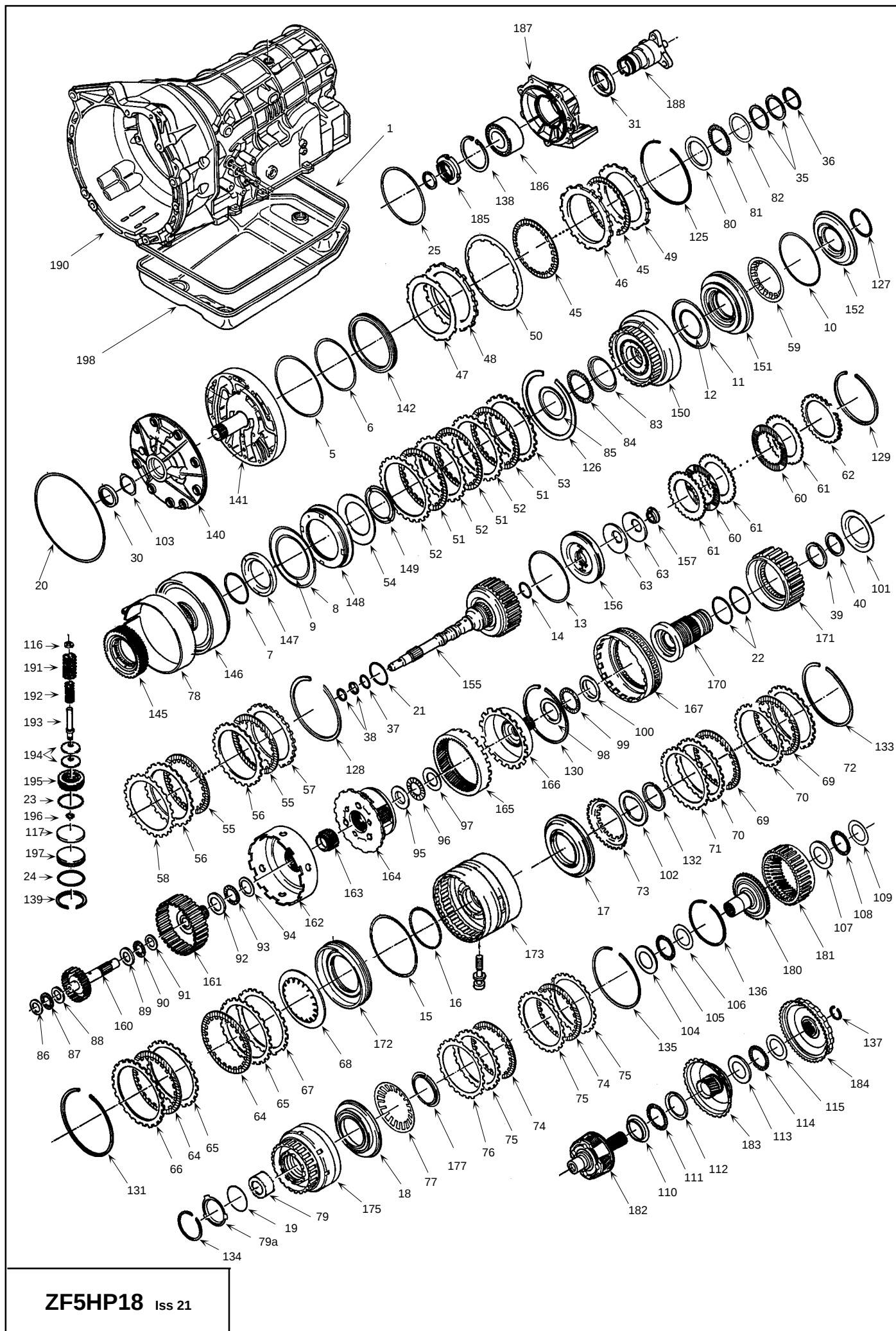




ZF5HP18 Iss 21



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BMW 1991 on 5 speed rear wheel drive

ZF 5HP18
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Illus	Description	Part No.	Illus	Description	Part No
	KITS				
	Master	157 01 01	64	"D" brake (5th) low & rev friction 147 X 1.6 X 30T(5/6)	183 11 05
	Overhaul	157 02 01	65	"D" brake (5th) low & rev steel (5/6)	183 12 02
	Gasket & Rubber	157 03 01	66	"D" brake (5th) low & rev pressure (1)	183 13 02
	Shaft sealing rings	157 06 01	67	"D" brake (5th) low & rev diaphragm (1)	157 24 03
	Thrusts needle & plain	157 10 01	68	"D" brake (5th) low & rev wavy (1)	157 12 04
	Thrusts plain only	157 10 02			
	Thrusts needle only	157 10 03	69	"G" brake (6th) overrun friction 135 X 1.6 X 30T(3/4)	180 11 01
	GASKETS		70	"G" brake (6th) overrun steel (3/4)	180 12 01
1	Pan	157 25 01	71	"G" brake (6th) overrun wavy (1)	157 12 05
NI	Valve body 060, 072, 073, 074, 075, 076, 080,	157 25 02	72	"G" brake (6th) overrun pressure (1)	180 13 01
NI	Valve body 087	157 25 03	73	"G" brake (6th) overrun diaphragm (1)	157 24 04
	Pump sealing washers	157 25 04			
	RUBBER COMPONENTS		74	"F" clutch (7th) overdrive friction 135 X 1.6 X 30T (4)	180 11 01
5	C clutch (1st) outer "O" ring	137 16 07	75	"F" clutch (7th) overdrive steel (5)	157 12 01
6	C clutch (1st) inner "O" ring	183 16 02	76	"F" clutch (7th) overdrive wavy (1)	157 12 05
7	B clutch (2nd) intermediate ring "O" ring	183 16 03	77	"F" clutch (7th) overdrive diaphragm (1)	157 24 05
8	B clutch (2nd) piston "O" ring inner	180 16 06		BRAKE BANDS	
9	B clutch (2nd) piston "O" ring outer	137 16 07	78	Band for 072 to 076, and 080	157 14 01
			78	Band for 087	157 14 02
10	A clutch (3rd) oil dam "O" ring	178 16 10		FILTER	
11	A clutch (3rd) piston outer "O" ring	157 16 01	NI	Filter	157 27 01
12	A clutch (3rd) piston inner "O" ring	183 16 05		BUSHES & BEARINGS	
13	E clutch (4th) piston outer "O" ring	137 16 08	79	"F" clutch cyl. bush	157 21 01
14	E clutch (4th) piston inner "O" ring	180 16 10	79a	"F" clutch cyl. internal bronze (for early drums)	157 21 02
				THRUST WASHERS	
15	D clutch (5th) piston outer "O" ring	137 16 07	80	Stator support thrust plate C to B (1)	157 22 01
16	D clutch (5th) piston inner "O" ring	137 16 06	81	Stator support needle (1)	157 23 01
17	G clutch (6th) moulded piston	157 45 01			
18	F clutch (7th) moulded piston	157 45 02	82	Stator support needle race selective 3.60mm	183 22 08
19	F clutch (7th) cylinder "O" ring	157 16 02	82	Stator support needle race selective 3.40mm	183 22 09
20	Pump "O" ring	157 16 03	82	Stator support needle race selective 3.20mm	183 22 10
21	Input shaft "O" ring	180 16 04	82	Stator support needle race selective 3.00mm	183 22 11
22	D & G clutch support "O" ring (2)	157 16 04	82	Stator support needle race selective 2.80mm	183 22 12
23	Servo piston "O" ring	183 16 13			
24	Servo cover "O" ring	137 16 09	82	Stator support needle race selective 2.60mm	183 22 13
25	Extension housing "O" ring	157 16 05	82	Stator support needle race selective 2.40mm	183 22 14
NI	Filter "O" ring	137 16 02	82	Stator support needle race selective 2.20mm	183 22 15
NI	Harness "O" ring	157 16 06	82	Stator support needle race selective 2.00mm	183 22 16
	METAL CLAD SEALS		82	Stator support needle race selective 1.80mm	183 22 17
30	Pump	137 15 01	82	Stator support needle race selective 1.60mm	183 22 18
31	Extension housing	157 15 02	82	Stator support needle race selective 1.40mm	183 22 19
NI	Selector shaft	137 15 04	82	Stator support needle race selective 1.20mm	183 22 20
	SHAFT SEALING RINGS		82	Stator support needle race selective 1.00mm	183 22 21
35	Stator support large (2)	183 26 01	83	"B" clutch to "A" clutch thrust plate (1)	157 22 02
36	Stator support small (1)	157 26 01	84	"B" clutch to "A" clutch needle (1)	157 23 01
37	Input shaft large (1)	157 26 02	85	"B" clutch to "A" clutch cupped thrust (1)	157 22 03
38	Input shaft small (2)	157 26 03			
39	F clutch large (1)	157 26 04	86	"A" to Inter shaft thrust plate (1)	180 22 45
40	F clutch small (1)	157 26 05	87	"A" to Inter shaft needle 072, 073, 075, 076, 080	180 23 03
			87	"A" to Inter shaft needle 087	157 23 08
			88	"A" to Inter shaft thrust plate	180 22 45
	CLUTCH PLATES				
45	"C" clutch (1st) friction (3/4)	157 11 01	89	Inter shaft to sun gear plate	157 22 04
46	"C" clutch (1st) steel 2.10mm (2/3)	137 12 05	90	Inter shaft to sun gear ndle 072,073,075,076,080	157 23 02
47	"C" clutch (1st) steel waved (1)	178 12 05	90	Inter shaft to sun gear needle 087	157 23 06
48	"C" clutch (1st) inner pressure 3.00mm (1)	183 13 01	91	Inter shaft to sun gear plate	157 22 05
49	"C" clutch (1st) outer pressure (1)	137 13 01			
50	"C" clutch (1st) diaphragm spring	183 24 01	92	Sun gear to pot plate	183 22 01
			93	Sun gear to pot 072,073,075,076,080.	183 23 01
51	"B" clutch (2nd) reverse friction 147 X 2.0 X 30T (3)	183 11 02	93	Sun gear to pot 087	157 23 07
52	"B" clutch (2nd) reverse steel (3)	183 12 02	94	Sun gear to pot	183 22 02
53	"B" clutch (2nd) reverse pressure (1)	183 13 02			
54	"B" clutch (2nd) reverse diaphragm spring (1)	183 24 04	95	Gearset to ring gear shaft plate	183 22 03
			96	Gearset to ring gear shaft needle	157 23 03
55	"A" clutch (3rd) forward friction 147 X 1.6 X 30T(4/5)	183 11 03	97	Gearset to ring gear shaft plate	183 22 18
56	"A" clutch (3rd) forward steel (4/5)	183 12 02			
57	"A" clutch (3rd) forward pressure (1)	183 13 02	98	Ring gear shaft to freewheel support plate	157 22 06
58	"A" clutch (3rd) forward waved (1)	157 12 02	99	Ring gear shaft to freewheel support needle	157 23 04
59	"A" clutch (3rd) forward diaphragm spring (1)	157 24 01	100	Ring gear shaft to freewheel support plate	157 22 07
60	"E" clutch (4th) direct friction 108 X 1.6 X 36T(4/5)	183 11 04	101	Freewheel support retaining washer	157 22 08
61	"E" clutch (4th) direct steel (4/5)	157 12 03	102	"G" clutch thrust washer (3 lugs)	157 22 14
62	"E" clutch (4th) direct pressure (AR)	157 13 01	103	Pump washer	157 22 09
62	"E" clutch (4th) direct pressure (AR)	157 13 02	104	"F" clutch to rear ring gear carrier plate	157 22 10
63	"E" clutch (4th) direct diaphragm spring (2)	157 24 02	105	"F" clutch to rear ring gear carrier needle	157 23 05

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Illus	Description		Part No.	Illus	Description		Part No
106	"F" clutch to rear ring gear carrier plate		157 22 11	128	"A" clutch selective	1.80mm	183 32 06
107	Rear gearset to ring gear carrier plate		157 22 10	128	"A" clutch selective	1.60mm	183 32 07
108	Rear gearset to ring gear carrier needle		157 23 05	128	"A" clutch selective	1.40mm	183 32 08
109	Rear gearset to ring gear carrier washer		157 22 11	128	"A" clutch selective	1.20mm	183 32 09
				128	"A" clutch selective	1.00mm	183 32 10
110	Rear gearset to sun gear plate (top hat)		157 22 12	129	"E" clutch		183 32 11
111	Rear gearset to sun gear plate needle		157 23 04	129	"E" clutch selective	2.80mm	157 32 18
112	Rear gearset to sun gear plate (cupped)		157 22 13	129	"E" clutch selective	2.60mm	157 32 19
				129	"E" clutch selective	2.40mm	157 32 20
113	Sun gear to park lock wheel plate		157 22 10	129	"E" clutch selective	2.20mm	157 32 21
114	Sun gear to park lock wheel needle		157 23 05	129	"E" clutch selective	2.00mm	157 32 22
115	Sun gear to park lock wheel washer		157 22 11	129	"E" clutch selective	1.80mm	157 32 23
				129	"E" clutch selective	1.60mm	157 32 24
116	Band servo pin selective washer	5.00mm	157 20 12	129	"E" clutch selective	1.40mm	157 32 25
116	Band servo pin selective washer	4.75mm	157 20 11	129	"E" clutch selective	1.20mm	157 32 26
116	Band servo pin selective washer	4.50mm	157 20 10	129	"E" clutch selective	1.00mm	157 32 27
116	Band servo pin selective washer	4.25mm	157 20 09				
116	Band servo pin selective washer	4.00mm	157 20 08	130	Front gearset ring gear		183 32 18
116	Band servo pin selective washer	3.75mm	157 20 07				
				131	"D" clutch selective	4.00mm	157 32 04
116	Band servo pin selective washer	3.50mm	157 20 06	131	"D" clutch selective	3.50mm	157 32 05
116	Band servo pin selective washer	3.25mm	157 20 05	131	"D" clutch selective	3.00mm	157 32 06
116	Band servo pin selective washer	3.00mm	157 20 04	131	"D" clutch selective	2.60mm	157 32 07
116	Band servo pin selective washer	2.75mm	157 20 03	131	"D" clutch selective	2.20mm	183 32 04
116	Band servo pin selective washer	2.50mm	157 20 02	131	"D" clutch selective	2.00mm	183 32 05
116	Band servo pin selective washer	2.25mm	157 20 01	131	"D" clutch selective	1.80mm	183 32 06
				133	"G" clutch selective for 072 & 074	3.60mm	157 32 08
117	Band servo pin selective shim plate	4.25mm	157 36 01	133	"G" clutch selective for 072 & 074	3.40mm	157 32 09
117	Band servo pin selective shim plate	4.00mm	157 36 02	133	"G" cl. sel. 072,073,074,075,076,080,087	3.20mm	157 32 10
117	Band servo pin selective shim plate	3.75mm	157 36 03	133	"G" cl. sel. 072,073,074,075,076,080,087	2.80mm	180 32 03
117	Band servo pin selective shim plate	3.50mm	157 36 04				
117	Band servo pin selective shim plate	3.25mm	157 36 05	133	"G" cl. sel. 072,073,074,075,076,080,087	2.60mm	180 32 05
117	Band servo pin selective shim plate	3.00mm	157 36 06	133	"G" cl. sel. 072,073,074,075,076,080,087	2.40mm	180 32 07
				133	"G" cl. sel. 073,075,076,080,087	2.20mm	180 32 09
117	Band servo pin selective shim plate	2.75mm	157 36 07	133	"G" cl. sel. 073,075,076,080,087	2.00mm	180 32 11
117	Band servo pin selective shim plate	2.50mm	157 36 08	133	"G" cl. sel. 073,075,076,080,087	1.80mm	180 32 13
117	Band servo pin selective shim plate	2.25mm	157 36 09				
117	Band servo pin selective shim plate	2.00mm	157 36 10	132	"G" clutch diaphragm		157 32 12
117	Band servo pin selective shim plate	1.75mm	157 36 11				
117	Band servo pin selective shim plate	1.50mm	157 36 12	135	"F" clutch selective	2.60mm	180 32 05
				135	"F" clutch selective	2.40mm	180 32 07
	End float shim	0.80mm	157 36 13	135	"F" clutch selective	2.20mm	180 32 09
	End float shim	1.00mm	157 36 14	135	"F" clutch selective	2.00mm	180 32 11
	End float shim	1.20mm	157 36 15				
	End float shim	1.40mm	157 36 16	135	"F" clutch selective	1.80mm	180 32 13
	End float shim	1.60mm	157 36 17	135	"F" clutch selective	1.60mm	180 32 15
	End float shim	1.80mm	157 36 18	135	"F" clutch selective	1.40mm	180 32 17
				135	"F" clutch selective	1.20mm	180 32 19
	End float shim	2.00mm	157 36 19				
	End float shim	2.20mm	157 36 20	134	"F" clutch		157 32 17
	End float shim	2.40mm	157 36 21	136	Output ring gear carrier		157 32 13
	End float shim	2.60mm	157 36 22	137	Park lock wheel		157 32 15
	End float shim	2.80mm	157 36 23	138	Rear roller bearing		157 32 16
				139	Servo cover		180 32 29
	CIRCLIPS				HARD PARTS		
125	"C" clutch selective	2.50mm	157 32 01	140	Pump		157 38 01
125	"C" clutch selective	2.30mm	157 32 02	141	Inter. plate & stator support	072, 074	157 39 01
125	"C" clutch selective	2.10mm	157 32 03	141	Inter. plate & stat. support 073, 075, 076, 080, 087		157 39 02
125	"C" clutch selective	1.90mm	183 32 15	NI	Cylindrical pin dowel		180 29 14
125	"C" clutch selective	1.70mm	183 32 16	NI	Countersunk stator screw 6mm		157 37 04
				NI	"D" clutch torx screw		157 37 02
125	"C" clutch selective	1.50mm	137 32 01				
125	"C" clutch selective	1.30mm	183 32 14	142	"C" clutch piston		157 45 03
125	"C" clutch selective	1.10mm	183 32 13	145	"B" clutch freewheel		157 44 01
125	"C" clutch selective	0.90mm	183 32 12	146	"B" clutch cyl.	072, 073, 074, 075, 076, 080	157 29 01
				146	"B" clutch cyl.	087	157 29 02
126	"B" clutch		183 32 07	147	"B" clutch intermediate ring		183 29 17
127	"A" clutch diaphragm		157 32 14				
				148	"B" clutch piston	072, 073, 074, 075, 076, 080	157 45 04
128	"A" clutch selective	2.80mm	183 32 01	148	"B" clutch piston	087	183 45 10
128	"A" clutch selective	2.60mm	157 32 02	149	"B" clutch diaphragm retainers (pair)		157 29 03
128	"A" clutch selective	2.40mm	183 32 03				
128	"A" clutch selective	2.20mm	183 32 04	150	"A" clutch cyl.	072, 074	157 29 04
128	"A" clutch selective	2.00mm	183 32 05	150	"A" clutch cyl.	073, 075, 080	157 29 05
				150	"A" clutch cyl.	076	157 29 06
				150	"A" clutch cyl.	087	157 29 07
				151	"A" clutch piston		157 45 05
				152	"A" clutch oil dam		157 45 06
				155	"E" clutch cyl. & input shaft		157 29 08
				156	"E" clutch piston (4 plate)	072, 074	157 45 07



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Illus	Description	Part No.	Illus	Description	Part No
156	"E" clutch piston (5 plate) 073, 075, 076, 080, 087	157 45 08	TORQUE CONVERTERS		
157	"E" clutch diaphragm retainers (pair)	157 29 09		BMW 2.0i	157 30 01
				BMW2.5i	157 30 02
160	Intermediate shaft 072, 073, 074, 075, 076, 080	157 29 10		BMW 530i & 730i	157 30 03
160	Intermediate shaft 087	157 29 13		BMW 525 TDi	157 30 04
161	Sun gear shaft & hub	157 65 01		BMW 520 Code 074	157 30 07
162	Shell 072, 073, 074, 075, 076, 080	157 29 11		Codes 060, 063, 067, 068, 071, 073, 075, 078, 080,	
162	Shell 087	157 65 03		082, 085,	157 30 02
				Codes 087	157 30 03
163	Sun gear 072, 073, 074, 075, 076, 080	157 65 02		Codes 076, 086, 093	157 30 04
163	Sun gear 087	157 65 03		Codes 081	157 30 05
164	Front gearset	157 66 01		Codes 088, 092	157 30 06
165	Front gearset ring gear	157 29 14		Codes 064, 066, 070, 072, 074,	157 30 07
166	Front gearset ring gear shaft	157 29 15		Codes 090, 096	157 30 08
				Codes 091,	157 30 10
167	Front gearset bell	157 29 16		Codes 102	157 30 12
170	Brake carrier	157 29 17		Codes 099, 104	157 30 13
171	Brake freewheel	157 44 02			
172	"D" clutch piston	157 45 09			
173	"D" / "G" clutch cyl. 072, 074 (5 plate)	157 29 18			
173	"D" / "G" clutch cyl. 073, 075, 076, 080, 087 (6 plate)	157 29 19			
175	"F" clutch cyl. (4 plate)	157 29 20			
175	"F" clutch cyl. (5 plate)	157 29 21			
175	"F" clutch cyl. diaphragm retainer (pair)	157 29 22			
180	Rear gearset ring gear carrier	157 29 23			
181	Rear gearset ring gear	157 29 24			
182	Rear gearset & output shaft	157 66 02			
183	Rear sun gear	157 65 04			
184	Park lock wheel	157 29 25			
185	Output shaft lock nut	157 37 03			
186	Output shaft roller bearing	157 46 01			
187	Extension housing	157 54 01			
188	Output flange 072, 074	157 57 01			
188	Output flange 073, 075, 076, 087	157 57 02			
188	Output flange 080	157 57 03			
190	Main case 072, 073, 074, 075, 080	157 53 01			
190	Main case 076	157 53 02			
190	Main case 087	157 53 03			
191	Servo spring large	180 24 08			
192	Servo spring small	180 24 09			
193	Servo rod	157 29 26			
194	Servo spring belville (2)	180 24 11			
195	Servo piston	157 45 10			
196	Servo pin locking washer	183 37 23			
197	Servo cover	157 45 11			
198	Sump pan	157 56 01			
NI	Park pawl	157 29 27			
NI	Park pawl spring	157 24 06			
NI	Detent spring	157 29 28			
NI	Selector shaft	157 29 29			
NI	Detent rod and spring	157 29 30			
NI	Quadrant	157 29 31			
	Valve body restrictor orifices 1.00mm	157 62 01			
	Valve body restrictor orifices 1.20mm	157 62 02			
	Valve body restrictor orifices 1.70mm	157 62 03			
	Valve body restrictor orifices 1.90mm	157 62 04			
	Valve body restrictor orifices 2.50mm	157 62 05			
	2/3 Traction valve spring	157 62 06			
	ELECTRICAL				
NI	Wiring harness	157 35 01			
NI	Solenoid (1)	157 35 02			
NI	Solenoid (5)	157 35 03			
NI	Transducer (valve body) (2)	157 35 04			

