

GENERAL MOTORS (AF14-20) 50-40L, LE, & LM

4 speed front wheel drive
Vauxhall Cavalier, Calibra 1990 - & Volvo 850T
Daewoo Espero 95 -



Iss 27/08/2002

Illus	Description	Year	Part No.
KITS			
	Master (Vauxhall & Volvo combo kit) exc Daewoo		193 01 01
	Overhaul (Vauxhall & Volvo combo kit) exc Daewoo		193 02 01
	Overhaul (Daewoo)		
	Gasket & rubber		193 03 01
	Gasket (exc Daewoo)		193 04 01
	Friction only module		193 07 02
GASKETS			
	Pan gasket		193 25 07
	Side plate gasket (late)		193 25 08
NI	Front valve body upper		193 25 01
NI	Front valve body lower		193 25 02
NI	Centre valve body upper		193 25 03
NI	Centre valve body lower		193 25 04
NI	Rear valve body rear		193 25 05
NI	Valve body side cover		193 25 06
NI	Valve body - Vectra		193 25 09
NI	Valve body - Vectra		193 25 10
NI	Valve body - Vectra		193 25 11
NI	Valve body - Vectra		193 25 12
NI	Valve body main upper - Volvo		193 25 13
NI	Valve body main lower - Volvo		193 25 14
NI	Valve body aux upper - Volvo		193 25 15
NI	Valve body aux lower - Volvo		193 25 16
NI	Valve body main upper AF22 Calibra		193 25 17
RUBBER COMPONENTS			
10	Pump "O" ring		193 16 01
11	B1 clutch outer "O" ring		193 16 02
12	B1 clutch inner "O" ring		193 16 03
13	B2 clutch outer "O" ring		193 16 04
14	B2 clutch inner "O" ring		193 16 05
15	B3 clutch outer "O" ring		193 16 04
16	B3 clutch inner "O" ring		193 16 06
17	C1 forward clutch outer "O" ring		193 16 07
18	C1 forward clutch inner "O" ring		193 16 08
19	C2 direct clutch outer "O" ring		193 16 02
20	C2 direct clutch inner "O" ring		193 16 08
21	C3 clutch outer "O" ring		193 16 02
22	C3 clutch inner "O" ring		193 16 03
NI	Accumulator piston & cover "O" ring	(2)	132 16 06
NI	Low brake valve piston & cover "O" ring	(3)	173 16 26
NI	Filter seal	(2)	N/A
NI	Temperature sensor "O" rings		193 16 10
NI	Speedo gear "O" ring		117 16 05
NI	Filler tube "O" ring		123 16 02
NI	Band anchor screw "O" ring	(2)	193 16 11
NI	Solenoid "O" ring	(3)	193 16 09
NI	Pressure take off "O" ring	(8)	180 16 15
NI	Solenoid insulator "O" ring		193 16 11
NI	Rev sensor "O" ring	(2)	193 16 12
NI	Cl accumulator "O" ring		193 16 13
NI	Case squash seals	(6)	193 20 01
NI	Case feed seal		179 20 01
METAL CLAD SEALS			
40	Pump		193 15 01
41	Drive shaft Vauxhall	(2)	161 15 03
41	Drive shaft Volvo 39 x 63 x 9	(2)	193 15 04
42	Manual shaft		173 15 06
SHAFT SEALING RINGS			
46	Maincase to C3 clutch drum	(2)	193 26 01
47	End cover to forward & direct clutch	(3)	193 26 02
48	Forward & direct clutch to end cover	(1)	193 26 03
	Gearset to converter housing	(1)	193 26 04
CLUTCH PLATES			
50	(1st) B2 friction 160 x 1.70 x 33T	(5)	193 11 01
51	(1st) B2 steel 170 x 2.53 x 10T	(5)	193 12 01

Illus	Description	Year	Part No.
51	(1st) B2 steel 170 x 1.80 x 10T		
52	(1st) B2 top pressure 3.60mm		193 13 01
52	(1st) B2 Bottom pressure plate		193 13 01
53	(2nd) B1 friction 107 x 1.70 x 34T	(3)	193 11 02
54	(2nd) B1 steel 116 x 1.8 x 8T	(3)	193 12 02
55	(2nd) B1 pressure 3.6mm		193 13 02
56	(3rd) C3 friction 107 x 1.70 x 34T	(4)	193 11 02
56	(3rd) C3 friction 114 x 1.70 x 34T for LM	(4)	193 11 05
57	(3rd) C3 steel 116 x 1.80 x 8T	(4)	193 12 02
57	(3rd) C3 steel 116 x 2.5 x 18T for LM	(4)	193 12 06
58	(3rd) C3 pressure 3.60mm		193 13 03
58	(3rd) C3 pressure 3.80mm		193 13 04
58	(3rd) C3 pressure 4.00mm		193 13 05
59	(4th) B3 friction 160 x 1.70 x 33T	(6)	193 11 03
60	(4th) B3 steel 170 x 1.82 x 15T	(4)	193 12 03
61	(4th) B3 pressure top		193 13 06
61	(4th) B3 pressure bottom		193 13 06
62	(5th) Direct C2 friction 107 x 1.70 x 34T	(4)	193 11 02
62	(5th) Direct C2 friction 114 x 1.70 x 34T for LM	(4)	193 11 05
62	(5th) Direct C2 steel 116 x 1.8 x 12T	(4)	193 12 04
63	(5th) Direct C2 steel 2.5 x 18T for LM	(4)	193 12 06
63	(5th) Direct C2 pressure 3.60mm		193 13 07
63	(5th) Direct C2 pressure 3.80mm		193 13 08
63	(5th) Direct C2 pressure 4.00mm		193 13 09
65	(6th) Forward C1 friction 136 x 1.70 x 46T	(4)	193 11 04
66	(6th) Forward C1 steel 142 x 1.8 x 12T	(4)	193 12 05
67	(6th) Forward C1 pressure 3.60mm		193 13 10
67	(6th) Forward C1 pressure 3.80mm		193 13 11
67	(6th) Forward C1 pressure 4.00mm		193 13 12
BRAKE BANDS			
70	Low brake		193 14 01
FILTER			
NI	Pick up - Vauxhall & Volvo only		193 27 01
NI	Pick up - Daewoo		
NI	Pick up - SAAB & Vectra		
BUSHES & BEARINGS			
72	Pump		112 21 01
73	Case needle bush		193 21 02
NI	Selector shaft needle bush		193 21 03
75	End case to C1 drum needle bush		193 21 04
76	Gearset to converter housing needle bush		193 21 05
77	Diff taper roller bearing 78mm dia		193 46 01
78	Diff taper roller bearing 84 mm dia		193 46 02
THRUST WASHERS			
79	OWC housing F1 plastic 56 x 98 x 1.62		193 22 01
80	OWC hub plastic 56 x 76 x 1.82		193 22 02
81	OWC hub plastic to 46 x 74 x 0.88		193 22 03
82	Needle thrust sun gear to input shaft 22 x 42 x 3.6		193 23 01
83	Needle thrust sun gear to ring gear 50 x 67 x 3.6		193 23 02
84	Needle thrust sun gear to gearset 39 x 57 x 2.75		193 23 03
85	Race plate sun gear to gearset (lip) 39 x 54 x 0.80		193 22 04
86	Needle thrust OWC hub to int gear 47 x 62 x 2.75		193 23 04
87	Race plate OWC hub to int gear 44 x 58 x 2.00		193 22 06
88	Thrust OWC hub to OWC		193 22 07
89	Race OWC hub to end cover 13.5 x 41 x 0.80		193 22 08
90	Needle thrust OWC hub to end cover 23 x 42 x 2.00		193 23 05
91	Race thrust OWC hub to end cover 15 x 41 x 0.80		193 22 09
92	Needle thrust band drum to case 36 x 57 x 3.5		193 23 06
93	Needle thrust C3 band drum to gearset 29 x 42 x 0.80		193 23 07
94	Race C3 band drum to gearset		193 22 10
95	Needle thrust gearset to converter housing		193 23 08
96	Race gearset to converter housing		193 22 11
97	Needle thrust gearset to OWC hub		193 23 09
98	Selective diff shims 1.00mm		193 36 01



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98	Selective diff shims 1.05mm		193 36 02	146	Final drive sun gear 1.6		193 65 01
98	Selective diff shims 1.10mm		193 36 03	146	Final drive sun gear 1.8, 2.0		193 65 02
98	Selective diff shims 1.15mm		193 36 04	150	Forward C1 & Direct C2 drum - not 1800cc		193 29 10
98	Selective diff shims 1.20mm		193 36 05	150	Forward C1 & Direct C2 drum - 1800cc only		193 29 21
98	Selective diff shims 1.25mm		193 36 06	151	Forward clutch piston		193 45 05
98	Selective diff shims 1.30mm		193 36 07	152	Direct clutch piston 1.6		193 45 06
98	Selective diff shims 1.33mm		193 36 08	152	Direct clutch piston 1.8, 2.0		193 45 07
98	Selective diff shims 1.36mm		193 36 09	153	Direct piston return spring		193 24 04
98	Selective diff shims 1.39mm		193 36 10	154	F3 OWC assembly		193 44 06
98	Selective diff shims 1.42mm		193 36 11		F3 shaped clamp spring		193 24 12
98	Selective diff shims 1.45mm		193 36 12	155	Brake band drum 1.6		193 29 11
98	Selective diff shims 1.48mm		193 36 13	155	Brake band drum 1.8, 2.0		193 29 12
98	Selective diff shims 1.51mm		193 36 14	156	C3 clutch piston 1.6		193 45 08
98	Selective diff shims 1.54mm		193 36 15	156	C3 clutch piston 1.8, 2.0		193 45 09
98	Selective diff shims 1.57mm		193 36 16	157	C3 piston return spring 1.6		193 24 05
98	Selective diff shims 1.60mm		193 36 17	157	C3 piston return spring 1.8, 2.0		193 24 06
98	Selective diff shims 1.65mm		193 36 18	158	P2 planetary assbly 1.6		193 66 03
98	Selective diff shims 1.70mm		193 36 19	158	P2 planetary assbly 1.8		193 66 04
98	Selective diff shims 1.75mm		193 36 20	158	P2 planetary assbly 2.0		193 66 05
98	Selective diff shims 1.80mm		193 36 21	159	Input drive gear 1.6		193 66 06
98	Selective diff shims 1.85mm		193 36 22	159	Input drive gear 1.8, 2.0		193 66 07
98	Selective diff shims 1.90mm		193 36 23	175	Main case		193 53 01
98	Selective diff shims 2.50mm		193 36 24	176	Converter housing		193 53 02
	CIRCLIPS			177	Extension housing 1.6 (modified)		193 54 01
110	B2, B3 clutch (2)		193 32 01	177	Extension housing 1.8, 2.0 (modified)		193 54 02
111	B1, C2, C3 clutch (3)		193 32 02	NI	Valve body cover		193 56 01
112	B1, C2 return springs (2)		193 32 03	160	B4 accumulator piston		193 45 10
113	B3 return spring		193 32 04	161	B4 accumulator cover		193 45 11
114	F2 one way clutch		193 32 05	162	B4 piston return spring		193 24 07
115	B3 flange		193 32 06	163	B4 torsion spring		193 24 08
116	Ring gear flange (gearset)		193 32 07	164	Low brake band piston & rod 70.50mm		193 45 12
117	C1 forward clutch		193 32 08	164	Low brake band piston & rod 72.00mm		193 45 13
118	F3 OWC to case		193 32 09	165	Low brake piston cover		193 45 14
119	C3 return spring 1.6		193 32 10	166	Low brake piston return spring		193 24 09
119	C3 return spring 1.8 & 2.0		193 32 11	167	Differential assembly		193 68 01
120	Gearset P2		193 32 12	168	Crown wheel 1.6		193 68 02
121	Input gear		193 32 13	168	Crown wheel 1.8		193 68 03
122	Low brake valve cover		193 32 14	168	Crown wheel 2.0		193 68 04
	HARD PARTS			169	Speedo driving gear		193 60 01
125	B2 Clutch piston		193 45 01	NI	Speedo driven gear 13 teeth		193 60 02
126	B2 piston return spring		193 24 01	170	Crown wheel lock tab (4)		193 34 01
127	B1 clutch piston 1.6		193 45 02	NI	C1 accumulator piston		193 45 15
127	B1 clutch piston 1.8 & 2.0		193 45 03	NI	C1 accumulator piston cover		193 45 16
128	B1 piston return spring		193 24 02	NI	C1 accumulator piston spring		193 24 11
129	F1 One way clutch		193 44 01	NI	End cover (casting 5040 039 0047) Cavalier		193 54 02
130	F1 OWC outer hub		193 44 02	NI	End cover (casting 5040 039 017R) Volvo 850		193 54 01
131	F1 OWC inner hub		193 44 03	NI	End cover (casting 5040 039 0047)		
132	Pump assembly		193 38 01		ELECTRICAL		
133	Inner pump gear		193 38 02	NI	Pressure control solenoid		193 35 01
134	Outer pump gear		193 38 03	NI	Shift control solenoid (2)		193 35 02
135	Stator support & B1, B2 clutch housing 1.6		193 39 01	NI	Converter solenoid		193 35 03
135	Stator support & B1, B2 clutch housing 1.8 & 2.0		193 39 02	NI	Inhibitor switch		193 35 04
136	Pump wear plate		193 38 04	NI	Sensor, input revolution		193 35 05
137	F2 OWC		193 44 04	NI	Sensor, output revolution		193 35 06
138	F2 OWC assembly		193 44 05	NI	Solenoid cable & insulator		193 35 07
139	B3 clutch piston		193 45 04	NI	Programme selector switch		193 35 08
140	B3 piston return spring		193 24 03	NI	Drive off aid switch		193 35 09
141	B3 clutch hub 1.6		193 29 01	NI	Temperature sender & cable		193 35 10
141	B3 clutch hub 1.8 & 2.0		193 29 02		CABLE		
142	B3 clutch hub flange		193 29 03	NI	Selector		193 50 01
143	Planet carrier assembly 1.6		193 66 01		TUBES		
143	Planet carrier assembly 1.8, 2.0		193 66 02	NI	Differential		193 63 01
144	Planet ring gear 1.6		193 29 04	NI	Main pressure pipe No 2		193 63 02
144	Planet ring gear 1.8, 2.0		193 29 05	NI	Main pressure pipe No 1		193 63 03
145	Ring gear flange 1.6 to 5040031004T		193 29 06	NI	C3 clutch feed		193 63 04
145	Ring gear flange 1.6 from 5040031004T		193 29 07	NI	Lubrication		193 63 05
145	Ring gear flange 1.8		193 29 08				
145	Ring gear flange 2.0 to 91.75608		193 29 08				
145	Ring gear flange 2.0 from 91.75608		193 29 09				