17/21x24
	limited stock		

Original	IKA-No.	IKA-No.	Dimensions
VALEO 095 654	bulk 4 4363 0	packed by 10 n.a.	20/24x16
VALEO 074 330	bulk 4 4364 0 limited stock	packed by 10 n.a.	27/35x14
VALEO 105 464	bulk 4 4371 0	packed by 10 4 4371 1	10/13x13
VALEO 105 715	bulk 4 4372 0	packed by 10 4 4372 1	10/13x16
VALEO Starter Drive MITSUBISHI Starter Drive	bulk 4 4380 0	packed by 10 n.a.	12/14x20
VALEO D6RA DE	bulk 4 4501 0	packed by 10 n.a.	12/15x10
VALEO D6RA IM	bulk 4 4502 0	packed by 10 n.a.	18/22x5
VALEO D6RA CE	bulk 4 4503 0	packed by 10 4 4503 1	6/10.0-13.7x 8
VALEO D6RA DS	bulk 4 4504 0	packed by 10 n.a.	6/9x7 Planetary Gear inside
VALEO D7R IM	bulk 4 4505 0	packed by 10 n.a.	20/24x5
VALEO D7R DS	bulk 4 4506 0	packed by 10 4 4506 1	7/10x6.1
VALEO D6RA Gear Wheel	bulk 4 4507 0	packed by 10 n.a.	4/7x7
VALEO D6G DS	bulk 4 4508 0	packed by 10 n.a.	5/9x7 mm Planetary Gear inside

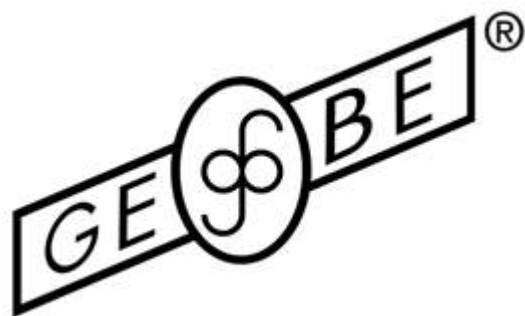
7

NADELLAGER

NEEDLE BEARINGS

ROULEMENTS A AIGUILLES





NADELLAGER NEEDLE BEARINGS

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
8 2256 0	INA	HK 0608	06.00 / 10.00 x 08.00	0 001 106 011, 012, 014-017, 019, 022, 023, 024 0 001 107 003-008, 011, 014-023 025-028, 030, 031, 037, 038, 039, 041, 043-045, 047-049, 052-055, 059, 062, 063, 066, 068-071, 073-075, 077, 080, 082, 087, 088, 091, 093-097, 100, 101, 103, 104, 108, 0 001 108 001-004, 009, 010, 019 023, 024, 026, 027, 030, 031-035, 037, 038, 043, 046-048, 051-053, 056, 062, 066, 068-070, 072, 073-081, 083-098, 100, 112-115, 117-119, 122, 123-126, 128-130, 133, 134-140, 143, 145, 148, 149-151, 153, 154, 157, 159-162, 166-167, 169, 170, 171, 173-178, 180, 182-184, 186, 190, 197, 204, 217, 218, 220, 221 0 001 109 014, 018, 021, 022, 025, 026, 030, 033, 034, 036, 040, 041, 045, 048, 200, 201, 250, 252, 253, 258, 259, 268-270, 300, 301 0 001 110 072, 110, 112, 132 0 001 115 002, 005, 008, 012, 015, 020, 024, 068, 069 0 001 121 001, 002 0 001 123 002, 003 0 001 124 020, 021 0 001 139 015, 016 0 001 218 162, 165, 172 0 001 223 002, 005, 007, 024 428000-0720, -1620
8 2258 0	INA	HK 0609	06.00 / 10.00 x 09.00	0 001 110 001, 002, 007-016, 019, 022, 023, 029-032, 041, 043, 045, 046, 048, 049, 051, 053, 063-067, 069-071, 075, 086-091, 098-101, 104-108, 118, 119, 120, 133, 134 0 001 117 008 0 001 124 003-006, 013, 014, 025, 0 001 218 166, 173 S114-516, -A, -520A, -B, S114-526A, -535, -806, -A, S114-844, -869, -871, -925, 91AB-11000-EB, -FB, -PA, 92AB-11000-HA, -HB, 95VW-11000-DA, -EB, -EC
8 2260 0	INA	HK 0509	05.00 / 09.00 x 09.00	0 001 107 072 0 001 109 001, 003, -005, 017, 025, 026, 042, 055, 056, 079,

NADELLAGER NEEDLE BEARINGS

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
				082, 089, 092, 095, 102, 115, 124-127, 138 0 001 121 006-011, 016, 017, 022, 023, 026-029 0 001 123 012-019 0 001 124 011, 012, 018, 019, 022,023 0 001 125 001, 002, 007-013, 016-019, 021, 022, 031, 032, 035, 036, 039, 040, 046-050, 051-054, 501, 502-504, 507, 508, 511, 512-514, 517, 518, 600 0 001 218 003-006, 008, 009, 012, 013, 017-024, 026, 027, 101, 103-105, 108-115, 120, 122, 127, 128, 130, 131, 133, 134, 141, 145, 146, 147, 152, 153, 155, 159, 160, 163, 167, 168, 171, 174 D6G1, D6GS11,-12,-13 D7G9,-26 D7R5,-8,-13,-16,-20,-25,-49 D7RS30,-130,-301 D8R1,-27,-29 D9R149 TS22E26
8 2269 0	Valeo INA	186663 HK 0408	04.00 / 08.00 x 08.00	D6RA67,- 81,- 91,- 100, -114 D6RA167,-181 D6RADP183,-359
NEW 8 4077 0	Bosch INA DAF MAN Opel	F-575702 1875154 51 26213 0015 2119218	25.00 / 32.00 x 10.00	0 001 241 001, 008, 012, 024, 119 0 001 261 003-006, 013, 025-028, 041
NEW 8 4078 0	Bosch INA VAG	1 000 917 020 F-571073.01 03G 911 155	25.00 / 32.00 x 14.80	0 001 177 000-013 0 001 179 500-519, 522, 523, 530, 531 0 399 703 170, 171 0AH 911 023 H, -HX, -J, -JX 0AM 911 023 N, -NX, -R, -RX 02E 911 024 B, -BX, 02M 911 021 G, -GX, -H, -HX 02M 911 024 B, -Q, -QX, -R, -RX 02M 911 024 R, -RX 02Z 911 024 F, -FX
8 4079 0	Bosch INA	9 001 140 384 HK 1210	12.00 / 16.00 x 10.00	0 001 107 037, 048, 056, 100, 101, 108 0 001 108 115, 145, 147, 157, 168, 169 0 001 109 014, 015, 023, 025, 030, 031, 033-036, 040-042, 045, 046, 048, 052, 055, 061-063, 068, 069, 070, 200, 201, 250, 252, 253, 256, 262-274, 300-303, 306, 307 0 001 110 039, 040, 043, 044, 051, 053, 054, 064, 065, 067, 088, 104, 105, 110, 112, 113, 130, 131,

NADELLAGER NEEDLE BEARINGS

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
				0 001 111 002 0 001 112 025 0 001 115 047, 048, 074, 075 0 001 139 001, 002, 015, 016, 025 0 001 218 002, 003, 006-011, 014-017, 019-024, 026-029, 100-110, 113-115, 118-129, 131, 133, 134-138, 140-147, 150-156, 158-168, 170-178, 602, 620, 703, 710, 719, 722, 725, 728, 735-738, 740-742, 754, 758, 759, 763-768, 770-772, 774,
8 4090 0	Bosch	1 000 917 009 1 000 917 010 1 000 917 012	28.00 / 35.20 x 14.62	0 001 120 400-411 0 001 121 032,033,402,403, 408-413,422,423,427-430 443,444 0 001 122 201,202,400-403 0 001 123 001-003,012-021,024-029, 036-039,044,045, 0 001 124 026,027 0 001 125 055-058,519-522,609,610, 617,618 0 001 142 001-006 0 001 145 001,002 0 001 153 007-010,013,014 F 002 G20 325
	INA	F-235208/.02/.04 F-600387		
8 4091 0	Bosch	9 003 330 901	10.00 / 17.00 x 12.00	9 000 331 201
	INA	NK 10/17 TN		
8 4092 0	Bosch	2 000 910 013	15.87 / 23.80 x 21.90 (closed)	0 001 370 003,004
	INA	F-220469		0 001 371 004-010,012-020
8 4094 0	Bosch	1 000 917 007 6 033 AC0 352 6 033 AD6 141 Kit	30.50 / 37.00 x 16.00	0 001 121 022,023 0 001 124 020,021 0 001 125 016-019,046-049,053,054, 600,601,605-608 0 001 314 047, 048 0 001 330 004,007,008,011-014, 016-018,020,047,050, 057,060,501,502 0 001 33E 101, 0 001 33F 102 0 001 340 501-505 0 001 34B B01,H01 0 001 34F 801,802 0 399 B50 306,307 F 002 G20 286,310,314,475,553,570, 589,594,656,669,670,689 947,948 F 002 G70 057,058
	INA	F-229411,-KLM HK 3016 B		
8 4095 0	Bosch	1 000 917 005	12.00 / 16.00 x 14.00	0 001 107 070,071
	INA	HK 1214 2RS FPM		0 001 108 113,114,174,175, 200,201,220,221 0 001 109 011,021,022,026,043,044, 056,059,060,064-067, 204,205,258-261,275,276, 304,305,340,341,389,390 0 001 110 029,030,056,066,067, 100,101,106,107,122,123,

NADELLAGER NEEDLE BEARINGS

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
				126-129,136-139 0 001 115 022,023,088,089,092,093 0 001 139 023,024,031,032,047,048 9 000 694 048 F 004 A94 002,009
8 4096 0	Bosch INA Marelli Valeo	1 000 917 003 HK 1010 708 040 060 185 951	10.00 / 14.00 x 10.00 alternative product for bushing 4 4056 0	0 001 106 023,024 0 001 107 030,059,064,075,078-080, 082,088,102,433,434,440, 441,448,449,452,453, 459-462,476-479,514, 529-531, 0 001 108 068,069,103,104,123,134, 150,153,160,167,170,172, 0 001 108 181,197,199,202,204,205, 213,214,217,218,222-224, 234,235,239,240,403,404, 409,410,415,416,420,421, 428,429,441,442,445,446, 450,451,456,457,996-999 0 001 112 035 0 001 115 005,006,008,020,021,025, 039-041,045,046,049-054, 056,057,068-073,076-079, 082-085,096-101,103-109 0 001 116 004 0 001 148 003,004 0 001 170 400-403,406,407 0 001 172 400,401 0 001 223 006,012,018,019 9 000 694 035,044 9 001 107 088,434 9 007 046 007,009 F 000 AL0 100-102,106,109,110,127, 316,901 F 000 AL1 436,617,644,924,951,952, F 004 A94 007,434,441,449 F 004 A95 002 F 026 T02 002
8 4097 0	Bosch INA	1 000 917 004 HK 1014 RS	10.00 / 14.00 x 14.00 closed	0 001 106 406,404 0 001 107 010,011,019,027-029, 038,039,041,043,063, 085,087 407,410,417,418,421, 422,456,499,500-502 0 001 108 125,128,130,132,133 138-141,155,156,176-178, 183,188,206,207,210, 228,229,237,238 400,405,406,408,411,412, 0 001 112 017,018,029,033,037,041, 0 001 113 009,010,015,017, 0 001 115 009,016,017,031,032,035, 0 001 116 003 9 000 695 004,005,007,008, F 000 AL0 103,104 F 002 G20 049,101,348,449,500,546, 568,639,697,715 F 004 A94 004

NADELLAGER NEEDLE BEARINGS

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
8 4098 0	Marelli/Fiat INA	HK 1214 RS	12.00 / 18.00 x 14.00	0 001 110 126-129, 136-139 50246416 63221801,831 63222000,001 63222030,031,034,036,038,039 63222130,133,134,135,136,138 63222204
8 4099 0	Bosch INA	9 003 330 903 HK 1216 2RS	12.00 / 18.00 x 16.00	0 001 218 157, 757 0 001 223 001, 009, 010, 014, 021 0 001 230 002, 003, 014, 025 0 001 231 028, 045 0 001 260 001
8 4207 0	Remy INA	7451787 9437171 FC-66217	17.00 / 23.80 x 31.80 closed	20SI,27SI Type 200 1100 056,057,061,062,066, 067,071-073,075-078, 080-083,086,087 1901 0100, 0108, 0111, 0114, 0115, 0118, 0120, 0124, 0126, 0127, 0129, 0134, 0138, 0141, 0145, 0147, 0153-0163, 0168, 0171, 0173, 0174, 0176, 0178, 0181, 0182, 0185, 0193, 1901 1108 1902 0307, 0310, 0346, 0366, 0376, 0382, 0383, 0391
8 4208 0	Ford-Visteon	SCE 98	14.29 / 19.05 x 12.70	1S7U-11000-BA,-BB,-BC YC1U-11000-AB,-AD,-AE,-AF,-AG 1120215, 1140110, 1151641 1197912, 1209193, 1214371 1233277, 1386127, 1387062 1449615, 1450653, 1541002
8 4209 0	Bosch INA	1 000 917 008 F-231294	05.00 / 08.52 x 06.86	0 001 107 404,405,410,418,429, 435,437,440,441,501,502 0 001 108 400,405,406 0 001 120 402,403,406-411 0 001 121 402,403,408-411 2S6U-11000-DA, -DB, -DC
8 4210 0	Melco	DB501005C	10.00 / 15.00 x 15.40 closed	M2T80582 M2T84071, -ZT, M2T84171, -ZT M2T84571, M2T85271 M2T87071, -ZT, M2T87271, -ZT M2T87471, -671, -971 M2T88071, M2T88271, M2T88471 M2T88473, M2T88671 MD312857, MD312858, MD314167 MD315547, MD315548, MD344182 MD344183, MD348221
8 8118 0	INA	HK 1812	18.00 / 24.00 x 12.00	9 000 331 201, -203 D9R112, -116, -118, -119, -121 D9R122, -142, -144, -149 D9R73, -84, -89, -90, -91, -97, -99 D9RP160, -256

NADELLAGER NEEDLE BEARINGS

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
8 8161 0	Melco	TLA141912ZE01	14.00 / 19.00 x 12.00	M2T61071, -072 M2T61171, M2T62271, M2T63171 M2T66871, -873 M2T67871, -872, -873 M2T67881, -882, -883, -884 M2T74371, M2T92071, -A MD156987, MD156989, MD164977 MD164978, MD191437 ME017035, ME017036, ME017056 ME017061, ME017085, ME017089
	INA	HK 1419		
8 8200 0	Lucas	54160827	17.00 / 23.80 x 17.40 closed	A127 24145A,-D,24156A,-D,24157A,-D 24158A,-D,24161A,-D 10SI,12SI,15SI,17SI,27SI 1047 9823,9825-9827,9832-9834, 9858,9860,9862,9864-9869, 9915,9916 1100 059,063-065,068,074,092, 109-113,115,119-122,124, 125,127,129,130,133,138-143, 145,146,148-156,158,159, 162-169,173-176,178-182
		54207267,-268 UMB 113		
	Remy	943 6831,-7305,-8527 9441879		
	Ford	D20Z-10A304-A		
	INA	BCH-06604 closed		
8 8275 0	Bosch	2 000 910 004	19.05 / 25.40 x 15.88	0 001 510 001-003,005,008-010, 017-041 0 001 512 001,002
	INA	SCE 1210 B		
8 8277 0	Lucas	54207451	17.00 / 23.80 x 17.40 open	A127 w. vacuum pump 24188,-A,-C, 24230,-A,-B, 24246A, 24256A,-C, 24264,-A, 24273A, 24274A, 24277A, 24293, 24294A, 24316, 24374 10DN series 1100 619,653,654,721,722,732, 735,773,806,821,822,887 864F-10300-FD,-FE 864F-10K359-FC,-FD, FE 864FX-10K359-FE, 884F-10K359-AB 894F-10300-BA, 894FX-10300-BA 894X-10300-AE, BA 914F-10300-AA, 914F-10K359-AA 924F-10300-AA,-AB 924F-10K359-AB, 924FX-10K359-AA 924X-10300-AB, 954F-10300-AA 954F-10K300-AA,-AB 954F-10K359-AB
		UMB 115,129		
	Remy	9437 221,-222		
	INA	BCH-06604 open SCH FC-65177		
8 8305 0	Melco	S933P65270	12.00 / 17.00 x 12.00	M2T92071,-A,92171,92172,-A 92271,-A,95071
		TLA121712		
8 8314 0	Melco	S933P70605,-70669	10.00 / 15.00 x 15.00 closed	M0T83481, 90781 M1T73681, 74781,-A, 74785, 90081,-A M2T24081, 24082, 24181, 24281 25081, 25082, 25083 M2T25281, 25282, 25381, 25481, 25282, 25381, 25481, 25581, 25681, 25981, M2T42981, 46681, 46682, 47381, 47382, 48281, 49282, 49283, 49481, 49581, 49981,
		TLAM101515UE09		

NADELLAGER NEEDLE BEARINGS

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
				M2T80582, 85671 M3T24482H,-J,-K M3T24486A,-H,-N, M3T43081, 44181, 44281, 48181, 48281, 48381, 48382, 48681, 49281, 49282, 49381, 49481 233000-C010, -H610, -P510 23300-18V10, 23300-30P16, 30P17 23300-41B15, 23300-48L10 23300-53J10, 53J15 23300-60U11, 60U12 23300-73C10, 73Y10 23300-H5015, 23300-M8212
8 8663 0	Bosch INA	2 000 910 015 F-220469.1	16.00 / 23.85 x 18.95	0 001 372 001-008
8 8664 0	Bosch INA	2 000 910 011 SCE 1012	15.88 / 20.64 x 19.05	0 001 370 001,002 0 001 371 001 9 000 453 029, 064-068
8 8665 0	Bosch Ford Hitachi INA	2 000 910 012 BE9H-11052-B TN49-11339-A 2114-1411 F-230978 HK 2216 2RS	22.00 / 28.00 x 16.00	0 001 370 001-004 0 001 371 001,004-010,012-020 0 001 372 001-008 9 000 453 029,064-068
8 8668 0	Valeo INA	185 467 HK 1012 RS	10.00 / 14.00 x 12.00	D7G11 D7R1, -2, -3, -4, -8, -13, -16, -17 D7R17, -18, -20, -25, -40, -45, -61 TS12E10 M1T93071, -ZC, M1T93171ZC M1T93371, 93571 M9T60471, 60672 M9T61171, 61571 MD329260
8 8671 0	Hitachi INA PAL-Magneto n	2130-1451 HK 2212 324592000, 324592003	22.00 / 28.00 x 12.00 closed	9142 687, 700, 702, 704, 708, 709, 720, 722, 723, 724, 727, 728, 729, 740, 741-744, 764, 765, 780, 782, 783, 801, 802, 803, 840, 860 9172 702, 780
8 8672 0	INA	HK 1412	14.00 / 20.00 x 12.00	M2T56272 M2T60171, 60172, 60185 M2T61071, 61171, 62771 M2T63171, 66871, 66873 M2T67871, 67872, 67873 M2T92071, -A, 92171 M2T92172, -A MD072654, 95865, 121581 MD156987, 164977, 164978 MD177596, 191437 ME017035, 17056, 17061
8 8673 0	INA	HK 0810	08.00 / 12.00 x 10.00	0 001 230 006, 012, 014 0 001 231 002, 003, 004, 008, 009, 011, 013, 014,

NADELLAGER NEEDLE BEARINGS

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
				017, 029, 030, 032, 0 001 241 001, 015, 020 0 001 261 001, 002 21020892, 21020893 21021366, 21021648 M9T60471, 60671, 60672 M9T60471, 61571, 61971 TS18ER20
8 8674 0	INA	HK 0808	08.00 / 12.00 x 08.00	D7G11, -20, -26, -3, -4, D7GS10, -8, -9 TS18E3, -13 TS22E26, -8, -9 9000751, 9000756, 9000758 9000772, 9000785, 9000791 9000794
8 8675 0	Bosch INA	1 000 917 006 HK 0910	09.00 / 13.00 x 10.00	0 001 107 031,032,049, 415,429,431,432,437 F 000 CD0 202 F 002 GD20 485
8 8677 0	Valeo INA	F-123861	26.10 / 33.00 x 13.70	D7E S5
8 8681 0	Ford Melco	SCE 116 BA 116 Z	17.46 / 22.23 x 09.5	M0T86081, 86181, 87881, 80381 M1T93071,-ZC, 93371, 93571 M2T80582, 84771, 85271, 88071, 88271 MD344183, 348221
8 8683 0	Remy INA	9441512 10483523 SCE 146B	22.2 / 28.60 x 09.4	PG260F1 2102 0892,0893,1366,1648, 9000 0700,0751,0756,0758, 0772,0785,0791,0794
8 8684 0	Remy INA	3472455 7982870 F-56769	11.50 / 17.50 x 16.50 closed	3472 002,014,018,020-024, 026,028,032,033,037, 038,042,048-053,057, 058-070,072-075,082, 091,093,104-106,119, 120,121,128,130,134, 135,137,139,142-144, 170,171,188,202,204, 206,208,210,220,275, 641,706 3493 204,220,230,234,239, 242-244,604,606,619, 621,634,635,639,641, 644,704,706,714,715, 716,717,719,721,734, 739,741,791 5153010, 7982574, 7982575
8 8693 0	Bosch INA	2 000 910 005 F-203215 RH L091 F-91916	33.00 / 48.00 x 15.00	0 001 410 015-017,019,021,022,024, 029,032,034,035,037,041, 043,044,046,049,050,052, 058,061-063,065,067-069, 073,075,077,078,083, 086-092,094,098,101,102, 104-106,109,111,113, 115-118

NADELLAGER NEEDLE BEARINGS

IKA-No.	Original	References	Dimensions mm	Unit-Nos.
				0 001 411 001,002,004-007,009-032, 035,036 0 001 413 001,003-014,017,018 0 001 414 001-011,013-022 0 001 415 001-014,016-024,027 0 001 416 001-019,021-033,035-040, 042-086 0 001 417 001-020,023-031,033-038, 040-048,050-069,071-080 0 001 418 001-017 9 000 084 007-026,085
8 8829 0	Hitachi Nissan INA	2250-1451 23341-V0600 HK 1512	15.00 / 21.00 x 12.00	S13-33,33A,33B,37,37B, 38B,41,41A,45A,45B, 68,86 S25-110F,110G,110L, 125A,125B,132C
8 8981 0	Bosch Ford IVECO INA	6 033 AC 0093 F7RU-11448-EA 42535274 HK 1212	12.00 / 18.00 x 12.00	0 001 223 003,007,024 IVECO
8 8982 0	Melco INA	HK 1414 2RS	14.00 / 20.00 x 14.00 closed	M1T93171 ZC
8 8983 0	Bosch INA	2 000 910 002 2 000 910 009 HK 1816	18.00 / 24.00 x 16.00	0 001 410 015-017,019,021,022, 024,029,032,034,035, 037,041,043,044,046, 049,050,052,058,061-063, 065,067-069,073,075,077, 078,081,083,086-092,094, 098,101,102,104-106,109, 111,113,115-118 0 001 411 001,002,004-007,009-032, 035,036 0 001 413 001,003-014,017,018 0 001 414 001-011,013-022 0 001 415 001-014,016-024,027 0 001 416 001-019,021-033,035-040, 042-083 0 001 417 001-020,022-031,033-038, 040-048,050,051,053-069, 071-080 0 001 418 001-017 9 000 084 007-026
8 8986 0	Hitachi Nissan INA	2130-3451 23338-V0700,-V0702 HK 2012	20.00 / 26.00 x 12.00	S13-49A
8 8987 0	INA	HK 2220	22.00 / 28.00 x 20.00	0 001 420 001 0 001 420 012
8 8989 0	Bosch INA	HK 2512	25/32 x 12 mm	0 001 241 003,007,009,014,016, 019-021,023 HEF95-L 24V(R)



8







REPARATURSÄTZE UND BUCHSENSÄTZE

REPAIRKITS AND BUSHING-KITS

KITS DE REPARATION ET JEUX DES BAGUES









IKA-No.	Original	Qty.	References	Unit-Nos.
	Bosch	1	2 000 105 040	0 001 410 ... 411
	1 987 010 000	2	2 000 109 008	414 ... - 417
		1	2 000 210 014	KB-Starter
		1	2 000 212 000	24 Volt
		1	2 000 301 015	
		1	2 000 301 016	
	Kit	2	2 000 500 084	
	w. needle bearing	1	2 000 910 005	
	w/o. brushes	1	2 003 315 002	
		4	2 003 450 015	
		1	2 004 650 030	
	Bosch	1	Kit 0 3811 1	0 001 410 ... 411
	w. brush set BSX 148	1	2 007 014 070	414 ... - 417 KB-Starter 24 Volt
	Bosch	1	Kit 0 3812 1	0 001 410 ..., 411...
		1	0 331 101 006 Relais	0 001 414 ..., 417...
	Kit	1	0 331 450 001 Relais	KB-Starter
	w. relais+clutch	1	2 006 401 527 Clutch	24 Volt
	Bosch	1	Kit 0 3811 1	0 001 416 ...
	Kit w. brush set BSX 172-173	1	2 007 014 079	0 001 417 ... KB-Starter 24 Volt
		1 Kit	0 3814 1	0 001 416 ...
	Kit	1 Relais	0 331 101 006	0 001 417 ...
	w. relais+clutch	1 Relais	0 331 450 001	
		1 Clutch	2 006 401 527	
	Bosch		1 006 200 050	0 001 218 001-029
	Repair Kit for Gear		9 001 140 362,391	0 001 219 002,003
			9 001 337 069	9 000 331 401-413,417,418,421
			9 003 336 268,285	
			pin-diameter 8.00 mm with 2 bushings	

REPARATUR- UND BUCHSENSÄTZE REPAIR KITS AND BUSHING-KITS

BOSCH

IKA-No.	Original	Qty.	References	Unit-Nos.
4 2238 1 	Bosch		1 007 010 079 1 000 500 591 Repair Kit Seal + Oil Seal	0 001 120 400-411 0 001 121 001,002,006-011,017-019, 022-035 402,403,408-413,418-421, 429,430,433-436 0 001 122 201,202,400-403 0 001 123 001-003,012-021,024-029, 036-039,044,045 0 001 124 001-008,011-015,018-027 0 001 125 001-013,016-019,021,022, 025,031,032,035,036,039, 040,042,043,046-049, 051-060 501-508,511-514,517-522, 600-602,605,607-610,617,618
4 2261 1 	Bosch		Outer Gear Kit 109/125	Gear 1 006 200 096,099,1117,126,166 0 001 109 014,018,019,025,026,028, 030,031,033,036,041,042,048, 200,252,253 0 001 110 112 0 001 125 001,002,005-009,012,013, 016-019,021,022,031,032,035, 036,042,043,046-049,051,052, 055,056, 501-504,507,508,511-514,517, 518,602,605,606
4 2263 1 	Bosch		Outer Gear Kit 108	Gear 1 006 200 014,017,048,049,057,059,061, 070,071,098,104,111,132-134, 900,903 0 001 107 014,016,027-029,041 0 001 108 003,018,021,042,054,057,063-065, 074,078-080,083,087-090,101,102, 106-108,110,112-114,120-124,128, 132,134,139-141,143,148-150,155, 156,160,170,177,995 0 001 111 002 0 001 115 035
4 2273 1 	Bosch		Gear Kit 108	Gear 1 006 200 014,017,048,049,059,061, 071,098,104,111,134, 900,903 0 001 108 003,018,021,042,054,057,063-065, 074,078-080,083,087-090,101,102, 106-108,110,112-114,120-124,128, 132,134,139-141,143,148-150,155, 156,160,170,177,995 0 001 111 002 0 001 115 035
4 4601 1	Bosch	1 1 1	2 000 301 036 DE 1 000 301 056 CE 1 000 301 054 PG	0 001 106 018,020 0 001 107 003-006,009,014-016,021-023,025,026,033,040,044,046 047,058,061,062,067,076,083,089,094,095,103-107 0 001 108 003,004,018-021,024,025,030,033,035,037-040,042-044, 047,050,053,056,057,059,060,063,064,071,075-079, 081-084,087,088,091-093,096-098,100,106,107,109-111, 117-119,121,146,149,151,152,154,158,166,171,173,180, 182,184,186,189,196,203 0 001 109 001-003,006-008,017,018,028,029,047,049 0 001 110 003-005,007,008,011-013,016-019,024-027,031-033, 047-049,060-063,068-072,079,080,082,084-087,089,091, 092,095,102,111,114,118,119,124,125,999 0 001 111 003,005 0 001 115 001,002,007,012,015,027

IKA-No.	Original	Qty.	References	Unit-Nos.
4 4602 1	Bosch	1	1 000 301 012 DE	0 001 107 012,017,018,024,034,037,045,048,054,055,060,068,069, 072-074,090,096
		1	1 000 301 056 CE	0 001 108 001,002,009,010,026-029,048,054,061,062,065,072,073, 080,089,090,101,102,108,126,131,136,137,144,159, 208,209,211,212,225
		1	1 000 301 054 PG	0 001 109 009,012,057,058,202,203 0 001 110 009,010,022,023,028,041,042,045,046,055,090,115,120 0 001 111 004 0 001 115 042
4 4603 1	Bosch	1	1 000 301 021 DE	0 001 107 007,008,020,052,053,
		1	1 000 301 056 CE	0 001 108 005,013,032,045,046,066,070,094,095,105,127,135
		1	1 000 301 054 PG	0 001 110 001,002,014,015,057,058,076,077,098,099,133,134
4 4604 1	Bosch	1	9 001 140 384 DE	0 001 107 056,100,101,108
		1	1 000 301 056 CE	0 001 108 115,145,157,168,169,190
		1	1 000 301 054 PG	0 001 109 014,015,023,025,030,031,033-036,040,041,042,045,046, 048,052,055,061-063,068-070,200,201,250,252,253,256, 262-274,284,285,300-303,306,307,313,321,322,332-337, 342-345,355-360,365,366,369-371,375-378,393-396,399, 400-406,409,410 0 001 110 043,044,051,053,054,064,065,088,104,105,110,112,113, 130-132 0 001 111 002 0 001 115 047,048,074,075,080,081 0 001 139 001,002,005,006,011-022,025,026,029,030,037,038, 041-046,049,050,053,054 0 001 149 400,401
4 4606 1	Bosch	1	1 000 917 003 DE	0 001 107 030,059,064,075,078-080,082,088,102
		1	1 000 301 056 CE	0 001 108 068,069,103,104,123,134,148,150,153,160,167,170,172 181,197,199,202,204,205,213,214,217,218,222-224 995-999
		1	1 000 301 054 PG	0 001 115 006,008,020,021,025,039-041,045,046,049-054,056, 057,068-073,076-079,082-085,096-105 0 001 148 003,004
4 4611 1	Bosch	1	2 000 301 036 DE	0 001 106 018,020
		1	1 000 301 056 CE	0 001 107 003-006,009,014-016,021-023,025,026,033,040,044,046 047,058,061,062,067,076,083,089,094,095,103-107,
		1	1 000 301 054 PG	0 001 108 003,004,018-021,024,025,030,033,035,037-040,042-044, 047,050,053,056,057,059,060,063,064,071,075-079, 081-084,087,088,091-093,096-098,100,106,107,109-111, 047-049,056,060-063,068,069,072,082,084-087,089,999 117-119,121,146,149,151,152,154,158,166,171,173,180, 182,184,186,189,196,203
		1	1 000 301 055 Shaft	0 001 109 001-003,006-008,017,028,029,047,049 0 001 110 003-005,007,008,011-013,016-019,024-027,031-033, 047-049,060-063,068-072,079,080,082,084-087,089,091, 092,095,102,111,114,118,119,124,125,999 0 001 111 003,005 0 001 115 001,002,007,012,015,027 same application as 4 4601 1 with additional shaft-bushing
4 4612 1	Bosch	1	1 000 301 012 DE	0 001 107 012,017,018,024,034,037,045,048,054,055,060,068,069, 072-074,090,096
		1	1 000 301 056 CE	0 001 108 001,002,009,010,026-029,048,054,061,062,065,072,073, 080,089,090,101,102,108,126,131,136,137,144,159, 208,209,211,212,225
		1	1 000 301 054 PG	0 001 109 012,057,058,202,203
		1	1 000 301 055 Shaft	0 001 110 009,010,022,023,028,041,042,045,046,055,090,115,120 0 001 111 004 0 001 115 042 same application as 4 4602 1 with additional shaft-bushing

REPARATUR- UND BUCHSENSÄTZE
REPAIR KITS AND BUSHING-KITS

BOSCH

IKA-No.	Original	Qty.	References	Unit-Nos.
4 4613 1	Bosch	1	1 000 301 021 DE	0 001 107 007,008,020,052,053
		1	1 000 301 056 CE	0 001 108 005,013,032,045,046,066,070,094,095,105,127,135
		1	1 000 301 054 PG	0 001 110 001,002,014,015,057,058,076,077,098,099,133,134
		1	1 000 301 055 Shaft	same application as 4 4603 1 with additional shaft-bushing
4 4616 1	Bosch	1	9 001 140 384 DE	0 001 218 001-031,100-115,118-131,133-147,150-168,170-178
		1	9 001 140 347 CE	0 001 219 001,004,007-017,112
		1	4 4052 0 PG	6 033 AB1 J00
		1	4 4057 0 Shaft	9 000 331 201,203 9 000 331 401,402,405-409,411-415,417-428,430,433 same application as 4 4618 1 CE bushing = cylindric bushing
4 4618 1	Bosch	1	9 001 140 384 DE	0 001 218 001-031,100-115,118-131,133-147,150-168,170-178
		1	1 000 322 005 CE	0 001 219 001,004,007-017,112
		1	4 4052 0 PG	6 033 AB1 J00
		1	4 4057 0 Shaft	9 000 331 201,203 9 000 331 401,402,405-409,411-415,417-428,430-433 same application as 4 4616 1 CE Bushing = collar bushing
4 4620 1	Bosch	1	1 000 390 003/004 DE	0 001 121 001-003,006-011,016-019,024-031,034,035
		1	1 000 301 056 CE	0 001 123 001
		1	1 000 301 054 PG	0 001 124 001-008,011-015,022,023 0 001 125 001-013,021,022,025,031,032,035,036,039, 040,042,043,051,052, 501-504,507,508,511-514,517,518 602
4 4622 1	Bosch	1	1 000 917 005 DE	0 001 107 070,071
		1	1 000 301 056 CE	0 001 108 113,114,174,175,200,201,220,221
		1	1 000 301 054 PG	0 001 109 011,021,022,026,043,056,059,060,064-067, 204,205,258-261,275,276,280,281, 304,305,310,311,319,320,324,325,328-331, 340,341,361-364,379,380,387-392,397,398, 407,408 0 001 110 029,030,056,066,067,100,101,106,107,122, 123,126-129,136,139 0 001 115 022,023,088,089,092,093 0 001 139 023,024,031,032
4 4623 1	Bosch	1	1 000 917 004 DE	0 001 106 403,404,409,410
		1	1 000 301 091 CE	0 001 107 407,410,417,418,421,422,456,499-502
		1	1 000 301 054 PG	0 001 108 400,405,406,408
4 4624 1	Bosch	1	1 000 917 007 DE	0 001 121 022,023
		1	1 000 301 056 CE	0 001 124 020,021
		1	1 000 301 054 PG	0 001 125 016-019,046-049,053,054, 600,601,605-608
4 4625 1	Bosch	1	1 000 301 012 DE	0 001 114 003,004,015,016
		1	1 000 301 022 IM	
		1	1 000 301 062 CE	
4 4626 1	Bosch	1	1 000 301 021 DE	0 001 114 005,006
		1	1 000 301 022 IM	
		1	1 000 301 062 CE	
4 4627 1	Bosch	1	2 000 301 036 DE	0 001 112 010,011
		1	1 000 301 022 IM	0 001 114 008-010,014,017,020-022
		1	1 000 301 062 CE	
4 4632 1	Bosch	1	1 000 301 021 DE	0 001 112 003,004,038,039
		1	1 000 301 062 CE	0 001 113 011,012

REPARATUR- UND BUCHSENSÄTZE
REPAIR KITS AND BUSHING-KITS

BOSCH

IKA-No.	Original	Qty.	References	Unit-Nos.
4 4635 1	Bosch	1 1	1 000 917 004 DE 1 000 301 056 CE	0 001 112 017,018,029,033,037,041 0 001 113 009,010,015,017 F 000 AL0 327
4 4636 1	Bosch	1 1 1	1 000 917 009,010,012 DE 1 000 301 056 CE 1 000 301 054 PG	0 001 121 032,033 0 001 122 201,202 0 001 123 002-005,012-021,024-029,036-039,044,045 0 001 124 026,027 0 001 125 055-060,519-522,609,610,613,614, 125 617-620 0 001 142 001-006 0 001 145 001,002 0 001 153 007-010,013,014
4 4637 1	Bosch	1 1 1	1 000 917 010 DE 1 000 301 091 CE 1 000 301 054 PG	0 001 120 400-411 0 001 121 410,411,422,423,427,428, 0 001 121 439,440,443,444
4 4640 1	Bosch	1 1 1	2 000 301 019 DE 2 000 301 026 IM 2 000 301 019 CE	0 001 362 005-007,011-017,021-025, 033,037 0 001 363 101 JF 12/24 V
4 4641 1	Bosch	1 1 1	2 000 301 019 DE 2 000 301 041 IM 2 000 301 043 CE	0 001 362 034-036,039-043,045,046,048-050, 053,057-062,067,071-076,079,081, 084-086,088-092,094,095,098,100, 102,103,105,305,307,308,311,313, 314,320,322,323,325,326,329,330, 602,603,606,607,700-705 0 001 363 103-105,107-117,122,124-126,128, 130 0 001 366 001-006,009-015,017-022,024,025, 027-029 0 001 367 040,043 0 001 369 014,020 JF 12/24 V
4 4642 1	Bosch	Kit 1 1	1 007 010 144 1 000 917 010 1 000 301 056	0 0152 400,401,410,411 0 001 153 001,002,005,006,015,016 510,511 SF74-E+ 12V(L) SFL74-E+ 12V(L) SFL74-L 12V(L)
4 4643 1	Bosch	Kit 1 1	1 007 010 155 9 001 140 384 1 000 301 056	0 001 139 001,002,005,006,011-022, 025,026,029,030,037,038, 041,042,045,046,049,050, 053,054,067,068,071,072, 408,409 0 001 149 418-421 S78-M 12V(R) SL78-M 12V(R)
4 4644 1	Bosch	Kit 1 1	6 033 AD5 158 w./o. seal ring 6 033 AC5 310 9 003 330 317	0 001 241 001,003,005-009,012, 014-016,019-021,023, 024,119 0 001 261 001-008,012,013,016, 023,025-028,044-047 F 002 G20 786 HEF95-L 24V(R) HXF95-L 24V(R)
4 4679 1	Bosch	1 1	2 000 301 015 DE 2 000 301 016 CE	0 001 410..../411... 0 001 414.... - 417.... KB 24V

REPARATUR- UND BUCHSENSÄTZE
REPAIR KITS AND BUSHING-KITS

BOSCH

IKA-No.	Original	Qty.	References	Unit-Nos.
4 4680 1	Bosch	1 1	2 000 301 036 DE 1 000 301 011 CE	0 001 208 200-202,206-208,209,211,216,217,224-229,232, 233,400,405,422,423,501,507,510,515-518,526,528, 705,707,717 0 001 211 207,215,229,241,242,246,512,514,535,536 EF 12 V
4 4682 1	Bosch	1 1	2 000 301 023 DE 1 000 301 011 CE	0 001 157 024,025,028 0 001 208 709-711,713,714 0 001 211 500-505,510 0 001 212 205 EB/EF 12 V
4 4683 1	Bosch	1 1 1	2 000 301 000 DE 2 000 301 041 IM 1 900 301 420 CE	0 001 359.... 0 001 360.... JD 12 V / 24 V
4 4684 1	Bosch	1 1 1	2 000 301 000 DE 2 000 301 041 IM 2 000 301 043 CE	0 001 362 051,052,063,064,082,093, 097,104,300-304,306,309, 310,315-319,324,327,328,332 0 001 363 118,121,127 0 001 364 300,301,400,402 0 001 366 008,016,026 0 001 367 001,002,004-018,020-035, 037,039,041,042,044,045, 047-050,052,055,056,058, 059,062,064-082,300-303 0 001 368 001-029,032-035,037-040, 042-052,054-083,085-087, 300-302,304-307,309-313, 315-321 0 001 369 001,002,005,006,013,015-018, 021-023,200,201 JD 24 V JF 12/24 V
4 4686 1	Bosch	1 1 1	1 000 301 021 DE 1 000 301 022 IM 1 000 301 021 CE	0 001 314 012,013 0 001 317 009,010,014,015,018-021 GF 12 V
4 4687 1	Bosch	1 1 1	1 000 301 011 DE 1 000 301 022 IM 1 000 301 001 CE	0 001 311 150 0 001 314 001-006,008-011,017,018,024-033, 035-038,040-043 0 001 315 002,004 0 001 316 003-009 0 001 317 005-008,011-013,016,017,022,023 025
4 4688 1	Bosch	1 1 1	1 000 301 011 DE 2 000 301 026 IM 2 000 301 043 CE	0 001 362 038,047,069,070,077,078,083 600,601,604,605 0 001 363 106,119,120,123 0 001 369 004 JF 12/24 V
4 4689 1	Bosch 2 007 010 121	1 1 1 2	2 000 301 000 DE 2 000 301 041 IM 2 000 301 043 CE 2 000 301 044 SD	same application as 4 4684 1 with 2 additional bushes for starter drive







IKA-No.	Original	Qty.	References	Unit-Nos.
4 4579 1	FBN-14	1	Denso 028403-0082 028403-51011	Daihatsu 28111-87501 28131-87701
	FBN-33	1	949103-3160	Isuzu 9-82114101-0 Mazda 0290-24-841A Mitsubishi MD604062 Subaru 39222-3902 49242-7002 Suzuki 31152-63210 31172-78310 Toyota 28111-51011 90099-10134


IKA-No.	Original	Qty.	References	Unit-Nos.
4 4574 1	FBH-31	1	2114-4661 2114-5661	Nissan 23319-N3300 23338-N3300
	FBH-32	1	2114-5352	
4 4584 1	FBH-32	1	2114-5352	Hitachi S114-850 Opel Astra D Corsa D
	no	1	2114-44101	
	no	1	2114-1353	

IKA-No.	Original	Qty.	References	Unit-Nos.
4 4698 1	Lucas	1	54 257 833	M 45 / M 50 / M 127
	60600027 TCB 118	1	54 256 098	
		1	54 255 966	
		1	54 256 151	

IKA-No.	Original	Qty.	References	Unit-Nos.
4 4670 1	Marelli / Fiat	1 1	748 811 10/748 878 90 4 114 442 / 748 603 80	632 207 00,01,02,05,06,21,23,24,31,43 632 208 03,04,06 632 209 00,01,31 E84
4 4671 1	Marelli / Fiat	1 1 1	9 927 787 / 723 625 10 9 927 789 / 723 629 10 9 927 796 / 723 650 10	632 167 01-04,06,08,10,25-27,31,33,40,41,47,48,63 MT67 24V

IKA-No.	Original	Qty.	References	Unit-Nos.	
4 4570 1	FBM-39	1	Melco M409C12970	Nissan	23319-M8011
	FBM-45	1	M409C32401 M409X32571	Mitsubishi	23338-01N10 MD607892 MD618334
4 4581 1	FBM-39	1	Melco M409C12970	Mazda	E356-18-X01
	FBM-38	1	M409C32370	Mitsubishi	E356-18-X81 MD607892 MD607898 MD607903
				Nissan	23319-M8011 23338-M8011

IKA-No.	Original	Qty.	References	Unit-Nos.
	Valeo	2	PS 142	D7R..
		2	PS 144	
	Kit	1	Lever D7R	
	D7R universal	4	Springs D7R	
		4	Spring Caps D7R	
		3	Bushings	
		3	Needle Bearings	
	Valeo	1	PS 148	D6RA... w/o. D6RA8,-10
		1	PS 149	
	Kit	1	Spring PF 4849 (R16)	
	D6RA(4)	1	Brushholder D6RA	
	w. brush holder	4	Bushings	
	and small parts	1	Sundry Parts D6RA 2 2237 0	
		2	Insulations	
	Valeo	1	PS 146	D6RA8,-10
		1	PS 147	
	Kit	1	Spring PF 4647 (R17)	
	D6RA8/10(4)	1	Brushholder D6RA 8/10	
	w. brush holder	4	Bushings	
	and small parts	1	Sundry Parts D6RA 2 2237 0	
		2	Insulations	
	Valeo	1	PS 146	D6RA 8/10 BH
		1	PS 147	
	Kit	1	Brushholder D6RA 8/10	
	D6RA8/10(3)	1	Spring PF 4647	
	w. brush holder	3	Bushings	
		2	Insulations	
		Valeo	1	
		1	1 x PS 149	
Kit		1	1 x Spring PF 4849 (R16)	
D6RA(3)		3	3 x Bushings	
		2	2 x Insulations	
	Valeo	1	PS 146	D6RA 8/10
		1	PS 147	
	Kit	1	Spring PF 4647	
	D6RA8/10(3)	3	Bushings	
		2	Insulations	

IKA-No.	Original	Qty.	References	Unit-Nos.
	Valeo	1	PS 148	D6RA...
		1	PS 149	w./o. D6RA8,-10
	Kit	1	Spring PF 4849	
	D6RA(3)	1	Brushholder D6RA	
	w. brush holder	3	Bushings	
		2	Insulations	
4 4645 1	Valeo	1	105 464	D9R
		1	105 465	
		1	105 715	
4 4647 1	Valeo	1	20/24x5.0 IM	D7R8/9/12
		1	7/10x6.1 DS	
		2	185 951 CE/DE	
4 4648 1	Valeo	1	20/24x5.0 IM	D7R5
		1	7/10x6.1 DS	
		1	185 936 DE	
		1	185 951 CE	
4 4649 1	Valeo	1	185 951 DE	D7R1-4,11,15
		1	97.726 CE	
		1	20/24x5.0 IM	
		1	7/10x6.1 DS	
4 4650 1	Valeo	1	12/15x10 DE	D6RA 4 bushes
		1	18/22x 5 IM	
		1	6/10-13.7x8 CE	
		1	6.1/9.1x 7 DS	
4 4651 1	Valeo	1	12/15x10 DE	DR6RA 3 bushes
		1	18/22x 5 IM	
		1	6/10-13.7x 8 CE	
4 4653 1	Valeo PR	1	30828	D11E163,164,169,172,173,176,177,178,
	182 140	1	50488	187,188,192,272
		1	51914	
		1	96485	
4 4654 1	Valeo PR	1	55330	D13E76,77,86 TE,87 TE,90 TE,93 TE,94 TE,
	182 158	1	71381	96 TE,107 TE,109 TE,110 TE,117 TE,118 TE
		1	74330	
4 4656 1	Valeo PR	1	30828	D11E184,189,191,195,197,198
	182 142	1	51914	
		1	95654	
4 4657 1	Valeo PR	1	30828	D11E142,143,153,T,154,155,156,158,159,160,
	182 139	1	47852	165,167 T,170,180,202
		1	95654	
		1	96485	
4 4658 1	Valeo PR	1	30828	D11E58,69,75,78,84,92,T,108,118,119,T,120,
	182 136	1	47852	131,137,139,T,141,144,146,148,161,193
		1	48499	
		1	50488	

IKA-No.	Original	Qty.	References	Unit-Nos.
4 4659 1	Valeo PR 182 096	1 1 1	51914 97726 104164	D10E85,87,88,89,90,92,921
4 4662 1	Valeo PR 182 061	2	51914	D8E55,T,56,60,74,81-83,85-88,95-99,104-107,110-117,119-124, 129-134,136,137,139-142,144,147,148,151,152,154 D9E7,9,11,12,14,15,18,19,20,26,27,28,34,35,37,41 D10E59,69,75,81,83
4 4663 1	Valeo 182 050	1 1	105464 105715	D9R
4 4674 1	Valeo Duc. 583348 Paris Rhone 182063	2	601 476 097 726	6035 F,6045 A,B,6081 E,F 532000 A,B,532001 A,B,532005 A,532007 A, 532011 A,532012 A,B,532017 A,532020 A,B, 532021 A,532023 A,532024 A,B,532025 A,B, 532026 A,532027 A,533000 A,533001 A, 533002 A,533003 A,533004 A,534002 A, 534 003 A,B,C - 534057 A D9E31,32,36,38-40,43-46,48-57,61-100,771,772

9

VERSCHIEDENE STARTERTEILE

VARIOUS STARTER PARTS

DIVERSES PIECES DE DEMARREURS



















VERSCHIEDENE STARTERTEILE
VARIOUS STARTER PARTS







BOSCH

IKA-No.	Original	References	Unit-Nos.
4 0736 0	Bosch	Brush Spring Brush-Sets: BSX 166,BSX 175-176 Brush-Holders: 7 7125 1,7 7126 1,7 7131 1	0 001 106 .../107.../121... 0 001 112.../113.../114.../133...
4 0737 0	Bosch	Brush Spring Brush-Sets: BSX 157-158 Brush-Holders: 7 7127 1,7 7129 1,7 7132 1	0 001 109.../110.../123-125...
4 0738 0	Bosch	Brush Spring Brush-Sets: BSX 159-160 Brush-Holders: 7 7124 1,7 7128 1	0 001 108.../111...
4 0739 0	Bosch	2 004 616 007 Brush Spring Brush-Sets: BSX 134-144,BSX 135-145 Brush-Holders: 7 7119 1,7 7120 1	0 001 367.../368.../ 9 000 143... JF 12V 3.0kW - JF 24V 4.0kW
4 0740 0	Bosch	1 004 611 007 Brush Spring Brush-Sets: BSX 146,149,154,156 Brush-Holder: 7 7122 1	0 001 208.../211... 9 000 333 ...
4 0747 0	Bosch	1 004 615 001 Brush Spring Brush-Sets: BSX 151 Brush-Holders: 7 7130 1,7 7133 1	0 001 218... / 9 000 331... EV 12V 2.2kW
4 0748 0	Bosch	2 004 618 004 Brush Spring Brush-Sets: BSX 137-143,138-142,139 Brush-Holders: Brush-Holders: 7 7115 1,7 7116 1	0 001 362.../363.../366... 9 000 143... JF 12V 1.9/2.0/2.2-2.7kW JF 24V 2.6/3.2kW
4 0749 0	Bosch	1 004 611 006 Brush Spring Brush-Sets: BSX 140, BSX 152 Brush-Holders: 7 7121 1	0 001 312 108,109 0 001 317 007-025 GB/GF 12V 1.7kW
4 0750 0	Bosch	6 033 AC0 318 Brush Spring Brush-Sets: BSX 190-191 BSX 194-195 BSX 216-217 BSX 222-223 BSX 224-225 Brush-Holders: 7 7199 1 7 7210 1 7 7241 1 7 7242 1 7 7243 1 7 7244 1	0 001 230 002-007,009,030 0 001 231 004-007,009,012,013,016,023, 026-030,033-036,038-041,045, 046,119,146 0 001 241 001,008,009,016,019-021,023, 024,119 0 001 260 001 0 001 261 007,008,012 0 001 263 002,010,012,014 EV(R) 12V 3.0 kW EV(R) 24V 4.0kW HE95-M 12/24V (R) HEF95-L 24V (R) 5.5 kW HX95-L 12V (R) 4.0 kW
4 0752 0	Bosch	2 004 616 009 Brush Spring Brush-Sets: BSX 155,163-164,170-171, BSX 198-199 Brush-Holders: 7 7137 1,7 7138 1,7 7400 1	0 001 364.../367.../368.../369.../372... 9 000 143... JD 24V 5.2kW, JE 24V 6.2kW JF 12V 2.5/3.0/3.1kW JF 24V 4.8kW

IKA-No.	Original	References	Unit-Nos.
4 0779 2	Bosch	Screw-Kit JF 4 screws + 4 nuts M5 Brush-Sets: BSX 134-144,135-145, BSX 137-143,138-142, BSX 163-164,170-171, BSX 198-199	0 001 367 .../ 0 001 368 ... 9 000 143 ...
4 0780 2	Bosch	Spring-Kit JF new Screw-Kit JF 4 0779 2 + 4 Springs 4 0752 0 Brush-Sets: BSX 155,163-164,170-171, BSX 198-199	0 001 364 .../ 0 001 367 ... 0 001 368 .../ 0 001 369 ... 0 001 372 .../ 9 000 143 ...
4 0781 2	Bosch	Spring-Kit JF old Screw-Kit JF 4 0779 2 + 4 Springs 4 0739 0 Brush-Sets: BSX 134-144,135-145	0 001 367 .../ 0 001 368 ... 9 000 143 ...
4 1003 0	Bosch	Stop Collar Kit JD/JF	0 001 359.../360.../362.../363.../367... 0 001 368...
4 1004 0	Bosch	Stop Collar-Kit 12mm	PMGR-Starters with 12 mm drive shaft
4 1005 0	Bosch	Stop Collar-Kit 11mm	PMGR-Starters with 11 mm drive shaft
4 3370 0	Bosch	2 000 105 040 Clutch Washer KB	0 001 410 .../ 411 .../ 413 .../ 414 ... 415 .../ 416 .../ 417 .../ 418 ... 9 000 084 ...
			
4 3393 0	Bosch	2 007 011 071 Terminal Kit IE 5.0/6.7 kW	0 001 370 003,004 0 001 371 004-010,012-020
			
4 3394 0	Bosch	Terminal Kit 12 mm KB-Starter	0 001 416 002,038,040, 0 001 416 043,062 0 001 417 001,007,036
			







	IKA-No.	Original	References	Unit-Nos.
	4 3395 0	Bosch	2 007 010 007 Small Parts Kit JD/JF	0 001 354.../359.../360.../362.../363... 0 001 364.../365.../366.../367.../368... 0 001 369...
	4 3396 0	Bosch	Small Parts Kit KB 2 000 105 040 x 1 2 000 109 008 x 2 2 000 210 014 x 1 2 000 212 000 x 1 2 004 650 030 x 1 2 000 500 084 x 2 2 003 315 002 x 1 2 003 450 015 x 4	0 001 410 .../411 .../414 ... 0 001 416 .../417 ...
	4 3397 0	Bosch	2 004 632 026 Terminal Kit 10 mm KB-Starter	0 001 410 088 0 001 411 012,017 0 001 416 004,007,008,027 0 001 417 010,038,041
	4 3490 0	Bosch	Contact set for Relais 0 331 450 001 KB-Starter	0 001 410 ...
	4 3491 0	Bosch	Contact set for Relais 0 331 101 006 KB-Starter	0 001 410 ...
	4 6027 1	Bosch	2 006 401 527 Clutch KB Starter	0 001 410 ...,411 ..., 0 001 413 ...,414 ..., 0 001 415 ...,416 ..., 0 001 417 ...,418 ...

	IKA-No.	Original	References	Unit-Nos.
NEW	4 6099 1	Bosch DAF Scania	6 033 AD5 255 6 033 AD5 139 1604246, 1667205, 1688720, 1739936 1447911	Solenoid-Safety Switch 24V
	4 7148 0	Bosch	2 001 933 175 Lever	0 001 359...,360... 0 001 362...,363... 0 001 364...,365... 0 001 367...,368...,369... 9 000 143...
	4 7149 0	Bosch	1 001 933 106 1 001 933 111 Lever for Gear Starters	0 001 106 ... /107 ... 0 001 108 ... /109 ... 0 001 110 ... /112 ... 0 001 113 ... /114 ...
	7 7050 1	Bosch	Field Coil Connector 10 mm ² x 92/77 mm	
	7 7051 1	Bosch	Field Coil Connector 10 mm ² x 105/90 mm	
	7 7052 1	Bosch	Field Coil Connector 8 mm ² x 105/90 mm	

IKA-No.	Original	References	Unit-Nos.
7 7055 1	Bosch	Field Coil Connector 8 mm ² x 75/60 mm	
			
7 7056 1	Bosch	Field Coil Connector 6 mm ² x 45/30 mm	
			
7 7057 1	Bosch	Field Coil Connector 6 mm ² x 60/45 mm	
			
7 7058 1	Bosch	Field Coil Connector 8 mm ² x 55/40 mm	
			
7 7060 1	Bosch	Field Coil Connector 16 mm ² x 90/75 mm insulated w. grommet	0 0001 218...
			
7 7062 1	Bosch	Field Coil Connector 10 mm ² x 75/60 mm	
			







IKA-No.	Original	References	Unit-Nos.
7 7063 1	Bosch	Field Coil Connector 16 mm ² x 105/90 mm fits Field Coil 2 004 114 065,135	0 001 368 001-006,008-014,016, 017,019,022,024,025, 027-029,032-034, 037-040,042,043, 045-052,054-056,058, 059,061,062,067,069, 070,072,074-076, 078-080,082,083, 085-087, 300-303,305,306,309, 311-313,317,318 9 000 143 604














IKA-No.	Original	References	Unit-Nos.	
	4 3473 0	Denso	28017-19502 Contact Kit fixed with M8 stud, copper 2.5mm	028000-5910,-6000,-6260, -6300,-7550,-7790, -8370,-8620,-9270 1.4 kW Gear Reduction Starters
	4 3474 0	Denso	28017-19512 Contact Kit	028000-5581,-5620,-7240 128000-6330 2.4 kW Gear Reduction Starters
	4 3475 0	Denso	Contact Kit	028000-7370, -7372, -7373, -7790 028000-7791, -8320, -8370, -8371 028000-8451, -8760, -8761, -8762 028000-8980, 128000-0040 1.0/ 1.2/ 1.4/ 2.0 kW
	4 3476 0	Denso	Contact Kit fixed with M8 stud, copper 2.5mm	128000-0620,-7140,-9380 228000-0470 1.2/ 1.4/ 2.0 kW
	4 3477 0	Denso	028099-7230, 028099-9130,-9131 Contact Kit	128000-7390,-7500,-7560, -7713,-7714,-8030, -8400,-9310,-9710 1.2/ 1.4 kW
	4 3478 0	Denso	028099-7210 028099-7212 028099-7231 Contact Kit	128000-7002,-7122,-8210, -8310-8312,-8320-8322 1.2/ 1.4 kW

**VERSCHIEDENE STARTERTEILE
VARIOUS STARTER PARTS**

DENSO

	IKA-No.	Original	References	Unit-Nos.
	4 3479 0	Denso	028099-7240 028099-7242 Contact Kit	128000-9310, -9880, -9890, 228000-0820, -0830, -0900, -1560, -2500, -3220, -3620, -4970, -5490, -5670, -5680, -6170 1.2/ 1.4 kW
	4 3480 0	Denso	053660-0401, -0402 -7100, -7250 -7260, -7710 Plunger	028000-7370, -7791, -9260
	4 3481 0	Denso	021660-0440 053660-0441, -0442, -0443, -0660, -7111, -7170 Plunger	028000-5510, -6290, -6870
	4 3482 0	Denso	053660-7120, -7121 053680-7120 Plunger	128000-6810, -6811, -6812, -7002, -7120, -7122, -7140, -7500, -7560, -7713, -8210, -8321, -8460, -8470, -8480
	4 3483 0	Denso	053660-7240, -7241 Plunger	228000-2120, -2680, -2690, -2700, -2860, -2980, -2990, -3260, -3840, -3850, -3851
	4 3521 0	Denso	28017-19500 Contact Kit	028000-5120, -6030, -6040, -6700, -6710, -7390, -8180, -9710 128000-0700 1.4 kW Gear Reduction

IKA-No.	Original	References	Unit-Nos.
4 3522 0	Denso	28017-19511 Contact Kit	228000-5641,-7550 2.4 kW Gear Reduction Starters
			
4 3523 0	Denso	028099-2790,-2791 028099-3780,-3781 028099-7100,-7120,-7140 Contact Kit	028000-5300,-5301,-5510, -5511,-5530,-6870 028100-54032 2.5 kW Toyota, Isuzu
			
4 3524 0	Denso	028099-3160 Contact Kit	028000-4800,-5000,-5300, -5301,-5510,-5511, -5530,-5531,-6870 2.5 kW Toyota, Isuzu
			
4 3525 0	Denso	028099-2921,-3010 028099-3020,-3390 028099-3399,-6820 028099-7220 Contact Kit	028000-3641,-3642,-4323, -4343,-4450,-4540, -4940 1.0/ 1.2/ 1.4/ 2.0 kW
			
4 3526 0	Denso	028099-6420 028099-6430-6433 028099-6470 028099-6890 Contact Kit	128000-5730,-5731 5.5 kW 24V
			
4 3527 0	Denso	128099-5240 128099-5241 Contact Kit	128000-0570,-0571,-1590,-1591, -1600,-1601,-1610,-1611, -1661 2.5/ 2.7/ 4.5 kW
			

	IKA-No.	Original	References	Unit-Nos.
	4 3528 0	Denso	028099-7202 028099-7800,-7812 Contact Kit	228000-2120,-2690,-2860, -2990 2.0 kW
	4 3529 0	Denso	028099-3000,-3001 028099-3040,-3041 Contact Kit	028000-4323,-4540,-4940, -5900,-5911,-5912, -6001,-6120,-6361,-6362, -7351,-7410,-7560 1.0 kW
	4 3530 0	Denso	028099-7750-7752 028099-8960,-8961 Contact Kit	028000-7370 228000-0640,-0780,-0880,-0910, -1690,-1780,-2300,-2610, -2851,-2880,-3640,-4880 1.0/ 1.2/ 1.4/ 2.0 kW
	4 3531 0	Denso	028099-2680,2820 028099-3030,-3031,-3860 028099-8672,-8701 Contact Kit	028000-3641,-3642,-4343, -4450,-4990,-5060, -5190,-5390,-7370 1.0/ 1.2/ 1.4/ 2.0 kW
	4 3532 0	Denso	128099-3170 Contact Kit	128000-3080,-3081,-3082, -3512,-3513,-3514, 228000-1671,-5641,-7550 2.5/ 4.5 kW
	4 3533 0	Denso	028099-2690,-2691 Contact Kit	028000-4800,-5000,-5300, -5301,-5570,-5571, -5651,-5652,-5660 2.5/ 4.5 kW

IKA-No.

Original

References

Unit-Nos.

4 3534 0

Denso

028099-6600

128000-3380, -3381, -3420

Contact Kit







IKA-No.	Original	References	Unit-Nos.
4 0751 0	Remy	Brush Spring RF 120	all types Delco Europe for Opel
4 7161 0	Remy	DR 1901 Lever	3471141,143,144,150,152 Opel, Vauxhall



VERSCHIEDENE STARTERTEILE
VARIOUS STARTER PARTS

VALEO

	IKA-No.	Original	References	Unit-Nos.
	4 0774 2	Valeo	Spring-Kit D7R Brush Holder 7 7157 1	D7R all units
	4 0775 2	Valeo	Spring-Kit PSX 146-147 Brush Holder 7 7151 1	D6RA 8, 10
	4 0776 2	Valeo	Spring-Kit PSX 148-149 Brush Holder 7 7151 1	D6RA all units w. exception of D6RA8/10 see 4 0775 2
	4 0778 2	Valeo	Spring-Kit PSX 129 Brush Holder 7 7152 1	D9E 4-Brushes version
	4 1000 0	Valeo	Stop Collar Kit 073294	D9R...
	4 1001 0	Valeo	Stop Collar Kit 594084	D6RA...
	4 1002 0	Valeo	Stop Collar Kit 097804	D9E...
	4 3836 1	Valeo	594528, 594530 Armature 7 teeth	D6RA67,76-81,91,100,101,104 105,107-110,115,167,180, 181
	4 3838 1	Valeo	594529, 594531 Armature 8 teeth	D6RA45,50-57,60,63,64,66,70, D6RA72,74,75,83-85,87,137,138, D6RA141,161,168,185,187,188, D6RA210,511,571,572,661,721 D6RAD183
	4 3839 1	Valeo	594526 Armature 13 teeth	D6RA5-8,10-13,15-23,25-30, D6RA32-34,37-44,46-49,59, D6RA61,62,65,68,73,82, D6RA133,162,165,249

**VERSCHIEDENE STARTERTEILE
VARIOUS STARTER PARTS**

VALEO

	IKA-No.	Original	References	Unit-Nos.
	4 3840 0	Valeo	594534,594535 Field Case complete with Magnets	D6RA10,12,13, D6RA100,101,104,105,107-110,115 D6RA SH clockwise rotation
	4 3841 0	Valeo	Support for Magnets	D6RA
	4 3842 0	Valeo	Magnet North	D6RA
	4 3843 0	Valeo	Magnet South	D6RA
	4 3844 0	Valeo	Field Case	D6RA SIH anticlock rotation
	4 7154 0	Valeo	Lever	D7R..
	4 7155 0	Valeo	Lever	D9E...,D9R..

IKA-No.	Original	References	Unit-Nos.
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4 7156 0	Valeo	Lever	D6RA
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7 7070 1	Valeo	Field Coil Grommet	D7E ...
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fits Brush Holders
7 7159 1, 7 7165 1





10

ABMESSUNGEN

SURVEY

CLASSEMENT PAR ALESAGES



SINTERBUCHSEN-PROGRAMM NACH ABMESSUNGEN

SELF LUBRICATING BUSHINGS SURVEY (mm)

Abmessungen Dimensions in mm			IKA-No. bulk	Hersteller Producer	Abmessungen Dimensions in mm			IKA-No. bulk	Hersteller Producer
04.00 / 07.00	x	07.00	4 4507 0	VALEO	12.00 / 14.00	x	16.00	4 4453 0	mitsubishi
05.00 / 09.00	x	07.00	4 4508 0	VALEO	12.00 / 14.00	x	20.00	4 4380 0	PARIS-RHONE
06.00 / 09.00	x	07.00	4 4504 0	VALEO	12.00 / 14.00	x	20.00	4 4380 0	mitsubishi
06.00 / 10.00-13.70	x	08.00	4 4503 0	VALEO	12.00 / 15.00	x	08.00	4 4418 0	LUCAS
06.90 / 09.45-13.00	x	09.25	4 4509 0	DENSO	12.00 / 15.00	x	10.00	4 4501 0	VALEO
07.00 / 10.00	x	06.10	4 4506 0	VALEO	12.00 / 15.00	x	12.00	4 4264 0	ISKRA
07.00 / 11.90	x	10.00	4 4273 0	FORD	12.00 / 15.00	x	12.00	4 4264 0	LUCAS
07.05 / 09.40	x	08.25	4 4510 0	DENSO	12.00 / 15.00	x	15.00	4 4265 0	LADA
08.00 / 11.50-14.50	x	10.00	4 4316 0	FIAT / MARELLI	12.00 / 15.00	x	16.70	4 4400 0	LUCAS
08.00 / 12.00	x	09.60	4 4312 0	FIAT / MARELLI	12.00 / 15.05-18.00	x	16.00	4 4350 0	PARIS-RHONE
08.06 / 11.12	x	08.00	4 4054 0	BOSCH	12.00 / 16.00	x	09.50	4 4465 0	mitsubishi
08.06 / 11.12	x	08.00	4 4054 0	VALEO	12.00 / 16.00	x	12.00	4 4311 0	FIAT / MARELLI
08.06 / 11.12	x	10.00	4 4052 0	BOSCH	12.00 / 16.00	x	14.00	4 4300 0	FEMSA
08.10 / 11.50	x	11.60	4 4452 0	mitsubishi	12.00 / 16.00	x	14.00	4 4300 0	FIAT / MARELLI
08.10 / 12.45	x	10.00	4 4272 0	FORD	12.00 / 16.00	x	16.00	4 4304 0	FEMSA
10.00 / 13.00	x	12.00	4 4257 0	DUCELLIER	12.00 / 16.00	x	16.00	4 4304 0	FIAT / MARELLI
10.00 / 13.00	x	13.00	4 4371 0	PARIS-RHONE	12.00 / 16.00	x	16.00	4 4304 0	LADA
10.00 / 13.00	x	16.00	4 4372 0	PARIS-RHONE	12.00 / 16.00	x	16.00	4 4304 0	ISKRA
10.00 / 13.00-16.00	x	10.50	4 4484 0	mitsubishi	12.00 / 16.00	x	24.00	4 4305 0	FEMSA
10.00 / 14.00	x	09.50	4 4470 0	mitsubishi	12.00 / 16.00	x	24.00	4 4305 0	LADA
10.00 / 14.00	x	13.50	4 4464 0	mitsubishi	12.00 / 16.00	x	24.50	4 4305 0	FIAT / MARELLI
10.00 / 14.00	x	13.50	4 4302 0	FIAT / MARELLI	12.05 / 14.05	x	14.00	4 4204 0	DELCO
10.00 / 14.00	x	13.50	4 4302 0	ISKRA	12.05 / 15.05	x	12.00	4 4264 0	DUCELLIER
10.00 / 14.00	x	13.50	4 4302 0	PAL MAGNETON	12.05 / 15.05	x	12.00	4 4264 0	PARIS-RHONE
10.00 / 14.00	x	15.00	4 4301 0	FIAT / MARELLI	12.05 / 15.05	x	12.00	4 4264 0	ROMANIAN
10.00 / 14.00	x	15.00	4 4248 0	PAL MAGNETON	12.05 / 15.05	x	15.00	4 4063 0	BOSCH
10.00 / 14.00-16.00	x	13.00	4 4280 0	FEMSA	12.05 / 15.05	x	15.00	4 4265 0	DUCELLIER
10.00 / 16.10	x	10.00	4 4093 0	BOSCH	12.05 / 15.05	x	15.00	4 4265 0	PARIS-RHONE
10.06 / 14.10	x	10.00	4 4056 0	BOSCH	12.05 / 15.05	x	15.00	4 4265 0	ROMANIAN
10.06 / 14.10	x	10.00	4 4056 0	VALEO	12.05 / 15.55	x	05.50	4 4485 0	HITACHI
10.06 / 16.60	x	10.50	4 4061 0	BOSCH	12.06 / 16.12	x	14.00	4 4012 0	BOSCH
10.06 / 16.60	x	11.50	4 4077 0	BOSCH	12.06 / 16.12	x	16.00	4 4011 0	BOSCH
10.06 / 16.60	x	11.50	4 4077 0	FIAT / MARELLI	12.10 / 13.62	x	11.50	4 4009 0	BOSCH
10.06 / 16.60-19.00	x	14.80	4 4005 0	BOSCH	12.10 / 13.62	x	13.50	4 4053 0	BOSCH
10.07 / 14.10	x	13.00	4 4113 0	BOSCH	12.10 / 13.62	x	18.80	4 4066 0	BOSCH
11.00 / 15.00	x	15.00	4 4459 0	HITACHI	12.10 / 14.12	x	12.00	4 4123 0	BOSCH
11.00 / 13.00	x	13.00	4 4456 0	mitsubishi	12.10 / 14.12	x	13.00	4 4123 0	BOSCH
11.00 / 13.50	x	09.00	4 4072 0	BOSCH	12.10 / 14.12	x	14.00	4 4136 0	BOSCH
11.00 / 14.00	x	13.00	4 4458 0	mitsubishi	12.16 / 14.10	x	18.00	4 4314 0	FIAT / MARELLI
11.06 / 13.63	x	14.00	4 4021 0	BOSCH	12.50 / 14.70	x	14.00	4 4457 0	DENSO
11.10 / 12.62	x	10.50	4 4122 0	BOSCH	12.50 / 15.50	x	10.50	4 4462 0	DENSO
11.10 / 12.62	x	11.50	4 4032 0	BOSCH	12.50 / 16.00	x	12.00	4 4454 0	HITACHI
11.50 / 15.00	x	13.00/14.00	4 4466 0	HITACHI	12.50 / 16.00	x	12.00	4 4454 0	PAL MAGNETON
11.60 / 14.08	x	13.00	4 4426 0	ISKRA	12.50 / 16.00	x	15.00	4 4455 0	HITACHI
					12.50 / 16.50	x	10.50	4 4461 0	DENSO
					12.56 / 16.60	x	08.00	4 4071 0	BOSCH
					12.56 / 16.60	x	10.00	4 4062 0	BOSCH
					12.56 / 16.60	x	11.50	4 4004 0	BOSCH
					12.56 / 16.60	x	14.00	4 4002 0	BOSCH
					12.56 / 16.60	x	14.00	4 4247 0	PAL MAGNETON
					12.56 / 16.60	x	15.80	4 4000 0	BOSCH
					12.56 / 16.60	x	18.00	4 4103 0	BOSCH
					12.57 / 18.54	x	19.80	4 4306 0	FIAT / MARELLI

SINTERBUCHSEN-PROGRAMM NACH ABMESSUNGEN

SELF LUBRICATING BUSHINGS SURVEY (mm)

Abmessungen Dimensions in mm			IKA-No. bulk	Hersteller Producer	Abmessungen Dimensions in mm			IKA-No. bulk	Hersteller Producer
12.70 / 14.35	x	17.40	4 4417 0	LUCAS	18.00 / 22.00	x	05.00	4 4502 0	VALEO
12.70 / 15.90	x	16.50	4 4412 0	LUCAS	18.03 / 22.12	x	06.50	4 4057 0	BOSCH
12.80 / 15.90	x	14.00	4 4414 0	LUCAS	18.03 / 22.12	x	08.00	4 4055 0	BOSCH
12.80 / 19.10	x	14.00	4 4411 0	LUCAS	18.10 / 22.04	x	06.80	4 4443 0	HITACHI
13.00 / 15.00	x	12.00	4 4263 0	DUCELLIER	18.10 / 23.00	x	08.00	4 4313 0	FIAT / MARELLI
13.00 / 15.00	x	14.50	4 4253 0	DUCELLIER	18.17 / 23.05	x	09.20	4 4318 0	FIAT / MARELLI
14.00 / 18.00	x	15.00	4 4351 0	FEMSA	19.00 / 20.60	x	17.80	4 4403 0	LUCAS
14.00 / 18.00	x	16.00	4 4351 0	DUCELLIER	19.06 / 22.53	x	13.90	4 4241 0	PAL MAGNETON
14.00 / 18.00	x	16.00	4 4351 0	ROMANIAN	19.09 / 23.10	x	10.00	4 4126 0	BOSCH
14.00 / 18.00	x	16.00	4 4351 0	PARIS-RHONE	19.09 / 23.10	x	13.00	4 4141 0	BOSCH
14.00 / 18.00	x	18.00	4 4353 0	DUCELLIER	19.09 / 25.10	x	10.00	4 4102 0	BOSCH
14.00 / 18.00	x	18.00	4 4472 0	HITACHI	19.20 / 31.80	x	10.20	4 4205 0	DELCO
14.00 / 18.00	x	18.00	4 4353 0	PARIS-RHONE	20.00 / 24.00	x	05.00	4 4505 0	VALEO
14.00 / 18.00	x	20.00	4 4354 0	DUCELLIER	20.00 / 24.00	x	12.00	4 4352 0	PARIS-RHONE
14.00 / 18.00	x	20.00	4 4354 0	FIAT / MARELLI	20.00 / 24.00	x	16.00	4 4363 0	PARIS-RHONE
14.00 / 18.00	x	20.00	4 4471 0	HITACHI	20.27 / 24.00	x	13.09	4 4308 0	FIAT / MARELLI
14.00 / 18.00	x	20.00	4 4354 0	PARIS-RHONE	20.40 / 26.50	x	12.50	4 4463 0	HITACHI
14.00 / 20.00	x	10.00	4 4080 0	BOSCH	21.03 / 24.67	x	25.90	4 4245 0	PAL MAGNETON
14.06 / 18.10	x	14.00	4 4142 0	BOSCH	21.30 / 24.40	x	25.00	4 4202 0	DELCO
14.06 / 20.03	x	17.00	4 4137 0	BOSCH	22.04 / 26.03	x	27.40	4 4242 0	PAL MAGNETON
14.10 / 20.00	x	11.80	4 4307 0	FIAT / MARELLI	22.05 / 26.05	x	05.20	4 4444 0	HITACHI
14.30 / 16.00	x	39.80	4 4001 0	BOSCH	22.14 / 28.10	x	11.30	4 4116 0	BOSCH
14.36 / 16.04	x	10.00	4 4023 0	BOSCH	23.04 / 27.03	x	19.80	4 4244 0	PAL MAGNETON
14.36 / 16.04	x	11.70	4 4131 0	BOSCH	25.00 / 32.00	x	17.90	4 4081 0	BOSCH
14.36 / 16.04	x	20.50	4 4144 0	BOSCH	26.12 / 30.13-33.00	x	11.50	4 4013 0	BOSCH
14.36 / 16.04	x	23.50	4 4106 0	BOSCH	27.00 / 35.00	x	14.00	4 4364 0	PARIS-RHONE
14.40 / 17.50	x	22.20	4 4415 0	LUCAS	28.50 / 32.30	x	11.00	4 4082 0	BOSCH
14.54 / 18.03	x	14.80	4 4240 0	PAL MAGNETON	28.50 / 32.30	x	11.00	4 4083 0	BOSCH
14.54 / 18.03	x	16.80	4 4243 0	PAL MAGNETON	28.60 / 31.80-38.10	x	13.00	4 4410 0	LUCAS
15.07 / 18.10	x	11.80	4 4315 0	FIAT / MARELLI	34.50 / 44.00	x	42.50	4 4199 0	BOSCH
15.95 / 19.15	x	14.00	4 4259 0	DUCELLIER	40.00 / 48.00	x	10.50	4 4115 0	BOSCH
15.95 / 19.15	x	14.00	4 4259 0	PARIS-RHONE					
16.00 / 19.20	x	22.00	4 4201 0	DELCO					
16.00 / 20.00	x	08.00	4 4368 0	PARIS-RHONE					
16.00 / 20.00	x	10.00	4 4355 0	PARIS-RHONE					
16.00 / 20.00	x	25.00	4 4369 0	PARIS-RHONE					
16.20 / 19.15	x	15.00	4 4260 0	DUCELLIER					
16.67 / 19.60	x	19.00	4 4104 0	BOSCH					
17.00 / 21.00	x	24.00	4 4361 0	PARIS-RHONE					
17.10 / 21.00	x	22.20	4 4409 0	LUCAS					
17.61 / 21.62	x	09.50	4 4022 0	BOSCH					

SPEZIAL NADELLAGER NACH ABMESSUNGEN SPECIAL NEEDLE BEARINGS SURVEY (mm)

Abmessungen mm Dimensions mm	IKA-No. bulk	Hersteller Producer	Abmessungen mm Dimensions mm	IKA-No. bulk	Hersteller Producer	
04.00 / 08.00	x 08.00	8 2269 0	26.10 / 33.00	x 13.70	8 8677 0	VALEO
05.00 / 08.52	x 06.86	8 4209 0	28.00 / 35.20	x 14.62	8 4090 0	BOSCH
05.00 / 09.00	x 09.00	8 2260 0	31.00 / 37.00	x 16.00	8 4094 0	BOSCH
05.00 / 09.00	x 09.00	8 2260 0	33.00 / 48.00	x 15.00	8 8693 0	BOSCH
06.00 / 10.00	x 08.00	8 2256 0				
06.00 / 10.00	x 08.00	8 2256 0				
06.00 / 10.00	x 08.00	8 2256 0				
06.00 / 10.00	x 09.00	8 2258 0				
06.00 / 10.00	x 09.00	8 2258 0				
08.00 / 12.00	x 08.00	8 8674 0				
08.00 / 12.00	x 08.00	8 8673 0				
08.00 / 12.00	x 08.00	8 8673 0				
09.00 / 13.00	x 10.00	8 8675 0				
10.00 / 14.00	x 10.00	8 4096 0				
10.00 / 14.00	x 10.00	8 4096 0				
10.00 / 14.00	x 10.00	8 4096 0				
10.00 / 14.00	x 12.00	8 8668 0				
10.00 / 14.00	x 14.00	8 4097 0				
10.00 / 15.00	x 15.00	8 8314 0				
10.00 / 15.00	x 15.40	8 4210 0				
10.00 / 17.00	x 12.00	8 4091 0				
11.50 / 17.50	x 16.50	8 8684 0				
12.00 / 16.00	x 10.00	8 4079 0				
12.00 / 16.00	x 10.00	8 4079 0				
12.00 / 16.00	x 10.00	8 4079 0				
12.00 / 16.00	x 10.00	8 4079 0				
12.00 / 16.00	x 10.00	8 4079 0				
12.00 / 16.00	x 10.00	8 4079 0				
12.00 / 16.00	x 14.00	8 4095 0				
12.00 / 17.00	x 12.00	8 8305 0				
12.00 / 18.00	x 12.00	8 8981 0				
12.00 / 18.00	x 14.00	8 4098 0				
12.00 / 18.00	x 16.00	8 4099 0				
12.00 / 18.00	x 16.00	8 4099 0				
12.50 / 17.00	x 17.00	8 8315 0				
14.00 / 19.00	x 12.00	8 8161 0				
14.00 / 20.00	x 14.00	8 8982 0				
14.29 / 19.05	x 12.70	8 4208 0				
15.00 / 21.00	x 12.00	8 8829 0				
15.87 / 23.81	x 21.90	8 4092 0				
16.00 / 20.70	x 19.00	8 8664 0				
16.00 / 23.85	x 18.95	8 8663 0				
17.00 / 23.80	x 17.40	8 8200 0				
17.00 / 23.80	x 17.40	8 8200 0				
17.00 / 23.80	x 17.40	8 8200 0				
17.00 / 23.80	x 17.40	8 8277 0				
17.00 / 23.80	x 31.80	8 4207 0				
17.46 / 22.23	x 09.50	8 8681 0				
17.46 / 22.23	x 09.50	8 8681 0				
18.00 / 24.00	x 12.00	8 8118 0				
18.00 / 24.00	x 12.00	8 8118 0				
18.00 / 24.00	x 16.00	8 8983 0				
19.05 / 25.40	x 15.88	8 8275 0				
20.00 / 26.00	x 12.00	8 8986 0				
20.50 / 27.00	x 09.50	8 8160 0				
22.00 / 28.00	x 12.00	8 8671 0				
22.00 / 28.00	x 16.00	8 8665 0				



11

VERGLEICHSLISTE

CROSS REFERENCE LIST

LISTE DE CORRESPONDANCE ENTRE LES REFERENCES

BOSCH	297-310	LUCAS	331-333
CARGO	310-319	LUK	333
DENSO	319-320	MARELLI / FIAT	333-334
EURO REF.	321-322	MELCO	334-336
FCC	323	MONARK	336-337
FORD-VISTEON	323	PAL / MAGNETON	337
FUJI	323-326	REMY	337
GHIBAUDI	326-328	VALEO	337-340
HITACHI	328-329	ZM	340-341
INA	329-330	IKA vs. EURO REF.	342-344
ISKRA	330		
LCL	330-331		



VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
0 122 1AA 8F0	4 0736 0	273	0 331 400 016	4 6112 9	186	0 331 402 039	4 6123 9	187
0 331 101 005	4 3471 0	185	0 331 400 017	4 6112 9	186	0 331 402 039	4 6148 9	189
0 331 101 006	4 6054 1	185	0 331 400 022	4 6112 9	186	0 331 402 042	4 6208 9	193
0 331 302 011	4 6145 9	188	0 331 400 023	4 6107 9	185	0 331 402 051	4 6206 9	193
0 331 302 040	4 6210 9	193	0 331 400 068	4 6140 9	188	0 331 402 053	4 6206 9	193
0 331 302 047	4 6145 9	188	0 331 401 001	4 6107 9	185	0 331 402 054	4 6206 9	193
0 331 302 052	4 6145 9	188	0 331 401 003	4 6107 9	185	0 331 402 068	4 6208 9	193
0 331 302 064	4 6210 9	193	0 331 401 004	4 6107 9	185	0 331 402 070	4 6208 9	193
0 331 302 075	4 6145 9	188	0 331 401 007	4 6112 9	186	0 331 402 073	4 6107 9	185
0 331 302 540	4 6210 9	193	0 331 401 008	4 6106 9	185	0 331 402 074	4 6107 9	185
0 331 303 003	4 6212 9	194	0 331 401 008	4 6186 9	191	0 331 402 076	4 6112 9	186
0 331 303 005	4 6109 9	186	0 331 401 009	4 6106 9	185	0 331 402 077	4 6106 9	185
0 331 303 006	4 6108 9	186	0 331 401 009	4 6147 9	189	0 331 402 087	4 6123 9	187
0 331 303 007	4 6212 9	194	0 331 401 012	4 6107 9	185	0 331 402 087	4 6148 9	189
0 331 303 008	4 6211 9	193	0 331 401 015	4 6140 9	188	0 331 402 089	4 6181 9	191
0 331 303 010	4 6212 9	194	0 331 401 029	4 6107 9	185	0 331 402 094	4 6206 9	193
0 331 303 012	4 6215 9	194	0 331 401 040	4 6148 9	189	0 331 402 205	4 6123 9	187
0 331 303 015	4 6212 9	194	0 331 401 040	4 6123 9	187	0 331 402 205	4 6148 9	189
0 331 303 016	4 6109 9	186	0 331 401 046	4 6107 9	185	0 331 402 206	4 6206 9	193
0 331 303 021	4 6215 9	194	0 331 401 051	4 6107 9	185	0 331 402 207	4 6141 9	188
0 331 303 026	4 6108 9	186	0 331 401 501	4 6107 9	185	0 331 402 209	4 6208 9	193
0 331 303 028	4 6109 9	186	0 331 401 503	4 6107 9	185	0 331 402 501	4 6123 9	187
0 331 303 031	4 6109 9	186	0 331 401 504	4 6107 9	185	0 331 402 501	4 6148 9	189
0 331 303 033	4 6211 9	193	0 331 401 507	4 6112 9	186	0 331 402 502	4 6221 9	195
0 331 303 035	4 6216 9	194	0 331 401 508	4 6186 9	191	0 331 402 502	4 6133 9	188
0 331 303 040	4 6212 9	194	0 331 401 509	4 6147 9	189	0 331 402 503	4 6133 9	188
0 331 303 048	4 6185 9	191	0 331 402 001	4 6123 9	187	0 331 402 503	4 6221 9	195
0 331 303 053	4 6216 9	194	0 331 402 001	4 6148 9	189	0 331 402 504	4 6148 9	189
0 331 303 055	4 6217 9	194	0 331 402 002	4 6221 9	195	0 331 402 504	4 6123 9	187
0 331 303 056	4 6217 9	194	0 331 402 002	4 6133 9	188	0 331 402 508	4 6214 9	194
0 331 303 057	4 6128 9	188	0 331 402 003	4 6133 9	188	0 331 402 515	4 6113 9	186
0 331 303 061	4 6185 9	191	0 331 402 003	4 6221 9	195	0 331 402 519	4 6123 9	187
0 331 303 074	4 6211 9	193	0 331 402 004	4 6132 9	188	0 331 402 519	4 6148 9	189
0 331 303 076	4 6217 9	194	0 331 402 006	4 6208 9	193	0 331 402 530	4 6148 9	189
0 331 303 104	4 6128 9	188	0 331 402 008	4 6214 9	194	0 331 402 535	4 6123 9	187
0 331 303 132	4 6217 9	194	0 331 402 010	4 6207 9	193	0 331 402 539	4 6123 9	187
0 331 303 140	4 6218 9	194	0 331 402 012	4 6141 9	188	0 331 402 539	4 6148 9	189
0 331 303 147	4 6116 9	186	0 331 402 015	4 6113 9	186	0 331 402 568	4 6208 9	193
0 331 303 165	4 6190 9	192	0 331 402 016	4 6132 9	188	0 331 402 570	4 6208 9	193
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0 331 303 506	4 6108 9	186	0 331 402 019	4 6123 9	187	0 331 450 001	4 6035 1	185
0 331 303 640	4 6218 9	194	0 331 402 030	4 6123 9	187	0 331 450 002	4 3470 0	185
0 331 400 001	4 6146 9	189	0 331 402 030	4 6148 9	189	0 399 D53 002	4 5105 1	154
0 331 400 008	4 6140 9	188	0 331 402 035	4 6148 9	189	0 399 D77 003	7 7206 1	81
0 331 400 014	4 6112 9	186	0 331 402 035	4 6123 9	187	0 399 D77 008	7 7234 1	84

VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
0 399 D77 021	7 7523 1	94	1 000 301 082	4 4066 0	230	1 004 336 130	7 7124 1	76
0 399 D77 052	7 7550 1	102	1 000 301 083	4 4056 0	230	1 004 336 132	7 7124 1	76
0 399 D77 054	7 7549 1	101	1 000 301 093	4 4001 0	229	1 004 336 136	7 7814 1	113
0 399 D77 055	7 7550 1	102	1 000 301 106	4 4009 0	229	1 004 336 139	7 7129 1	77
0 399 D77 098	7 7550 1	102	1 000 301 120	4 4009 0	229	1 004 336 146	7 7812 1	112
0 399 D77 102	7 7547 1	100	1 000 322 005	4 4005 0	229	1 004 336 146	7 7124 1	76
0 399 D77 108	7 7552 1	103	1 000 390 001	4 4082 0	230	1 004 336 147	7 7813 1	113
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086 264 492	4 5005 1	146	1 000 390 004	4 4085 0	230	1 004 336 156	7 7127 1	77
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1 000 301 002	4 4002 0	229	1 000 917 004	8 4097 0	248	1 004 336 239	7 7803 1	110
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1 000 301 080	4 4071 0	230	1 004 336 125	7 7124 1	76	1 004 336 368	7 7803 1	110

VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
1 004 336 368	7 7802 1	110	1 004 336 424	7 7802 1	110	1 004 336 461	7 7837 1	116
1 004 336 369	7 7822 1	113	1 004 336 426	7 7813 1	113	1 004 336 462	7 7802 1	110
1 004 336 374	7 7811 1	112	1 004 336 427	7 7806 1	112	1 004 336 463	7 7832 1	114
1 004 336 375	7 7811 1	112	1 004 336 428	7 7806 1	112	1 004 336 464	7 7812 1	112
1 004 336 382	7 7803 1	110	1 004 336 429	7 7839 1	116	1 004 336 465	7 7834 1	114
1 004 336 391	7 7803 1	110	1 004 336 430	7 7836 1	115	1 004 336 466	7 7838 1	116
1 004 336 392	7 7804 1	111	1 004 336 431	7 7836 1	115	1 004 336 467	7 7813 1	113
1 004 336 394	7 7837 1	116	1 004 336 432	7 7131 1	78	1 004 336 468	7 7831 1	114
1 004 336 395	7 7518 1	93	1 004 336 432	7 7805 1	111	1 004 336 468	7 7132 1	78
1 004 336 396	7 7822 1	113	1 004 336 433	7 7805 1	111	1 004 336 469	7 7806 1	112
1 004 336 397	7 7131 1	78	1 004 336 433	7 7131 1	78	1 004 336 470	7 7822 1	113
1 004 336 397	7 7805 1	111	1 004 336 434	7 7281 1	87	1 004 336 472	7 7836 1	115
1 004 336 400	7 7836 1	115	1 004 336 434	7 7801 1	110	1 004 336 502	7 7234 1	84
1 004 336 401	7 7129 1	77	1 004 336 435	7 7806 1	112	1 004 336 503	7 7203 1	80
1 004 336 401	7 7835 1	115	1 004 336 436	7 7812 1	112	1 004 336 504	7 7221 1	82
1 004 336 402	7 7127 1	77	1 004 336 436	7 7124 1	76	1 004 336 505	7 7234 1	84
1 004 336 402	7 7838 1	116	1 004 336 437	7 7832 1	114	1 004 336 506	7 7202 1	80
1 004 336 403	7 7812 1	112	1 004 336 438	7 7836 1	115	1 004 336 507	7 7135 1	79
1 004 336 404	7 7129 1	77	1 004 336 439	7 7812 1	112	1 004 336 508	7 7135 1	79
1 004 336 404	7 7835 1	115	1 004 336 439	7 7124 1	76	1 004 336 509	7 7205 1	81
1 004 336 405	7 7834 1	114	1 004 336 440	7 7838 1	116	1 004 336 510	7 7234 1	84
1 004 336 407	7 7834 1	114	1 004 336 442	7 7813 1	113	1 004 336 511	7 7293 1	89
1 004 336 408	7 7839 1	116	1 004 336 443	7 7124 1	76	1 004 336 512	7 7223 1	82
1 004 336 409	7 7833 1	114	1 004 336 443	7 7812 1	112	1 004 336 513	7 7504 1	91
1 004 336 411	7 7124 1	76	1 004 336 444	7 7804 1	111	1 004 336 514	7 7280 1	87
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VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
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VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
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VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
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VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
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VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
1 004 338 156	7 7573 1	108	1 006 209 516	4 5176 1	158	1 006 209 601	4 5140 1	156
1 004 338 156	7 7552 1	103	1 006 209 522	4 5175 1	158	1 006 209 602	4 5085 1	153
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VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
1 006 209 705	4 5061 1	151	1 006 209 949	4 5101 1	154	1 007 014 126	0 1124 1	4
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VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
1 917 000 359	0 1617 1	39	2 000 301 006	4 4106 0	231	2 004 336 077	7 7136 1	79
1 917 000 360	0 1618 1	40	2 000 301 013	4 4113 0	231	2 004 336 078	7 7136 1	79
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VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
2 004 336 226	7 7804 1	111	2 006 209 529	4 5005 1	146	2 007 014 032	0 1136 1	5
2 004 336 227	7 7811 1	112	2 006 209 530	4 5005 1	146	2 007 014 034	0 1124 1	4
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VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
2 008 336 015	7 7191 1	124	2 339 305 337	4 6127 9	187	6 033 AD0 077	4 5038 1	149
2 137 014 003	0 1100 1	3	2 339 402 117	4 6120 9	187	6 033 AD0 102	4 5150 1	156
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VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	BOSCH	IKA	PAGE	BOSCH	IKA	PAGE
6 033 AD1 495	7 7208 1	81	9 001 066 247	4 5183 1	158	9 003 337 009	4 2250 0	220
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VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	PAGE	CARGO	IKA	PAGE	CARGO	IKA	PAGE
F 000 SH0 107	4 6117 9	186	130520	7 7176 1	132	131489	4 5156 1	157
F 000 SH0 108	4 6191 9	192	130523	7 7180 1	133	131503	4 2201 0	215
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CARGO	IKA	PAGE	131065	4 5005 1	146	132094	4 6114 9	198
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VERGLEICHSLISTE

CROSS REFERENCE LIST

CARGO	IKA	PAGE	CARGO	IKA	PAGE	CARGO	IKA	PAGE
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VERGLEICHSLISTE

CROSS REFERENCE LIST

CARGO	IKA	PAGE	CARGO	IKA	PAGE	CARGO	IKA	PAGE
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VERGLEICHSLISTE

CROSS REFERENCE LIST

CARGO	IKA	PAGE	CARGO	IKA	PAGE	CARGO	IKA	PAGE
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VERGLEICHSLISTE

CROSS REFERENCE LIST

CARGO	IKA	PAGE	CARGO	IKA	PAGE	CARGO	IKA	PAGE
140388	0 1972 1	47	140591	0 1971 1	46	140756	4 4243 0	239
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VERGLEICHSLISTE

CROSS REFERENCE LIST

CARGO	IKA	PAGE	CARGO	IKA	PAGE	CARGO	IKA	PAGE
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VERGLEICHSLISTE

CROSS REFERENCE LIST

CARGO	IKA	PAGE	CARGO	IKA	PAGE	CARGO	IKA	PAGE
230875	4 5163 1	160	233720	4 5042 1	150	235440	4 5051 1	150
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VERGLEICHSLISTE

CROSS REFERENCE LIST

CARGO	IKA	PAGE	CARGO	IKA	PAGE	CARGO	IKA	PAGE
331821	7 7124 1	76	333293	7 7120 1	76	333595	7 7835 1	115
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VERGLEICHSLISTE

CROSS REFERENCE LIST

CARGO	IKA	PAGE	CARGO	IKA	PAGE	CARGO	IKA	PAGE
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333968	7 7822 1	113	BSX1554	0 1164 1	8	IKSX124	0 1669 1	44
333969	7 7804 1	111	BSX157-1584	0 1165 1	8	IKSX13-144	0 1165 1	8
333970	7 7288 1	87	BSX159-1604	0 1166 1	8	JSX134	0 1457 1	25
333971	7 7135 1	79	BSX163-1644	0 1168 1	9	JSX162	0 1459 1	25
333983	7 7834 1	114	BSX1654	0 1169 1	9	JSX194	0 1462 1	25
333994	4 6168 9	190	BSX1664	0 1173 1	9	JSX21-22	0 1464 1	26
333995	4 6170 9	191	BSX170-1714	0 1171 1	9	JSX23-24-28	0 1466 1	26
334084	0 1758 1	63	BSX172-173-1744	0 1194 1	10	JSX29-302	0 1469 1	26
335007	7 7181 1	117	BSX172-1734	0 1172 1	9	JSX31-32	0 1470 1	26
335009	7 7602 1	138	BSX175-1764	0 1175 1	10	JSX33-344	0 1471 1	27
335176	7 7127 1	77	BSX1774	0 1174 1	10	JSX35-364	0 1472 1	27
335176	7 7237 1	85	BSX178-1794	0 1176 1	10	JSX35-374	0 1473 1	27
335205	7 7221 1	82	BSX186-1874	0 1180 1	11	JSX38-39-403	0 1474 1	27
335206	7 7523 1	94	BSX190-1914	0 1183 1	11	JSX38-412	0 1475 1	27
335207	7 7285 1	87	BSX192-1934	0 1184 1	11	JSX40-46-474	0 1477 1	28
335208	7 7522 1	94	BSX194-1954	0 1186 1	11	JSX43-45-444	0 1478 1	28
335211	7 7812 1	112	BSX1964	0 1187 1	12	JSX51-522	0 1480 1	29
335212	7 7230 1	83	BSX1974	0 1170 1	12	JSX51-52-593	0 1485 1	29
335213	7 7224 1	83	BSX202-2034	0 1178 1	12	JSX51-52-634	0 1486 1	29
335221	7 7520 1	94	BSX204-2054	0 1197 1	12	JSX52	0 1451 1	25
335222	7 7831 1	114	BSX206-2074	0 1033 1	17	JSX53-54	0 1481 1	29
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BSX121F4	0 1121 1	4	BSX434	0 1106 1	3	LASX364	0 1615 1	39
BSX124	0 1100 1	3	BSX444	0 1107 1	4	LASX40-412p	0 1617 1	39
BSX124F4	0 1125 1	4	BSX494	0 1125 1	4	LASX424	0 1618 1	40
BSX128F4	0 1124 1	4	BSX524	0 1123 1	4	LASX43-442	0 1619 1	40
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BSX1464	0 1154 1	6	BSX97F4	0 1151 1	6	MASX23-244	0 1669 1	44
BSX1474	0 1155 1	7	BSX98F4	0 1124 1	4	MASX25-264	0 1670 1	44
BSX1484	0 1156 1	7	FX74-783	0 1522 1	32	MASX27-284	0 1671 1	44
BSX1494	0 1157 1	7	FX76-774	0 1523 1	33	PLSX2	0 1100 1	3

VERGLEICHSLISTE

CROSS REFERENCE LIST

CARGO	IKA	PAGE	CARGO	IKA	PAGE	DENSO	IKA	PAGE
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PLSX34	0 1690 1	51	RX1214	0 1286 1	52	028099-2921	4 3525 0	281
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PLSX54	0 1689 1	51	RX122H4	0 1256 1	53	028099-3001	4 3529 0	282
PSX108-1092	0 1760 1	58	RX1246	0 1281 1	54	028099-3010	4 3525 0	281
PSX1124	0 1755 1	57	RX124H6	0 1257 1	54	028099-3020	4 3525 0	281
PSX115-1162	0 1757 1	58	RX128H6	0 1281 1	54	028099-3030	4 3531 0	282
PSX119-1202	0 1760 1	58	RX1344	0 1282 1	54	028099-3031	4 3531 0	282
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PSX1292/1P	0 1766 1	58	RX1354	0 1283 1	55	028099-3041	4 3529 0	282
PSX1304	0 1766 1	58	RX135H4	0 1260 1	55	028099-3160	4 3524 0	281
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PSX136-1374	0 1771 1	59	RX874	0 1287 1	52	028099-3510	0 1985 1	22
PSX138-1392	0 1775 1	59	RX954	0 1288 1	52	028099-3550	0 1977 1	21
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PSX142-1434	0 1779 1	59	USX50-514	0 1354 1	65	028099-3570	0 1988 1	23
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RX1044	0 1280 1	53	028099-2790	4 3523 0	281	028099-7240	4 3479 0	280
RX1202	0 1250 1	53	028099-2791	4 3523 0	281	028099-7242	4 3479 0	280

VERGLEICHSLISTE

CROSS REFERENCE LIST

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VERGLEICHSLISTE

CROSS REFERENCE LIST

EURO-REFERENZ	IKA	PAGE	EURO-REFERENZ	IKA	PAGE	EURO-REFERENZ	IKA	PAGE
			BSX 186-187	0 1180 1	11	JA-SX 24-25	0 1979 1	50
BSX 12	0 1100 1	3	BSX 190-191	0 1183 1	11	JA-SX 26-27	0 1978 1	34
BSX 33	0 1102 1	3	BSX 192-193	0 1184 1	11	JA-SX 29	0 1949 1	45
BSX 34	0 1103 1	3	BSX 194-195	0 1186 1	11	JA-SX 31	0 1952 1	34
BSX 35	0 1104 1	3	BSX 196	0 1187 1	12	JA-SX 32-33	0 1951 1	34
BSX 39	0 1105 1	3	BSX 197	0 1170 1	12	JA-SX 34-30	0 1934 1	34
BSX 43 (4)	0 1106 1	3	BSX 200-201	0 1188 1	12	JA-SX 35	0 1935 1	20
BSX 44 (4)	0 1107 1	4	BSX 202-203	0 1178 1	12	JA-SX 36-37	0 1937 1	34
BSX 70	0 1121 1	4	BSX 204-205	0 1197 1	12	JA-SX 38	0 1936 1	45
BSX 74	0 1123 1	4	BSX 210-211	0 1091 1	13	JA-SX 39	0 1938 1	20
BSX 75	0 1124 1	4	BSX 212-213	0 1092 1	13	JA-SX 39 C	0 1939 1	21
BSX 76	0 1125 1	4	BSX 216-217	0 1094 1	13	JA-SX 40-41	0 1953 1	45
BSX 93	0 1130 1	5	BSX 218-219	0 1095 1	13	JA-SX 42-43	0 1954 1	45
BSX 96	0 1132 1	5	BSX 220-221	0 1096 1	14	JA-SX 44-28	0 1941 1	45
BSX 100	0 1136 1	5	BSX 222-223	0 1220 1	14	JA-SX 45-46	0 1956 1	46
BSX 102	0 1138 1	5	FX 70-71	0 1527 1	32	JA-SX 47-48	0 1957 1	46
BSX 104 (2)	0 1140 1	5	FX 70-72	0 1528 1	32	JA-SX 49-61	0 1948 1	35
BSX 134-144	0 1147 1	5	FX 73	0 1529 1	32	JA-SX 50-51	0 1961 1	35
BSX 135-145	0 1148 1	6	FX 74	0 1530 1	32	JA-SX 52	0 1962 1	21
BSX 137-143	0 1149 1	6	FX 74-78	0 1522 1	32	JA-SX 53	0 1963 1	21
BSX 138-142	0 1150 1	6	FX 75	0 1524 1	32	JA-SX 54-55	0 1964 1	35
BSX 139	0 1151 1	6	FX 76-77	0 1523 1	33	JA-SX 56-3	0 1959 1	35
BSX 140	0 1152 1	6	HPIX 1 mot. directio	0 1800 1	69	JA-SX 56-3/0	0 1958 1	36
BSX 146	0 1154 1	6	HPIX 3	0 1802 1	69	JA-SX 57-58	0 1960 1	36
BSX 147	0 1155 1	7	HX 3	0 1795 1	66	JA-SX 59-60	0 1950 1	36
BSX 148	0 1156 1	7	HX 6 (2)	0 1785 1	66	JA-SX 62	0 1965 1	21
BSX 149	0 1157 1	7	HX 16	0 1794 1	66	JA-SX 63	0 1966 1	21
BSX 151	0 1158 1	7	HX 26	0 1796 1	66	JA-SX 64-65-67	0 1968 1	36
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BSX 152	0 1162 1	7	HX 56 (2)	0 1786 1	66	JA-SX 68-73	0 1976 1	46
BSX 155	0 1164 1	8	HX 106	0 1798 1	67	JA-SX 69-70 (3)	0 1970 1	46
BSX 157-158	0 1165 1	8	HX 109	0 1797 1	67	JA-SX 69-70 (4)	0 1971 1	46
BSX 157-158 K	0 1167 1	8	HX 116	0 1790 1	67	JA-SX 70	0 1967 1	47
BSX 159-160	0 1166 1	8	HX 124	0 1791 1	67	JA-SX 71	0 1973 1	47
BSX 163-164	0 1168 1	9	HX 155	0 1788 1	67	JA-SX 71-72	0 1972 1	47
BSX 165	0 1169 1	9	HX 161	0 1799 1	67	JA-SX 74	0 1975 1	37
BSX 166	0 1173 1	9	HX 172	0 1789 1	68	JA-SX 74-75	0 1974 1	37
BSX 170-171	0 1171 1	9	HX 341	0 1792 1	68	JA-SX 77-78	0 1977 1	21
BSX 172-173	0 1172 1	9	HX 346	0 1787 1	68	JA-SX 80-81	0 1982 1	37
BSX 172-173-174	0 1194 1	10	JA-SX 1	0 1943 1	70	JA-SX 82-83 (3)	0 1981 1	47
BSX 174-175	0 1175 1	10	JA-SX 2	0 1946 1	70	JA-SX 82-83 (4)	0 1983 1	48
BSX 177	0 1174 1	10	JA-SX 10-11	0 1955 1	20	JA-SX 84	0 1984 1	22
BSX 178-179	0 1176 1	10	JA-SX 14 (4)	0 1940 1	20	JA-SX 85	0 1985 1	22
BSX 184-185	0 1088 1	10	JA-SX 15-6 (4)	0 1942 1	34	JA-SX 86-87	0 1986 1	22
BSX 186	0 1179 1	11	JA-SX 22 (4)	0 1945 1	20	JA-SX 88	0 1988 1	23

VERGLEICHSLISTE

CROSS REFERENCE LIST

EURO-REFERENZ	IKA	PAGE	EURO-REFERENZ	IKA	PAGE	EURO-REFERENZ	IKA	PAGE
JA-SX 89	0 1991 1	23	JSX 74-75-76-77 PA70	0 1492 1	30	PSX 140-141 (4)	0 1776 1	59
JA-SX 90	0 1989 1	48	JSX 73 (4)	0 1493 1	30	PSX 142-143	0 1779 1	59
JA-SX 91	0 1990 1	48	LASX 15-16	0 1608 1	39	PSX 142-144	0 1752 1	59
JA-SX 92-93 12V	0 1992 1	37	LASX 15-27	0 1609 1	39	PSX 142-145	0 1754 1	60
JA-SX 94-95 24V	0 1993 1	38	LASX 30-31-32	0 1613 1	39	PSX 146-147 w/o. sprin	0 1783 1	60
JA-SX 96-97 24V	0 1995 1	48	LASX 31	0 1614 1	39	PSX 148-149 w/o. sprin	0 1773 1	60
JA-SX 98-99 12V	0 1994 1	48	LASX 36	0 1615 1	39	PSX 148-149/0	0 1774 1	60
JA-SX 105-106	0 1921 1	23	LASX 40-41	0 1617 1	39	PSX 148-157 w/o. sprin	0 1777 1	61
JA-SX 110-111	0 1922 1	49	LASX 42	0 1618 1	40	PSX 148-158 w/o. sprin	0 1768 1	61
JA-SX 18-19	0 1996 1	20	LASX 43-44 w. termina	0 1628 1	40	PSX 148-159 w/o. sprin	0 1778 1	61
JA-SX 211	0 1344 1	71	LASX 43-44/0 w/o.term	0 1619 1	40	PSX 152-153	0 1780 1	62
JASX103-104	0 1932 1	49	LASX 43-47-48 w.term.	0 1622 1	40	PSX 155 (3)	0 1727 1	62
JASX107	0 1345 1	71	LASX 44-45	0 1620 1	40	PSX 155 (4)	0 1728 1	62
JASX79	0 1997 1	22	LASX 46-47-48	0 1612 1	40	PSX 156 (4)	0 1726 1	62
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JSX 9	0 1454 1	25	LASX 81-82	0 1607 1	41	PSX 161	0 1737 1	62
JSX 13 (4)	0 1457 1	25	LASX 85-84	0 1611 1	41	PSX 163-164	0 1740 1	63
JSX 14	0 1455 1	25	LASX 86-79-80	0 1623 1	41	PSX 166-167	0 1743 1	63
JSX 16	0 1459 1	25	LASX 87-77-78	0 1624 1	41	PSX 169-170	0 1745 1	63
JSX 19	0 1462 1	25	MASX 3	0 1662 1	43	PSX 89-90	0 1747 1	57
JSX 21-22	0 1464 1	26	MASX 13-14	0 1663 1	43	RX 60	0 1284 1	52
JSX 23-24-28	0 1466 1	26	MASX 15-16	0 1664 1	43	RX 70 (4)	0 1285 1	52
JSX 25-22	0 1467 1	26	MASX 17-18	0 1665 1	43	RX 87	0 1287 1	52
JSX 26-27	0 1468 1	26	MASX 19-20	0 1666 1	43	RX 92	0 1296 1	52
JSX 29-30	0 1469 1	26	MASX 21-22	0 1668 1	43	RX 95	0 1288 1	52
JSX 31-32	0 1470 1	26	MASX 23-24	0 1669 1	44	RX 96 (R 120)	0 1286 1	52
JSX 33-34	0 1471 1	27	MASX 25-26	0 1670 1	44	RX 120 (2)	0 1250 1	53
JSX 35-36	0 1472 1	27	MASX 27-28	0 1671 1	44	RX 120 (3)	0 1291 1	53
JSX 35-37	0 1473 1	27	PLSX 3	0 1690 1	51	RX 120 (4)	0 1251 1	53
JSX 38-39-40 (3)	0 1474 1	27	PLSX 4	0 1691 1	51	RX 120/0 (4)	0 1295 1	53
JSX 38-40-58 (4)	0 1482 1	27	PLSX 5	0 1689 1	51	RX 122	0 1280 1	53
JSX 38-41	0 1475 1	27	PSX 81-82	0 1746 1	57	RX 122H	0 1256 1	53
JSX 38-42	0 1476 1	28	PSX 83-84	0 1750 1	57	RX 124	0 1281 1	54
JSX 40-46-47 (4)	0 1477 1	28	PSX 88	0 1756 1	57	RX 124H	0 1257 1	54
JSX 43-45-44 (4)	0 1478 1	28	PSX 112	0 1755 1	57	RX 134	0 1282 1	54
JSX 43-45-57 (3)	0 1483 1	28	PSX 115-116	0 1757 1	58	RX 134H	0 1259 1	54
JSX 48-49-50 (3)	0 1479 1	28	PSX 115-116-121	0 1759 1	58	RX 135	0 1283 1	55
JSX 50-55-56 (3)	0 1484 1	28	PSX 119-120	0 1760 1	58	RX 135H	0 1260 1	55
JSX 51-52 (2)	0 1480 1	29	PSX 129	0 1766 1	58	RX 419-420	0 1254 1	55
JSX 51-52-59 (3)	0 1485 1	29	PSX 131	0 1770 1	58	RX 457-458	0 1255 1	55
JSX 51-52-63 (4)	0 1486 1	29	PSX 132	0 1769 1	58	RX912	0 1253 1	55
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JSX 61-62-63 (4)	0 1487 1	29	PSX 133 K	0 1763 1	59			
JSX 70-71	0 1490 1	30	PSX 136-137	0 1771 1	59			
JSX 72-73 Denso P76	0 1491 1	30	PSX 138-139 (2)	0 1775 1	59			

VERGLEICHSLISTE CROSS REFERENCE LIST

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VERGLEICHSLISTE

CROSS REFERENCE LIST

FUJI	IKA	PAGE	FUJI	IKA	PAGE	FUJI	IKA	PAGE
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FD-158	0 1985 1	22	FF-155	0 1984 1	22	FI-119	0 1959 1	35
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FD-168	0 1977 1	21	FI-001	0 1974 1	37	FI-136	0 1959 1	35
FD-169	0 1984 1	22	FI-002	0 1937 1	34	FI-147	0 1952 1	34
FD-170	0 1962 1	21	FI-003	0 1937 1	34	FI-156	0 1963 1	21
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FE-123	0 1984 1	22	FI-027	0 1988 1	23	FI-164	0 1952 1	34
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VERGLEICHSLISTE

CROSS REFERENCE LIST

FUJI	IKA	PAGE	FUJI	IKA	PAGE	FUJI	IKA	PAGE
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FJ-030	0 1994 1	48	FM-121	0 1967 1	47	FN-030	0 1994 1	48
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VERGLEICHSLISTE

CROSS REFERENCE LIST

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FN-190	0 1982 1	37	FY-113	0 1982 1	37	1534	4 5134 1	155
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VERGLEICHSLISTE

CROSS REFERENCE LIST

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1937	4 5137 1	180	2227	4 5095 1	154	3089	4 5131 1	169
1944	4 5019 1	171	2230	4 5167 1	162	3150	4 5059 1	151
1953	4 5020 1	177	2233	4 5141 1	156	3158	4 5060 1	178
1963	4 5181 1	160	2234	4 5086 1	153	3167	4 5159 1	174
1989	4 5021 1	148	2236	4 5042 1	150	3190	4 5061 1	151
1991	4 5022 1	148	2244	4 5043 1	178	3194	4 5062 1	152
1999	4 5023 1	177	2245	4 5044 1	161	3196	4 5063 1	152
2006	4 5024 1	148	2249	4 5142 1	173	3199	4 5064 1	152
2009	4 5075 1	165	2257	4 5107 1	154	3218	4 5123 1	159
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2136	4 5090 1	154	2377	4 5053 1	178	3660	4 4011 0	229
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VERGLEICHSLISTE

CROSS REFERENCE LIST

GHIBAUDI	IKA	PAGE	GHIBAUDI	IKA	PAGE	GHIBAUDI	IKA	PAGE
3710	4 4142 0	231	4113	4 4454 0	236	6161	4 5105 1	154
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3713	4 4077 0	230	4117	4 4461 0	232	6257	4 5150 1	156
3714	4 4137 0	231	4131	4 4462 0	232	6266	4 5111 1	162
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3716	4 4055 0	230	4501K	4 4698 1	265	6283	4 5149 1	174
3717	4 4054 0	229	4509 K	4 4136 0	231	6292	4 5152 1	159
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VERGLEICHSLISTE

CROSS REFERENCE LIST

HITACHI	IKA	PAGE	HITACHI	IKA	PAGE	HITACHI	IKA	PAGE
2114-53105	7 7140 1	122	2120-4401	4 4463 0	236	2130-9311	0 1934 1	34
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VERGLEICHSLISTE

CROSS REFERENCE LIST

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F-575702	8 4077 0	246	ISKRA	IKA	PAGE	200 612	4 4061 0	230
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F-91916	8 8693 0	252	16 900 920	4 5003 1	146	200 615	4 4022 0	229
F-92227	8 8983 0	253	16 905 218	0 1457 1	25	200 616	4 4054 0	229
FC-66217	8 4207 0	249	16 905 225	0 1451 1	25	200 617	4 4052 0	229
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VERGLEICHSLISTE

CROSS REFERENCE LIST

LCL	IKA	PAGE	LCL	IKA	PAGE	LUCAS	IKA	PAGE
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VERGLEICHSLISTE

CROSS REFERENCE LIST

LUCAS	IKA	PAGE	LUCAS	IKA	PAGE	LUCAS	IKA	PAGE
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VERGLEICHSLISTE CROSS REFERENCE LIST

LUCAS	IKA	PAGE	MARELLI / FIAT	IKA	PAGE	MARELLI / FIAT	IKA	PAGE
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VERGLEICHSLISTE

CROSS REFERENCE LIST

MARELLI / FIAT	IKA	PAGE	MARELLI / FIAT	IKA	PAGE	MELCO	IKA	PAGE
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VERGLEICHSLISTE

CROSS REFERENCE LIST

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VERGLEICHSLISTE

CROSS REFERENCE LIST

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VERGLEICHSLISTE

CROSS REFERENCE LIST

MONARK	IKA	PAGE	REMY	IKA	PAGE	REMY	IKA	PAGE
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1894213	4 5184 1	176	943 7211	8 8277 0	250	097062	4 5054 1	178
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VERGLEICHSLISTE

CROSS REFERENCE LIST

VALEO	IKA	PAGE	VALEO	IKA	PAGE	VALEO	IKA	PAGE
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102217	4 6179 9	211	182 162	0 1756 1	57	190986	7 7149 1	136
105 464	4 4371 0	242	182 194	0 1355 1	65	191 141	7 7147 1	136
105 465	8 8118 0	249	182047	4 5004 1	177	191 821	7 7147 1	136
105 715	4 4372 0	242	182176	4 5012 1	177	191 823	7 7147 1	136
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106143	4 6135 9	210	184795	4 5137 1	180	191141	7 7149 1	136
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182 037	0 1780 1	62	185 936	8 4079 0	246	191601	4 5053 1	178
182 050	4 4663 1	270	185 951	8 4096 0	248	191769	4 5068 1	179
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182 136	4 4658 1	269	188993	4 5043 1	178	300 841	0 1771 1	59
182 139	4 4657 1	269	190 053	8 8674 0	252	300 842	0 1771 1	59
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VERGLEICHSLISTE

CROSS REFERENCE LIST

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571 234	8 2256 0	245	594063	0 3779 1	61	594447	4 6018 1	209
571 321	8 4099 0	249	594064	0 3777 1	60	594449	4 6162 9	211
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VERGLEICHSLISTE

CROSS REFERENCE LIST

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72 619	0 1757 1	58	D6RA10	0 3818 1	268	ZM372	4 6125 9	187
72 620	0 1757 1	58	D6RA8	0 3818 1	268	ZM373	4 6126 9	187
72 621	0 1757 1	58	D7RA IM	4 4505 0	242	ZM378	4 6173 9	191
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92 694	0 1759 1	58	ZM1975	4 6151 9	189	ZM543	4 6133 9	188
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VERGLEICHSLISTE

CROSS REFERENCE LIST

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ZM590	4 6110 9	209	ZM874	4 6216 9	194
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ZM595	4 6179 9	211	ZM893	4 6149 9	204
ZM599	4 6111 9	209	ZM894	4 6188 9	204
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ZM611	4 6180 9	200	ZM972	4 6116 9	186
ZM612	4 6137 9	200	ZM973	4 6218 9	194
ZM613	4 6138 9	200	ZM975	4 6189 9	192
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ZM6381	4 6167 9	190	ZM993	4 6150 9	204
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VERGLEICHSLISTE CROSS REFERENCE LIST

IKA	EURO-REF	PAGE	IKA	EURO-REF	PAGE	IKA	EURO-REF	PAGE
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0 1091 1	BSX 210-211	13	0 1174 1	BSX 177	10	0 1466 1	JSX 23-24-28	26
0 1092 1	BSX 212-213	13	0 1175 1	BSX 174-175	10	0 1467 1	JSX 25-22	26
0 1094 1	BSX 216-217	13	0 1176 1	BSX 178-179	10	0 1468 1	JSX 26-27	26
0 1095 1	BSX 218-219	13	0 1178 1	BSX 202-203	12	0 1469 1	JSX 29-30	26
0 1096 1	BSX 220-221	14	0 1179 1	BSX 186	11	0 1470 1	JSX 31-32	26
0 1100 1	BSX 12	3	0 1180 1	BSX 186-187	11	0 1471 1	JSX 33-34	27
0 1102 1	BSX 33	3	0 1183 1	BSX 190-191	11	0 1472 1	JSX 35-36	27
0 1103 1	BSX 34	3	0 1184 1	BSX 192-193	11	0 1473 1	JSX 35-37	27
0 1104 1	BSX 35	3	0 1186 1	BSX 194-195	11	0 1474 1	JSX 38-39-40 (3)	27
0 1105 1	BSX 39	3	0 1187 1	BSX 196	12	0 1475 1	JSX 38-41	27
0 1106 1	BSX 43 (4)	3	0 1188 1	BSX 200-201	12	0 1476 1	JSX 38-42	28
0 1107 1	BSX 44 (4)	4	0 1194 1	BSX 172-173-174	10	0 1477 1	JSX 40-46-47 (4)	28
0 1121 1	BSX 70	4	0 1197 1	BSX 204-205	12	0 1478 1	JSX 43-45-44 (4)	28
0 1123 1	BSX 74	4	0 1220 1	BSX 222-223	14	0 1479 1	JSX 48-49-50 (3)	28
0 1124 1	BSX 75	4	0 1250 1	RX 120 (2)	53	0 1480 1	JSX 51-52 (2)	29
0 1125 1	BSX 76	4	0 1251 1	RX 120 (4)	53	0 1481 1	JSX 53-54	29
0 1130 1	BSX 93	5	0 1253 1	RX912	55	0 1482 1	JSX 38-40-58 (4)	27
0 1132 1	BSX 96	5	0 1254 1	RX 419-420	55	0 1483 1	JSX 43-45-57 (3)	28
0 1136 1	BSX 100	5	0 1255 1	RX 457-458	55	0 1484 1	JSX 50-55-56 (3)	28
0 1138 1	BSX 102	5	0 1256 1	RX 122H	53	0 1485 1	JSX 51-52-59 (3)	29
0 1140 1	BSX 104 (2)	5	0 1257 1	RX 124H	54	0 1486 1	JSX 51-52-63 (4)	29
0 1147 1	BSX 134-144	5	0 1259 1	RX 134H	54	0 1487 1	JSX 61-62-63 (4)	29
0 1148 1	BSX 135-145	6	0 1260 1	RX 135H	55	0 1490 1	JSX 70-71	30
0 1149 1	BSX 137-143	6	0 1280 1	RX 122	53	0 1491 1	JSX 72-73 Denso	30
0 1150 1	BSX 138-142	6	0 1281 1	RX 124	54	0 1492 1	JSX 74-75-76-77	30
0 1151 1	BSX 139	6	0 1282 1	RX 134	54	0 1493 1	JSX 73 (4)	30
0 1152 1	BSX 140	6	0 1283 1	RX 135	55	0 1522 1	FX 74-78	32
0 1154 1	BSX 146	6	0 1284 1	RX 60	52	0 1523 1	FX 76-77	33
0 1155 1	BSX 147	7	0 1285 1	RX 70 (4)	52	0 1524 1	FX 75	32
0 1156 1	BSX 148	7	0 1286 1	RX 96 (R 120)	52	0 1527 1	FX 70-71	32
0 1157 1	BSX 149	7	0 1287 1	RX 87	52	0 1528 1	FX 70-72	32
0 1158 1	BSX 151	7	0 1288 1	RX 95	52	0 1529 1	FX 73	32
0 1159 1	BSX 151/0	7	0 1291 1	RX 120 (3)	53	0 1530 1	FX 74	32
0 1162 1	BSX 152	7	0 1295 1	RX 120/0 (4)	53	0 1607 1	LASX 81-82	41
0 1164 1	BSX 155	8	0 1296 1	RX 92	52	0 1608 1	LASX 15-16	39
0 1165 1	BSX 157-158	8	0 1344 1	JA-SX 211	71	0 1609 1	LASX 15-27	39
0 1166 1	BSX 159-160	8	0 1345 1	JASX107	71	0 1611 1	LASX 85-84	41
0 1167 1	BSX 157-158 K	8	0 1451 1	JSX 5	25	0 1612 1	LASX 46-47-48	40
0 1168 1	BSX 163-164	9	0 1454 1	JSX 9	25	0 1613 1	LASX 30-31-32	39
0 1169 1	BSX 165	9	0 1455 1	JSX 14	25	0 1614 1	LASX 31	39
0 1170 1	BSX 197	12	0 1457 1	JSX 13 (4)	25	0 1615 1	LASX 36	39
0 1171 1	BSX 170-171	9	0 1459 1	JSX 16	25	0 1617 1	LASX 40-41	39
0 1172 1	BSX 172-173	9	0 1462 1	JSX 19	25	0 1618 1	LASX 42	40

VERGLEICHSLISTE CROSS REFERENCE LIST

IKA	EURO-REF	PAGE	IKA	EURO-REF	PAGE	IKA	EURO-REF	PAGE
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0 1620 1	LASX 44-45	40	0 1774 1	PSX 148-149/0	60	0 1952 1	JA-SX 31	34
0 1621 1	LASX 73-41	41	0 1775 1	PSX 138-139 (2)	59	0 1953 1	JA-SX 40-41	45
0 1622 1	LASX 43-47-48	40	0 1776 1	PSX 140-141 (4)	59	0 1954 1	JA-SX 42-43	45
0 1623 1	LASX 86-79-80	41	0 1777 1	PSX 148-157 w/o.	61	0 1955 1	JA-SX 10-11	20
0 1624 1	LASX 87-77-78	41	0 1778 1	PSX 148-159 w/o.	61	0 1956 1	JA-SX 45-46	46
0 1628 1	LASX 43-44 w.	40	0 1779 1	PSX 142-143	59	0 1957 1	JA-SX 47-48	46
0 1662 1	MASX 3	43	0 1780 1	PSX 152-153	62	0 1958 1	JA-SX 56-3/0	36
0 1663 1	MASX 13-14	43	0 1783 1	PSX 146-147 w/o.	60	0 1959 1	JA-SX 56-3	35
0 1664 1	MASX 15-16	43	0 1785 1	HX 6 (2)	66	0 1960 1	JA-SX 57-58	36
0 1665 1	MASX 17-18	43	0 1786 1	HX 56 (2)	66	0 1961 1	JA-SX 50-51	35
0 1666 1	MASX 19-20	43	0 1787 1	HX 346	68	0 1962 1	JA-SX 52	21
0 1668 1	MASX 21-22	43	0 1788 1	HX 155	67	0 1963 1	JA-SX 53	21
0 1669 1	MASX 23-24	44	0 1789 1	HX 172	68	0 1964 1	JA-SX 54-55	35
0 1670 1	MASX 25-26	44	0 1790 1	HX 116	67	0 1965 1	JA-SX 62	21
0 1671 1	MASX 27-28	44	0 1791 1	HX 124	67	0 1966 1	JA-SX 63	21
0 1689 1	PLSX 5	51	0 1792 1	HX 341	68	0 1967 1	JA-SX 70	47
0 1690 1	PLSX 3	51	0 1793 1	HX 54	66	0 1968 1	JA-SX 64-65-67	36
0 1691 1	PLSX 4	51	0 1794 1	HX 16	66	0 1969 1	JA-SX 66-67	36
0 1726 1	PSX 156 (4)	62	0 1795 1	HX 3	66	0 1970 1	JA-SX 69-70 (3)	46
0 1727 1	PSX 155 (3)	62	0 1796 1	HX 26	66	0 1971 1	JA-SX 69-70 (4)	46
0 1728 1	PSX 155 (4)	62	0 1797 1	HX 109	67	0 1972 1	JA-SX 71-72	47
0 1735 1	PSX 160-164 D7G	62	0 1798 1	HX 106	67	0 1973 1	JA-SX 71	47
0 1737 1	PSX 161	62	0 1799 1	HX 161	67	0 1974 1	JA-SX 74-75	37
0 1740 1	PSX 163-164	63	0 1800 1	HPIX 1 mot. directio	69	0 1975 1	JA-SX 74	37
0 1743 1	PSX 166-167	63	0 1802 1	HPIX 3	69	0 1976 1	JA-SX 68-73	46
0 1745 1	PSX 169-170	63	0 1921 1	JA-SX 105-106	23	0 1977 1	JA-SX 77-78	21
0 1746 1	PSX 81-82	57	0 1922 1	JA-SX 110-111	49	0 1978 1	JA-SX 26-27	34
0 1747 1	PSX 89-90	57	0 1932 1	JASX103-104	49	0 1979 1	JA-SX 24-25	50
0 1750 1	PSX 83-84	57	0 1934 1	JA-SX 34-30	34	0 1981 1	JA-SX 82-83 (3)	47
0 1752 1	PSX 142-144	59	0 1935 1	JA-SX 35	20	0 1982 1	JA-SX 80-81	37
0 1754 1	PSX 142-145	60	0 1936 1	JA-SX 38	45	0 1983 1	JA-SX 82-83 (4)	48
0 1755 1	PSX 112	57	0 1937 1	JA-SX 36-37	34	0 1984 1	JA-SX 84	22
0 1756 1	PSX 88	57	0 1938 1	JA-SX 39	20	0 1985 1	JA-SX 85	22
0 1757 1	PSX 115-116	58	0 1939 1	JA-SX 39 C	21	0 1986 1	JA-SX 86-87	22
0 1759 1	PSX 115-116-121	58	0 1940 1	JA-SX 14 (4)	20	0 1988 1	JA-SX 88	23
0 1760 1	PSX 119-120	58	0 1941 1	JA-SX 44-28	45	0 1989 1	JA-SX 90	48
0 1763 1	PSX 133 K	59	0 1942 1	JA-SX 15-6 (4)	34	0 1990 1	JA-SX 91	48
0 1766 1	PSX 129	58	0 1943 1	JA-SX 1	70	0 1991 1	JA-SX 89	23
0 1768 1	PSX 148-158 w/o.	61	0 1945 1	JA-SX 22 (4)	20	0 1992 1	JA-SX 92-93 12V	37
0 1769 1	PSX 132	58	0 1946 1	JA-SX 2	70	0 1993 1	JA-SX 94-95 24V	38
0 1770 1	PSX 131	58	0 1948 1	JA-SX 49-61	35	0 1994 1	JA-SX 98-99 12V	48
0 1770 1	PSX 133	58	0 1949 1	JA-SX 29	45	0 1995 1	JA-SX 96-97 24V	48
0 1771 1	PSX 136-137	59	0 1950 1	JA-SX 59-60	36	0 1996 1	JA-SX 18-19	20

VERGLEICHSLISTE CROSS REFERENCE LIST

IKA	EURO-REF	PAGE
0 1997 1	JASX79	22