

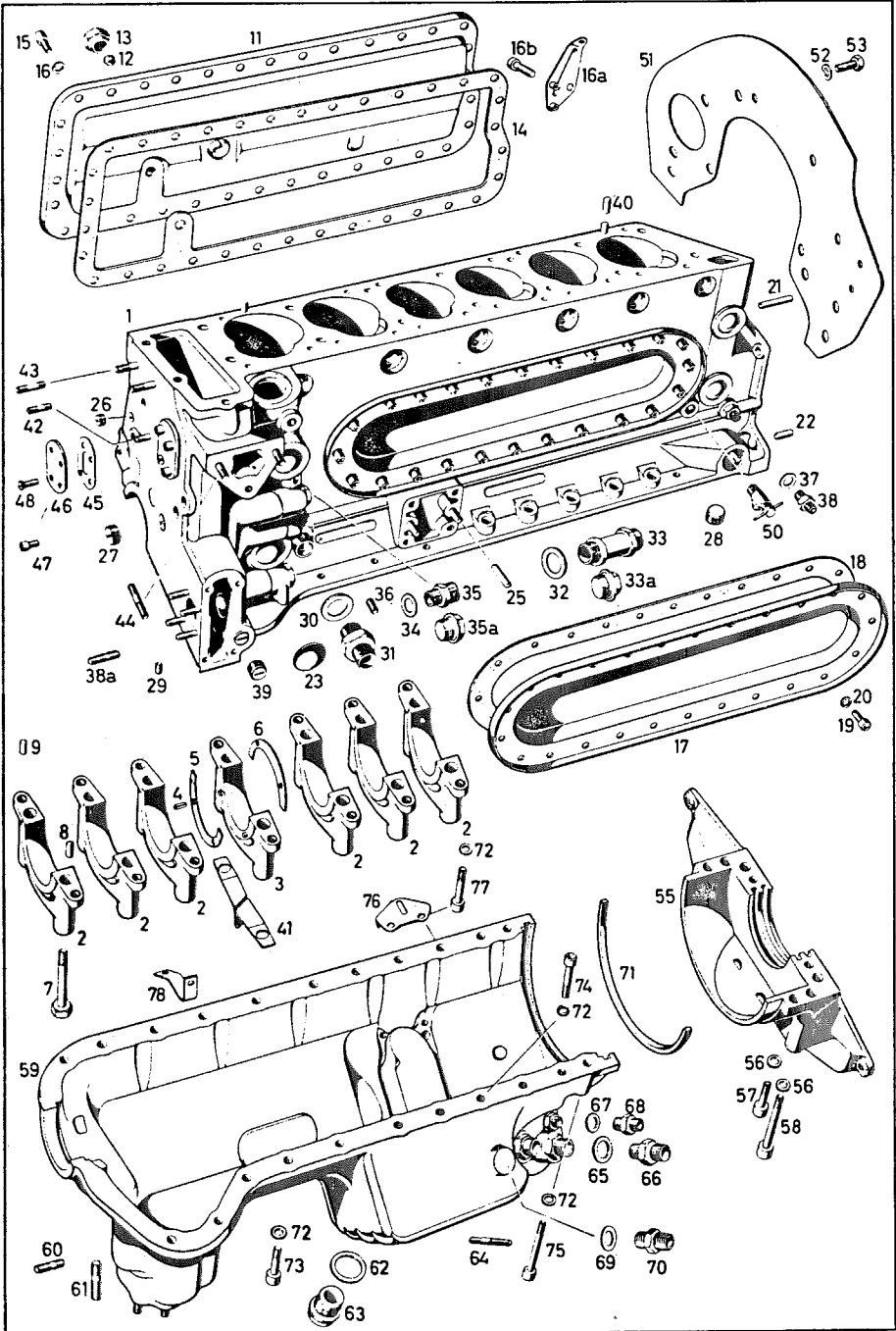


Table 1

Engine Housing

Group U1

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
Engine				
—	198 010 00 00	Engine complete (without clutch, transmission, starter motor, and suction noise damper)	1	
—	198 010 02 00	Engine complete (without clutch, transmissison, starter motor, and suction noise damper)	1	with sport camshaft
Cylinder Crankcase				
—	198 010 03 08	replaced by together with 1 support 1 washer 10.5 DIN 125 1 hex.-hd. screw M 10×30 DIN 931-10 K	198 010 08 08 198 150 03 70	— up to engine No. 55 00683
1	198 010 08 08	Cylinder crankcase with outer pressure oil pump	1	from engine No. 55 00684
2	186 011 03 11	Crankshaft bearing cap (for crankshaft bearing 1., 2., 3., 5., 6., and 7.)	6	
3	188 010 00 23	Crankshaft bearing cap with tightening pin (for crankshaft bearing No. 4, flanged bearing)	1	
4	121 991 00 41	Pin	4	
5	186 011 00 52	Guard plate half 2 mm thick (standard)	2	
—	186 011 01 52	Guard plate half 2.05 mm thick	2	
—	186 011 02 52	Guard plate half 2.10 mm thick	2	at flanged bearing, crankshaft bearing cap
—	186 011 03 52	Guard plate half 2.20 mm thick	2	
—	186 011 04 52	Guard plate half 2.30 mm thick	2	

Table 1

Engine Housing

Group U1

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
Engine				
—	198 010 00 00	Engine complete (without clutch, transmission, starter motor, and suction noise damper)	1	
—	198 010 02 00	Engine complete (without clutch, transmissison, starter motor, and suction noise damper)	1	with sport camshaft
Cylinder Crankcase				
—	198 010 03 08	replaced by together with 1 support 1 washer 10.5 DIN 125 1 hex.-hd. screw M 10×30 DIN 931-10 K	198 010 08 08 198 150 03 70	— up to engine No. 55 00683
1	198 010 08 08	Cylinder crankcase with outer pressure oil pump	1	from engine No. 55 00684
2	186 011 03 11	Crankshaft bearing cap (for crankshaft bearing 1., 2., 3., 5., 6., and 7.)	6	
3	188 010 00 23	Crankshaft bearing cap with tightening pin (for crankshaft bearing No. 4, flanged bearing)	1	
4	121 991 00 41	Pin	4	
5	186 011 00 52	Guard plate half 2 mm thick (standard)	2	
—	186 011 01 52	Guard plate half 2.05 mm thick	2	
—	186 011 02 52	Guard plate half 2.10 mm thick	2	at flanged bearing, crankshaft bearing cap
—	186 011 03 52	Guard plate half 2.20 mm thick	2	
—	186 011 04 52	Guard plate half 2.30 mm thick	2	

Table 1

Engine Housing

Group 01

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
—	186 011 05 52	Guard plate half 2.40 mm thick	2	} at flanged bearing, crankshaft bearing cap
—	186 011 06 52	Guard plate half 2.50 mm thick	2	
6	198 011 01 52	Guard plate half 2.00 mm thick (standard)	1	} upper flanged bearing, rear
—	198 011 02 52	Guard plate half 2.05 mm thick	1	
—	198 011 03 52	Guard plate half 2.10 mm thick	1	
—	198 011 04 52	Guard plate half 2.20 mm thick	1	
—	198 011 05 52	Guard plate half 2.30 mm thick	1	
—	198 011 06 52	Guard plate half 2.40 mm thick	1	
—	198 011 07 52	Guard plate half 2.50 mm thick	1	
7	—	Hex.-hd. screw M 12×75 DIN 931-10 K	14	} for crankshaft bearing cap at cylinder crankcase
8	—	Cylindrical pin 10 m6×16 DIN 7 spher. head	7	
9	—	Cylindrical pin 8 m6×16 DIN 7 spher. head	7	
—	121 991 00 41	Pin (for guard plate half, top)	2	see fig. No. 4
11	186 010 11 10	Cylinder head cover (at starter side)	1	
12	—	Sealing cone 10 DIN 7610	1	} for locking of nipple in cylinder head cover
13	—	Box nut 10 M 18×1.5 DIN 7607	1	
14	199 015 00 21	Gasket (for cylinder head cover at cylinder crankcase)	1	

Table 1

Engine Housing

Group 01

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
15	—	Hex.-hd. socket screw M 6×12 DIN 912-8G	34 32	for cylinder head cover at cylinder crankcase from eng. No. 55 00154 up to eng. No. 55 00153
16	180 990 10 40	Washer	31	
16a	198 180 00 40	Holder (for underpressure and oil pressure gauge)	1	from engine No. 55 00154
16b	—	Hex.-hd. socket screw M 6×22 DIN 912-8 G (for holder at cylinder head cover)	2	from engine No. 55 00154
17	198 015 01 05	Cylinder head cover (at spark plug side)	1	
18	198 015 01 80	Gasket	1	for cylinder head cover (spark plug side) at cylinder crankcase
19	—	Hex.-hd. socket screw M 6×12 DIN 912-8 G	24	
20	180 990 10 40	Washer	24	
21	186 991 07 01	Cylindrical pin	1	for intermed. plate at cylinder crankcase
22	186 991 08 01	Cylindrical pin	1	
23	—	Cover plate B 30 N 59a (for core hole, lateral in cylinder crankcase)	4	
25	—	Cylindrical pin 8 m6×16 DIN 7 spher. head (for bearing bracket to fasten injection pump)	2	
26	000 997 06 32	Locking screw	2	for locking of oil port, front and rear
27	186 997 01 03	Slotted plug	1	
28	—	Locking screw M 12×1.5 DIN 906-4D	1	for lock. of oil port, bottom
29	000 997 04 01	Core plug	1	
30	—	Seal D 22×27 DIN 7603-AI	1	for connection of oil line from filter to engine
31	—	Double nipple 13 DIN 7611	1	
32	—	Seal D 22×27 DIN 7603-AI	1	for con- nect. of oil line from oil tank
33	198 997 04 72	Screwed nipple	1	

Table 1

Engine Housing

Group 01

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
33a	—	Locking screw AM 22×1.5 DIN 7604	1	from engine No. 65 00073 for connection of oil line from oil tank
34	—	Seal D 18×22 DIN 7603-Al	1	for connec- tion of oil line to filter
35	—	Screwed nipple 13 DIN 7627	1	
—	198 997 07 72	Screwed nipple	1	
35a	—	Locking screw AM 18×1.5 DIN 7604	1	
36	—	Plug M 6×12 SK 6 N 85a Al (for locking of lateral oil port)	1	
37	—	Seal A 10×14 DIN 7603-Al	1	} for connection of oil pressure gauge
38	181 990 01 68	Screwed nipple	1	
38a	—	Stud bolt M 6×15 DIN 939-5 S (for mounting of pressure oil pump)	4	from engine No. 65 00073
39	—	Slotted plug M 18×1.5 SK 6 DIN 71022-4 S (for locking of lateral oil port)	1	
40	—	Dowel pin 10×16 N 37b (for cylinder head at cylinder crankcase)	2	
41	186 186 05 40	Bracket (for intake tube at oil pump)	1	
42	—	Stud bolt M 8×18 DIN 939-5 S	1	} for fan bearing bracket at cylinder crankcase
43	—	Stud bolt M 8×28 DIN 939-5 S	2	
44	—	Stud bolt M 10×20 DIN 835-5 S (for front engine support, top, at injection pump, nozzle side)	2	
45	186 011 00 80	Gasket	1	
46	198 011 00 33	Cover (for intermediate gear)	1	} for locking cover at cylinder crankcase
47	—	Hex.-hd. socket screw M 6×12 DIN 912-8 G	3	

Table 1

Engine Housing

Group 01

Fig. No.	No. of spare part	Denomination	Quantity	Remarks	
48	—	Countersunk lens-hd. screw AM 6×12 DIN 91-4 S	1	for locking cover at cylinder crankcase	
—	198 070 01 24	Bearing support	1	} see also group 07	
—	—	Washer 8.4 DIN 433	4		
—	—	Hex.-hd. socket screw M 8×25 DIN 912-8 G	4		
50	—	Drain valve CM 14×1.5 K DIN 71401	1		
51	198 011 00 05	Intermediate plate (between cylinder crankcase and transmission)	1		
52	—	Lock washer B 10 DIN 137	2	} for intermediate plate at cylinder crankcase	
53	—	Hex.-hd. screw M 10×15 DIN 933-8 G	2		
Oil Pan					
55	198 014 01 02	Oil pan, rear part	1	up to engine No. 65 00090 2 hex.-hd. socket screws M 8×35 DIN 912-8 G must also be supplied	
56	—	Washer 8.4 DIN 433	6	} for oil pan rear part at cylinder crankcase	
—	—	Hex.-hd. socket screw M 8×20 DIN 912-8 G	2		
57	—	Hex.-hd. socket screw M 8×35 DIN 912-8 G	2		
58	—	Hex.-hd. socket screw M 8×70 DIN 912-8 G	4		
—	198 010 00 13	replaced by together with 1 connect. nipple 1 seal D 18×22 DIN 7603 Al 1 screwed nipple 13 DIN 7627 1 gasket 2 washers 8.4 DIN 125 2 hex. nuts	198 010 06 13 198 184 04 17 198 181 00 80 000 990 08 51	—	up to engine No. 45 00108
—	198 010 02 13	replaced by together with 1 connect. nipple 1 gasket 2 washers 8.4 DIN 125 2 hex. nuts	198 010 06 13 198 184 04 17 198 181 00 80 000 990 08 51	—	from engine No. 45 00109 to 55 00790

Table 1

Engine Housing

Group 01

Fig. No.	No. of spare part	Denomination	Quantity	Remarks	
48	—	Countersunk lens-hd. screw AM 6×12 DIN 91-4 S	1	for locking cover at cylinder crankcase	
—	198 070 01 24	Bearing support	1	} see also group 07	
—	—	Washer 8.4 DIN 433	4		
—	—	Hex.-hd. socket screw M 8×25 DIN 912-8 G	4		
50	—	Drain valve CM 14×1.5 K DIN 71401	1		
51	198 011 00 05	Intermediate plate (between cylinder crankcase and transmission)	1		
52	—	Lock washer B 10 DIN 137	2	} for intermediate plate at cylinder crankcase	
53	—	Hex.-hd. screw M 10×15 DIN 933-8 G	2		
Oil Pan					
55	198 014 01 02	Oil pan, rear part	1	up to engine No. 65 00090 2 hex.-hd. socket screws M 8×35 DIN 912-8 G must also be supplied	
56	—	Washer 8.4 DIN 433	6	} for oil pan rear part at cylinder crankcase	
—	—	Hex.-hd. socket screw M 8×20 DIN 912-8 G	2		
57	—	Hex.-hd. socket screw M 8×35 DIN 912-8 G	2		
58	—	Hex.-hd. socket screw M 8×70 DIN 912-8 G	4		
—	198 010 00 13	replaced by together with 1 connect. nipple 1 seal D 18×22 DIN 7603 Al 1 screwed nipple 13 DIN 7627 1 gasket 2 washers 8.4 DIN 125 2 hex. nuts	198 010 06 13 198 184 04 17 198 181 00 80 000 990 08 51	—	up to engine No. 45 00108
—	198 010 02 13	replaced by together with 1 connect. nipple 1 gasket 2 washers 8.4 DIN 125 2 hex. nuts	198 010 06 13 198 184 04 17 198 181 00 80 000 990 08 51	—	from engine No. 45 00109 to 55 00790

Table 1

Engine Housing

Group 01

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
59	198 010 06 13	Oil pan	1	from eng. No. 55 00791
60	—	Stud bolt M 6×15 DIN 835-5 S	3	up to eng. No. 45 00108
—	—	Stud bolt M 6×18 DIN 939-5 S	1	from eng. No. 45 00109
—	—	Stud bolt M 6×18 DIN 939-5 S	2	from eng. No. 45 00109 to 55 00790
61	—	Stud bolt M 8×20 DIN 939-5 S	2	from eng. No. 55 00791
62	—	Seal C 26×32 DIN 7603 Cu-Asb	1	} for locking screw at oil pan
63	136 997 12 30	Locking screw	1	
64	—	Stud bolt M 8×25 DIN 835-5 S (for fastening of filter element)	4	
65	—	Seal D 22×27 DIN 7603-Al	2	} for connection of oil pump to oil filter and from oil filter to engine
66	—	Double nipple 13 DIN 7611	2	
67	—	Seal D 8×12 DIN 7603-Al	1	} connection for injection pump
68	—	Screwed nipple 3 DIN 7627	1	
69	—	Seal D 16×20 DIN 7603-Al	1	} for connection of bleeder line from oil tank to engine No. 45 00108
70	—	Screwed nipple 8 DIN 7627	1	
71	186 014 01 80	Gasket	1	} for oil pan, front part, at cylinder crankcase
72	—	Washer 8.4 DIN 433	24	
73	—	Hex.-hd. socket screw M 8×20 DIN 912-8 G	14	
—	—	Hex.-hd. socket screw M 8×25 DIN 912-8 G (for suction tube support at oil pan)	1	
74	—	Hex.-hd. socket screw M 8×35 DIN 912-8 G	5	
75	—	Hex.-hd. socket screw M 8×60 DIN 912-8 G	2	
76	198 142 00 40	Bracket (for exhaust manifold, rear)	1	} for rear support of exhaust manifold at oil pan (is to be mount- ed to oil pan flange prior to installation of breather housing)
77	—	Hex.-hd. socket screw M 8×25 DIN 912-8 G	2	
78	198 203 01 40	Bracket (for cooling water pipe, bottom)	1	

Table 2

Engine Housing

Group 01

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
Cylinder Head				
—	199 010 06 20	Cylinder head with valves and camshaft	1	
85	198 010 03 20	Cylinder head with camshaft bearing, stud bolts, and valve guides	1	
86	199 053 02 31	Valve seat ring	6	
—	199 053 03 31	Valve seat ring (external dia. = 1.1 mm larger)	6	for repairs
87	199 053 02 32	Valve seat ring	6	
—	199 053 03 32	Valve seat ring (external dia. = 1.1 mm larger)	6	for repairs
88	186 997 01 30	Locking screw	3	for locking of core hole
89	—	Seal A 24×32 DIN 7603-A1	3	
90	199 016 00 60	Distributing fitting	6	
91	199 016 01 60	Distributing fitting	5	
92	—	Dowel pin 8×12 N 37b (for camshaft bearing at cylinder head)	8	
93	186 050 00 97	Set of camshaft bearings (finished)	1	standard
94	186 051 06 10	First camshaft bearing (crank side) Interior dia. 35 mm	1	
95	186 051 08 12	Second and third camshaft bearing Interior dia. 49 mm	2	
96	186 051 10 16	Fourth camshaft bearing (flywheel side) Interior dia. 50 mm	1	
—	186 050 02 97	Set of camshaft bearings (interior dia. 0.1 mm smaller)	1	repair size 0

Table 2

Engine Housing

Group 01

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
—	186 051 08 10	First camshaft bearing (crank side) Interior dia. 34.9 mm	1	} repair size 0
—	186 051 10 12	Second and third camshaft bearing Interior dia. 48.9 mm	2	
—	186 051 12 16	Fourth camshaft bearing Interior dia. 49.9 mm	1	
—	186 050 01 97	Set of camshaft bearings (interior dia. 0.25 mm smaller)	1	} repair size 1
—	186 051 07 10	First camshaft bearing (crank side) Interior dia. 34.75 mm	1	
—	186 051 09 12	Second and third camshaft bearing (interior dia. 48.75 mm)	2	
—	186 051 11 16	Fourth camshaft bearing (interior dia. 49.75 mm)	1	} for camshaft bearing at cylinder head
97	—	Washer 10.5 DIN 433	4	
98	—	Hex.-hd. socket screw M 10×30 DIN 912-8 G	1	
99	—	Hex.-hd. socket screw M 10×55 DIN 912-8 G	3	
100	—	Stud bolt M 10×60 DIN 835-5 S (for intake and exhaust pipe at cylinder head)	6	} see also group 05
101	—	Stud bolt M 10×32 DIN 835-5 S (for exhaust pipe and chain tightener at cylinder head)	3	
102	—	Stud bolt M 8×42 DIN 835-5 S (for cooling water drain pipe)	4	
—	186 053 03 29	Valve guide, intake	6	} see also group 05
—	186 053 04 30	Valve guide, exhaust	6	
103	198 016 02 20	Cylinder head gasket	1	} for cylinder head at cylinder crankcase
105	186 990 09 40	Washer	14	
106	—	Washer 8.4 DIN 125	3	

Table 2

Engine Housing

Group 01

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
107	—	Hex.-hd. socket screw M 12×105 DIN 912-12 K	7	for cylinder head at cylinder crankcase
108	—	Hex.-hd. socket screw M 12×140 DIN 912-12 K	3	
109	—	Hex.-hd. socket screw M 12×160 DIN 912-12 K	4	
110	—	Hex.-hd. socket screw M 8×45 DIN 912-8 G	2	
111	—	Hex.-hd. socket screw M 8×80 DIN 912-8 G	1	
Cylinder Head Cover				
115	198 010 00 30	Cylinder head cover	1	for tightening screw at cylinder head cover
116	186 997 04 40	Seal	1	
117	186 010 00 94	Tightening screw (for cylinder head cover)	3	
118	—	Seal A 8×14 DIN 7603-AI	3	
119	—	Lock washer 6 DIN 6799	3	
120	186 016 04 30	Pipe (for breather)	1	for breather pipe at cylinder head cover
121	186 991 36 40	Spacer sleeve	3	
122	—	Hex.-hd. screw M 6×40 DIN 931-8 G	3	
123	—	Spring washer B 6 DIN 137	3	
124	—	Seal A 16×22 DIN 7603 AI	1	
125	198 016 00 29	Screwed nipple	1	for connection of breather pipe at cylinder head cover
126	186 016 00 80	Gasket (for cylinder head cover)	1	
127	—	Stud bolt M 6×12 DIN 835-5 S (for mounting of ignition cable tube)	2	
128	198 010 00 70	Breather	1	
129	—	Stud bolt M 6×15 DIN 835-5 S	2	

Table 2

Engine Housing

Group 01

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
107	—	Hex.-hd. socket screw M 12×105 DIN 912-12 K	7	for cylinder head at cylinder crankcase
108	—	Hex.-hd. socket screw M 12×140 DIN 912-12 K	3	
109	—	Hex.-hd. socket screw M 12×160 DIN 912-12 K	4	
110	—	Hex.-hd. socket screw M 8×45 DIN 912-8 G	2	
111	—	Hex.-hd. socket screw M 8×80 DIN 912-8 G	1	
Cylinder Head Cover				
115	198 010 00 30	Cylinder head cover	1	for tightening screw at cylinder head cover
116	186 997 04 40	Seal	1	
117	186 010 00 94	Tightening screw (for cylinder head cover)	3	
118	—	Seal A 8×14 DIN 7603-AI	3	
119	—	Lock washer 6 DIN 6799	3	
120	186 016 04 30	Pipe (for breather)	1	for breather pipe at cylinder head cover
121	186 991 36 40	Spacer sleeve	3	
122	—	Hex.-hd. screw M 6×40 DIN 931-8 G	3	
123	—	Spring washer B 6 DIN 137	3	
124	—	Seal A 16×22 DIN 7603 AI	1	
125	198 016 00 29	Screwed nipple	1	for connection of breather pipe at cylinder head cover
126	186 016 00 80	Gasket (for cylinder head cover)	1	
127	—	Stud bolt M 6×12 DIN 835-5 S (for mounting of ignition cable tube)	2	
128	198 010 00 70	Breather	1	
129	—	Stud bolt M 6×15 DIN 835-5 S	2	

Table 2

Engine Housing

Group 01

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
130	198 018 00 80	Gasket (for breather housing cover)	1	
131	—	Countersunk lens-hd. screw AM 6×20 DIN 7988-4 S	9	
132	198 018 01 80	Gasket	1	upto eng. No. 55 00755
133	198 010 00 77	Oil refuser	2	from eng. No. 55 00756
134	198 010 01 77	Oil drainage pipe	1	from eng. No. 55 00756
135	—	Washer 8.4 DIN 125	4	
136	—	Hex.-hd. screw M 8×75 DIN 931-8 G	4	
137	198 010 00 55	Breather pipe	1	
138	186 997 01 80	Sealing flange	1	
139	186 995 06 44	Clamp	1	
140	—	Lock washer B 6 DIN 127	3	
141	—	Hex. nut M 6 DIN 934-5 S	3	

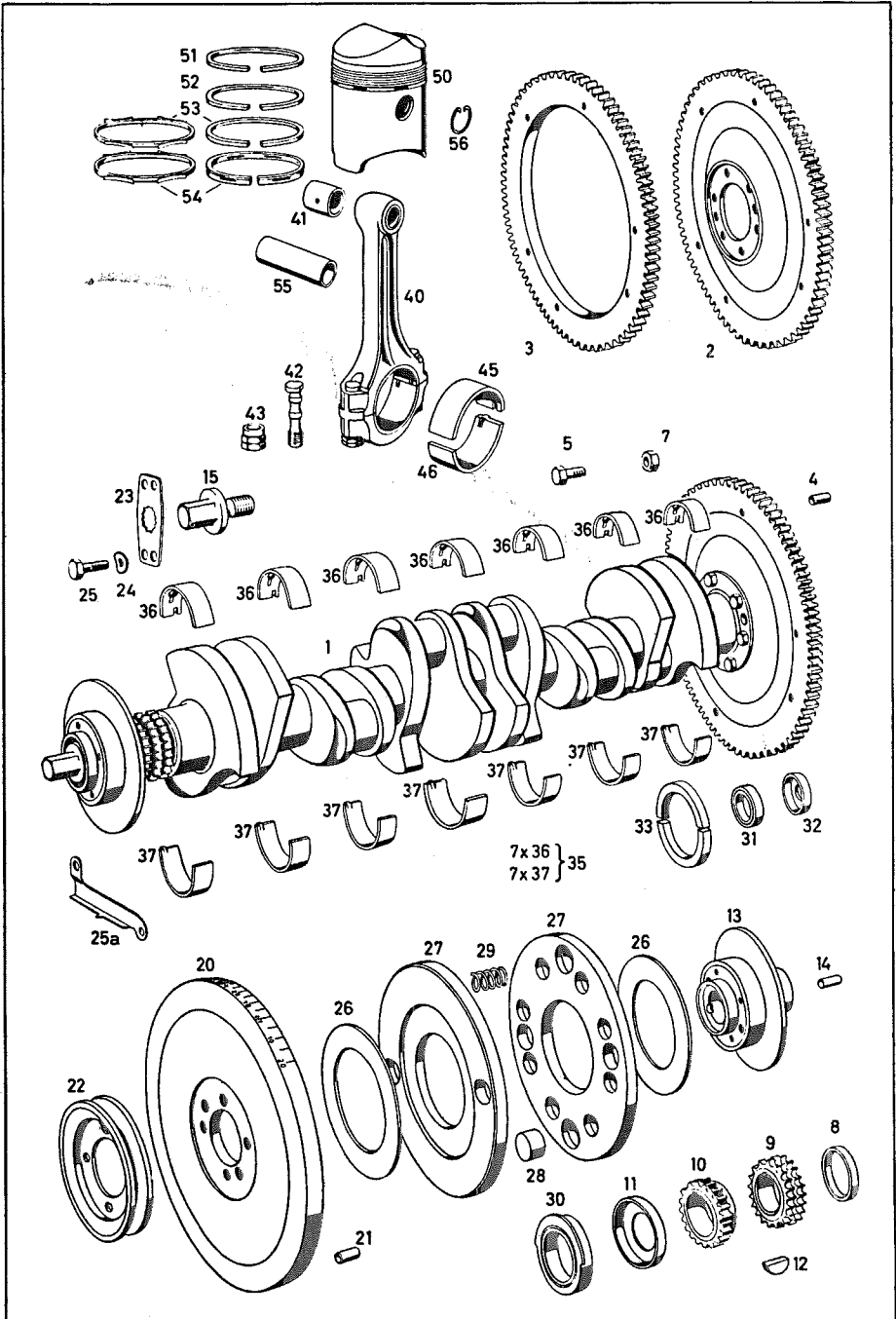


Table 3

Moving Parts

Group 03

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
		Crankshaft		
1	198 030 09 01	Crankshaft with flywheel, collar screw, crankshaft and connecting rod bearing shells without damper plate	1	
2	198 030 00 05	Flywheel with ring gear	1	
3	186 032 00 05	Starter ring gear	1	
4	—	Cylindrical pin 10 h8×14 DIN 7 rounded	2	for flywheel at crankshaft
5	121 031 01 71	Hex.-hd. screw M 10×1	6	
7	188 990 00 51	Hex. nut M 10×1	6	
8	180 031 00 52	Spacer 5.45 mm thick	a.r.	between crankshaft gear and crankshaft
—	180 031 01 52	Spacer 5.60 mm thick	a.r.	
—	180 031 02 52	Spacer 5.75 mm thick	a.r.	
—	180 031 03 52	Spacer 5.90 mm thick	a.r.	
—	180 031 04 52	Spacer 6.05 mm thick	a.r.	
9	180 052 02 03	Crankshaft gear 20 teeth (for chain drive)	1	
10	198 077 00 14	Drive pinion 24 teeth (for injection pump drive)	1	
11	198 031 00 25	Oil slinger ring (at crankshaft)	1	
12	—	Woodruff key 5×9 DIN 6888 (for crankshaft gear at crankshaft)	1	
13	188 030 00 08	Hub with slip ring (for vibration damper)	1	
14	188 991 01 60	Dowel pin (for hub at crankshaft)	2	
15	186 031 02 71	Collar screw (in crankshaft, front, for vibration damper mounting)	1	

Table 3

Moving Parts

Group 03

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
—	188 030 00 97	Set of crankshaft bearing shells Interior dia. 60 mm = standard (ready to be mounted)	1	see also under crankshaft bearing
—	188 038 00 10	Connect. rod bear. shells, upper half Interior dia. 52.00 mm = standard	6	} see also under connecting rod bearing shells
—	188 038 00 11	Connect. rod bear. shells, lower half Interior dia. 52.00 mm = standard	6	
20	186 035 00 03	Damper plate (for vibration damper)	1	
21	—	Cylindrical pin 10 h8×16 DIN 7 rounded	2	
22	188 035 00 12	Pulley	1	
23	188 031 00 73	Locking plate (for collar screw)	1	
24	—	Lock washer B 8 DIN 137	4	} for pulley at vibration damper hub and vibration damper at crankshaft
25	—	Hex.-hd. screw M 8×25 DIN 931-10 K	4	
25a	198 032 00 15	Timing mark	1	from eng. No. 55 00317
26	186 035 00 15	Friction disc	2	} for vibration damper
27	188 035 01 01	Rotating ring	2	
28	186 035 00 81	Rubber damper	2	
29	188 035 00 07	Pressure spring	8	
30	180 031 05 81	Sealing ring (for sealing crankshaft, front)	1	
31	—	Annular grooved bearing 6202 DIN 625	1	} for drive shaft in crankshaft
32	186 031 00 33	End ring	1	
33	—	Oil seal 68×78×5 GL N 255a (for sealing of crankshaft, rear)	2	
Crankshaft Bearing				
35	188 030 00 97	Set of crankshaft bearing shells Interior dia. 60 mm = standard	1	ready for installation

Table 3

Moving Parts

Group 03

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
—	188 030 00 97	Set of crankshaft bearing shells Interior dia. 60 mm = standard (ready to be mounted)	1	see also under crankshaft bearing
—	188 038 00 10	Connect. rod bear. shells, upper half Interior dia. 52.00 mm = standard	6	} see also under connecting rod bearing shells
—	188 038 00 11	Connect. rod bear. shells, lower half Interior dia. 52.00 mm = standard	6	
20	186 035 00 03	Damper plate (for vibration damper)	1	
21	—	Cylindrical pin 10 h8×16 DIN 7 rounded	2	
22	188 035 00 12	Pulley	1	
23	188 031 00 73	Locking plate (for collar screw)	1	
24	—	Lock washer B 8 DIN 137	4	} for pulley at vibration damper hub and vibration damper at crankshaft
25	—	Hex.-hd. screw M 8×25 DIN 931-10 K	4	
25a	198 032 00 15	Timing mark	1	from eng. No. 55 00317
26	186 035 00 15	Friction disc	2	} for vibration damper
27	188 035 01 01	Rotating ring	2	
28	186 035 00 81	Rubber damper	2	
29	188 035 00 07	Pressure spring	8	
30	180 031 05 81	Sealing ring (for sealing crankshaft, front)	1	
31	—	Annular grooved bearing 6202 DIN 625	1	} for drive shaft in crankshaft
32	186 031 00 33	End ring	1	
33	—	Oil seal 68×78×5 GL N 255a (for sealing of crankshaft, rear)	2	
Crankshaft Bearing				
35	188 030 00 97	Set of crankshaft bearing shells Interior dia. 60 mm = standard	1	ready for installation

Table 3

Moving Parts

Group 03

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
36	188 033 00 01	Crankshaft bearing shell, upper half	7	ready for installation
37	188 033 00 02	Crankshaft bearing shell, lower half	7	
—	188 030 01 97	Set of crankshaft bearing shells Interior dia. 59.75 mm = repair size I	1	
—	188 033 01 01	Crankshaft bearing shell, upper half	7	
—	188 033 01 02	Crankshaft bearing shell, lower half	7	
—	188 030 02 97	Set of crankshaft bearing shells Interior dia. 59.50 mm = repair size II	1	
—	188 033 02 01	Crankshaft bearing shell, upper half	7	
—	188 033 02 02	Crankshaft bearing shell, lower half	7	
—	188 030 03 97	Set of crankshaft bearing shells Interior dia. 59.25 mm = repair size III	1	
—	188 033 03 01	Crankshaft bearing shell, upper half	7	
—	188 033 03 02	Crankshaft bearing shell, lower half	7	
—	188 030 04 97	Set of crankshaft bearing shells Interior dia. 59.00 mm = repair size IV	1	
—	188 033 04 01	Crankshaft bearing shell, upper half	7	
—	188 033 04 02	Crankshaft bearing shell, lower half	7	
Connecting Rod				
40	186 030 13 20	Connecting rod with bushing (without bearing)	6	
41	186 038 07 50	Connecting rod bushing	6	
42	186 038 04 71	Connecting rod bolt	12	

Table 3

Moving Parts

Group 03

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
36	188 033 00 01	Crankshaft bearing shell, upper half	7	ready for installation
37	188 033 00 02	Crankshaft bearing shell, lower half	7	
—	188 030 01 97	Set of crankshaft bearing shells Interior dia. 59.75 mm = repair size I	1	
—	188 033 01 01	Crankshaft bearing shell, upper half	7	
—	188 033 01 02	Crankshaft bearing shell, lower half	7	
—	188 030 02 97	Set of crankshaft bearing shells Interior dia. 59.50 mm = repair size II	1	
—	188 033 02 01	Crankshaft bearing shell, upper half	7	
—	188 033 02 02	Crankshaft bearing shell, lower half	7	
—	188 030 03 97	Set of crankshaft bearing shells Interior dia. 59.25 mm = repair size III	1	
—	188 033 03 01	Crankshaft bearing shell, upper half	7	
—	188 033 03 02	Crankshaft bearing shell, lower half	7	
—	188 030 04 97	Set of crankshaft bearing shells Interior dia. 59.00 mm = repair size IV	1	
—	188 033 04 01	Crankshaft bearing shell, upper half	7	
—	188 033 04 02	Crankshaft bearing shell, lower half	7	
Connecting Rod				
40	186 030 13 20	Connecting rod with bushing (without bearing)	6	
41	186 038 07 50	Connecting rod bushing	6	
42	186 038 04 71	Connecting rod bolt	12	

Table 3

Moving Parts

Group 03

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
43	182 038 00 72	Nut	12	for repairs
—	186 038 08 50	Connecting rod bushing (external dia. 28.5 mm)	6	
Connecting Rod Bearing Shells				
45	188 038 00 10	Connect. rod bear. shell, upper half Interior dia. 52.00 mm = standard	6	} ready for installation
—	188 038 01 10	Connect. rod bear. shell, upper half Interior dia. 51.75 mm = repair size I	6	
—	188 038 02 10	Connect. rod bear. shell, upper half Interior dia. 51.50 mm = repair size II	6	
—	188 038 03 10	Connect. rod bear. shell, upper half Interior dia. 51.25 mm = repair size III	6	
—	188 038 04 10	Connect. rod bear. shell, upper half Interior dia. 51.00 mm = repair size IV	6	
46	188 038 00 11	Connect. rod bear. shell, lower half Interior dia. 52.00 mm = standard	6	
—	188 038 01 11	Connect. rod bear. shell, lower half Interior dia. 51.75 mm = repair size I	6	
—	188 038 02 11	Connect. rod bear. shell, lower half Interior dia. 51.50 mm = repair size II	6	
—	188 038 03 11	Connect. rod bear. shell, lower half Interior dia. 51.25 mm = repair size III	6	
—	188 038 04 11	Connect. rod bear. shell, lower half Interior dia. 51.00 mm = repair size IV	6	
Piston				
50	198 030 05 17	Piston with gudgeon pin and rings for cylinder dia. 85.00 mm = stand.	6	} up to eng. No. 55 00414 from eng. No. 55 00415
—	001 037 48 16	Compression ring 2.5 mm high	6	
51	001 037 38 16	Compression ring 2 mm high	6	

Table 3

Moving Parts

Group 03

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
43	182 038 00 72	Nut	12	for repairs
—	186 038 08 50	Connecting rod bushing (external dia. 28.5 mm)	6	
Connecting Rod Bearing Shells				
45	188 038 00 10	Connect. rod bear. shell, upper half Interior dia. 52.00 mm = standard	6	} ready for installation
—	188 038 01 10	Connect. rod bear. shell, upper half Interior dia. 51.75 mm = repair size I	6	
—	188 038 02 10	Connect. rod bear. shell, upper half Interior dia. 51.50 mm = repair size II	6	
—	188 038 03 10	Connect. rod bear. shell, upper half Interior dia. 51.25 mm = repair size III	6	
—	188 038 04 10	Connect. rod bear. shell, upper half Interior dia. 51.00 mm = repair size IV	6	
46	188 038 00 11	Connect. rod bear. shell, lower half Interior dia. 52.00 mm = standard	6	
—	188 038 01 11	Connect. rod bear. shell, lower half Interior dia. 51.75 mm = repair size I	6	
—	188 038 02 11	Connect. rod bear. shell, lower half Interior dia. 51.50 mm = repair size II	6	
—	188 038 03 11	Connect. rod bear. shell, lower half Interior dia. 51.25 mm = repair size III	6	
—	188 038 04 11	Connect. rod bear. shell, lower half Interior dia. 51.00 mm = repair size IV	6	
Piston				
50	198 030 05 17	Piston with gudgeon pin and rings for cylinder dia. 85.00 mm = stand.	6	
—	001 037 48 16	Compression ring 2.5 mm high	6	up to eng. No. 55 00414
51	001 037 38 16	Compression ring 2 mm high	6	from eng. No. 55 00415

Table 3

Moving Parts

Group 03

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
43	182 038 00 72	Nut	12	for repairs
—	186 038 08 50	Connecting rod bushing (external dia. 28.5 mm)	6	
Connecting Rod Bearing Shells				
45	188 038 00 10	Connect. rod bear. shell, upper half Interior dia. 52.00 mm = standard	6	} ready for installation
—	188 038 01 10	Connect. rod bear. shell, upper half Interior dia. 51.75 mm = repair size I	6	
—	188 038 02 10	Connect. rod bear. shell, upper half Interior dia. 51.50 mm = repair size II	6	
—	188 038 03 10	Connect. rod bear. shell, upper half Interior dia. 51.25 mm = repair size III	6	
—	188 038 04 10	Connect. rod bear. shell, upper half Interior dia. 51.00 mm = repair size IV	6	
46	188 038 00 11	Connect. rod bear. shell, lower half Interior dia. 52.00 mm = standard	6	
—	188 038 01 11	Connect. rod bear. shell, lower half Interior dia. 51.75 mm = repair size I	6	
—	188 038 02 11	Connect. rod bear. shell, lower half Interior dia. 51.50 mm = repair size II	6	
—	188 038 03 11	Connect. rod bear. shell, lower half Interior dia. 51.25 mm = repair size III	6	
—	188 038 04 11	Connect. rod bear. shell, lower half Interior dia. 51.00 mm = repair size IV	6	
Piston				
50	198 030 05 17	Piston with gudgeon pin and rings for cylinder dia. 85.00 mm = stand.	6	} up to eng. No. 55 00414 from eng. No. 55 00415
—	001 037 48 16	Compression ring 2.5 mm high	6	
51	001 037 38 16	Compression ring 2 mm high	6	

Table 3

Moving Parts

Group 03

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
52	001 037 43 16	Top ring (Groove II)	6	
53	000 037 00 17	Novix oil scraper ring with expander (Groove III)	6	
54	000 037 29 18	Novix oil scraper ring with expander (Groove IV)	6	
55	198 037 00 20	Gudgeon pin	6	
56	—	Locking wire A 25 DIN 73123	12	
—	198 030 06 17	Piston with gudgeon pin and rings for cylinder dia. 85.25 mm = repair size 0	6	
—	—	Compression ring 10f85.25/77.85 × 2.5 CrS KE 54 N 276 (Groove I)	6	up to engine No. 55 00414
—	001 037 39 16	Compression ring (Groove I)	6	from engine No. 55 00415
—	001 037 44 16	Top ring (Groove II)	6	
—	000 037 11 17	Novix oil scraper ring with expander (Groove III)	6	
—	000 037 69 18	Novix oil scraper ring with expander (Groove IV)	6	
—	198 037 00 20	Gudgeon pin	6	
—	—	Locking wire A 25 DIN 73123	12	
—	198 030 07 17	Piston with gudgeon pin and rings for cylinder dia. 85.50 mm = repair size I	6	
—	—	Compression ring 10f85.50/78.1 × 2.5 CrS KE 54 N 276 (Groove I)	6	up to engine No. 55 00414
—	001 037 40 16	Compression ring (Groove I)	6	from engine No. 55 00415
—	001 037 45 16	Top ring (Groove II)	6	
—	000 037 01 17	Novix oil scraper ring with expander (Nova) (Groove III)	6	

Table 3

Moving Parts

Group 03

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
—	000 037 36 18	Novix oil scraper ring with expander (Groove IV)	6	
—	198 037 00 20	Gudgeon pin	6	
—	—	Locking wire A 25 DIN 73123	12	
—	198 030 08 17	Piston with gudgeon pin and rings for cylinder dia. 86.00 mm = repair size II	6	
—	—	Compression ring 10f86.00/78.6 × 2.5 CrS KE 54 N 276 (Groove I)	6	up to engine No. 55 00414
—	001 037 41 16	Compression ring (Groove I)	6	from engine No. 55 00415
—	001 037 46 16	Top ring (Groove II)	6	
—	000 037 02 17	Novix oil scraper ring with expander (Nova) (Groove III)	6	
—	000 037 37 18	Novix oil scraper ring with expander (Nova) (Groove IV)	6	
—	198 037 00 20	Gudgeon pin	6	
—	—	Locking wire A 25 DIN 73123	12	

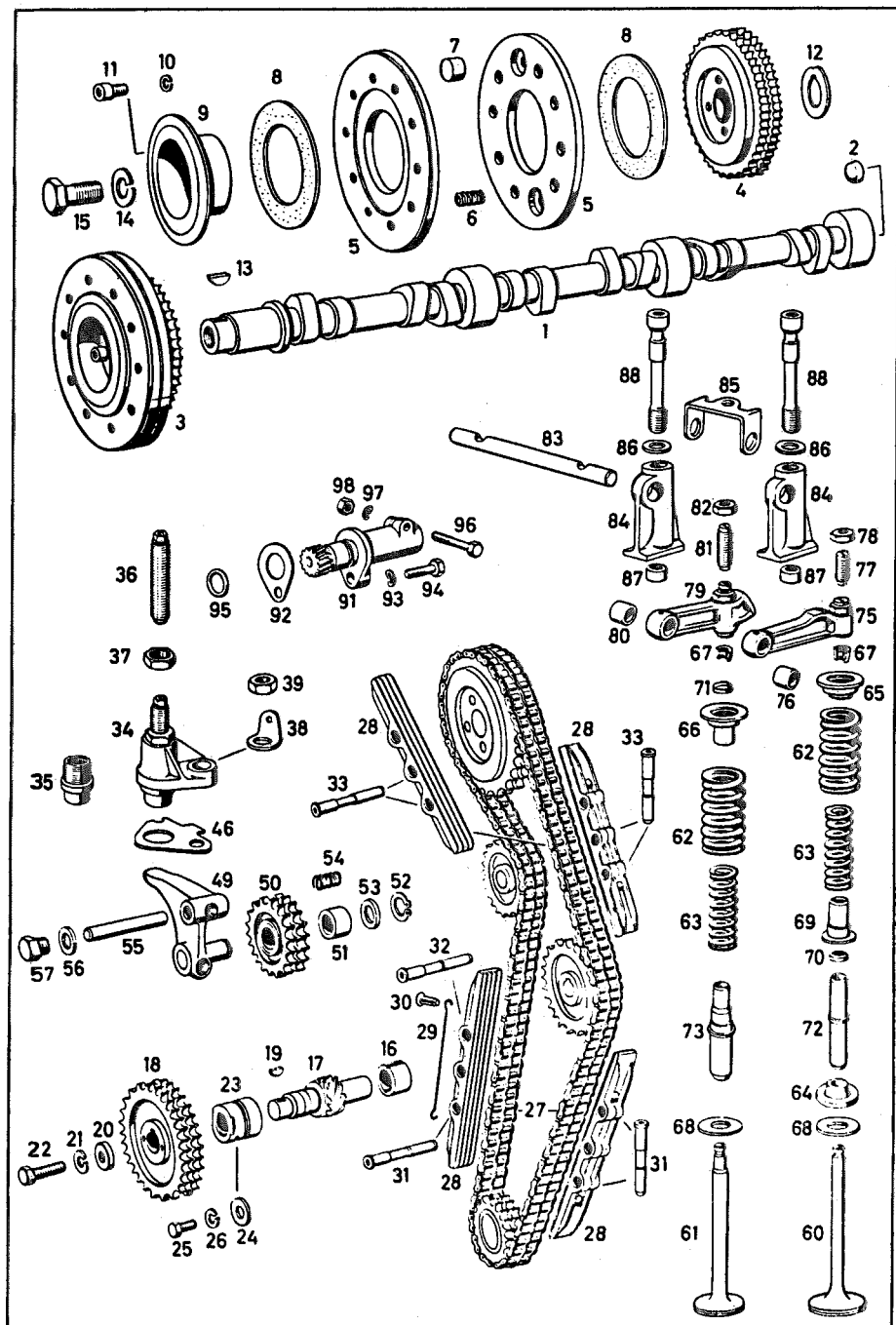


Table 4

Timing

Group 05

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
		Camshaft		
—	198 050 00 01	Camshaft	1	for sportive driving
1	186 050 07 01	Camshaft	1	
2	—	Plug 16 DIN 443	1	
3	186 050 01 82	Vibration damper with camshaft gear (on camshaft)	1	
4	186 052 06 01	Camshaft gear	1	
5	180 051 01 81	Damper plate	2	
6	180 993 02 01	Pressure spring	8	
7	180 051 00 95	Rubber plug	2	
8	180 051 00 86	Friction disc	2	
9	186 051 01 83	Hub	1	
10	—	Lock washer B 6 DIN 127	4	for hub at camshaft gear
11	—	Hex.-hd. socket screw M 6×12 DIN 912-8 G	4	
12	186 052 00 52	Spacer washer 3.00 mm thick	1	for camshaft gear and vibration damper at camshaft
—	186 052 01 52	Spacer washer 2.75 mm thick	1	
—	186 052 02 52	Spacer washer 3.25 mm thick	1	
—	186 052 03 52	Spacer washer 3.50 mm thick	1	
—	186 052 04 52	Spacer washer 2.50 mm thick	1	
13	—	Woodruff key 4×6.5 DIN 6888	1	
14	—	Lock washer B 14 DIN 127	1	
15	—	Hex.-hd. screw M 14×1.5×40 DIN 960-8 G	1	
		Timing Gear		
16	180 052 10 06	Bushing (for intermediate sprocket shaft, rear)	1	

Table 4

Timing

Group 05

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
		Camshaft		
—	198 050 00 01	Camshaft	1	for sportive driving
1	186 050 07 01	Camshaft	1	
2	—	Plug 16 DIN 443	1	
3	186 050 01 82	Vibration damper with camshaft gear (on camshaft)	1	
4	186 052 06 01	Camshaft gear	1	
5	180 051 01 81	Damper plate	2	
6	180 993 02 01	Pressure spring	8	
7	180 051 00 95	Rubber plug	2	
8	180 051 00 86	Friction disc	2	
9	186 051 01 83	Hub	1	
10	—	Lock washer B 6 DIN 127	4	for hub at camshaft gear
11	—	Hex.-hd. socket screw M 6×12 DIN 912-8 G	4	
12	186 052 00 52	Spacer washer 3.00 mm thick	1	for camshaft gear and vibration damper at camshaft
—	186 052 01 52	Spacer washer 2.75 mm thick	1	
—	186 052 02 52	Spacer washer 3.25 mm thick	1	
—	186 052 03 52	Spacer washer 3.50 mm thick	1	
—	186 052 04 52	Spacer washer 2.50 mm thick	1	
13	—	Woodruff key 4×6.5 DIN 6888	1	
14	—	Lock washer B 14 DIN 127	1	
15	—	Hex.-hd. screw M 14×1.5×40 DIN 960-8 G	1	
		Timing Gear		
16	180 052 10 06	Bushing (for intermediate sprocket shaft, rear)	1	

Table 4

Timing

Group 05

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
17	186 050 07 06	Intermediate sprocket shaft with butting ring	1	for intermediate sprocket at intermediate sprocket shaft
18	180 052 03 02	Intermediate sprocket, 30 teeth	1	
19	—	Woodruff key 3 × 3.7 DIN 6888	1	
20	180 990 06 40	Washer	1	
21	—	Lock washer B 8 DIN 127	1	
22	—	Hex.-hd. screw M 8 × 30 DIN 933-8 G	1	for bushing at cylinder crankcase
23	186 052 11 06	Bushing (for intermediate sprocket shaft, front)	1	
24	180 990 01 40	Washer	1	
25	—	Hex.-hd. screw M 6 × 12 DIN 933-8 G	1	
26	—	Lock washer B 6 DIN 127	1	
27	186 052 03 10	Double roller chain (for valve gear)	1	up to eng. No. 45 00006 from eng. No. 45 00007
28	180 050 08 16	Sliding bar with locking wire	4	
29	180 052 00 76	Locking wire, long	4	
30	—	Half round slotted pin 4 × 8 DIN 1476 (for locking wire at sliding bar)	8	
31	186 052 13 74	Bearing pin 58 mm long	3	
32	186 052 14 74	Bearing pin 62 mm long	1	for sliding bar at cylinder crankcase
33	186 052 15 74	Bearing pin 68 mm long (for sliding bar at cylinder head)	4	
34	194 050 00 11	Chain tensioner	1	for chain tensioner at cylinder head
35	194 052 00 33	Threaded bushing	1	
36	194 052 00 71	Adjusting screw	1	
37	194 990 00 51	Hex. nut	1	
38	198 074 00 40	Bracket	1	
39	—	Hex. nut M 10 DIN 934-5 S	1	

Table 4

Timing

Group 05

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
46	186 052 04 80	Gasket	1	for chain tensioner at cylinder head
49	186 050 11 10	Idlersprocket, bracket, with bearing pin	1	
50	180 050 01 09	Idler sprocket with bearing bushing	1	
51	180 052 00 50	Bearing bushing	1	
52	—	Circlip 20×1.2 DIN 471	1	for idler sprocket, bracket and idler sprocket
53	180 990 02 40	Washer	1	
54	186 993 11 01	Pressure spring	1	for idler sprocket at cylinder head
55	186 052 20 74	Bearing pin	1	
56	—	Seal A 12×16 DIN 7603 Al	1	
57	—	Screw plug M 12×1.5 DIN 7604	1	
Valves				
60	199 053 01 01	Intake valve	6	
61	199 053 01 05	Exhaust valve	6	
62	188 053 03 20	Outer valve spring	12	
63	186 053 01 22	Inner valve spring	12	
64	198 053 00 25	Valve spring retainer (for intake inner spring)	6	up to eng. No. 45 00150
65	186 053 03 25	Valve spring retainer (for intake and exhaust)	12	up to eng. No. 45 00035 except of 45 00016, 45 00024, 45 00028, 45 00031, 45 00033, 45 00034
		(for intake)	6	from eng. No. 45 00151
66	186 050 00 23	Valve spring retainer with gasket holder (for intake and exhaust)	12	from eng. No. 45 00036 also installed in: 45 00016, 45 00024, 45 00028, 45 00031, 45 00033, 45 00034, up to eng. No. 45 00150
		(for exhaust)	6	from eng No. 45. 00151

Table 4

Timing

Group 05

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
46	186 052 04 80	Gasket	1	for chain tensioner at cylinder head
49	186 050 11 10	Idlersprocket, bracket, with bearing pin	1	
50	180 050 01 09	Idler sprocket with bearing bushing	1	
51	180 052 00 50	Bearing bushing	1	
52	—	Circlip 20×1.2 DIN 471	1	for idler sprocket, bracket and idler sprocket
53	180 990 02 40	Washer	1	
54	186 993 11 01	Pressure spring	1	for idler sprocket at cylinder head
55	186 052 20 74	Bearing pin	1	
56	—	Seal A 12×16 DIN 7603 Al	1	
57	—	Screw plug M 12×1.5 DIN 7604	1	
Valves				
60	199 053 01 01	Intake valve	6	
61	199 053 01 05	Exhaust valve	6	
62	188 053 03 20	Outer valve spring	12	
63	186 053 01 22	Inner valve spring	12	
64	198 053 00 25	Valve spring retainer (for intake inner spring)	6	up to eng. No. 45 00150
65	186 053 03 25	Valve spring retainer (for intake and exhaust)	12	up to eng. No. 45 00035 except of 45 00016, 45 00024, 45 00028, 45 00031, 45 00033, 45 00034
		(for intake)	6	from eng. No. 45 00151
66	186 050 00 23	Valve spring retainer with gasket holder (for intake and exhaust)	12	from eng. No. 45 00036 also installed in: 45 00016, 45 00024, 45 00028, 45 00031, 45 00033, 45 00034, up to eng. No. 45 00150
		(for exhaust)	6	from eng No. 45. 00151

Table 4

Timing

Group 05

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
67	180 053 01 27	Valve cone half (for intake and exhaust)	24	
68	186 053 02 53	Washer dia. 35.6 (for intake and exhaust)	12	up to eng. No. 45 00035 except of: 45 00016, 45 00024, 45 00028, 45 00031, 45 00033, 45 00034
		(for intake)	6	from eng. No. 45 00036 also installed in: 45 00016, 45 00024, 45 00028, 45 00031, 45 00033, 45 00034 up to engine No. 45 00150
		(for intake and exhaust)	12	from engine No. 45 00151
69	186 053 00 58	Gasket holder (for intake)	6	} from engine No. 45 00151
70	186 053 06 60	Seal (Silicon) (for intake)	6	
—	198 053 00 53	Washer dia. 35.6 (for exhaust)	6	} from eng. No. 45 00036 also installed in: 45 00016, 45 00024, 45 00028, 45 00031, 45 00033, 45 00034 up to engine No. 45 00150
71	180 053 06 60	Seal (for intake and exhaust)	12	
		(for exhaust)	6	from engine No. 45 00151
—	198 053 00 29	Valve guide, intake	6	} up to engine No. 45 00150
—	198 053 01 29	Valve guide, intake, repair size Interior dia. = standard External dia. = 14.20 mm	6	
—	198 053 02 29	Valve guide, intake, repair size Interior dia. = standard External dia. = 14.40 mm	6	
72	186 053 03 29	Valve guide, intake	6	} from engine No. 45 00151
—	186 053 04 29	Valve guide, intake, repair size Interior dia. = standard External dia. = 14.20 mm	6	
—	186 053 05 29	Valve guide, intake, repair size Interior dia. = standard Exterior dia. = 14.40 mm	6	
73	186 053 04 30	Valve guide, exhaust	6	

Table 4

Timing - Engine Speed Drive Pinion Assy.

Group 05/06

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
—	186 053 06 30	Valve guide, exhaust, repair size Interior dia. = standard External dia. = 17.20 mm	6	
—	186 053 08 30	Valve guide, exhaust, repair size Interior dia. = standard Exterior dia. = 17.40 mm	6	
Valve Rocker				
75	186 050 03 33	Valve rocker with bushing (for intake)	6	} for valve rocker support at cylinder head
76	186 055 01 50	Bushing	6	
77	186 055 07 71	Adjusting screw (for valve rocker, intake)	6	
78	153 990 02 51	Hex. nut	6	
79	186 050 03 34	Valve rocker with bushing (for exhaust)	6	
80	186 055 01 50	Bushing	6	
81	186 055 06 71	Adjusting screw (for valve rocker, exhaust)	6	
82	153 990 02 51	Hex. nut	6	
83	186 055 05 05	Valve rocker shaft	3	
84	186 055 05 10	Valve rocker support	6	
85	186 055 01 07	Clamp	6	
86	—	Washer 10.5 DIN 433	6	
87	180 055 01 75	Spacer sleeve	6	
88	186 055 08 71	Necked down bolt	6	
Engine Speed Drive Pinion Assy.				
91	198 060 00 61	Engine speed drive pinion assy.	1	

Table 4

Timing - Engine Speed Drive Pinion Assy.

Group 05/06

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
—	186 053 06 30	Valve guide, exhaust, repair size Interior dia. = standard External dia. = 17.20 mm	6	
—	186 053 08 30	Valve guide, exhaust, repair size Interior dia. = standard Exterior dia. = 17.40 mm	6	
Valve Rocker				
75	186 050 03 33	Valve rocker with bushing (for intake)	6	} for valve rocker support at cylinder head
76	186 055 01 50	Bushing	6	
77	186 055 07 71	Adjusting screw (for valve rocker, intake)	6	
78	153 990 02 51	Hex. nut	6	
79	186 050 03 34	Valve rocker with bushing (for exhaust)	6	
80	186 055 01 50	Bushing	6	
81	186 055 06 71	Adjusting screw (for valve rocker, exhaust)	6	
82	153 990 02 51	Hex. nut	6	
83	186 055 05 05	Valve rocker shaft	3	
84	186 055 05 10	Valve rocker support	6	
85	186 055 01 07	Clamp	6	
86	—	Washer 10.5 DIN 433	6	
87	180 055 01 75	Spacer sleeve	6	
88	186 055 08 71	Necked down bolt	6	
Engine Speed Drive Pinion Assy.				
91	198 060 00 61	Engine speed drive pinion assy.	1	

Table 4

Timing - Engine Speed Drive Pinion Assy.

Group 05/06

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
—	186 053 06 30	Valve guide, exhaust, repair size Interior dia. = standard External dia. = 17.20 mm	6	
—	186 053 08 30	Valve guide, exhaust, repair size Interior dia. = standard Exterior dia. = 17.40 mm	6	
Valve Rocker				
75	186 050 03 33	Valve rocker with bushing (for intake)	6	} for valve rocker support at cylinder head
76	186 055 01 50	Bushing	6	
77	186 055 07 71	Adjusting screw (for valve rocker, intake)	6	
78	153 990 02 51	Hex. nut	6	
79	186 050 03 34	Valve rocker with bushing (for exhaust)	6	
80	186 055 01 50	Bushing	6	
81	186 055 06 71	Adjusting screw (for valve rocker, exhaust)	6	
82	153 990 02 51	Hex. nut	6	
83	186 055 05 05	Valve rocker shaft	3	
84	186 055 05 10	Valve rocker support	6	
85	186 055 01 07	Clamp	6	
86	—	Washer 10.5 DIN 433	6	
87	180 055 01 75	Spacer sleeve	6	
88	186 055 08 71	Necked down bolt	6	
Engine Speed Drive Pinion Assy.				
91	198 060 00 61	Engine speed drive pinion assy.	1	

Table 4

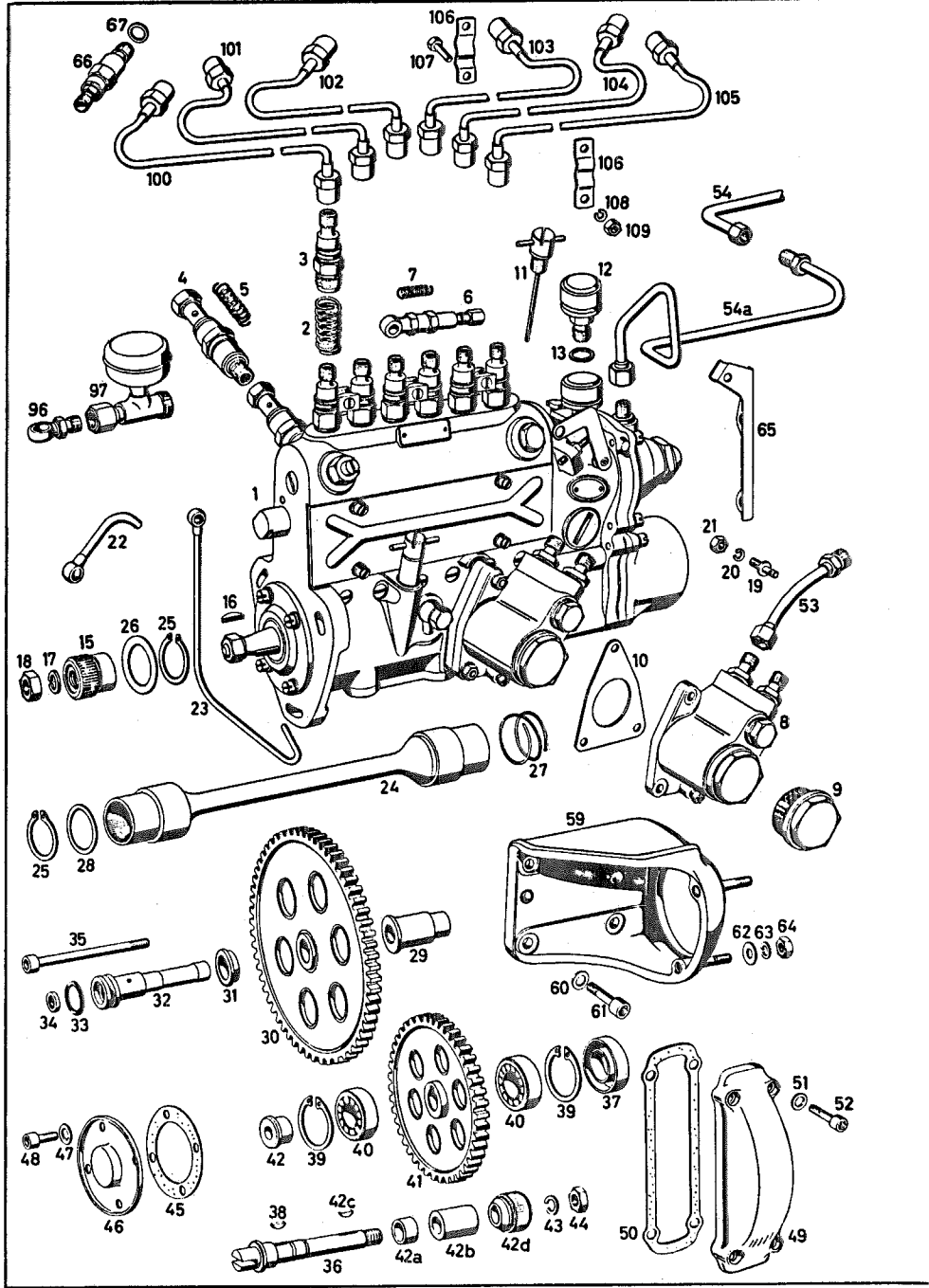
Timing - Engine Speed Drive Pinion Assy.

Group 05/06

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
92	186 064 00 80	Washer	1	for engine speed drive pinion assy. at cylinder crankcase
93	—	Lock washer B 6 DIN 137	1	
94	—	Hex.-hd. screw M 6×22 DIN 931-8 G	1	
95	180 997 00 40	Rubber ring	1	from engine No. 55 00154
96	—	Hex.-hd. screw M 6×30 DIN 931-8 G	1	for mounting connection piece to flexible shaft
97	—	Lock washer B 6 DIN 137	1	
98	—	Hex. nut M 6 DIN 934-5 S	1	

Table 5

Injection Pump



Injection Pump

Group 07

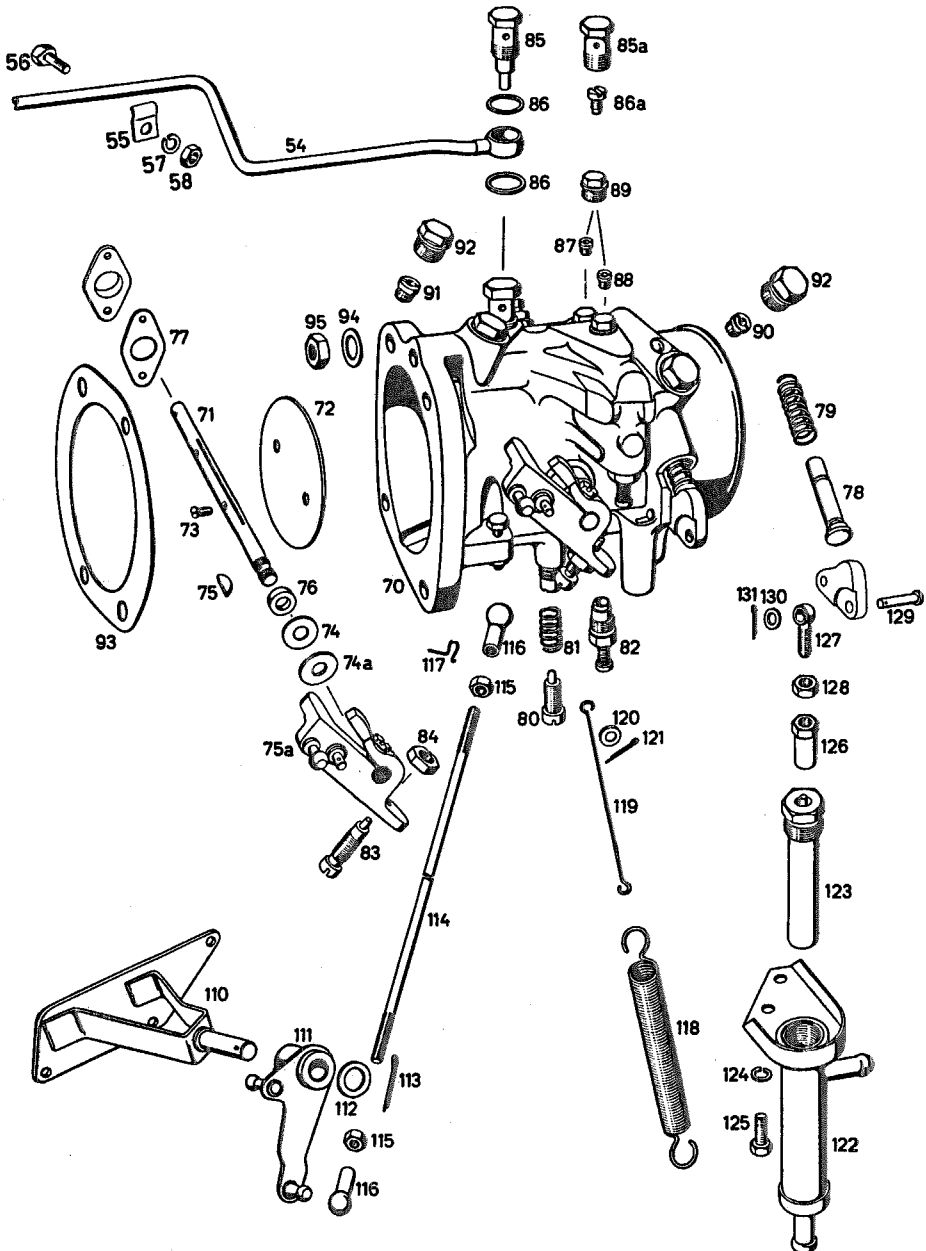


Table 5

Injection Pump

Group 07

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
		Injection Pump		
1	000 074 65 02	Injection pump Bosch No. PES 6 KL 70/320 R 2 with governor EP/ML H 60 K 2 and fuel feed pump FP/KL A 22 K 1 replaced by 001 074 49 01 together with 1 connect. line 198 070 05 32	—	up to engine No. 55 00178
—	001 074 49 01	Injection pump Bosch No. PES 6 KL 70/320 R 3 with membrane governor EP/MLH 60 K 2 and fuel feed pump FPIKLA 22 K 1	1	from engine No. 55 00179
—	001 074 55 01	Injection pump	1	for sports design
2	000 993 64 01	Spring	6	
3	000 078 00 68	Pipe fitting	6	
4	000 074 01 84	Overflow valve	1	
5	000 091 17 15	Valve spring	1	
6	000 074 00 84	Non-return valve	1	
7	000 091 18 15	Valve spring	1	
8	000 091 55 01	Fuel feed pump	1	
9	000 091 04 56	Plug screw	1	
10	000 074 08 45	Adjusting plate 0.3 mm	a.r.	between fuel feed pump and injection pump (for adjusting fuel feed pump) incl. in range of delivery fuel feed pump
—	000 074 09 45	Adjusting plate 0.5 mm	a.r.	
—	000 074 10 45	Adjusting plate 0.7 mm	a.r.	
—	000 074 11 45	Adjusting plate 0.9 mm	a.r.	
—	000 074 12 45	Adjusting plate 1.1 mm	a.r.	
—	000 074 13 45	Intermediate flange	1	between fuel feed pump and injection pump incl. in range of delivery fuel feed pump
11	000 074 12 60	Dip stick	1	

Table 5

Injection Pump

Group 07

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
12	000 075 00 32	Air filter	1	} on governor
13	—	Seal A 12×16 DIN 7603 Cu	1	
15	198 077 00 08	Coupling half (for injection pump drive)	1	
16	—	Woodruff key 3×6.5 DIN 6888	1	} for coupling half at injection pump
17	—	Lock washer B 12 DIN 127	1	
18	—	Hex. nut M 12 DIN 934-5 S	1	
19	198 074 00 74	Pin	1	} for connecting starting device to injection pump
20	—	Lock washer B 6 DIN 127	1	
21	—	Hex. nut BM 6 DIN 439-5 S	1	
22	198 070 02 32	Overflow pipe	1	for oil overflow of injection pump
23	198 180 00 27	Oil line	1	from oil relief press. valve in injection pump to fuel feed pump
24	198 070 02 91	Drive shaft	1	} for drive shaft at injection pump side
25	—	Circlip 24×1.2 DIN 471 (for drive shaft at injection pump)	2	
26	198 990 11 40	Washer	1	
27	136 993 14 01	Pressure spring	1	
28	198 990 13 40	Washer (on drive shaft, drive, and injection pump side)	a.r.	
29	198 077 01 46	Bearing bushing (for bearing of intermediate gear at crankcase)	1	
30	198 070 00 13	Intermediate gear 69 teeth (for injection pump drive)	1	
31	198 077 00 50	Bushing	2	
32	198 077 00 20	Bearing pin (for mounting intermediate gear)	1	
33	198 997 00 40	Rubber ring (for support pin at intermediate gear)	1	
34	198 997 00 45	Seal	1	

Table 5

Injection Pump

Group 07

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
35	—	Hex.-hd. socket screw M 6×75 DIN 912-8 G	1	
—	198 077 01 05	Drive shaft (for injection pump)	1	up to engine No. 65 00072
36	198 077 02 05	Drive shaft (for injection pump)	1	from engine No. 65 00073
37	000 997 12 46	Oil seal "S" 18×32×7	1	
38	—	Woodruff key 3×5 DIN 6888	1	
39	—	Circlip 32×1.2 DIN 472	2	
40	—	Annular groov. bear. 6002X DIN 625	2	
41	198 077 02 12	Drive gear (for injection pump drive)	1	
42	198 077 01 50	Bushing (for drive shaft at injection pump)	1	up to engine No. 65 00072
42a	198 077 02 51	Intermediate ring	1	} for drive shaft from engine No. 65 00073
42b	198 077 00 51	Spacer	1	
42c	—	Woodruff key 3×5 DIN 6888	1	
42d	198 077 02 09	Drive shaft	1	
43	—	Lock washer B 10 DIN 127	1	
44	—	Hex. nut M 10 DIN 936-5 S	1	
45	198 077 00 79	Gasket	1	} for drive casing up to engine No. 65 00072
46	199 077 00 32	Cover	1	
47	—	Washer 6.4 DIN 433	4	
48	—	Hex.-hd. socket screw M 6×15 DIN 912-8 G	4	
49	198 015 00 30	Cover (for cylinder crankcase at interm. gear to injection pump)	1	
50	198 015 00 80	Sealing flange	1	} for cover at cylinder crankcase
51	—	Washer 6.4 DIN 433	4	

Table 5

Injection Pump

Group 07

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
52	—	Hex.-hd. socket screw M 6×20 DIN 912-8 G	4	for cover at cylinder crankcase
—	198 070 00 32	Connection pipe	2	up to engine No. 55 00178
53	198 070 05 32	Connection pipe	2	from engine No. 55 00179
—	198 070 01 32	Vacuum pipe (from mixture controller to governor and injection pump) replaced by 198 070 04 32 together with 1 vacuum pipe 198 070 03 32 1 bracket 198 180 00 40 2 hex.-hd. socket screws M 6×22 DIN 912-6 G 1 oil pressure gauge line 198 180 00 19 1 lock washer B 10 DIN 127 1 hex. nut M 10 DIN 934-5 S 1 lock washer B 14 DIN 127 1 hex. nut M 14×1.5 DIN 936-5 S	—	up to engine No. 55 00153
54	198 070 04 32	Vacuum pipe (from mixture controller to bracket)	1	} from engine No. 55 00154
54a	198 070 03 32	Vacuum pipe (from bracket at cylinder cover to governor at injection pump)	1	
—	—	Lock washer B 14 DIN 127	1	} for vacuum pipe at bracket at cylinder crankcase from eng. No. 55 00154
—	—	Hex. nut M 14×1.5 DIN 936-5 S	1	
55	198 995 00 20	Clamp	1	} for vacuum pipe at cylinder head up to engine No. 55 00153
56	—	Hex.-hd. screw M 6×10 DIN 933-8 G	1	
57	—	Lock washer B 6 DIN 127	1	
58	—	Hex. nut M 6 DIN 934-5 S	1	
59	198 070 01 24	Support (for mounting of injection pump)	1	
60	—	Washer 8.4 DIN 433	4	} for support at cylinder crankcase
61	—	Hex.-hd. socket screw M 8×25 DIN 912-8 G	4	

Table 5

Injection Pump

Group 07

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
62	—	Washer 8.4 DIN 125	3	} for injection pump at support
63	—	Lock washer B 8 DIN 127	3	
64	—	Hex. nut M 8 DIN 934-5 S	3	
65	198 071 00 95	Bracket (for mounting of starting device)	1	
66	000 017 20 12	Injection nozzle (in cylinder crankcase)	6	
67	—	Seal A 14×18 DIN 7603 Cu	6	
70	000 140 03 53	Mixture controlle	1	
—	000 141 00 11	Butterfly shaft	1	up to engine No. 55 00498
71	000 141 01 11	Butterfly shaft	1	from engine No. 55 00499
72	000 141 00 10	Butterfly valve	1	
73	000 071 02 71	Countersunk lens-hd. screw	2	
74	000 990 25 40	Shim 0.1 mm thick	a.r.	
—	000 990 36 40	Shim 0.5 mm thick	a.r.	
—	000 990 37 40	Shim 1 mm thick	a.r.	
74a	000 990 38 40	Washer (between lever and housing)	1	
75	—	Woodruff key 2×3.7 DIN 6888 (for lever on butterfly shaft)	1	
75a	000 141 00 12	Lever, complete	1	
—	—	Lock washer B 5 DIN 127	1	
—	—	Hex.-hd. screw M 5×15 DIN 933-8 G	1	
76	—	Seal A 8×16 DIN 6503 (for sealing of butterfly shaft)	1	
—	000 997 00 12	Tapered pin (for mounting of rings on butterfly shaft)	1	

Table 5

Injection Pump

Group 07

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
62	—	Washer 8.4 DIN 125	3	} for injection pump at support
63	—	Lock washer B 8 DIN 127	3	
64	—	Hex. nut M 8 DIN 934-5 S	3	
65	198 071 00 95	Bracket (for mounting of starting device)	1	
66	000 017 20 12	Injection nozzle (in cylinder crankcase)	6	
67	—	Seal A 14×18 DIN 7603 Cu	6	
70	000 140 03 53	Mixture controlle	1	
—	000 141 00 11	Butterfly shaft	1	up to engine No. 55 00498
71	000 141 01 11	Butterfly shaft	1	from engine No. 55 00499
72	000 141 00 10	Butterfly valve	1	
73	000 071 02 71	Countersunk lens-hd. screw	2	
74	000 990 25 40	Shim 0.1 mm thick	a.r.	
—	000 990 36 40	Shim 0.5 mm thick	a.r.	
—	000 990 37 40	Shim 1 mm thick	a.r.	
74a	000 990 38 40	Washer (between lever and housing)	1	
75	—	Woodruff key 2×3.7 DIN 6888 (for lever on butterfly shaft)	1	
75a	000 141 00 12	Lever, complete	1	
—	—	Lock washer B 5 DIN 127	1	
—	—	Hex.-hd. screw M 5×15 DIN 933-8 G	1	
76	—	Seal A 8×16 DIN 6503 (for sealing of butterfly shaft)	1	
—	000 997 00 12	Tapered pin (for mounting of rings on butterfly shaft)	1	

Table 5

Injection pump

Group 07

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
77	000 141 00 80	Gasket	1	} for cover at housing
—	—	Lock washer B 5 DIN 127	2	
—	—	Cylindrical screw AM 5×12 DIN 84-4 S	2	
78	000 141 00 26	Control plunger	1	} for adjustment of idle speed
79	000 993 62 01	Helical spring	1	
80	000 990 17 20	Adjusting screw	1	
81	000 993 63 01	Helical spring	1	} for vacuum pipe connection
82	000 141 00 58	Valve (partial load valve)	1	
83	000 141 01 43	Spring clamp	1	
84	000 990 50 51	Nut M 8×1	1	} for vacuum pipe connection
85	000 990 03 63	Hollow screw	1	
85 a	—	Hollow screw A 6 DIN 7623-6 S	1	
86	—	Seal A 12×16 DIN 7603 AI	2	} for vacuum pipe connection
86 a	000 141 00 23	Air nozzle in bore for hollow screw	1	
87	—	Air nozzle (M 6×1) (idle speed nozzle) in the following sizes	1	
	000 071 08 34	50		} as required
	000 071 09 34	60		
	000 071 10 34	70		
	000 071 11 34	80		
	000 071 12 34	90		
	000 071 13 34	100		
	000 071 14 34	110		
	000 071 15 34	120		
	000 071 16 34	130		
	000 071 02 34	140		
	000 071 17 34	150		
	000 071 03 34	160		
	000 071 07 34	170		
	000 071 18 34	180		
	000 071 04 34	190		
	000 071 01 34	200		

Table 5

Injection Pump

Group 07

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
88	—	Air nozzle (M 6×1) (partial load nozzle) in the following sizes	1	} as required
	000 071 18 34	180		
	000 071 04 34	190		
	000 071 01 34	200		
	000 071 19 34	210		
	000 071 05 34	220		
	000 071 20 34	230		
	000 071 21 34	240		
	000 071 22 34	250		
	000 071 23 34	260		
89	000 990 20 20	Plug screw M 10×1 (for idlespeed and partial load nozzle)	2	
90	000 071 07 38	Air nozzle (M 9×1) Size 3.50 (cold start nozzle for air)	1	} as required
—	000 071 11 38	Air nozzle (M 9×1) size 2.50	1	
—	000 071 09 38	Air nozzle (M 9×1) size 2.0	1	
—	000 071 10 38	Air nozzle (M 9×1) size 1.0	1	
91	000 071 08 38	Air nozzle (M 9×1) size 1.50 (cold start nozzle for vacuum)	1	
92	000 141 00 56	Plug screw M 14×1.5 (for cold start nozzle)	2	
—	—	Seal A 8×12 DIN 7603 Cu	1	} from eng. No. 55 00276 for locking of connection of vacuum pipe to ignition timing at mixture controller
—	—	Locking screw AM 8×1 DIN 7604	1	
93	198 141 00 80	Gasket (between suction pipe and mixture controller housing)	1	} for mixture controller at suction pipe
94	—	Washer 8.4 DIN 125	4	
95	—	Hex. nut M 8 DIN 934-5 S	4	
96	—	Annular nipple 6 DIN 7621 (for damper at overflow valve, injection pump)	1	} from eng. No. 45 00075
97	198 070 00 68	Damper	1	

Table 5

Injection Pump

Group 07

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
		Delivery Lines		
100	198 070 00 33	Delivery line (for cylinder 1)	1	
101	198 070 01 33	Delivery line (for cylinder 2)	1	
102	198 070 02 33	Delivery line (for cylinder 3)	1	
103	198 070 03 33	Delivery line (for cylinder 4)	1	
104	198 070 04 33	Delivery line (for cylinder 5)	1	
105	198 070 05 33	Delivery line (for cylinder 6)	1	
106	198 995 00 15	Clamp half	4	} for bracket of delivery lines cylinder 1 to 3 and 4 to 6
107	—	Hex.-hd. screw M 5×10 DIN 933-8 G	4	
108	—	Lock washer B 5 DIN 127	4	
109	—	Hex. nut M 5 DIN 934-5 S	4	
110	198 070 00 40	Support (for angular lever)	1	
111	198 070 01 22	Angular lever (for control)	1	
112	—	Washer 8.4 DIN 433	1	} for angular lever at support
113	—	Cotter pin 2×15 DIN 94	1	
114	—	Draw rod 5×255×25/25 N 331	1	
115	—	Hex. nut M 5 DIN 934-5 S	2	
116	—	Ball cup B 8 DIN 71805	2	
117	—	Locking clamp S 8 DIN 71805	2	
118	181 993 03 10	Release spring (for control)	1	
119	198 074 03 40	Connecting clamp (for release spring)	1	

Table 5

Injection Pump

Group 07

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
120	—	Washer 4.3 DIN 433	1	} for connection clamp at butterfly valve
121	—	Cotter pin 1×8 DIN 94	1	
122	198 070 00 82	Cold starting thermostat housing	1	} from engine No. 45 00041
—	—	Seal D 20×26 DIN 7603-Al	1	
123	199 075 00 90	Thermostat (for cold starting mixture regulation)	1	
124	—	Lock washer B 6 DIN 127	2	} for thermostat at clamp or mixture controller resp. from eng. No. 45 00041
125	—	Hex.-hd. screw M 6×15 DIN 933-8 G	2	
—	198 070 00 66	Clamp	1	} for mounting of thermostat housing at mixture controller without cast fastening flange from engine No. 45 00041 to 45 00104
—	—	Hex.-hd. screw M 6×35 DIN 931-8 G	1	
—	—	Washer 6.4 DIN 125	2	
—	—	Hex. nut M 6 DIN 934-5 S	1	
126	199 075 00 72	Adjusting nut	1	} for connection between mixture controller lever and thermostat from engine No. 45 00041
127	198 071 00 24	Pressure rod	1	
128	—	Hex. nut M 5 DIN 934-5 S	1	
129	—	Pin 5 f8×14×12 DIN 1434-5 D	1	
130	—	Washer 5.3 DIN 433	1	
131	—	Cotter pin 1.5×8 DIN 94	1	

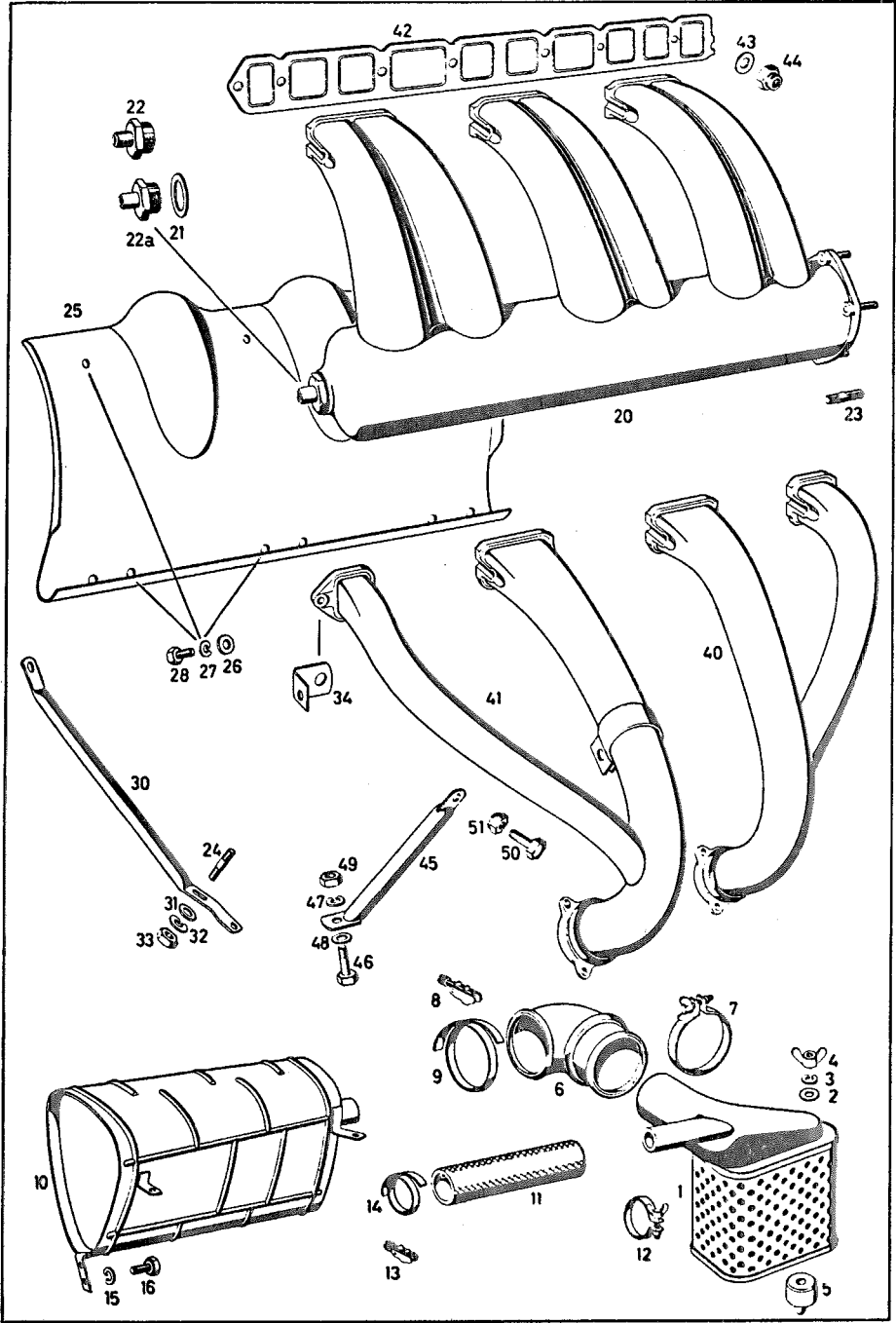


Table 6

Silencer, Intake and Exhaust Manifold

Group 09/14

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
		Silencer		
1	000 094 74 02	Silencer air filter	1	} for silencer air filter at oil cooler
2	—	Washer A 6 DIN 9021	2	
3	—	Lock washer B 6 DIN 127	2	
4	—	Wing nut M 6 DIN 315 – 4 D	2	
5	000 987 64 40	Rubber buffer	1	
6	198 094 00 91	Grommet (for mounting to air filter)	1	
7	—	Clamp S 88/12 F N 288a	1	
8	—	Hose clamp S 9 N 262	1	
9	—	Hose strap 9×0.4 N 263	a.r.	state length when order.
10	000 094 73 02	Muffler	1	
11	—	Rubber hose 35×43×150 N 272 (for connection of silencer to air filter)	a.r.	state length when order.
12	—	Clamp S 44/12 F N 288a	1	
13	—	Hose clamp S 9 N 262	1	
14	—	Hose strap 9×0.4 N 263	a.r.	state length when order.
15	—	Lock washer B 6 DIN 127	2	} for muffler at bracket, water container
16	—	Hex.-hd. screw M 6×12 DIN 933-8 G	2	
		Intake Manifold		
—	198 140 00 01	replaced by together with 1 screwed nipple	198 140 01 01 198 997 01 72	— up to engine No. 55 00353
20	198 140 01 01	Intake manifold	1	from engine No. 55 00354
21	—	Seal A 35×41 DIN 7603 AI	1	

Table 6

Silencer, Intake and Exhaust Manifold

Group 09/14

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
		Silencer		
1	000 094 74 02	Silencer air filter	1	} for silencer air filter at oil cooler
2	—	Washer A 6 DIN 9021	2	
3	—	Lock washer B 6 DIN 127	2	
4	—	Wing nut M 6 DIN 315 – 4 D	2	
5	000 987 64 40	Rubber buffer	1	
6	198 094 00 91	Grommet (for mounting to air filter)	1	
7	—	Clamp S 88/12 F N 288a	1	
8	—	Hose clamp S 9 N 262	1	
9	—	Hose strap 9×0.4 N 263	a.r.	state length when order.
10	000 094 73 02	Muffler	1	
11	—	Rubber hose 35×43×150 N 272 (for connection of silencer to air filter)	a.r.	state length when order.
12	—	Clamp S 44/12 F N 288a	1	
13	—	Hose clamp S 9 N 262	1	
14	—	Hose strap 9×0.4 N 263	a.r.	state length when order.
15	—	Lock washer B 6 DIN 127	2	} for muffler at bracket, water container
16	—	Hex.-hd. screw M 6×12 DIN 933-8 G	2	
		Intake Manifold		
—	198 140 00 01	replaced by together with 1 screwed nipple	198 140 01 01 198 997 01 72	— up to engine No. 55 00353
20	198 140 01 01	Intake manifold	1	from engine No. 55 00354
21	—	Seal A 35×41 DIN 7603 AI	1	

Table 6

Silencer, Intake and Exhaust Manifold

Group 09/14

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
22	198 997 01 72	Screwed nipple	1	up to engine No. 55 00353
22a	198 997 06 72	Screwed nipple	1	from engine No. 55 00354
23	—	Stud bolt M 8×22 DIN 835-5 S (for mounting of mixture controller)	4	
24	—	Stud bolt M 8×15 DIN 835-5 S (for mounting of strut of intake manifold)	1	
25	198 141 00 21	Protective plate (for intake manifold)	1	
26	—	Washer A 6 DIN 9021	9	up to eng. No. 5500852
27	—	Lock washer B 6 DIN 127	12	from eng. No. 5500853
28	—	Hex.-hd. screw M 6×12 DIN 933-8 G	9	up to eng. No. 5500852
			12	from eng. No. 5500853
30	198 141 00 40	Strut, intake manifold	1	
31	—	Washer 8.4 DIN 125	1	
32	—	Lock washer B 8 DIN 127	1	for intake manifold strut at intake manifold
33	—	Hex. nut M 8 DIN 934-5 S	1	
34	198 078 00 71	Bracket (for vacuum pipe at cylinder head)	1	up to engine No. 55 00153
Exhaust Manifold				
40	198 140 00 14	Exhaust manifold, front	1	
41	198 140 01 14	Exhaust manifold, rear	1	
42	194 142 00 80	Gasket	1	
43	—	Washer 10.5 DIN 125	8	for intake manifold and exhaust manifold at cylinder head
44	—	Hex. nut M 10 AGGN 14441 copper plated	8	
45	198 142 00 42	Strut (for exhaust manifold, rear)	1	
46	—	Hex.-hd. screw M 8×25 DIN 931-8 G	1	for strut at bracket

Table 6

Silencer, Intake and Exhaust Manifold

Group 09/14

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
22	198 997 01 72	Screwed nipple	1	up to engine No. 55 00353
22a	198 997 06 72	Screwed nipple	1	from engine No. 55 00354
23	—	Stud bolt M 8×22 DIN 835-5 S (for mounting of mixture controller)	4	
24	—	Stud bolt M 8×15 DIN 835-5 S (for mounting of strut of intake manifold)	1	
25	198 141 00 21	Protective plate (for intake manifold)	1	
26	—	Washer A 6 DIN 9021	9	up to eng. No. 5500852
27	—	Lock washer B 6 DIN 127	12	from eng. No. 5500853
28	—	Hex.-hd. screw M 6×12 DIN 933-8 G	9	up to eng. No. 5500852
			12	from eng. No. 5500853
30	198 141 00 40	Strut, intake manifold	1	
31	—	Washer 8.4 DIN 125	1	
32	—	Lock washer B 8 DIN 127	1	for intake manifold strut at intake manifold
33	—	Hex. nut M 8 DIN 934-5 S	1	
34	198 078 00 71	Bracket (for vacuum pipe at cylinder head)	1	up to engine No. 55 00153
Exhaust Manifold				
40	198 140 00 14	Exhaust manifold, front	1	
41	198 140 01 14	Exhaust manifold, rear	1	
42	194 142 00 80	Gasket	1	
43	—	Washer 10.5 DIN 125	8	for intake manifold and exhaust manifold at cylinder head
44	—	Hex. nut M 10 AGGN 14441 copper plated	8	
45	198 142 00 42	Strut (for exhaust manifold, rear)	1	
46	—	Hex.-hd. screw M 8×25 DIN 931-8 G	1	for strut at bracket

Table 6

Silencer, Intake and Exhaust Manifold

Group 09/14

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
47	—	Lock washer B 8 DIN 127	1	} for strut at bracket
48	—	Washer 8.4 DIN 125	1	
49	—	Hex. nut M 8 DIN 934-5 S	1	
50	—	Hex.-hd. screw M 8×20 DIN 933-8 G	1	} for strut at clamp at exhaust manifold, rear
51	—	Hex. nut M 8 AGGN 14441	1	

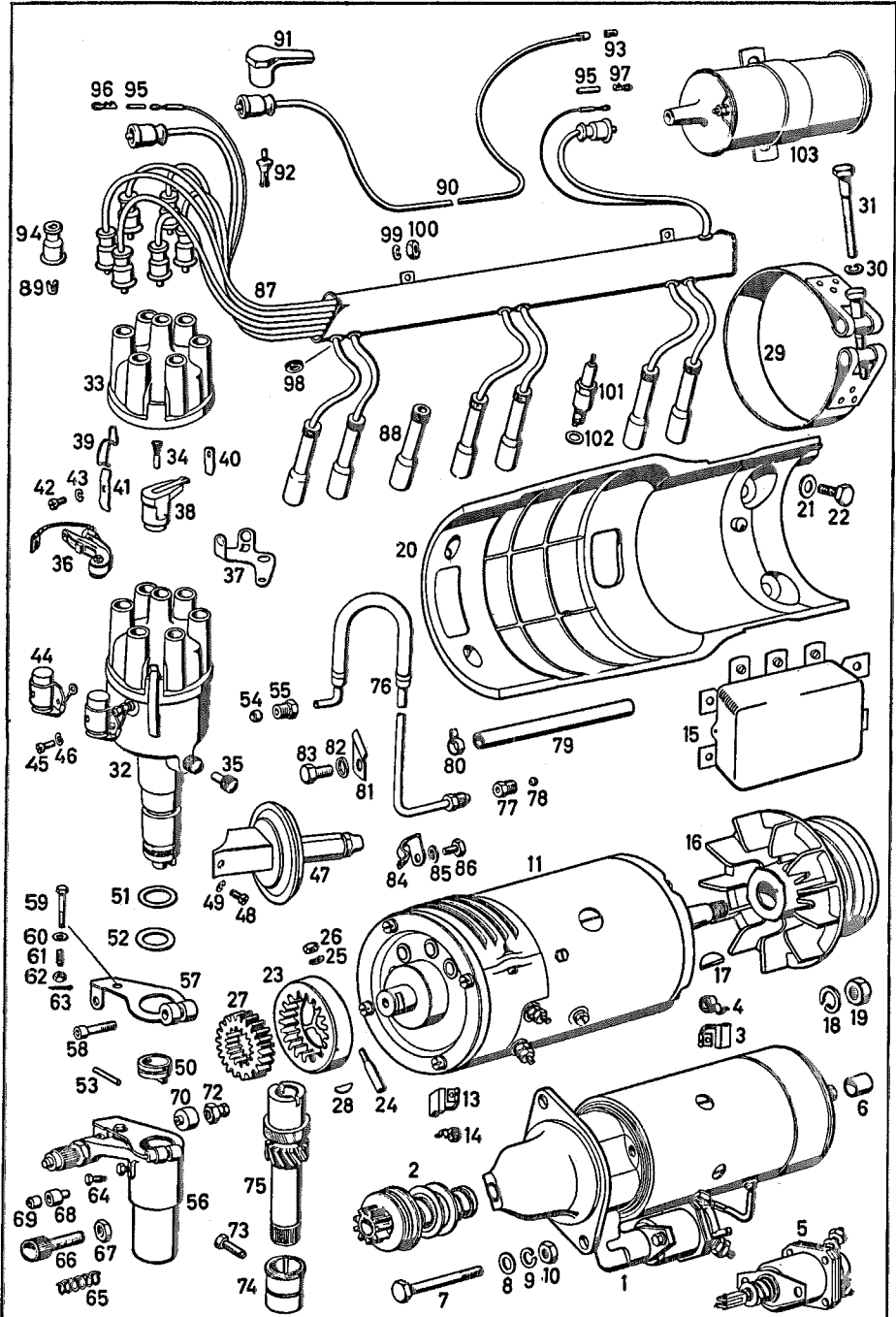


Table 7

Electrical Equipment at Engine

Group 15

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
		Starter Motor		
1	000 151 02 01	Starter motor	1	
—	000 151 69 01	Starter motor	1	for sportive driving
2	000 151 01 13	Pinion assy., 9 teeth and spring	1	
3	000 151 14 14	Set of carbon brushes (4 pieces)	1	
4	000 151 01 93	Spring (for carbon brush)	4	
5	000 152 08 11	Solenoid switch (on terminal casing)	1	
6	000 151 00 50	Bearing bushing (in pinion bearing and commutator bearing)	2	
7	—	Hex.-hd. screw M 12×85 DIN 931-8 G	2	for starter motor at intermediate plate
8	—	Washer 13 DIN 125	2	
9	—	Lock washer B 12 DIN 127	2	
10	—	Hex. nut M 12 DIN 934-5 S	2	
		Generator		
11	000 154 75 01	Generator	1	
13	000 154 25 14	Set of carbon brushes (2 pieces)	1	for generator
14	000 154 00 93	Spring (for carbon brush)	2	
15	000 154 36 06	Three-element voltage regulator for generator	1	see also group 54
16	198 150 01 60	Pulley (for generator)	1	

Table 7

Electrical Equipment at Engine

Group 15

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
		Starter Motor		
1	000 151 02 01	Starter motor	1	
—	000 151 69 01	Starter motor	1	for sportive driving
2	000 151 01 13	Pinion assy., 9 teeth and spring	1	
3	000 151 14 14	Set of carbon brushes (4 pieces)	1	
4	000 151 01 93	Spring (for carbon brush)	4	
5	000 152 08 11	Solenoid switch (on terminal casing)	1	
6	000 151 00 50	Bearing bushing (in pinion bearing and commutator bearing)	2	
7	—	Hex.-hd. screw M 12×85 DIN 931-8 G	2	for starter motor at intermediate plate
8	—	Washer 13 DIN 125	2	
9	—	Lock washer B 12 DIN 127	2	
10	—	Hex. nut M 12 DIN 934-5 S	2	
		Generator		
11	000 154 75 01	Generator	1	
13	000 154 25 14	Set of carbon brushes (2 pieces)	1	for generator
14	000 154 00 93	Spring (for carbon brush)	2	
15	000 154 36 06	Three-element voltage regulator for generator	1	see also group 54
16	198 150 01 60	Pulley (for generator)	1	

Table 7

Electrical Equipment at Engine

Group 15

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
17	—	Woodruff key 3×6.5 DIN 6888	1	for pulley at generator will be delivered together with generator
18	—	Lock washer B 12 DIN 127	1	
19	—	Hex. nut M 12 DIN 934-5 S	1	
—	198 150 01 70	replaced by 198 150 03 70 together with 1 fitted bolt 186 155 00 71	—	up to engine No. 55 00683
20	198 150 03 70	Support (for generator and water pump)	1	from engine No. 55 00684
—	—	Cylindrical pin 8 h8×8 DIN 7, round. (for aligning generator)	1	
—	186 155 00 71	Fitted bolt	1	up to engine No. 55 00683
21	—	Washer 8.4 DIN 125	3	up to eng. No. 5500683
22	—	Hex.-hd. screw M 8×22 DIN 933-10 K	2	from eng. No. 5500684
—	—	Washer 10.5 DIN 125	3	up to eng. No. 5500683
—	—	Hex.-hd. screw M 10×30 DIN 931-10 K	2	from eng. No. 5500684
23	186 155 03 09	Coupling half	1	for coupling at generator
24	186 990 01 37	Wedge-type screw (for coupling half)	1	
25	—	Lock washer B 4 DIN 137	1	
26	—	Hex. nut M 4 DIN 934-5 S	1	
27	186 155 05 10	Follower	1	
28	—	Woodruff key 3×5 DIN 6888	1	will be delivered together with generator
29	186 150 00 71	Strap (for generator)	1	
30	—	Lock washer B 8 DIN 127	1	
31	186 155 00 24	Screw for strap	1	
Distributor				
32	000 158 60 01	Distributor with coupling	1	

Table 7

Electrical Equipment at Engine

Group 15

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
17	—	Woodruff key 3×6.5 DIN 6888	1	for pulley at generator will be delivered together with generator
18	—	Lock washer B 12 DIN 127	1	
19	—	Hex. nut M 12 DIN 934-5 S	1	
—	198 150 01 70	replaced by 198 150 03 70 together with 1 fitted bolt 186 155 00 71	—	up to engine No. 55 00683
20	198 150 03 70	Support (for generator and water pump)	1	from engine No. 55 00684
—	—	Cylindrical pin 8 h8×8 DIN 7, round. (for aligning generator)	1	
—	186 155 00 71	Fitted bolt	1	up to engine No. 55 00683
21	—	Washer 8.4 DIN 125	3	up to eng. No. 5500683
22	—	Hex.-hd. screw M 8×22 DIN 933-10 K	2	from eng. No. 5500684
—	—	Washer 10.5 DIN 125	3	up to eng. No. 5500683
—	—	Hex.-hd. screw M 10×30 DIN 931-10 K	2	from eng. No. 5500684
23	186 155 03 09	Coupling half	1	for coupling at generator
24	186 990 01 37	Wedge-type screw (for coupling half)	1	
25	—	Lock washer B 4 DIN 137	1	
26	—	Hex. nut M 4 DIN 934-5 S	1	
27	186 155 05 10	Follower	1	
28	—	Woodruff key 3×5 DIN 6888	1	will be delivered together with generator
29	186 150 00 71	Strap (for generator)	1	
30	—	Lock washer B 8 DIN 127	1	
31	186 155 00 24	Screw for strap	1	
Distributor				
32	000 158 60 01	Distributor with coupling	1	

Table 7

Electrical Equipment at Engine

Group 15

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
33	000 158 07 02	Distributor plate with carbon brush	1	for distributor VJ
—	000 158 10 02	Distributor plate	1	for distributor ZV/PB
34	000 158 00 34	Carbon brush with spring	1	
35	000 158 04 89	Oiler	1	
36	000 158 03 30	Breaker arm	1	for distributor VJ
—	000 158 04 30	Breaker arm with contact	1	for distributor ZV/PB
37	000 158 04 32	Contact carrier with contact	1	for distributor VJ
—	000 158 06 32	Contact carrier with contact	1	for distributor ZV/PB
—	000 158 09 31	Distributor rotor	1	for distributor VJ
38	000 158 13 31	Distributor rotor	1	for distributor ZV/PB
39	000 158 02 33	Retaining spring	2	
40	000 158 00 40	Attachment plate without nose	1	
41	000 158 01 40	Attachment plate with nose	1	
42	—	Cylindrical screw AM 4×8 DIN 84-4 S	2	} for attachment plate with locking wire at distributor
43	—	Lock washer B 4 DIN 127	2	
44	000 156 11 01	Condenser	1	for distributor VJ
—	000 156 46 01	Condenser	1	for distributor ZV/PB
45	—	Cylindrical screw AM 4×5 DIN 84-4 S	2	} for condenser at distributor housing
46	—	Lock washer B 4 DIN 127	2	
47	000 158 01 18	Vacuum control	1	} up to engine No. 65 00044
48	—	Cylindrical screw AM 4×5 DIN 84-4 S	2	
49	—	Lock washer B 4 DIN 127	2	
50	000 158 03 09	Coupling	1	
51	000 158 01 76	Fiber washer	2	
—	000 158 04 52	Shim 0.2 mm thick	a.r.	} optional
52	000 158 00 52	Shim 0.1 mm thick	a.r.	

Table 7

Electrical Equipment at Engine

Group 15

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
53	000 158 04 74	Grooved pin	1	} for vacuum pipe at vacuum distr. up to engine No. 55 00275
54	000 158 02 60	Seal	1	
55	000 158 00 59	Threaded bushing	1	
—	—	Seal A 8×12 DIN 7603 Cu	1	} for locking of vacuum pipe connection for vacuum control
—	—	Plug screw AM 8×1 DIN 7604	1	
56	186 150 04 07	Bearing (for distributor)	1	
57	180 150 01 24	Control lever with angle	1	
58	—	Hex.-hd. socket screw M 6×25 DIN 912-8 G	1	
59	—	Hex.-hd. screw M 5×30 S DIN 931-8 G	1	} for control lever at bearing
60	—	Washer 5.3 DIN 215	1	
61	136 993 08 01	Helical spring	1	
62	—	Hex. nut M 5 DIN 934-5 S	1	
63	—	Cotter pin 1×12 DIN 94	1	
64	—	Hex.-hd. screw with pin M 6×12 DIN 561-5 S (for distributor mounting)	1	
65	186 993 24 01	Pressure spring	1	
66	186 158 00 70	Adjusting screw	1	
67	—	Hex. nut M 10×1 DIN 936-5 S	1	
68	186 158 00 83	Rubber sleeve	1	
69	186 158 00 51	Sleeve	1	
70	186 158 01 83	Damping rubber	1	
—	198 158 00 76	Locking ring	—	} replaced by 198 150 00 29
—	198 158 00 70	Setscrew	—	
72	198 150 00 29	Clamping chuck	1	from engine No. 55 00909

Table 7

Electrical Equipment at Engine

Group 15

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
73	—	Hex.-hd. screw with pin M 8×15 DIN 561-5 S (for bearing at cylinder crankcase)	1	
74	186 150 03 14	Bearing (for distributor drive)	1	
—	186 158 09 12	replaced by 186 150 00 06 together with 1 bearing bushing 186 052 11 06 1 bearing for distributor 186 150 02 07 or re-machining of mounted parts resp.	—	up to engine No. 45 00183
75	186 150 00 06	Helical gear (for distributor drive)	1	from engine No. 55 00064
76	198 150 00 35	Vacuum pipe	1	} up to engine No. 55 00275
77	—	Screwed pipe joint 4.2 DIN 71426	1	
78	—	Sealing cone 4.1 DIN 71426	1	
79	181 997 03 82	Rubber hose	1	
80	181 997 00 90	Hose strap	2	} for vacuum pipe at cylinder head, front, up to engine No. 55 00275
81	198 995 01 20	Clamp	1	
82	—	Seal A 12×16 DIN 7603 A1	1	
83	—	Hex.-hd. screw M 12×1.5×15 DIN 961-8 G	1	
84	186 995 02 01	Clamp	1	} for vacuum pipe at cylinder head, spark plug side, up to engine No. 55 00275
85	—	Washer 6.4 DIN 125	1	
86	—	Hex.-hd. screw M 6×15 DIN 933-8 G	1	
Ignition Cable				
87	198 150 01 19	Set of ignition cables	1	
88	000 159 08 42	Ignition cable plug	6	
89	000 159 00 38	Cable sleeve	6	
90	198 150 06 18	Ignition cable (for ignition coil, distributor)	1	

Table 7

Electrical Equipment at Engine

Group 15

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
73	—	Hex.-hd. screw with pin M 8×15 DIN 561-5 S (for bearing at cylinder crankcase)	1	
74	186 150 03 14	Bearing (for distributor drive)	1	
—	186 158 09 12	replaced by 186 150 00 06 together with 1 bearing bushing 186 052 11 06 1 bearing for distributor 186 150 02 07 or re-machining of mounted parts resp.	—	up to engine No. 45 00183
75	186 150 00 06	Helical gear (for distributor drive)	1	from engine No. 55 00064
76	198 150 00 35	Vacuum pipe	1	} up to engine No. 55 00275
77	—	Screwed pipe joint 4.2 DIN 71426	1	
78	—	Sealing cone 4.1 DIN 71426	1	
79	181 997 03 82	Rubber hose	1	
80	181 997 00 90	Hose strap	2	} for vacuum pipe at cylinder head, front, up to engine No. 55 00275
81	198 995 01 20	Clamp	1	
82	—	Seal A 12×16 DIN 7603 A1	1	
83	—	Hex.-hd. screw M 12×1.5×15 DIN 961-8 G	1	
84	186 995 02 01	Clamp	1	} for vacuum pipe at cylinder head, spark plug side, up to engine No. 55 00275
85	—	Washer 6.4 DIN 125	1	
86	—	Hex.-hd. screw M 6×15 DIN 933-8 G	1	
Ignition Cable				
87	198 150 01 19	Set of ignition cables	1	
88	000 159 08 42	Ignition cable plug	6	
89	000 159 00 38	Cable sleeve	6	
90	198 150 06 18	Ignition cable (for ignition coil, distributor)	1	

Table 7

Electrical Equipment at Engine

Group 15

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
91	000 156 08 10	Ignition cable plug	1	} up to engine No. 55 00845 distributor side
—	000 156 09 10	Ignition cable plug	1	
92	000 156 00 20	Adapter	1	
—	000 156 02 20	Adapter	1	
93	000 159 00 38	Cable sleeve	1	
94	000 159 00 85	Rain protective cap	7	
95	159 546 00 37	Rubber grommet	2	
96	—	Cable terminal A 4×0.8 N 261	1	
97	—	Cable terminal A 5×0.8 N 261	1	
98	000 997 22 81	Rubber grommet (at prot. tube for ignition cable)	7	
99	—	Lock washer B 6 DIN 127	2	} for prot. tube at cylinder head
100	—	Hex. nut M 6 DIN 934-5 S	2	
101	000 159 22 03	Spark plug	6	} optional
—	000 159 38 03	Spark plug	6	
102	—	Seal C 14×20 DIN 7603 StAsb	6	
—	000 159 23 03	Spark plug	6	} belong to tool set for sportive driving
—	000 159 24 03	Spark plug	6	
103	000 158 06 03	Ignition coil	1	see also group 54

Table 7

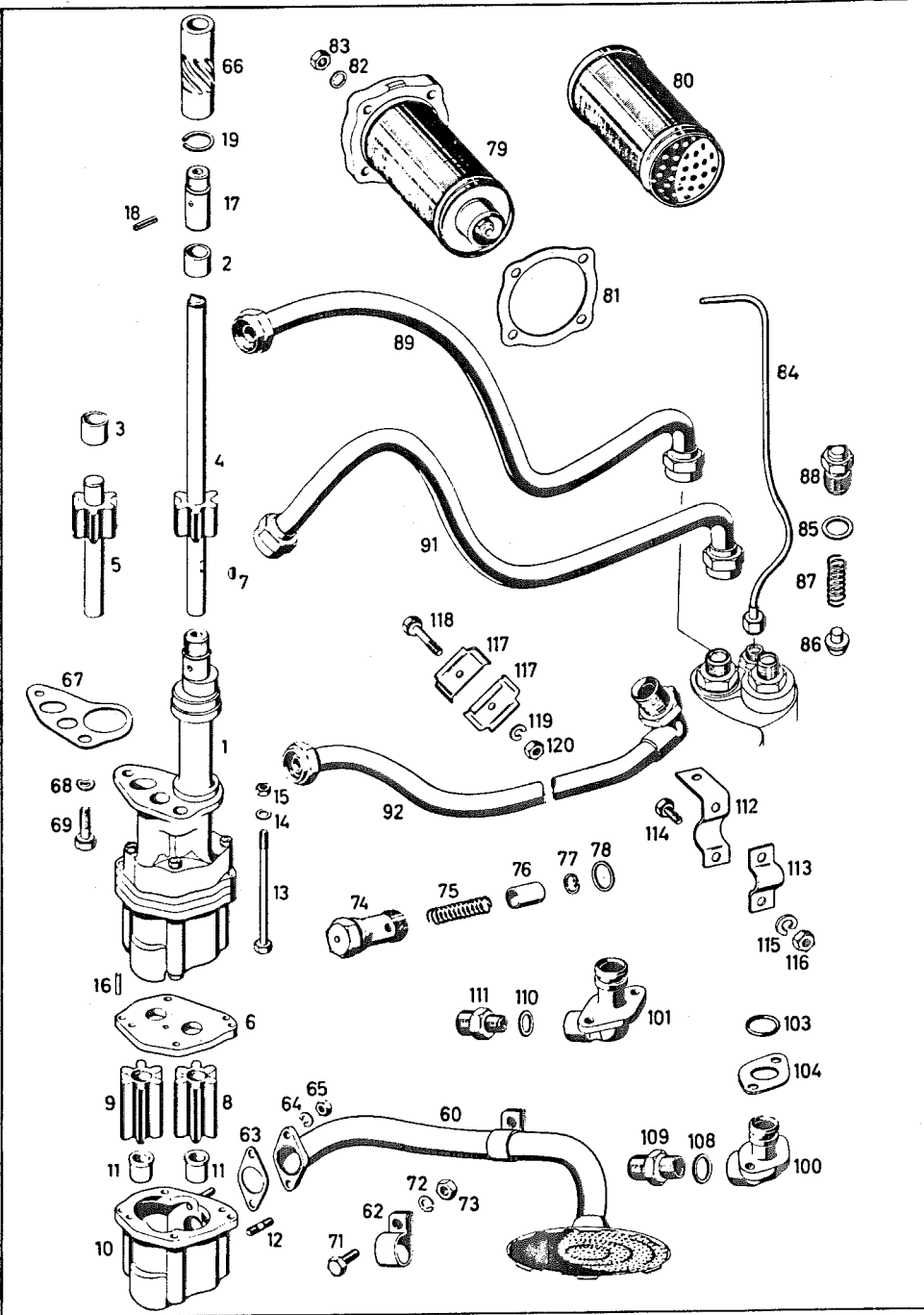
Electrical Equipment at Engine

Group 15

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
91	000 156 08 10	Ignition cable plug	1	} up to engine No. 55 00845 distributor side
—	000 156 09 10	Ignition cable plug	1	
92	000 156 00 20	Adapter	1	
—	000 156 02 20	Adapter	1	
93	000 159 00 38	Cable sleeve	1	
94	000 159 00 85	Rain protective cap	7	
95	159 546 00 37	Rubber grommet	2	
96	—	Cable terminal A 4×0.8 N 261	1	
97	—	Cable terminal A 5×0.8 N 261	1	
98	000 997 22 81	Rubber grommet (at prot. tube for ignition cable)	7	
99	—	Lock washer B 6 DIN 127	2	} for prot. tube at cylinder head
100	—	Hex. nut M 6 DIN 934-5 S	2	
101	000 159 22 03	Spark plug	6	} optional
—	000 159 38 03	Spark plug	6	
102	—	Seal C 14×20 DIN 7603 StAsb	6	
—	000 159 23 03	Spark plug	6	} belong to tool set for sportive driving
—	000 159 24 03	Spark plug	6	
103	000 158 06 03	Ignition coil	1	see also group 54

Table 8

Oil Pump and Lubricating Lines



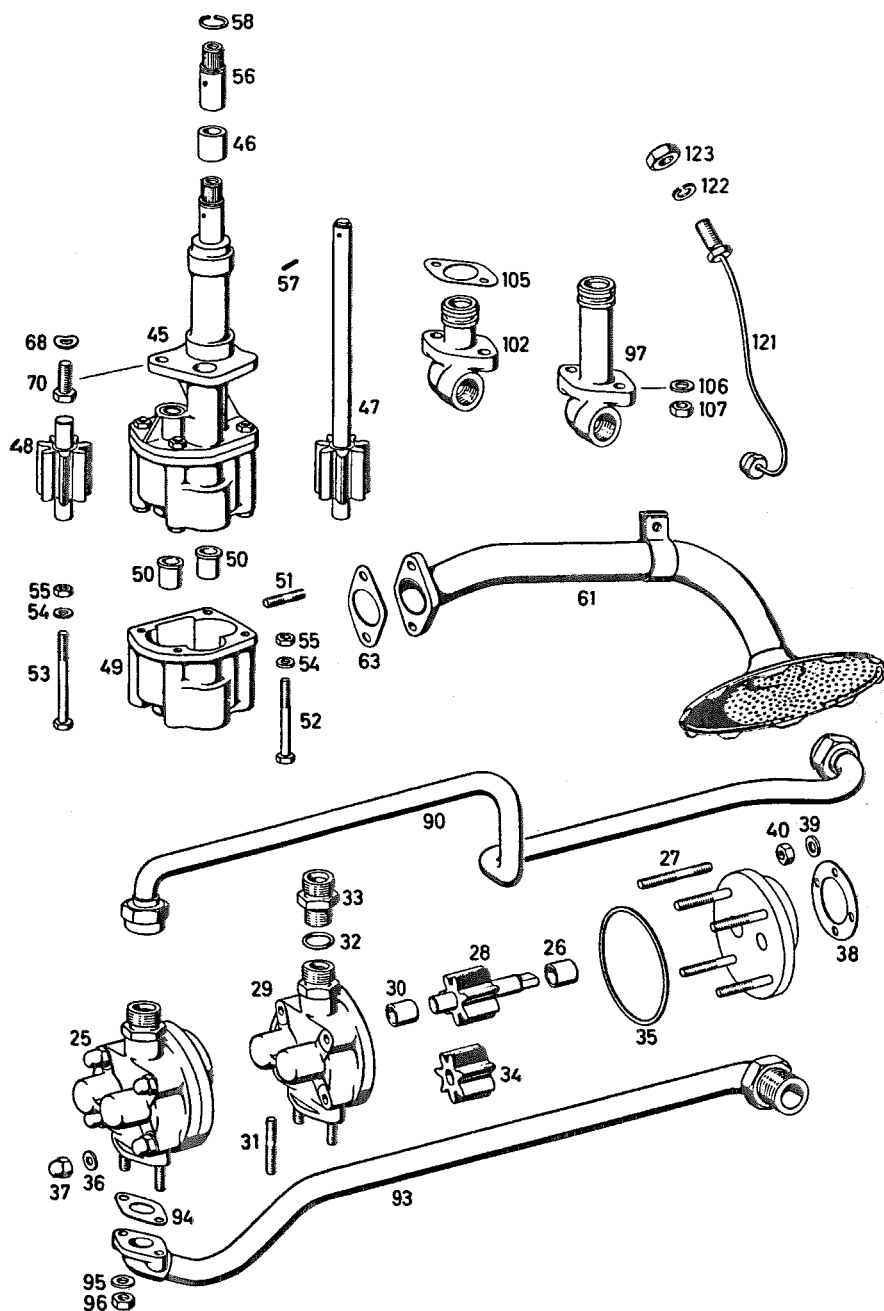


Table 8

Oil Pump and Lubricating Lines

Group 18

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
Oil Pump				
1	194 180 00 01	Oil pump	1	up to engine No. 65 00072
2	194 181 00 50	Bearing bushing (for support of drive shaft, top)	1	
3	194 181 02 50	Bearing bushing (for oil pump shaft)	1	
4	194 180 00 07	Drive gear	1	
5	194 180 00 08	Oil pump shaft with oil pump gear	1	
6	194 181 01 22	Intermediate plate	1	
7	—	Woodruff key 4×6.5 DIN 6888 (for oil pump gear on drive shaft)	1	
8	194 181 01 13	Oil pump gear (with keyway) 7 teeth	1	
9	194 181 00 13	Oil pump gear 7 teeth	1	
10	194 180 00 03	Oil pump housing, lower part	1	
11	194 181 01 50	Bearing bushing	2	
12	—	Stud bolt M 6×15 DIN 835-5 S	2	
13	—	Hex.-hd. screw M 6×95 DIN 931-8 G	4	
14	—	Washer 6.4 DIN 125	8	
15	—	Hex. nut M 6 DIN 934-5 S	4	
16	—	Cylindrical pin 5 m6×25 DIN 7 round.	2	
17	198 181 00 27	Drive (for fuel feed pump)	1	

Table 8

Oil Pump and Lubricating Lines

Group 18

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
18	—	Tightening pin 4×18 DIN 1481	1	} for drive at oil pump up to engine No. 65 00072
19	—	Snap ring 16 DIN 9045	1	
25	198 180 02 01	Oil pressure pump	1	} from engine No. 65 00073
26	199 181 00 50	Bearing bushing	1	
27	—	Stud bolt M 6×40 DIN 835-5 S	4	
28	198 180 00 08	Drive shaft	1	
29	198 180 01 03	Oil pump housing, complete	1	
30	199 181 00 50	Bearing bushing	1	
31	—	Stud bolt M 6×20 DIN 835-5 S (for connection of suction pipe)	2	
32	—	Seal D 18×22 DIN 7603 Al	1	
33	—	Screwed nipple 13 DIN 7627	1	
34	198 181 00 12	Oil pump gear	1	
35	000 997 24 41	Seal (between oil pump housing and bearing housing)	1	} from engine No. 65 00073
36	—	Washer 6.4 DIN 125	4	
37	—	Cap nut M 6 DIN 1587-5 S	4	
38	198 077 00 79	Gasket	1	
39	—	Washer 6.4 DIN 125	4	
40	—	Hex. nut M 6 DIN 934-5 S	4	
45	198 180 01 01	Suction and oil pump	1	
46	136 181 01 50	Bearing bushing	1	
47	198 180 00 07	Drive gear	1	
48	198 180 01 08	Oil pump shaft (with oil pump gear)	1	

Table 8

Oil Pump and Lubricating Lines

Group 18

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
49	198 180 00 03	Oil pump housing, lower part	1	from engine No. 65 00073
50	194 181 01 50	Bearing bushing	2	
51	—	Stud bolt M 6×15 DIN 835-5 S	2	
52	—	Hex.-hd. screw M 6×55 DIN 931-8 G	2	
53	—	Hex.-hd. screw M 6×65 DIN 931-8 G	2	
54	—	Washer 6.4 DIN 125	8	
55	—	Hex. nut M 6 DIN 934-5 S	4	
56	198 181 00 27	Drive	1	for drive at oil pump
57	—	Tightening pin 4×18 DIN 1481	1	
58	—	Snap ring 16 DIN 9045	1	
60	198 180 00 52	Suction pipe with strainer	1	up to engine No. 65 00072
61	198 180 02 52	Suction pipe with strainer	1	from engine No. 65 00073
62	186 995 06 44	Clamp	1	for suction pipe at oil pump
63	186 997 01 80	Sealing flange (between suction pipe and oil pump)	1	
64	—	Lock washer B 6 DIN 127	2	
65	—	Hex. nut M 6 DIN 934-5 S	2	
66	198 181 00 33	Coupling sleeve	1	for oil pump at cylinder crank- case
67	194 181 00 80	Gasket	1	
68	—	Lock washer B 8 DIN 137	2	
69	—	Hex.-hd. screw M 8×25 DIN 931-8 G	2	
70	—	Hex.-hd. screw M 8×18 DIN 933-8 G	2	from engine No. 65 00073
71	—	Hex.-hd. screw M 6×15 DIN 933-8 G	1	for suction pipe, clamp at support
72	—	Lock washer B 6 DIN 127	1	

Table 8

Oil Pump and Lubricating Lines

Group 18

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
73	—	Hex. nut M 6 DIN 934-5 S	1	for suction pipe clamp at support
74	198 180 00 33	Oil pressure relief valve (4 atü)	1	
75	198 993 04 01	Spring	1	
76	159 181 00 42	Plunger	1	
77	—	Circlip 12×1 DIN 472	1	
78	—	Seal D 20×24 DIN 7603 Al (for oil pressure relief valve at cylinder crankcase, spark plug side)	1	
79	000 184 20 25	Plate-type filter element	1	
80	000 184 04 12	Coil for element	1	
81	636 184 05 80	Seal	1	} for plate-type filter at oil pan
82	—	Washer 8.4 DIN 125	4	
83	—	Hex. nut M 8 DIN 934-5 S	4	
84	198 180 01 27	Oil line	1	from oil filter to injection pump
85	—	Seal D 22×27 DIN 7603 Al	1	} short circuit valve
86	186 184 01 30	Valve cone	1	
87	186 993 16 01	Pressure spring	1	
88	180 184 00 56	Plug screw	1	
—	198 180 00 21	replaced by together with 1 screwed nipple	198 180 03 21 198 997 07 72	— up to engine No. 55 00600
89	198 180 03 21	Oil line	1	from eng. No. 55 00601 up to eng. No. 65 00072
90	198 180 02 21	Oil line	1	from eng. No. 65 00072 to oil filter
91	198 180 01 21	Oil line (from oil filter to engine)	1	
92	198 180 00 24	Oil line	1	up to engine No. 65 00072
93	198 180 02 24	Oil line	1	from engine No. 65 00073 to pressure pump
94	—	Gasket 18 DIN 71511	1	} for oil line at press. pump from engine No. 65 00073
95	—	Washer 6.4 DIN 125	2	

Table 8

Oil Pump and Lubricating Lines

Group 18

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
73	—	Hex. nut M 6 DIN 934-5 S	1	for suction pipe clamp at support
74	198 180 00 33	Oil pressure relief valve (4 atü)	1	
75	198 993 04 01	Spring	1	
76	159 181 00 42	Plunger	1	
77	—	Circlip 12×1 DIN 472	1	
78	—	Seal D 20×24 DIN 7603 Al (for oil pressure relief valve at cylinder crankcase, spark plug side)	1	
79	000 184 20 25	Plate-type filter element	1	
80	000 184 04 12	Coil for element	1	
81	636 184 05 80	Seal	1	} for plate-type filter at oil pan
82	—	Washer 8.4 DIN 125	4	
83	—	Hex. nut M 8 DIN 934-5 S	4	
84	198 180 01 27	Oil line	1	from oil filter to injection pump
85	—	Seal D 22×27 DIN 7603 Al	1	} short circuit valve
86	186 184 01 30	Valve cone	1	
87	186 993 16 01	Pressure spring	1	
88	180 184 00 56	Plug screw	1	
—	198 180 00 21	replaced by together with 1 screwed nipple	198 180 03 21 198 997 07 72	— up to engine No. 55 00600
89	198 180 03 21	Oil line	1	from eng. No. 55 00601 up to eng. No. 65 00072
90	198 180 02 21	Oil line	1	from eng. No. 65 00072 to oil filter
91	198 180 01 21	Oil line (from oil filter to engine)	1	
92	198 180 00 24	Oil line	1	up to engine No. 65 00072
93	198 180 02 24	Oil line	1	from engine No. 65 00073 to pressure pump
94	—	Gasket 18 DIN 71511	1	} for oil line at press. pump from engine No. 65 00073
95	—	Washer 6.4 DIN 125	2	

Table 8

Oil Pump and Lubricating Lines

Group 18

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
96	—	Hex. nut M 6 DIN 934-5 S	2	for oil line at pressure pump from engine No. 65 00073
97	198 180 03 84	Connection flange	1	from engine No. 65 00073 in case of spare parts delivery of new oil pumps this flange must also be delivered from engine No. 55 00791 to 65 00072
—	198 180 01 84	Connection flange	1	only valid for spare parts delivery of new oil pumps up to engine No. 45 00108
—	198 180 02 84	Connection flange	1	only valid for spare parts delivery of new oil pumps from engine No. 45 00109 to 55 00790
100	194 184 00 17	Connection nipple	1	up to eng. No. 4500108
101	198 184 00 17	Connection nipple	1	from eng. No. 4500109 up to eng. No. 5500790
102	198 184 04 17	Connection nipple	1	from eng. No. 5500791 to 65 00072
103	194 997 00 45	Seal (for oil outlet nipple)	1	
104	194 181 01 80	Gasket	1	up to engine No. 55 00790
105	198 181 00 80	Gasket	1	from engine No. 55 00791
—	—	Washer 6.4 DIN 125	2	} up to engine No. 55 00790
—	—	Hex. nut M 6 DIN 934-5 S	2	
106	—	Washer 8.4 DIN 433	2	} from engine No. 55 00791
107	000 990 08 51	Hex. nut	2	
108	—	Seal D 22×27 DIN 7603-AI	1	} up to engine No. 45 00108
109	—	Double nipple 13 DIN 7611	1	
110	—	Seal D 18×22 DIN 7603 AI	1	} from engine No. 45 00109
111	—	Screwed nipple 13 DIN 7627	1	

Table 8

Oil Pump and Lubricating Lines

Group 18

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
112	198 995 02 10	Pipe bracket	1	for oil line from container to engine at cylinder crankcase
113	198 995 03 10	Clamp	1	
114	—	Hex.-hd. screw M 6×10 DIN 933-8 G	2	
115	—	Lock washer B 6 DIN 127	2	
116	—	Hex. nut M 6 DIN 934-5 S	2	for bracket of oil line from press. pump to oil filter
117	198 995 02 32	Clamp half	4	
118	—	Hex.-hd. screw M 6×28 DIN 931-8 G	2	
119	—	Lock washer B 6 DIN 127	2	
120	—	Hex. nut M 6 DIN 934-5 S	2	from engine No. 55 00154
121	198 180 00 19	Oil pressure gauge line (from oil pan to bracket at cylinder crankcase)	1	
122	—	Lock washer B 10 DIN 127	1	
123	—	Hex. nut M10 DIN 934-5 S	1	

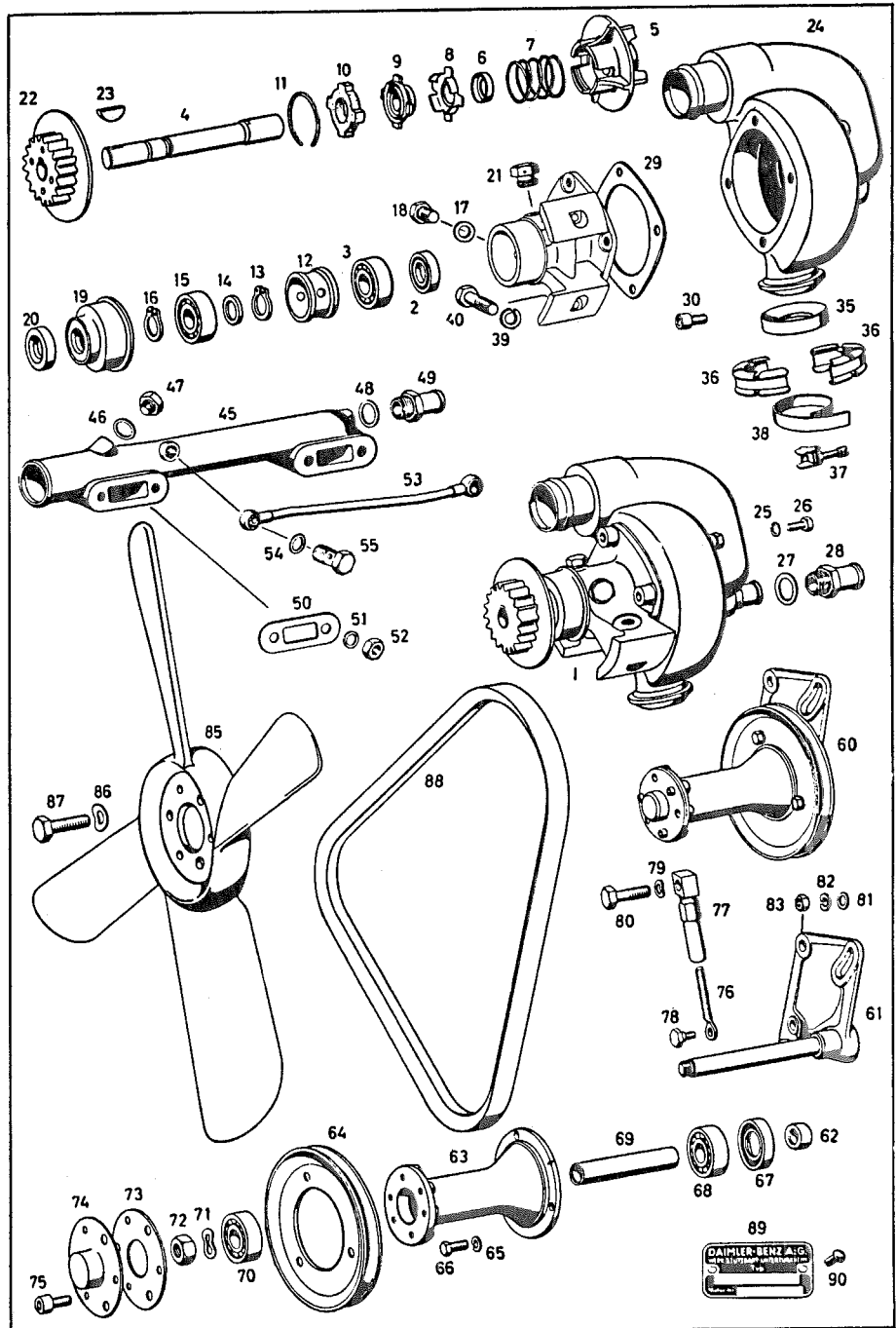


Table 9

Engine Cooling

Group 20

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
Cooling Water Pump				
1	198 200 01 01	Water pump	1	
2	136 997 00 47	Sealing ring (in bearing housing, inside)	1	
3	—	Annular groov. bear. 6202 DIN 625	1	
4	186 201 03 05	Water pump shaft	1	
5	186 201 02 07	Impeller	1	
6	312 201 02 59	Cover (sealing ring holder)	1	for sealing between impeller and bearing housing
7	180 993 11 01	Pressure spring	1	
8	312 201 03 58	Slip ring case	1	
9	312 201 01 18	Seal	1	
10	312 201 01 19	Slip ring	1	
11	312 994 12 35	Snap ring	1	
12	186 201 02 51	Spacer sleeve	1	
13	—	Circlip 15×1 DIN 471	1	
14	136 201 00 52	Washer	1	
15	—	Annular groov. bear. 6202 DIN 625	1	
16	—	Circlip 15×1 DIN 471	1	
17	—	Seal A 8×12 DIN 7603 AI	1	for plug of oil level control
18	—	Plug screw AM 8×1 DIN 7604	1	
19	186 200 00 60	Seal ring holder	1	for sealing at bearing housing, front
20	136 997 00 47	Sealing ring	1	
21	186 997 02 30	Screw plug (to bearing housing for ventilation)	1	
22	186 200 00 27	Coupling half (on water pump shaft)	1	

Table 9

Engine Cooling

Group 20

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
23	—	Woodruff key 4×5 DIN 6888 (for coupling half at water pump)	1	
24	198 200 00 03	Water pump housing	1	
25	—	Seal D 8×12 DIN 7603 Al	1	} up to engine No. 55 00736
26	—	Plug screw AM 8×1 DIN 7604	1	
27	—	Seal D 22×27 DIN 7603 Al	1	} for connection to cooling water cont.
28	198 201 00 31	Screwed nipple	1	
29	186 201 01 80	Gasket	1	} for water pump housing at bearing housing
30	—	Hex.-hd. socket screw M 8×15 DIN 912-8 G (compl. zinc-plated)	4	
35	—	Seal D 53 N 260c	1	} for water pump at cylinder cover
36	—	Clamp half S 53 N 260 (compl. zinc-plated)	2	
37	—	Hose clip S 9 N 262	1	
38	—	Hose strap 9×0.4 N 263	a.r.	state length when ordering
39	—	Lock washer B 8 DIN 127	2	} for water pump at generator support
40	—	Hex.-hd. screw M 8×40 DIN 931-8 G	2	
Cooling Water Outlet Tube				
45	198 203 01 31	Cooling water outlet tube	1	
46	—	Seal D 14×18 DIN 7603 Al	1	} for locking connection of thermostat
47	—	Plug screw AM 14×1.5 DIN 7604	1	
48	—	Seal D 18×22 DIN 7603 Al	1	} for connection of heating system
49	199 997 00 72	Screwed nipple	1	
50	199 203 00 80	Gasket	2	} for cooling water outlet tube at cylinder head
51	—	Washer 8.4 DIN 125	4	

Table 9

Engine Cooling

Group 20

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
23	—	Woodruff key 4×5 DIN 6888 (for coupling half at water pump)	1	
24	198 200 00 03	Water pump housing	1	
25	—	Seal D 8×12 DIN 7603 Al	1	} up to engine No. 55 00736
26	—	Plug screw AM 8×1 DIN 7604	1	
27	—	Seal D 22×27 DIN 7603 Al	1	} for connection to cooling water cont.
28	198 201 00 31	Screwed nipple	1	
29	186 201 01 80	Gasket	1	} for water pump housing at bearing housing
30	—	Hex.-hd. socket screw M 8×15 DIN 912-8 G (compl. zinc-plated)	4	
35	—	Seal D 53 N 260c	1	} for water pump at cylinder cover
36	—	Clamp half S 53 N 260 (compl. zinc-plated)	2	
37	—	Hose clip S 9 N 262	1	
38	—	Hose strap 9×0.4 N 263	a.r.	state length when ordering
39	—	Lock washer B 8 DIN 127	2	} for water pump at generator support
40	—	Hex.-hd. screw M 8×40 DIN 931-8 G	2	
Cooling Water Outlet Tube				
45	198 203 01 31	Cooling water outlet tube	1	
46	—	Seal D 14×18 DIN 7603 Al	1	} for locking connection of thermostat
47	—	Plug screw AM 14×1.5 DIN 7604	1	
48	—	Seal D 18×22 DIN 7603 Al	1	} for connection of heating system
49	199 997 00 72	Screwed nipple	1	
50	199 203 00 80	Gasket	2	} for cooling water outlet tube at cylinder head
51	—	Washer 8.4 DIN 125	4	

Table 9

Engine Cooling

Group 20

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
52	—	Hex. nut M 8 DIN 934-5 S	4	for cooling water outlet tube at cylinder head
53	198 200 00 53	Cooling water line (from outlet tube at cylinder head)	1	
54	—	Seal D 12×16 DIN 7603 Al	4	} for cooling water line at cooling water outl. tube and cylinder head
55	—	Hollow screw A 6 DIN 7623-6 S (compl. zinc-plated)	2	
60	198 200 01 28	Fan support with pulley	1	
61	198 200 00 28	Fan support	1	
62	194 205 00 51	Spacer ring	1	
63	198 205 00 12	Hub	1	
64	198 205 00 10	Pulley	1	
65	—	Lock washer B 6 DIN 127	3	} for pulley at hub
66	—	Hex.-hd. screw M 6×12 DIN 933-8 G	3	
67	000 997 25 46	Oil seal	1	
68	—	Annular groov. bear. 6202 DIN 625	1	
69	198 205 00 53	Spacer tube	1	
70	—	Annular groov. bear. 6202 DIN 625	1	
71	—	Lock washer B 12 DIN 137	1	
72	—	Hex. nut M 12×1.5 DIN 936-5 S	1	
73	186 205 00 80	Sealing flange (for pulley at fan)	1	
74	186 205 00 13	Cover	1	
75	—	Hex.-hd. socket screw M 6×12 DIN 912-8 G	3	
76	186 205 00 70	Tightening screw	1	
77	186 200 00 72	Tightening nut	1	
78	186 205 00 71	Hex.-hd. screw (for belt tensioner at fan support)	1	

Table 9

Engine Cooling

Group 20

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
79	—	Lock washer A 8 DIN 137	1	} for belt tensioner at support, generator
80	—	Hex.-hd. screw M 8×30 DIN 931-8 G	1	
81	—	Washer 8.4 DIN 125	3	} for fan support at cylinder crankcase
82	—	Lock washer B 8 DIN 127	3	
83	—	Hex. nut M 8 DIN 934-5 S	3	
Fan				
85	180 205 02 06	Fan	1	} for fan at pulley
86	—	Lock washer B 8 DIN 137	3	
87	—	Hex.-hd. screw M 8×22 DIN 933-8 G	3	
88	—	V-belt 9.5×975 N 275	1	
Accessories				
89	—	Engine plate N 202 MU 5	1	
90	—	Grooved lens-hd. pin 3×6 DIN 1476	2	

Table 9

Engine Cooling

Group 20

Fig. No.	No. of spare part	Denomination	Quantity	Remarks
79	—	Lock washer A 8 DIN 137	1	} for belt tensioner at support, generator
80	—	Hex.-hd. screw M 8×30 DIN 931-8 G	1	
81	—	Washer 8.4 DIN 125	3	} for fan support at cylinder crankcase
82	—	Lock washer B 8 DIN 127	3	
83	—	Hex. nut M 8 DIN 934-5 S	3	
Fan				
85	180 205 02 06	Fan	1	} for fan at pulley
86	—	Lock washer B 8 DIN 137	3	
87	—	Hex.-hd. screw M 8×22 DIN 933-8 G	3	
88	—	V-belt 9.5×975 N 275	1	
Accessories				
89	—	Engine plate N 202 MU 5	1	
90	—	Grooved lens-hd. pin 3×6 DIN 1476	2	

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