EDITION AUGUST, 1961

MOTORCYCLE SPARE PARTS LIST

R 50 · R 50 S

R 60

R 69 · R 69 S

BAYERISCHE MOTOREN WERKE A.G. MÜNCHEN 13

Printed in West Germany

294

This Spare Parts List is applicable for motorcycles, and is arranged in accordance with the new BMW Indexing System 00—99. The system of numbering of BMW spare parts can be seen from the following examples:

00 39 171 = Spring in Carburetor
= Main Group: Engine
= Sub-Group: Carburetor
= Part Number: Spring

99 13 457 = Screw M 6×15—8 G pho.
= Main Identification: DIN-Part
= Sub-Group: Screws
= Part Number: Dimensions

When looking for a **part number** (ordering number) of a part, find the **figure call-out number** in the illustration of the main group, and find the part number in the associated text which corresponds to the call-out number. When ordering parts it is advisable to specify the frame and engine serial numbers. Parts for which no figure call-out number exists will be found listed in the text under the group to which they belong.

The figure call-out numbers serve only to help in finding the part number and are not used for ordering parts.

When **ordering spare parts,** in addition to specifying the method of shipment, the following should be specified:

1. Quantity
2. Description of Part
3. Part Number

Parts of the frame will be delivered painted in black. Other parts, insofar as they are available in other colors may be ordered in that color.

The delivery of certain parts can only be made for a minimum quantity, i. e., in certain cases special price advantages are obtained by setting minimum quantities. Advice as to these parts is given by the circular letters of the Spare Parts Service.

When sending samples, it is important to affix labels to each sample, giving details of the sender's address, etc. Do not enclose letters, post cards or orders with a shipment of samples for which a previous arrangement has been made. The return of samples will be made when explicitly so requested. Used parts will not be preserved, but will be immediately destroyed.

All BMW spare parts are subject to the same thorough workmanship and tests as are parts used in the manufacture of complete vehicles.

BMW spare parts are labeled insofar as the size of the part permits:

Original-BWM-Ersatzteil

with the emblem  printed on.

The labeling „Original-BMW-Ersatzteil" is copyrighted. If, during a repair job, parts of other origin are discovered, the warranty is nullified.

All parts covered by this list are furnished through the local BMW Distributors, The West German BMW Spare Parts Centers and the BMW Agency in Berlin, who are all serviced by the BMW factory München-Milbertshofen.

Errors in the illustrations and designations may occur. We reserve the right to make changes.

Year of Construction and Frame Number

Model	Year of Construction	Frame Number
R 50	1955—1960	550 006—563 515
R 60	1956—1960	618 001—621 530
R 69	1955—1960	652 001—654 955
R 50/2	1960—	630 001—
R 60/2	1960—	622 001—
R 50 S	1960—	564 001—
R 69 S	1960—	655 001—

In order to easily find out the models R 50 and R 60 made in 1960 with Frame Numbers from 630 001— and 622 001— onwards, these models are in the quantity columns listed as R 50/2 and R 60/2.

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00 = Engine

Table 1

Engine Housing
Cylinder
Cylinderhead

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Engine Housing					
00 01 031	1	Engine housing with studs, cover, bearing bush and screen	1	—	—	—	—
00 01 032	1	Engine housing with studs, cover, bearing bush and screen	—	1	1	—	1
00 01 033	1	Engine housing with studs, cover, bearing bush and screen	—	—	—	1	—
00 01 188	2	Tappet guide bushing	4	—	—	—	—
00 01 189	2	Tappet guide bushing	—	4	4	—	4
00 01 190	2	Tappet guide bushing	—	—	—	4	—
00 01 180	3	Stud (E) for cover, top	1	1	1	1	1
00 01 182	4	Stud (E) for engine support, top	2	2	2	2	2
00 01 186	5	Stud (E) for bearing housing, left	1	1	1	1	1
99 03 306	6	Stud M 8×18 Sn 4—8 G pho.black. (E) for bearing housing, right	1	1	1	1	1
99 03 416	7	Stud M 10×22 Sn 4—8 G pho.black. (E) for cylinder	8	8	8	8	8
99 03 325	8	Stud M 8×25 Sn 4—5 cad. (E) for transmission	3	3	3	3	3
00 01 184	—	Stud (E) for rear bearing housing	5	5	5	5	5
00 01 110	9	Plug for oil hole	1	1	1	1	1
		Upper Cover on Engine Housing					
00 02 152	10	Upper cover	1	1	1	1	1
99 32 071	11	Lock washer B 6	1	1	1	1	1
00 02 193	12	Cap nut	1	1	1	1	1
		Rear Bearing Bush on Engine Housing					
00 01 162	13	Rear bearing bush for crankshaft	1	—	—	—	—
00 01 163	13	Rear bearing bush for crankshaft	—	1	1	1	1
00 01 164	14	Gasket	1	1	1	1	1
00 32 071	15	Lock washer B 6	5	5	5	5	5
99 22 054	16	Hex. nut M 6—6 S pho.black.	5	5	5	5	5

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Screen on Engine Housing					
00 07 153	17	Screen	1	1	1	1	1
99 32 071	18	Lock washer B 6	4	4	4	4	4
99 13 425	19	Hex.-head screw M 6×10—8 G pho.black.	4	4	4	4	4
		Sealing for Engine Mounting					
00 01 158	20	Sealing tube as required	1	1	1	1	1
00 02 112	21	Seal ring as required	1	1	1	1	1
		Gear Case Cover on Engine Housing					
00 02 027	22	Gear case cover with studs and breather pipe	1	—	—	—	—
00 02 028	22	Gear case cover with studs and breather pipe	—	1	1	—	1
00 02 031	22	Gear case cover with studs and breather pipe	—	—	—	1	—
00 01 177	23	Stud (E) for front end cover	2	2	2	2	2
00 02 166	24	Breather pipe	1	1	1	1	1
99 43 024	25	Notched pin 2×24 for breather pipe	1	1	1	1	1
99 03 190	26	Stud M 6×16 Sn 4—5 S cad. (E) for battery breaker and ignition magneto	2	2	2	—	2
99 03 196	26	Stud M 6×18 Sn 4—5 S cad. (E) for ignition magneto	—	—	—	2	—
00 02 172	27	Gasket between gear case cover and engine housing	1	1	1	1	1
99 31 650	28	Washer 6.4 cad. for attachment of gear case cover	12	12	12	12	12
99 19 937	29	Allen head screw M 6×40—8 G cad.	12	12	12	12	12
99 41 375	30	Mounting pin 5×16 for front end cover	1	1	1	1	1
		Bearing cover attachment on engine housing (for bearing cover see Table 2)					
99 32 090	31	Lock washer B 8 cad.	2	2	2	2	2
99 22 082	32	Hex. nut M 8—6 S pho.black.	2	2	2	2	2
99 32 071	33	Lock washer B 6	7	7	7	7	7
99 12 249	34	Hex.-head screw M 6×22—G pho.black.	4	4	4	4	4
99 12 270	35	Hex.-head screw M 6×28—8 G pho.black.	3	3	3	3	3

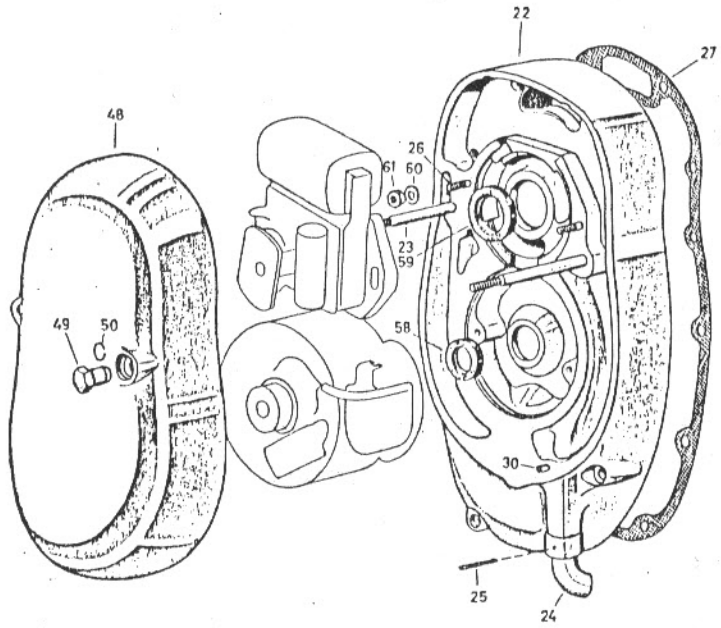
Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	69
		Oil Screen for Oil Pump on Engine Housing					
00 52 139	36	Oil screen	1	—	—	1	
00 52 140	36	Oil screen	—	1	1	—	
00 52 126	37	Gasket between oil screen and engine housing	1	—	—	1	
00 52 527	37	Gasket between oil screen and engine housing	—	1	1	—	
00 52 130	38	Locking plate for oil screen	1	1	1	1	
99 12 266	39	Hex.-head screw M 6×28—8 G pho.black.	2	2	2	2	
		Oil Level Gauge (Dip Stick)					
00 09 126	40	Dip stick with plug and gasket	1	—	—	1	
00 09 127	40	Dip stick with plug and gasket	—	1	1	—	
99 63 437	41	Gasket (seal ring) C 26×32 steel-asbestos	1	1	1	1	
		Oil Pan on Engine Housing					
00 07 029	42	Oil pan with threaded drain hole and mounting plate for prop stand return spring	1	1	1	1	
00 07 156	43	Gasket for oil pan	1	1	1	1	
99 32 071	44	Lock washer B 6	12	12	12	12	1
99 12 457	45	Hex.-head screw M 6×15—8 G pho.black.	12	12	12	12	1
99 63 242	46	Gasket (seal ring) C 14×20 steel-asbestos for drain plug	1	1	1	1	
00 07 104	47	Oil drain plug	1	1	—	—	
00 07 106	47	Oil drain plug, 0.1 mm. oversize thread	1	1	—	—	
00 07 161	47	Oil drain plug	—	—	1	1	
00 07 160	47	Oil drain plug, 0.1 mm. oversize thread	—	—	1	1	
		Front End Cover on Gearcase Cover					
00 02 179	48	Front end cover on gearcase cover casting	1	1	1	1	
00 02 194	49	Hex. nut for front end cover	2	2	2	2	
40 80 160	50	Snap ring for front end cover	2	2	2	2	

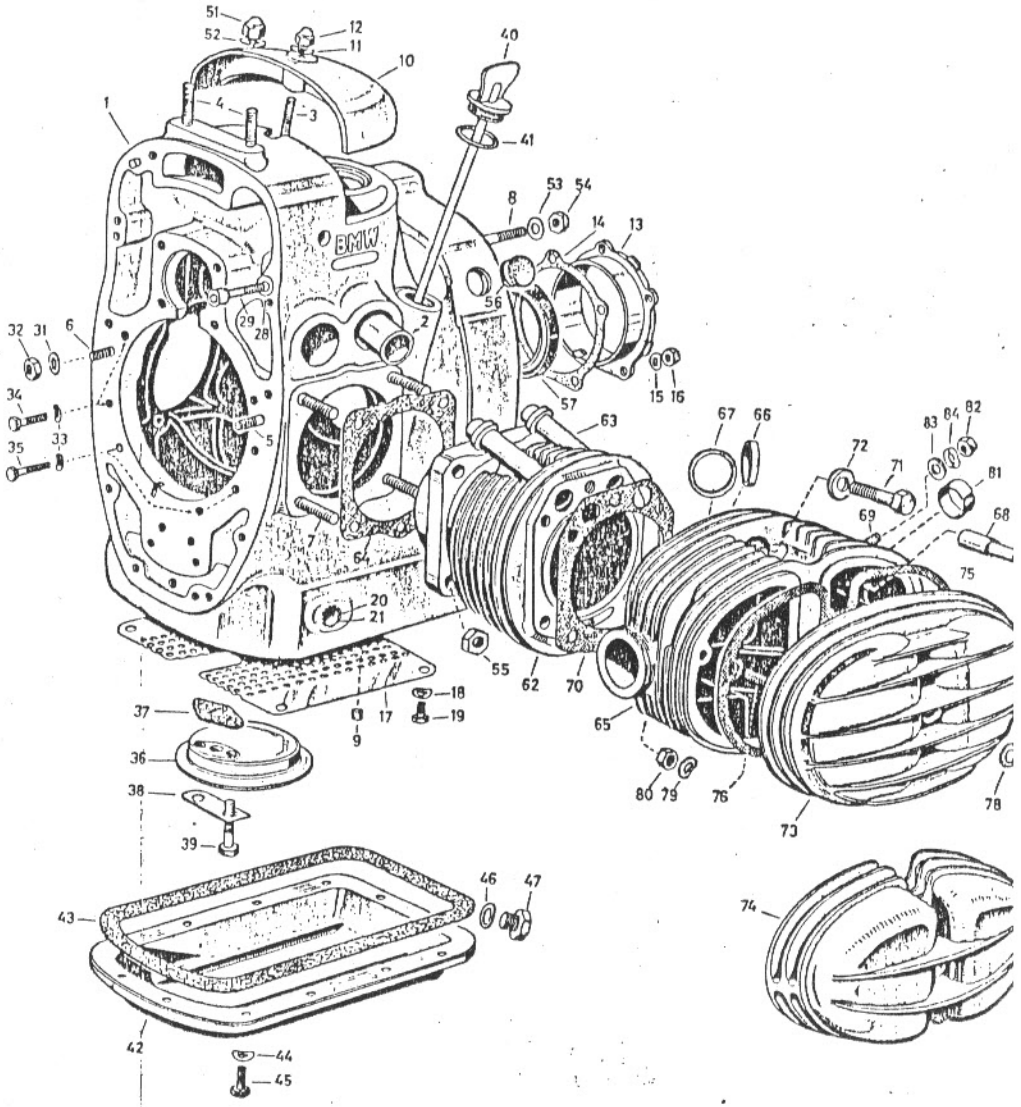
00 = Engine		Engine Housing / Cylinder and Cylinderhead	Table 1				
Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Attachment for engine mounting, top					
50 96 152	51	Acorn nut	2	2	2	2	2
99 33 088	52	Lock washer A 8	2	—	—	—	—
99 33 094	52	Lock washer B 8	—	2	2	2	2
		Transmission and Cylinder Mounting					
99 31 065	53	Washer 8.4 cad. for transmission mounting	3	3	3	3	3
99 22 081	54	Hex. nut M 8—6 S cad. for transmission mounting	3	3	3	3	3
00 01 104	55	Hex. nut for cylinder mounting	8	8	8	8	8
		Seals					
00 01 106	56	Plug for timing hole	1	1	1	1	1
00 01 120	57	Seal for flywheel side	1	1	—	1	—
00 01 119	57	Seal for flywheel	—	—	1	—	1
00 02 196	58	Seal for generator side	1	—	—	1	—
00 02 197	58	Seal for generator side	—	1	1	—	1
00 02 199	59	Seal for magneto side of camshaft	—	—	—	1	—
00 02 198	59	Seal for magneto side of camshaft	1	1	1	—	1
		Magneto Attachment					
99 31 650	60	Washer 6.4 cad. for magneto attachment on gearcase cover carting	2	2	2	2	2
99 22 053	61	Hex. nut M 6—6 S cad. for magneto attachment on gearcase cover casting	2	2	2	2	2
		Cylinder and Cylinderhead					
00 10 046	—	Cylinder with piston, standard, consisting of: Cylinder 00 10 02, Piston 00 12 09	2	—	—	—	—
00 10 036	—	Cylinder with piston, standard, consisting of: Cylinder 00 10 027, Piston 00 12 090	—	R 50/2 2	—	—	—
00 10 038	—	Cylinder with pistoa, standard, consisting of: Cylinder 00 10 031, Piston 00 12 072	—	R 60/2 2	—	—	—
00 10 037	—	Cylinder with piston, standard, consisting of: Cylinder 00 10 027, Piston 00 12 094	—	—	2	—	—

00 = Engin		Cylinder and Cylinderhead	Table 1				
Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	69
00 10 049	—	Cylinder with piston, standard, consisting of: Cylinder 00 10 035, Piston 00 12 080	—	—	—	2	–
00 10 039	—	Cylinder with piston, standard, consisting of: Cylinder 00 10 035, Piston 00 12 081	—	—	—	—	2
00 10 027	62	Cylinder with oil return pipe and protecting tube for R 50 and R 50/2	R 50 2	R 50/2 2	2	—	–
00 10 031	62	Cylinder with oil return pipe and protecting tube for R 60 and R 60/2	R 60 2	R 60/2 2	—	—	–
00 10 035	62	Cylinder with oil return pipe, protecting tube and ring	—	—	—	2	2
00 10 151	63	Protecting tube for R 50	R 50 4	—	—	—	–
00 10 152	63	Protecting tube for R 60 et R 60/2	R 60 4	R 60/2 4	—	—	–
00 10 165	63	Protecting tube for R 50/2	—	R 50/2 4	4	—	–
00 10 153	63	Protecting tube	—	—	—	4	4
00 10 158	64	Gasket between engine housing and cylinder	2	—	—	—	–
00 10 160	64	Gasket between engine housing and cylinder	—	2	2	—	2
00 10 156	64	Gasket between engine housing and cylinder	—	—	—	2	–
		Cylinder Head					
00 21 030	—	Cylinder head, right, with spark plug bushing, long valve guide bushings, valve seat rings, sleeve and studs (on R 50 starting with vehicle 5 57 706)	1	1	—	—	–
00 21 023	—	Cylinderhead, right, with spark plug bushing, long valve guide bushings, valve seat rings, sleeve and studs	—	—	1	—	–
00 21 031	—	Cylinderhead, right, with spark plug bushing, valve guide bushings, valve seat rings, sleeve and studs	—	—	—	1	1
00 21 029	65	Cylinderhead, left, with spark plug bushing, long valve guide bushings, valve seat rings, sleeve and studs (on R 50 starting with vehicle 557 706)	1	1	—	—	–
00 21 024	65	Cylinderhead, left, with spark plug bushing, valve guide bushings, valve seat rings, sleeve and studs	—	—	1	—	–

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
00 21 032	65	Cylinderhead, left, with spark plug bushing, bushing, valve guide bushings, valve seat rings, sleeve and studs	—	—	—	1	1
00 21 110	66	Valve seat ring, inlet	2	2	2	—	—
00 21 122	66	Valve seat ring, inlet	—	—	—	2	2
00 21 114	67	Valve seat ring, exhaust	2	2	2	—	—
00 21 123	67	Valve seat ring, exhaust	—	—	—	2	2
00 22 112	68	Sleeve	8	8	8	—	—
00 22 114	68	Sleeve	—	—	—	8	8
00 21 100	69	Stud (E) for carburetor	4	4	4	4	4
99 03 354	—	Stud M 8×38—5 S cad. (E) for front end cover	2	2	2	—	—
99 03 372	—	Stud M 8×50 Sn 4—5 S cad. (E) for front end cover	—	—	—	2	2
00 22 118	70	Gasket between cylinder and cylinderhead	2	2	2	—	—
00 22 168	70	Gasket between cylinder and cylinderhead	—	—	—	2	2
00 22 108	71	Hex. head screw for attachment of cylinderhead	—	—	—	4	4
00 22 166	72	Flat washer for attachment of cylinderhead	—	—	—	4	4
00 23 025	73	Protective cover with stud for cylinderhead	2	2	—	—	—
00 23 024	74	Protective cover with stud for cylinderhead	—	—	2	—	—
00 23 027	74	Protective cover with stud for cylinderhead	—	—	—	2	2
00 23 150	75	Gasket between cylinderhead and rocker cover	2	2	2	—	—
00 23 152	75	Gasket between cylinderhead and rocker cover	—	—	—	2	2
		Attachment parts for rocker cover					
99 03 838	76	Stud M 6×22 Sn 4—5 S cad. (E)	4	—	—	—	—
99 03 209	76	Stud M 6×22 Sn 4—5 S cad. (E)	—	—	—	4	—
00 23 160	77	Cap nut	2	2	2	8	2
99 32 090	78	Lock washer B 8 cad.	2	2	2	2	2
99 32 070	79	Lock washer B 8 cad.	8	8	8	4	8
99 22 053	80	Hex. nut M 6—6 S cad.	4	4	4	4	4

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	6
		Carburetor attachment on cylinder heads					
00 42 168	81	Centering bush	—	—	2	—	
99 22 081	82	Hex. nut M 8—6 S cad.	4	4	4	4	
99 31 655	83	Flat washer 8.4 cad.	—	—	4	4	
99 32 090	84	Lock washer B 8 cad.	4	4	—	—	


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00 = Engine

Table 2

Crank Drive
Valve Mechanism
Lubrication System
Clutch

Ordering No.	Coll-out No.	Description of Part	Qty
		Crank Drive	
		R 50	
00 16 239	1	Crankshaft with connecting rod	1
00 16 234	4	Crankpin	2
00 17 033	6	Connecting rod with bushing	2
00 17 150	7	Connecting rod bushing (for piston pin)	2
00 16 128	8	Roller cage	2
00 16 160	9	Roller 7 mm. in dia., standard	28
00 16 162	9	Roller 7 mm. in dia., with 0.01 mm. oversize	28
00 16 163	9	Roller 7 mm. in dia., with 0.02 mm. oversize	28
00 16 164	9	Roller 7 mm. in dia., with 0.03 mm. oversize	28
00 16 165	9	Roller 7 mm. in dia., with 0.04 mm. oversize	28
00 16 166	9	Roller 7 mm. in dia., with 0.05 mm. oversize	28
00 16 167	9	Roller 7 mm. in dia., with 0.06 mm. oversize	28
00 16 216	10	Oil slinger	2
99 00 106	11	Countersunk screw M 6×10—5 S pho.black. for oil slinger	2
		R 60	
00 16 144	1	Crankshaft with connecting rod	1
00 16 233	4	Crankpin	2
00 17 031	6	Connecting rod with bushing	2
00 17 150	7	Connecting rod bushing (for piston pin)	2
00 17 158	8	Roller cage	2
00 16 160	9	Roller 7 mm. in dia., standard	28
00 16 162	9	Roller 7 mm. in dia., with 0.01 mm. oversize	28
00 16 163	9	Roller 7 mm. in dia., with 0.02 mm. oversize	28
00 16 164	9	Roller 7 mm. in dia., with 0.03 mm. oversize	28
00 16 165	9	Roller 7 mm. in dia., with 0.04 mm. oversize	28
00 16 166	9	Roller 7 mm. in dia., with 0.05 mm. oversize	28
00 16 167	9	Roller 7 mm. in dia., with 0.06 mm. oversize	28
00 16 217	10	Oil slinger	2
99 00 106	11	Countersunk screw M 6×10—5 S pho.black. for oil slinger	2

Ordering No.	Call-out No.	Description of Part	Qty.
		R 50/2 and R 50 S	
00 16 041	1	Crankshaft with connecting rod	1
00 16 237	2	Front crank web	1
00 16 277	3	Rear crank web	1
00 16 235	4	Crankpin	2
00 17 052	6	Connecting rod with bushing	2
00 17 150	7	Bushing for piston pin	2
00 16 125	8	Roller cage	32
00 16 821	9	Roller 4.994 mm. in dia.	32
00 16 822	9	Roller 4.996 mm. in dia.	32
00 16 823	9	Roller 4.998 mm. in dia.	32
00 16 824	9	Roller 5.000 mm. in dia.	32
00 16 826	9	Roller 5.002 mm. in dia.	32
00 16 827	9	Roller 5.004 mm. in dia.	32
00 16 835	9	Roller 5.010 mm. in dia.	32
00 16 836	9	Roller 5.020 mm. in dia.	32
00 16 837	9	Roller 5.030 mm. in dia.	32
00 16 219	10	Oil slinger	2
99 00 105	11	Countersunk screw AM 6×10—5 S pho. for oil slinger	2
		R 60/2 and R 69 S	
00 16 034	1	Crankshaft with connecting rod	1
00 16 239	2	Front crank web	1
00 16 279	3	Rear crank web	1
00 16 231	4	Crankpin	2
00 16 264	5	Plug for crankpin	2
00 17 031	6	Connecting rod with bushing	2
00 17 150	7	Bushing for piston pin	2
00 17 720	8	Roller cage	2
00 16 821	9	Roller 4.994 mm. in dia.	36
00 16 822	9	Roller 4.996 mm. in dia.	36
00 16 823	9	Roller 4.998 mm. in dia.	36
00 16 824	9	Roller 5.000 mm. in dia.	36
00 16 826	9	Roller 5.002 mm. in dia.	36
00 16 827	9	Roller 5.004 mm. in dia.	36

Ordering No.	Call-out No.	Description of Part	Qty.
00 16 835	9	Roller 5.010 mm. in dia.	36
00 16 836	9	Roller 5.020 mm. in dia.	36
00 16 837	9	Roller 5.030 mm. in dia.	36
00 16 221	10	Oil slinger	2
99 00 105	11	Countersunk screw AM 6×10—5 S pho. for oil slinger	2
		R 69	
00 16 035	1	Crankshaft with connecting rod	1
00 16 231	4	Crankpin	2
00 16 264	5	Plug for crankpin	4
00 17 031	6	Connecting rod with bushing	2
00 17 150	7	Connecting rod bushing	2
00 17 158	8	Roller cage	2
00 16 160	9	Roller 7 mm. in dia., standard	28
00 16 162	9	Roller 7 mm. in dia., with 0.01 mm. oversize	28
00 16 143	9	Roller 7 mm. in dia., with 0.02 mm. oversize	28
00 16 144	9	Roller 7 mm. in dia., with 0.03 mm. oversize	28
00 16 165	9	Roller 7 mm. in dia., with 0.04 mm. oversize	28
00 16 138	9	Roller 7 mm. in dia., with 0.05 mm. oversize	28
00 16 167	9	Roller 7 mm. in dia., with 0.06 mm. oversize	28
00 16 218	10	Oil slinger	2
99 00 106	11	Countersunk screw M 6×10—5 S pho.black. for oil slinger	4

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
99 81 213	12	Ball bearing 6203, front, for generator	1	—	—	1	—
99 81 044	12	Ball bearing 6004, front, for generator	—	1	1	—	1
99 81 242	13	Ball bearing 6207 (Main Bearing), front and rear	2	2	—	—	—
99 81 245	13	Ball bearing 6207 MN 20 (Main Bearing), front	—	—	1	1	1
00 16 272	14	Spherical roller bearing, rear	—	—	1	1	1
00 16 240	15	Spacer, inside, front	1	—	—	—	—
00 16 268	15	Spacer, inside, front	—	1	1	1	1
00 16 244	16	Spacer, outside, front	1	—	—	—	—
00 16 212	17	Spacer, front and rear	2	—	—	—	—
00 16 266	17	Shim, rear	—	1	1	1	1
00 16 130	18	Spring washer for rear crankshaft bearing	1	1	1	1	1
00 16 252	19	Oil retainer for rear crankshaft bearing	1	1	1	1	1
00 16 256	20	Gear set for crankshaft and camshaft	1	—	—	—	—
00 16 257	20	Gear set for crankshaft and camshaft	—	1	1	—	1
00 16 259	20	Gear set for crankshaft and camshaft	—	—	—	1	—
		Gear attachment on front crankweb					
95 51 480	21	Woodruff key 5×6.5	1	1	1	1	1
98 34 171	22	Circlips 25×1.2	1	—	—	1	—
00 16 201	23	Shim (thickness as required)	1	—	—	1	—
		Flywheel attachment on rear crankweb					
00 16 132	24	Woodruff key	1	1	1	1	1
00 16 225	25	Lock plate	1	1	1	1	1
00 16 248	26	Hex.-head screw	1	1	1	1	1
		Bearing cover on engine housing (For attachment see Table 1)					
00 02 151	27	Bearing cover plate	1	—	—	—	—
00 02 033	27	Bearing cover plate	—	—	—	1	—
00 02 034	27	Bearing cover plate	—	1	1	—	1
00 02 110	28	Plug for oil hole	1	1	1	1	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	6
		Bearing bushing for crankshaft					
00 02 156	29	Bearing bushing	1	—	—	—	
		Flange and bearing bushing on bearing cover plate					
00 02 176	30	Flange with oil jet	1	—	—	—	
00 02 174	30	Flange with oil jet	—	1	1	1	
99 32 071	31	Lock washer B 6	4	4	4	4	
99 12 235	32	Hex.-head screw M 6×18—8 G pho.black. ..	4	—	—	—	
99 13 462	32	Hex.-head screw	—	4	4	4	

Ordering No.	Call-out No.	Description of Part	Qty.
		Piston and Piston Rings	
		Piston and piston rings for R 50 and R 50/2	
00 12 090	33	Piston with pin and rings, standard	2
00 12 098	33	Piston with 0.5 mm. oversize, with pin and rings	2
00 12 099	33	Piston with 1 mm. oversize, with pin and rings	2
00 14 120	34	Compression ring (2 mm. high), standard	2
00 14 121	34	Compression ring (2 mm. high) with 0.5 mm. oversize	2
00 14 126	34	Compression ring (2 mm. high) with 1 mm. oversize	2
00 14 127	35	Compression ring (1.5 mm. high), standard	2
00 14 128	35	Compression ring (1.5 mm. high) with 0.5 mm. oversize	2
00 14 129	35	Compression ring (1.5 mm. high) with 1 mm. oversize	2
00 14 159	36	Oil ring (angular), standard	2
00 14 160	36	Oil ring (angular) with 0.5 mm. oversize	2
00 14 161	36	Oil ring (angular) with 1 mm. oversize	2
00 14 122	37	Slotted ring, standard	4
00 14 123	37	Slotted ring with 0.5 mm. oversize	4
00 14 124	37	Slotted ring with 1 mm. oversize	4
00 14 202	38	Snap ring	4
		Piston and piston rings for R 50 S	
00 12 094	39	Piston with pin and rings, standard	2
00 12 095	39	Piston with 0.5 mm. oversize, with pin and rings	2
00 12 096	39	Piston with 1 mm. oversize, with pin and rings	2
00 14 574	40	Piston ring (chamfered inside), Groove I, standard	2
00 14 575	40	Piston ring (chamfered inside), Groove I, with 0.5 mm. oversize	2
00 14 576	40	Piston ring (chamfered inside), Groove I, with 1 mm. oversize	2
00 14 195	41	Angular ring, Grove II, standard	2
00 14 196	41	Angular ring, Groove II, with 0.5 mm. oversize	2
00 14 197	41	Angular ring, Groove II, with 1 mm. oversize	2
00 14 186	42	Slotted ring (chamfered top) Groove III, standard	2
00 14 187	42	Slotted ring (chamfered top), Groove III, with 0.5 mm. oversize	2
00 14 188	42	Slotted ring (chamfered top), Groove III, with 1 mm. oversize	2
99 33 642	43	Snap ring C 20 for piston pin	4

Ordering No.	Call-out No.	Description of Part	Qty.
		Piston and piston rings for R 60	
00 12 190	33	Piston with pin and rings	2
00 12 191	—	Piston, standard	2
00 12 198	33	Piston with 0.5 mm. oversize, with pin and rings	2
00 12 199	33	Piston with 1 mm. oversize, with pin and rings	2
00 14 150	34	Compression ring (2 mm. high), standard	2
00 14 152	34	Compression ring (2 mm. high) with 0.5 mm. oversize	2
00 14 154	34	Compression ring (2 mm. high) with 1 mm. oversize	2
00 14 520	35	Compression ring (1.5 mm. high), standard	2
00 14 522	35	Compression ring (1.5 mm. high) with 0.5 mm. oversize	2
00 14 524	35	Compression ring (1.5 mm. high) with 1 mm. oversize	2
00 14 142	36	Oil ring (angular), standard	2
00 14 144	36	Oil ring (angular) with 0.5 mm. oversize	2
00 14 146	36	Oil ring (angular) with 1 mm. oversize	2
00 14 136	37	Slotted ring, standard	4
00 14 139	37	Slotted ring, with 0.5 mm. oversize	4
00 14 141	37	Slotted ring with 1 mm. oversize	4
00 14 202	38	Snap ring	4
		Piston and piston rings for R 60/2	
00 12 072	39	Piston with pin and rings, standard	2
00 12 073	39	Piston with 0.5 mm. oversize, with pin and rings	2
00 12 074	39	Piston with 1 mm. oversize, with pin and rings	2
00 14 546	40	Piston ring (chamfered inside), Groove I, standard	2
00 14 547	40	Piston ring (chamfered insid), Groove I, with 0.5 mm. oversize	2
00 14 548	40	Piston ring (chamfered inside), Groove I, with 1 mm. oversize	2
00 14 176	41	Angular ring, Groove II, standard	2
00 14 171	41	Angular ring, Groove II, with 0.5 mm. oversize	2
00 14 172	41	Angular ring, Groove II, with 1 mm. oversize	2
00 14 178	42	Slotted ring (chamfered top), Groove III, standard	2
00 14 173	42	Slotted ring (chamfered top), Groove III, with 0.5 mm. oversize	2
00 14 174	42	Slotted ring (chamfered top), Groove III, with 1 mm. oversize	2
99 33 642	43	Snap ring C 20 for piston pin	4

Ordering No.	Call-out No.	Description of Part	Qty.
		Piston an piston rings for R 69	
00 12 080	33	Piston with pin and rings, standard	2
00 12 088	33	Piston with 0.5 mm. oversize, with pin and rings	2
00 12 089	33	Piston with 1 mm. oversize, with pin and rings	2
00 14 150	34	Compression ring, standard	6
00 14 152	34	Compression ring with 0.5 mm. oversize	6
00 14 154	34	Compression ring with 1 mm. oversize	6
00 14 137	37	Slotted ring, standard	4
00 14 139	37	Slotted ring with 0.5 mm. oversize	4
00 14 141	37	Slotted ring with 1 mm. oversize	4
00 14 202	38	Snap ring	4
		Piston and piston rings for R 69 S	
00 12 081	39	Piston with pin and rings, standard	2
00 12 082	39	Piston with 0.5 mm. oversize, with piston and rings	2
00 12 083	39	Piston with 1 mm. oversize, with piston and rings	2
00 14 546	40	Piston ring (chamfered inside), Groove I, standard	2
00 14 547	40	Piston ring (chamfered inside), Groove I, with 0.5 mm. oversize	2
00 14 548	40	Piston ring (chamfered inside), Groove I, with 1 mm. oversize	2
00 14 176	41	Angular ring, Groove II, standard	2
00 14 171	41	Angular ring, Groove II, with 0.5 mm. oversize	2
00 14 172	41	Angular ring, Groove II, with 1 mm. oversize	2
00 14 178	42	Slotted ring (chamfered top), Groove III, standard	2
00 14 173	42	Slotted ring (chamfered top), Groove III, with 0.5 mm. oversize	2
00 14 174	42	Slotted ring (chamfered top), Groove III, with 1 mm. oversize	2
99 33 642	43	Snap ring C 20 for piston pin	4

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Valve Mechanism					
00 31 027	44	Camshaft with gear	1	—	—	—	—
00 31 028	44	Camshaft	—	1	—	—	—
00 31 030	44	Camshaft	—	—	1	—	1
00 31 029	44	Camshaft	—	—	—	1	—
00 31 168	45	Breather plate with pin	1	—	—	1	—
00 31 169	45	Breather plate with pin	—	1	1	—	1
00 31 152	46	Coil spring for breather plate	1	1	1	1	1
00 31 164	47	Cover plate for breather plate	1	—	—	1	—
00 30 150	48	Bearing bushing for camshaft	1	1	1	1	1
00 30 102	49	Snap ring for bearing bushing (inside)	1	1	1	1	1
00 30 104	50	Screw for bearing bushing	4	4	4	4	4
99 81 213	51	Ball bearing 6203 for camshaft	2	2	2	2	2
09 81 041	52	Ball bearing 6003 for camshaft, front	—	—	—	1	—
99 51 461	53	Woodruff key 4×6.5 for camshaft gear	1	1	1	1	1
99 33 451	54	Snap ring 35 for breather plate	1	1	1	1	1
00 31 172	55	Spring washer for camshaft	—	—	—	1	—
00 33 102	56	Tappet (valve lifter), standard	4	—	—	—	—
00 33 104	56	Tappet with 0.04 mm. oversize	as req.	—	—	—	—
00 33 124	56	Tappet, standard	—	4	4	—	—
00 33 125	56	Tappet with 0.01 mm. oversize	—	as req.	as req.	—	—
00 33 126	56	Tappet with 0.04 mm. oversize	—	as req.	as req.	—	—
00 33 150	56	Tappet, standard	—	—	—	4	—
00 33 152	56	Tappet with 0.04 mm. oversize	—	—	—	as req.	—
00 33 153	56	Tappet, standard	—	—	—	—	4
00 33 154	56	Tappet with 0.01 mm. oversize	—	—	—	—	as req.
00 33 155	56	Tappet with 0.04 mm. oversize	—	—	—	—	as req.
00 33 163	57	Rubber sleeve for tappet guide bushing	4	4	4	4	4
00 33 170	58	Push rod for R 50, R 50/2, R 50 S	R 50 4	R 50/2 4	4	—	—
00 33 174	58	Push for R 60, R 60/2	R 60 4	R 60/2 4	—	—	—
00 33 004	58	Push rod	—	—	—	4	4
00 34 122	59	Rocker arm for inlet, left, and exhaust, right	2	2	2	—	—
00 34 172	59	Rocker arm for inlet, left, and exhaust, right	—	—	—	2	2
00 34 124	—	Rocker arm for inlet, right, and exhaust, left	2	2	2	—	—
00 34 174	—	Rocker arm for inlet, right, and exhaust, left	—	—	—	2	2

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
00 34 110	60	Support for rocker arm shaft	8	8	8	—	—
00 34 158	60	Support for rocker arm shaft	—	—	—	8	8
00 21 136	61	Hex.-head screw for support	8	8	8	—	—
00 22 109	61	Hex.-head screw for support and cylinder-head	—	—	—	8	8
00 34 102	62	Rocker arm shaft	4	—	—	—	—
00 34 150	62	Rocker arm shaft	—	4	4	—	—
00 34 180	62	Rocker arm shaft	—	—	—	4	4
00 34 112	63	Washer for rocker arm	4	4	4	—	—
00 34 162	64	Washer for rocker arm	—	—	—	8	8
00 34 134	65	Bushing for rocker arm	8	8	8	—	—
00 34 186	66	Spacer bushing	—	—	—	4	4
00 34 190	67	Bearing needle 3×15.8	—	—	—	136	136
00 34 176	68	Adjusting screw	4	4	4	—	—
00 34 178	68	Adjusting screw	—	—	—	4	4
00 34 128	69	Nut for adjusting screw	4	4	4	4	4
00 21 104	70	Valve guide bushing, standard	4	—	—	—	—
00 21 106	70	Valve guide bushing, O. D. with 0.1 mm. oversize	4	—	—	—	—
00 21 107	70	Valve guide bushing, O. D. with 0.2 mm. oversize	4	—	—	—	—
00 21 108	70	Valve guide bushing, O. D. with 0.3 mm. oversize	4	—	—	—	—
00 21 804	70	Valve guide bushing, standard (on R 50 starting with vehicle 557 706)	4	4	2	—	—
00 21 806	70	Valve guide bushing, O. D. with 0.1 mm. oversize (on R 50 starting with vehicle 557 706)	4	4	2	—	—
00 21 807	70	Valve guide bushing, O. D. with 0.2 mm. oversize (on R 50 starting with vehicle 557 706)	4	4	2	—	—
00 21 808	70	Valve guide bushing, O. D. with 0.3 mm. oversize (on R 50 starting with vehicle 557 706)	4	4	2	—	—
00 21 720	70	Valve guide bushing for exhaust, standard	—	—	2	—	—
00 21 724	70	Valve guide bushing for exhaust, O. D. with 0.1 mm. oversize	—	—	2	—	—
00 21 725	70	Valve guide bushing for exhaust, O. D. with 0.2 mm. oversize	—	—	2	—	—

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69
00 21 726	70	Valve guide bushing for exhaust, O. D. with 0.3 mm. oversize	—	—	2	—	—
00 21 103	70	Valve guide bushing, standard	—	—	—	—	4
00 21 105	70	Valve guide bushing, O. D. with 0.1 mm. oversize	—	—	—	—	4
00 21 116	71	Circlip for valve guide bushing	4	4	4	—	—
00 21 118	72	Circlip for valve guide bushing	—	—	—	4	4
00 21 119	73	Washer for valve guide bushing	—	—	—	4	4
00 26 110	74	Valve spring, inside	4	4	4	—	—
00 26 160	74	Valve spring, inside	—	—	—	4	4
00 26 118	75	Valve spring, outside	4	4	4	—	—
00 26 164	75	Valve spring, outside	—	—	—	4	4
00 26 132	76	Spring sleeve	4	—	—	—	—
00 26 532	76	Spring sleeve (on R 50 starting with vehicle 557 706)	4	—	—	—	—
00 26 832	76	Spring sleeve	—	4	4	—	—
00 26 182	76	Spring sleeve	—	—	—	4	4
00 26 128	77	Spring retainer	4	4	4	—	—
00 26 178	78	Spring retainer	—	—	—	4	4
00 26 186	79	Insulating washer for spring retainer	—	—	—	4	4
00 26 124	80	Locks (split)	4	—	—	—	—
00 26 524	80	Locks (split) on R 50 starting with vehicle 557 706	4	—	—	—	—
00 26 824	80	Locks (split)	4	—	—	—	—
00 26 174	80	Locks (split)	—	4	4	—	—
00 26 101	81	Valve, intake	2	—	—	—	—
00 26 501	81	Valve, intake (on R 50 starting with vehicle 557 706)	2	2	2	—	—
00 26 150	81	Valve intake	—	—	—	2	2
00 26 109	82	Valve, exhaust	2	—	—	—	—
00 26 509	82	Valve, exhaust (on R 50 starting with vehicle 557 706)	2	2	—	—	—
00 26 107	82	Valve, exhaust	—	—	2	—	—
00 26 158	82	Valve, exhaust	—	—	—	2	2

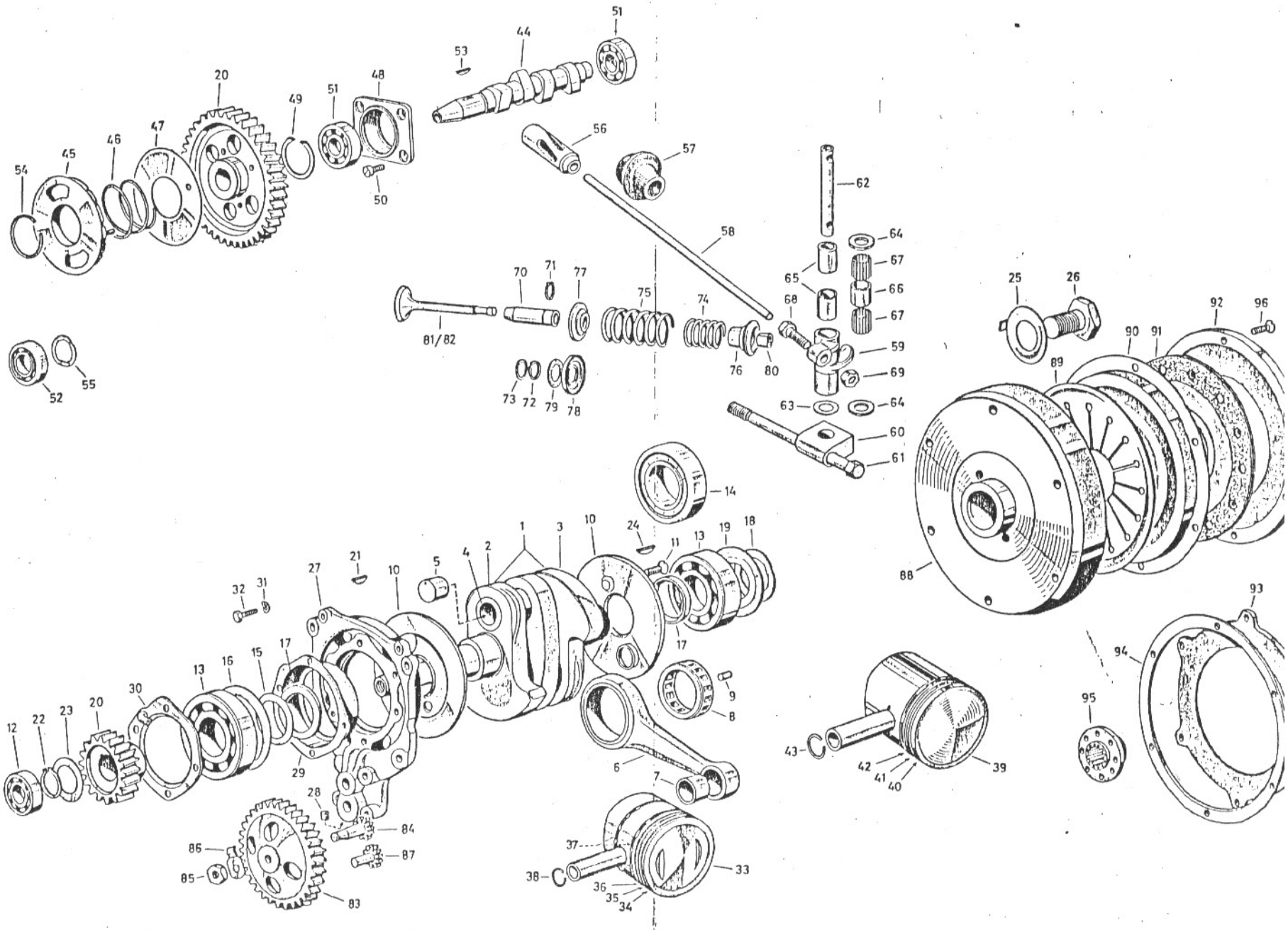
Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Lubrication System					
00 52 154	83	Drive gear for oil pump gears	1	1	1	1	1
00 52 164	84	Oil pump gear (long)	1	1	1	1	1
00 52 167	85	Hex. nut for drive gear	1	1	1	1	1
00 52 168	86	Locking plate for drive gear	1	1	1	1	1
00 52 171	87	Oil pump idler gear (short)	1	1	1	1	1
		Clutch					
00 68 032	88	Flywheel	1	—	—	—	—
00 68 037	88	Flywheel	—	1	—	—	—
00 68 035	88	Flywheel	—	—	1	—	1
00 68 033	88	Flywheel	—	—	—	1	—
00 70 184	89	Diaphragm spring	1	1	—	1	—
00 70 182	89	Diaphragm spring	—	—	1	—	1
00 70 164	90	Pressure plate assembly	1	1	1	1	1
00 70 060	91	Clutch plate with lining and hub (Thickness 9 mm.)	1	1	1	1	1
00 70 149	92	Pressure ring (for clutch plate with 9 mm. thickness)	—	1	1	—	1
00 70 152	93	Pressure ring (for clutch plate with 5 mm. thickness)	1	—	—	1	—
00 70 510	94	Spacer ring (required for installation of clutch plate 00 70 060, together with pressure ring 00 70 152)	1	—	—	1	—
00 70 122	95	Hub for clutch plate	1	1	1	1	1
99 00 168	96	Countersunk screw M 8×1×20—5 S pho.black. for pressure ring attachment	—	6	6	—	6
00 70 154	96	Countersunk screw for pressure ring attachment	6	—	—	6	—

00 = Engine

Table 3

Carburetor

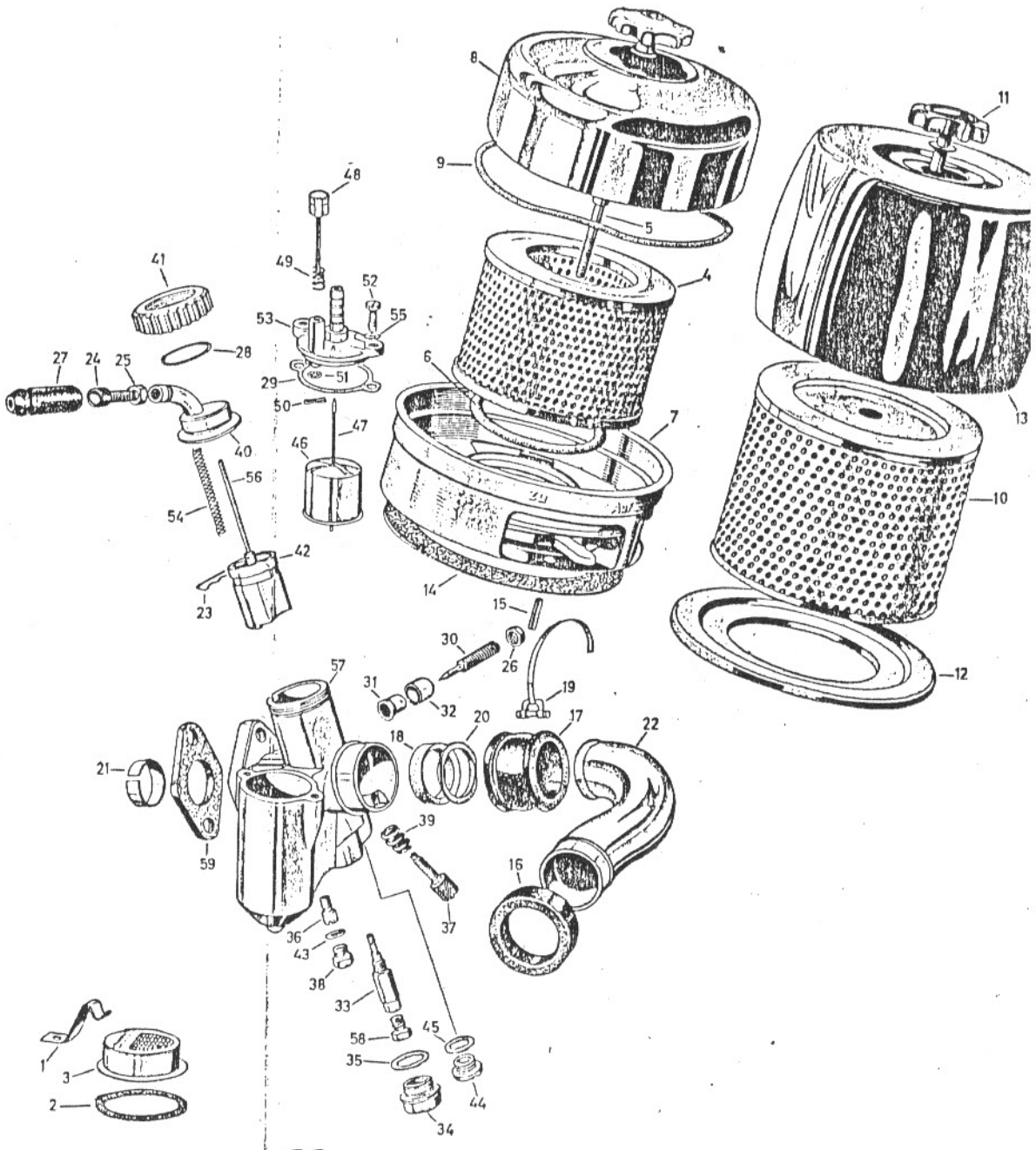
00 = Engine		Carburetor						Table 3
Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Air Filter in Engine Housing					
00 43 136	1	Retaining spring	1	1	1	1	1
99 63 493	2	Gasket (sealring) A 48×55 rubber	1	1	1	1	1
00 43 140	3	Wet air filter cartridge	1	1	1	1	1
99 13 425	—	Hex.-head screw M 6×10—8 G pho.black	1	1	1	1	1
		Air filter on Transmission Housing, Top					
00 43 033	—	Air Filter, complete	1	1	—	1	—
00 43 524	4	Micronic Filter	1	1	—	1	—
00 43 157	5	Fastening screw with spring washer for filter	—	1	—	—	—
00 43 156	6	Housing gasket	1	2	—	1	—
00 43 170	7	Filter base, complete	—	1	—	—	—
00 43 171	8	Filter cover, complete	—	1	—	—	—
00 43 152	9	Cover gasket	1	—	—	1	—
00 43 035	—	Air filter with fine mesh cartridge, complete	—	R 50/2 1	—	—	1
00 43 145	10	Fine mesh filter cartridge	—	R 50/2 1	—	—	1
00 43 158	11	Filter retaining screw	—	—	1	—	1
00 43 154	—	Housing gasket, top for filter cartridge	—	—	1	—	1
00 43 172	12	Filter base	—	—	1	—	1
00 43 173	13	Filter top	—	—	1	—	1
00 43 119	14	Gasket for air filter	1	1	1	1	1
99 41 365	15	Locking sleeve 4×16 in transmission housing for Micronic filter	—	1	—	—	—
		Air Intake Pipes					
00 43 163	16	Gasket on transmission housing side	4	2	2	—	—
00 43 165	16	Seal ring on transmission housing side	—	—	—	2	2
00 43 161	17	Sleeve for air intake pipes on carburetor side	2	2	2	—	—
00 43 162	18	Seal ring for air intake pipes on carburetor side	—	—	—	2	2
00 43 104	19	Hose clamp for sleeve on carburetor side	4	—	—	—	—
99 48 811	19	Fastening clip S 42/9 cad. for sleeve on carburetor side	—	4	4	—	—


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Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
00 43 166	20	Limit ring for seal ring on carburetor side ..	—	—	—	2	2
00 43 168	21	Centering bushing for seal ring on carburetor side	—	—	—	2	2
00 43 174	22	Air intake pipe, left, for R 50, R 50/2	R 50 1	R 50/2 1	—	—	—
00 43 175	22	Air intake pipe, right, for R 50, R 50/2	R 50 1	R 50/2 1	—	—	—
00 43 182	22	Air intake pipe, left, for R 60, R 60/2	R 60 1	R 60/2 1	—	—	—
00 43 183	22	Air intake pipe, right, for R 60, R 60/2	R 60 1	R 60/2 1	—	—	—
00 43 176	22	Air intake pipe, left	—	—	1	—	—
00 43 177	22	Air intake pipe, right	—	—	1	—	—
00 43 178	22	Air intake pipe, left	—	—	—	1	1
00 43 179	22	Air intake pipe, right	—	—	—	1	1
		Carburetor					
00 39 038	—	Flange carburetor, right, for R 50, R 50/2	R 50 1	R 50/2 1	—	—	—
00 39 039	—	Flange carburetor, left, for R 50, R 50/2	R 50 1	R 50/2 1	—	—	—
00 39 042	—	Flange carburetor, right, for R 60	R 60 1	—	—	—	—
00 39 044	—	Flange carburetor, left, for R 60	R 60 1	—	—	—	—
00 39 032	—	Flange carburetor, right, for R 60/2	—	R 60/2 1	—	—	—
00 39 033	—	Flange carburetor, left, for R 60/2	—	R 60/2 1	—	—	—
00 39 040	—	Flange carburetor, right	—	—	1	—	—
00 39 041	—	Flange carburetor, left	—	—	1	—	—
00 39 034	—	Flange carburetor, right	—	—	—	1	—
00 39 035	—	Flange carburetor, left	—	—	—	1	—
00 39 036	—	Flange carburetor, right	—	—	—	—	1
00 39 037	—	Flange carburetor, left	—	—	—	—	1
00 39 176	23	Retaining clip	2	2	—	—	—
00 39 175	23	Retaining clip	—	—	2	2	2
00 39 178	24	Throttle cable adjuster	2	2	2	2	2
00 39 182	25	Nut for cable adjuster	2	2	2	2	2
00 39 184	26	Nut for pilot air screw	2	2	2	2	2
00 42 111	27	Rubber cover for throttle cable	2	2	2	2	2
00 42 149	28	Rubber seal ring for cover plate	2	2	2	2	2
00 42 150	29	Gasket for float bowl	2	2	2	2	2
00 39 181	30	Air pilot screw	2	2	2	2	2
00 39 183	31	Bushing for overflow drain-out	2	2	2	2	2

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
00 39 185	32	Cap for overflow drain-out	2	2	2	2	2
00 39 124	33	Needle jet (1308)	2	2	—	—	—
00 39 123	33	Needle jet (1208)	—	—	2	2	2
00 39 129	33	Needle jet (2108)	—	—	—	—	2
00 39 199	34	Plug	2	2	—	—	—
00 39 197	34	Plug	—	—	2	2	2
00 42 130	35	Gasket	2	2	2	2	2
00 39 135	36	Idling jet No. 35	2	—	—	2	—
00 39 137	36	Idling jet	—	2	2	—	2
00 39 527	37	Float limit screw	2	2	2	2	2
00 39 196	38	Screw	2	2	4	4	4
00 39 171	39	Spring	2	2	—	—	—
00 39 170	39	Spring	—	—	2	2	2
00 39 111	40	Cover plate, left	1	1	—	—	—
00 39 112	40	Cover plate, right	1	1	—	—	—
00 39 218	40	Cover plate, left	—	—	1	1	1
00 39 219	40	Cover plate, right	—	—	1	1	1
00 39 217	41	Retainer	2	2	—	—	—
00 39 216	41	Retainer	—	—	2	2	2
00 39 120	42	Throttle slide	2	2	—	—	—
00 39 117	42	Throttle slide	—	—	2	2	2
00 42 126	43	Gasket	2	2	4	2	4
00 39 198	44	Plug	2	2	2	2	2
00 42 134	45	Gasket	2	2	2	2	2
00 39 187	46	Float 7 grams	2	2	2	2	2
00 39 288	47	Float needle	2	2	2	2	2
00 39 260	48	Tickler	2	2	2	2	2
00 39 164	49	Tickler spring	2	2	2	2	2
00 39 165	50	Cotter pin	2	—	—	2	—
00 39 262	51	Lock washer for tickler	—	2	2	—	2
00 39 156	52	Fastening screw	4	4	—	—	—
00 39 159	52	Fastening screw	—	—	4	4	4
00 39 259	53	Float bowl cover	2	2	2	2	2
00 39 169	54	Throttle spring	2	2	—	—	—
00 39 168	54	Throttle spring	—	—	2	2	2
00 39 193	55	Spring washer for fastening screw	—	4	4	—	4

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
00 39 274	56	Jet needle	2	2	—	—	—
00 39 272	56	Jet needle	—	—	2	2	2
00 39 207	57	Carburetor body, left	1	1	—	—	—
00 39 208	57	Carburetor body, right	1	1	—	—	—
00 39 213	57	Carburetor body, left	—	—	1	1	1
00 39 212	57	Carburetor body, right	—	—	1	1	1
00 39 244	58	Main jet No. 105	2	R 50/2 1	—	—	—
00 39 144	58	Main jet No. 110	—	R 60/2 1	—	—	—
00 39 239	58	Main jet No. 135	—	—	2	—	2
00 39 245	58	Main jet No. 115	—	—	—	2	—
		For carburetors to cylinderheads					
00 42 146	59	Gasket for carburetor, left and right	2	2	—	—	—
00 42 147	59	Gasket for carburetor, left and right	—	—	2	2	2


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10 = Transmission

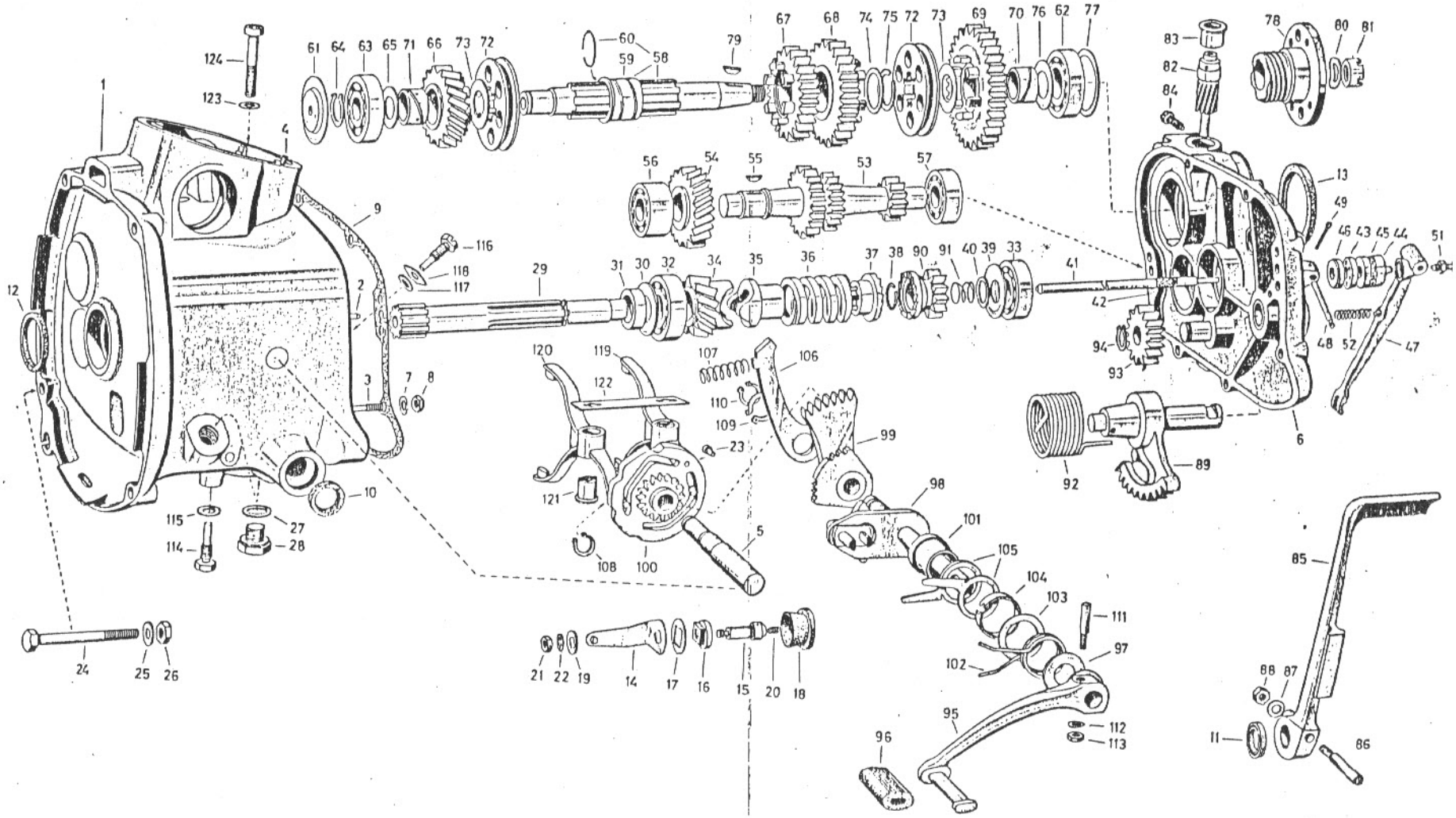
Table 4

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Transmission Housing					
10 06 029	1	Transmission housing with	1	1	1	1	1
10 12 100	2	Locating pin	2	2	2	2	2
99 03 214	3	Stud M 6×25 Sn 4—5 cad. (E)	7	7	7	7	7
99 41 365	4	Locating pin 4×6 for air filter	1	1	—	1	—
10 06 142	5	Axle for cam plate	1	1	1	1	1
10 12 031	6	Cover for transmission housing	1	1	1	1	1
99 31 043	7	Flat washer 6.4 cad.	7	7	7	7	7
99 22 053	8	Hex. nut M 6—6 S cad.	7	7	7	7	7
10 06 280	9	Gasket between transmission housing and cover	1	1	1	1	1
10 06 120	10	Seal for shaft of gearshift foot lever	1	1	1	1	1
10 06 132	11	Seal for kickstarter shaft	1	1	1	1	1
30 38 510	12	Seal for drive shaft, front	1	1	1	1	1
10 06 178	13	Seal for drive shaft, rear	1	1	1	1	1
		Parts for electrical neutral indication					
10 06 152	—	Electrical neutral indication, complete	1	1	1	1	1
10 06 154	14	Contact spring	1	1	1	1	1
10 06 158	15	Contact shaft	1	1	1	1	1
10 06 162	16	Insulating bushing	1	1	1	1	1
10 06 166	17	Insulating washer	1	1	1	1	1
10 06 174	18	Rubber plug	1	1	1	1	1
10 06 170	19	Flat washer	1	1	1	1	1
99 05 660	20	Set screw M 4×6×3—5 S	1	1	1	1	1
99 21 055	21	Hex. nut BM 6—6 S	1	1	1	1	1
99 36 135	22	Star washer J 6.4	1	1	1	1	1
10 66 174	23	Contact rivet	1	1	1	1	1
		Transmission attachment on engine					
99 12 551	24	Hex.-head screw M 8×75 G cad.	1	1	1	1	1
99 31 065	25	Flat washer	4	4	4	4	4
99 22 081	26	Hex. nut M 8—6 S cad.	3	3	3	3	3

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Oil Filler and Oil Drain Plugs on transmission					
99 63 242	27	Gasket C 14×20 steel-asbestos	2	2	2	2	2
00 07 104	28	Oil plug for intake and drain	2	2	1	1	1
00 07 106	28	Oil plug, 0.1 mm. oversize thread	as req.	as req.	as req.	as req.	as req.
00 07 108	28	Oil plug M 16×1.5 (Replacement for Part No. 00 07 106, when thread is damaged	as req.	as req.	as req.	as req.	as req.
00 07 161	28	Magnetic oil drain plug	—	—	1	—	1
00 07 160	28	Magnetic oil drain plug, 0.1 mm. oversize thread	—	—	1	—	1
00 07 162	28	Magnetic oil drain plug M 16×1.5 (Replacement for Part No. 00 07 160, when thread is damaged)	—	—	1	—	1
99 63 259	—	Gasket C 16×20 steel-asbestos (for oil plugs Part No. 00 07 108 and No. 00 07 162)	as req.	as req.	as req.	as req.	as req.
		Primary Shaft					
10 20 005	29	Primary shaft	1	1	1	1	1
10 20 136	30	Flat washer for primary shaft front	1	1	1	1	1
10 20 140	31	Bushing for primary shaft, front	1	1	1	1	1
99 81 219	32	Ball bearing 6204 C 3, front	1	1	1	1	1
99 81 408	33	Ball bearing 6302 C 3, rear	1	1	1	1	1
10 20 245	34	Drive gear	1	1	1	1	1
10 80 154	35	Coupling for drive gear	1	1	1	1	1
10 20 152	36	Spring for damper	1	1	1	1	1
10 20 160	37	Ratchet for kickstarter	1	1	1	1	1
10 20 148	38	Snap ring for kickstarter ratchet	1	1	1	1	1
10 20 210	39	Spacer for primary shaft, rear (thickness as required)	1	1	1	1	1
10 20 164	40	Thrust washer for primary shaft, rear	1	1	1	1	1
		Clutch Operation					
10 80 176	41	Thrust rod with felt ring and end piece	1	1	1	1	1
10 20 132	42	Felt ring	1	1	1	1	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Gearshift Mechanism					
10 66 244	95	Foot shift lever	1	1	1	1	1
10 66 178	96	Rubber pad for foot shift lever	1	1	1	1	1
10 66 116	97	Spacer (thickness as required) between transmission housing and foot shift lever	1	1	1	1	1
10 66 268	98	Selector lever, with foot shift spindle, stop pins, spacer bushing and swivel piece	1	1	1	1	1
10 66 274	99	Sector gear	1	1	1	1	1
10 66 248	100	Cam plate with gear	1	1	1	1	1
10 36 138	101	Spacer bushing	1	1	1	1	1
10 66 150	102	Return spring	1	1	1	1	1
10 66 134	103	Washer	1	1	1	1	1
10 66 146	104	Steel spring ring	1	1	1	1	1
10 66 142	105	Pawl	2	2	2	2	2
10 66 256	106	Ratchet plate	1	1	1	1	1
10 66 130	107	Spring for ratchet plate	1	1	1	1	1
99 34 060	108	Circlip 12×1 for came plate	1	1	1	1	1
99 34 120	109	Circlip 18×1.2, for sector gear	1	1	1	1	1
99 34 071	110	Circlip 14×1 for foot shift spindle, rear end	1	1	1	1	1
		Attachment of foot shift lever on foot shift spindle (selector lever)					
10 66 102	111	Locking screw	1	1	1	1	1
99 31 043	112	Flat washer	1	1	1	1	1
99 22 053	113	Hex. nut M 6—6 S cad.	1	1	1	1	1
		Limit screws on transmission housing					
10 66 278	114	Limit screw, below	1	1	1	1	1
10 66 286	115	Spacer (thickness as required)	1	1	1	1	1
10 66 282	116	Limit screw, above	1	1	1	1	1
10 66 154	117	Spacer (thickness as required)	1	1	1	1	1
10 66 290	118	Locking plate	1	1	1	1	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Shifting forks on transmission housing, top					
10 66 166	119	Shifting fork for first and second	1	1	1	1	1
10 66 206	120	Shifting fork for third and fourth	1	1	1	1	1
10 66 162	121	Bushing for shifting fork	2	2	2	2	2
10 66 170	122	Retaining plate	1	1	1	1	1
10 66 186	123	Flat washer for allenhead screw	2	2	2	2	2
99 19 741	124	Allenhead screw M 8×45—8 G pho.black.	2	2	2	2	2


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20 = Front Fork

Table 5

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Front Fork					
20 00 020	—	Front fork, complete	1	1	—	1	—
20 00 022	—	Front fork, complete, with hydraulic steering damper	—	—	1	—	1
20 00 362	1	Steering fork	1	1	—	1	—
20 00 364	2	Steering fork for steering damper	—	—	1	—	1
20 00 368	3	Swing arm	1	1	1	1	1
		Installation of front wheel axle, left					
20 00 293	4	Clamping bolt	1	1	1	1	1
99 36 205	5	Star washer J 8.4 pho.	1	1	1	1	1
99 22 094	6	Hex. nut M 8×1—6 S pho.black.	1	1	1	1	1
		Swing arm bearing installation					
20 00 320	7	Shaft	1	1	1	1	1
20 00 322	8	Flat washer	2	2	2	2	2
99 85 005	9	Ball bearing 30203	2	2	2	2	2
20 00 324	10	Bushing	2	2	2	2	2
20 00 330	11	Seal	2	2	2	2	2
20 00 326	12	Spacer	2	2	2	2	2
20 00 328	13	Acorn nut	1	1	1	1	1
20 00 334	14	Rubber plug, left and right	2	2	2	2	2
		Suspension units (left and right)					
20 54 016	—	Telescopic spring and shock absorber assembly, complete	2	2	—	2	—
20 54 025	—	Telescopic spring and shock absorber assembly, complete	—	—	2	—	2
20 54 200	15	Attachment, bottom	2	2	2	2	2
20 02 132	16	Cover, bottom	2	2	2	2	2
20 02 126	17	Cover, top	2	2	2	2	2
20 54 206	18	Attachment, top	2	2	2	2	2

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
20 54 528	19	Bottoming ring	4	4	6	4	6
20 54 234	20	Silent block	4	4	4	4	4
20 54 232	21	Shock absorber, complete	2	2	2	2	2
20 54 008	22	Coil spring	2	2	2	2	2
20 54 236	23	Shock absorber seal	2	2	—	2	—
		Upper and lower mounting of suspension units					
99 14 345	24	Hex.-head bolt M 10×1×42—10 K nickel-plated	2	2	2	2	2
20 00 345	25	Flat washer	4	4	4	4	4
99 14 347	26	Hex.-head bolt M 10×1×48—10 K	2	2	2	2	2
99 22 121	27	Hex. nut M 10×1—6 S pho.black.	4	4	4	4	4
		Headlight bracket, left and right					
20 00 305	28	Headlight bracket, left	1	1	1	1	1
20 00 313	28	Headlight bracket, right	1	1	1	1	1
20 00 336	29	Rubber pad	2	2	2	2	2
20 00 338	30	Spacer plate	2	2	2	2	2
20 00 340	31	Spacer ring	4	4	4	4	4
20 00 347	32	Mounting plate, top	2	2	2	2	2
99 36 135	33	Star washer J 6.4 pho.	4	4	4	4	4
99 12 240	34	Hex.-head screw M 6×20—8 G	4	4	4	4	4
		Frictional steering damper, lower assembly					
20 00 231	35	Bottom plate	1	1	—	1	—
20 00 221	36	Anchor plate	1	1	—	1	—
20 00 235	37	Friction disc for anchor plate	2	2	—	2	—
99 49 213	38	Rivet C 3×10 steel copper plated	3	3	—	3	—
20 00 295	39	Stud	1	1	—	1	—
99 23 412	40	Castellated nut M 8—6 S pho.black.	1	1	—	1	—
99 45 105	41	Cotter pin 2×18 steel	1	1	—	1	—

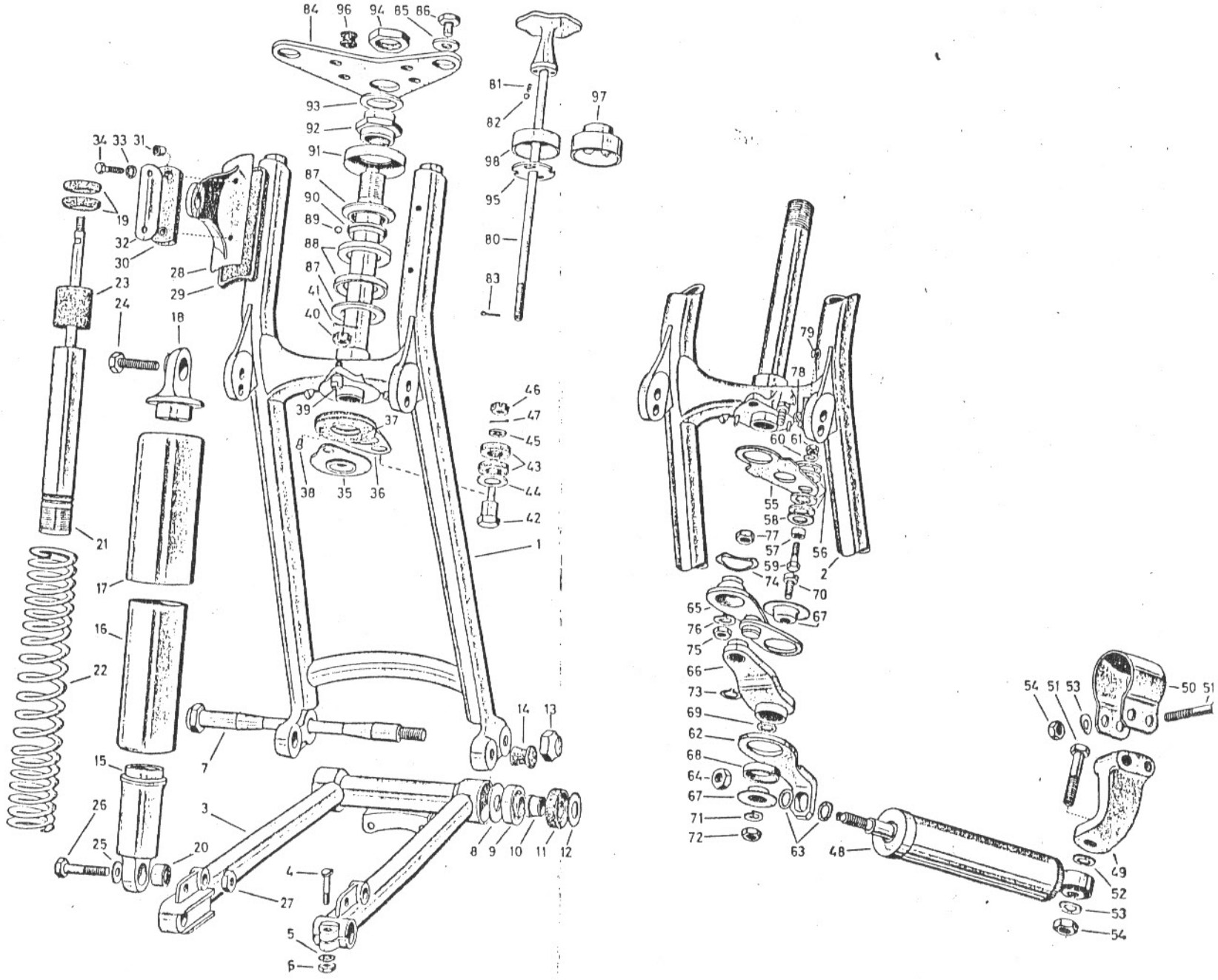
Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
		Anchor plate attachment on frame				
20 00 255	42	Retaining screw	1	1	—	1
20 00 257	43	Rubber ring	2	2	—	2
99 31 850	44	Flat washer 16 pho.black.	1	1	—	1
99 31 658	45	Flat washer 8.4 pho.black.	1	1	—	1
99 23 412	46	Castellated nut M 8—6 S pho.black.	1	1	—	1
99 45 105	47	Cotter pin 2×18 steel	1	1	—	1
		Hydraulic steering damper with mounting on frame				
20 54 070	48	Hydraulic steering damper	—	—	1	—
20 54 220	49	Mounting bracket	—	—	1	—
20 54 221	50	Clamp on frame tube	—	—	1	—
99 12 480	51	Hex.-head screw M 8×38—8 G pho.black.	—	—	3	—
99 31 066	52	Flat washer 8.4 pho.black.	—	—	1	—
99 32 091	53	Spring washer B 8	—	—	3	—
99 22 082	54	Hex. nut M 8—6 S pho.black.	—	—	3	—
		Anchor plate with mounting on frame				
20 54 222	55	Anchor plate	—	—	1	—
80 50 136	56	Rubber washer	—	—	4	—
20 54 223	57	Spacer	—	—	1	—
45 70 122	58	Flat washer	—	—	1	—
99 12 440	59	Hex.-head screw M 8×25—8 G pho.black.	—	—	1	—
99 33 094	60	Lock washer	—	—	1	—
99 22 082	61	Hex. nut M 8—6 S pho.black.	—	—	1	—
		Link on steering damper				
20 54 225	62	Link	—	—	1	—
99 31 658	63	Flat washer 8.4 pho.black.	—	—	2	—
99 22 082	64	Hex. nut M 8—6 S pho.black.	—	—	1	—

Table 5

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Coupling to link and damper setting lever					
20 54 227	65	Coupling	—	—	1	—	1
20 54 226	66	Setting lever	—	—	1	—	1
20 54 217	67	Detent cup	—	—	2	—	2
20 54 218	68	Guide ring	—	—	1	—	1
20 54 219	69	Spacer	—	—	1	—	1
99 19 460	70	Screw AM 6×10—5	—	—	1	—	1
99 33 078	71	Lock ring B 6	—	—	1	—	1
99 21 055	72	Hex. nut BM 6—5 S pho.black.	—	—	1	—	1
99 34 035	73	Circlip 8×0.8 for setting lever on stud of lower fork guide	—	—	1	—	1
		Attachment of setting lever on lower fork guide and damper rod					
05 34 332	74	Spring washer	—	—	1	—	1
20 54 224	75	Hex. nut	—	—	1	—	1
99 33 094	76	Lock washer	—	—	1	—	1
99 22 094	77	Hex. nut M 8×1—6 S pho.black.	—	—	2	—	2
		Adjusting screw for lower fork guide					
40 38 180	78	Hex.-head screw	—	—	1	—	1
99 21 055	79	Hex. nut BM 6—5 S pho.black.	—	—	1	—	1
		Damper rod					
20 00 046	80	Damper rod, complete, with spring and ball	1	1	—	1	—
20 00 047	80	Damper rod, complete, with spring and ball	—	—	1	—	1
20 00 118	81	Spring	2	2	2	2	2
99 86 255	82	Ball 5.5 mm. dia. III	2	2	2	2	2
99 45 095	83	Cotter pin 2×15 steel for bottom end of damper rod	1	1	—	1	—

Table

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	6
		Upper fork guide and steering head ballraces					
20 00 126	84	Fork guide plate, top	1	1	1	1	
20 00 345	85	Flat washer	2	2	2	2	
20 00 343	86	Fork crown screw	2	2	2	2	
20 00 188	87	Ballrace, with inside shoulder	2	2	2	2	
20 00 190	88	Ballrace, with outside shoulder	2	2	2	2	
99 86 255	89	Ball 5.5 mm. dia. III	46	46	46	46	4
20 00 193	90	Cage	1	1	1	1	
20 00 184	91	Ballrace cover	1	1	1	1	1
20 00 182	92	Lower nut	1	1	1	1	1
20 00 297	93	Spacer	1	1	1	1	1
20 00 101	94	Upper nut	1	1	1	1	1
20 00 245	95	Lock plate	1	1	1	1	1
20 00 299	96	Rubber plug	2	2	2	2	2
20 00 119	97	Head cap, complete, with intermediate washer	—	—	1	—	1
20 00 114	98	Head cap with lock spring	1	1	1	1	1


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20 = Front Wheel Brake
Handlebars
Wheels
Cables

Table 6

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Front Wheel Brake					
20 60 214	1	Front wheel brake holder	1	1	1	1	1
20 60 167	2	Adjuster pin	1	1	1	1	1
10 80 108	3	Flat washer	1	1	1	1	1
99 21 605	4	Hex. nut M 8×1—6 S cad.	1	1	1	1	1
20 60 227	5	Axle	1	1	1	1	1
99 31 089	6	Flat washer 15 cad.	1	1	1	1	1
99 22 155	7	Hex. nut M 14×1.5—6 S chrome plated	1	1	1	1	1
20 60 174	8	Axle bushing	1	1	1	1	1
20 60 202	9	Brake shoe	2	2	2	2	2
20 60 230	10	Brake lining	2	—	—	2	—
20 60 235	10	Brake lining	—	2	2	—	2
20 00 196	11	Copper rivet	18	18	18	18	18
		Brake shoe and brake lever operation					
20 60 237	12	Brake shoe return spring, front	1	1	1	1	1
20 60 239	12	Brake shoe return spring, rear	1	1	1	1	1
20 60 277	13	Draw spring	1	1	1	1	1
20 60 269	14	Flat washer	4	4	4	4	4
99 45 110	15	Cotter pin, 2×20	2	2	2	2	2
20 60 259	16	Flat washer	2	2	2	2	2
20 60 206	17	Brake cam, front	1	1	1	1	1
20 60 207	18	Brake cam, rear	1	1	1	1	1
20 60 210	19	Brake lever	2	2	2	2	2
99 12 266	20	Hex.-head screw M 6—28—8 G pho.black.	2	2	2	2	2
99 32 071	21	Spring washer B 6	2	2	2	2	2
99 22 054	22	Hex. nut M 6—6 S pho.black.	2	2	2	2	2
		Parts for mounting hand brake cable on lever					
20 60 182	23	Screw (on brake lever top and bottom)	2	2	2	2	2
20 60 178	24	Hex. nut	1	1	1	1	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Handlebars with Blinkers					
20 72 107	25	Handlebars	1	1	1	1	1
20 72 306	26	Riser	2	2	2	2	2
20 72 288	27	Locking screw	2	2	2	2	2
99 36 205	28	Toothed spring washer J 8.4 cad.	2	2	2	2	2
99 22 093	29	Hex. nut M 8×1—6 S cad.	2	2	2	2	2
		Handlebars attachment to upper fork guide					
99 33 108	30	Lock washer B 10	2	2	2	2	2
99 22 121	31	Hex. nut M 10×1—6 S pho.black.	2	2	2	2	2
		Handlebar Grip, left, and Clutch Lever					
20 72 197	32	Handlebar grip, left (fixed)	1	—	—	1	—
20 72 195	32	Handlebar grip, left, with blinker lights	—	1	1	—	1
20 72 213	33	Clutch lever with bushing	1	—	—	1	—
20 72 211	33	Clutch lever with key	1	1	1	—	1
20 72 214	33	Clutch lever	—	1	1	1	1
20 72 314	34	Clutch lever with manual ignition control lever, complete	—	—	—	1	—
20 72 223	35	Key for setting on handlebar tube	1	1	1	1	1
20 72 126	36	Clutch lever body with locking screw	1	1	1	—	1
20 72 329	36	Clutch lever body with locking screw	—	—	—	1	—
20 72 330	36	Clutch lever body	—	—	—	1	—
20 72 219	37	Locking screw for clutch lever body	1	1	1	—	1
		Clutch lever attachment on body					
20 72 217	38	Clutch control lever screw	1	1	1	1	1
99 36 135	39	Star washer J 6.4	1	1	1	1	1
99 22 053	40	Hex. nut M 6 cad.	1	1	1	1	1
		Clutch cable connecting parts					
20 72 221	41	Clutch cable adjuster, complete	1	1	1	1	1
99 88 505	42	Solder nipple holder	1	1	1	1	1
99 88 530	43	Solder nipple B 2.3	1	1	1	1	1
20 72 261	44	Thrust washer between body and twist grip	1	—	—	1	—

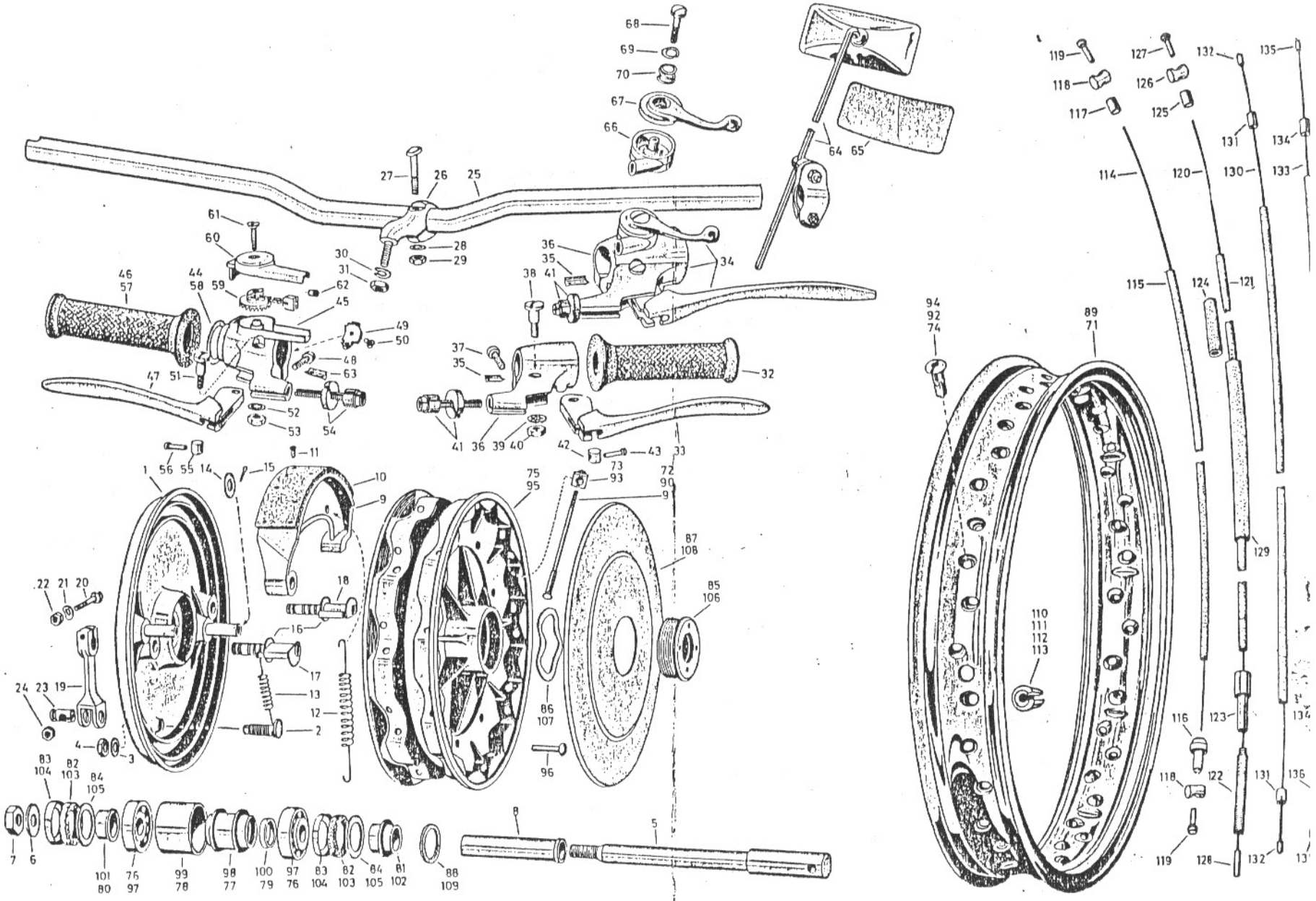
Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Throttle Twist Grip, right, with Lever					
20 72 352	—	Throttle twist grip (for 2 cables), complete	1	—	—	1	—
20 72 380	45	Body with clamp screw	1	—	—	1	—
20 72 160	46	Handlebar grip, right, without hole for blinker lights	1	—	—	1	—
20 72 253	47	Brake lever with bushing	1	1	1	1	1
20 72 353	—	Twist grip with key (for 2 cables) for blinker lights, complete	—	1	1	—	1
20 72 219	48	Clamp screw	—	1	1	—	1
20 72 175	49	Switch adapter	—	1	1	—	1
20 72 176	50	Retaining screw for switch adapter	—	1	1	—	1
		Lever to body attachment					
20 72 217	51	Lever screw	—	1	1	—	1
99 36 131	52	Star washer	—	1	1	—	1
99 22 053	53	Hex. nut M 6—6 S pho.black.	—	1	1	—	1
		Handbrake cable connecting parts					
20 72 221	54	Control cable adjuster	—	1	1	—	1
99 88 505	55	Solder nipple holder A	—	1	1	—	1
99 88 530	56	Solder nipple B 2.3	—	1	1	—	1
		Twist grip actuation					
20 72 177	57	Twist grip rubber, right, with hole for blinker lights	1	1	1	1	1
20 72 261	58	Flat washer	1	1	1	1	1
20 72 384	59	Cam, complete	1	1	1	1	1
20 72 382	60	Cover	1	1	1	1	1
20 72 259	61	Retaining screw for cover	1	1	1	1	1
99 88 550	62	Solder nipple C for throttle control cable connection	2	2	2	2	2
20 72 223	63	Key for setting on handlebar tube	1	—	—	1	—
20 72 295	64	Rear view mirror	1	—	—	1	—
90 38 106	65	Glass for rear view mirror	1	—	—	1	—

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Ignition advance lever					
20 72 471	66	Body, complete	1	—	—	1	—
20 72 362	67	Lever, complete	1	—	—	1	—
20 72 473	68	Retaining screw	1	—	—	1	—
20 72 477	69	Flat washer	1	—	—	1	—
20 72 475	70	Spring	1	—	—	1	—
		Wheels for R 50 and R 69 (R 50 from vehicle No. 556 241, R 60 up to vehicle No. 652 304)					
40 38 036	—	Wheel with bearings	2	—	—	2	—
40 38 211	71	Aluminium rim 2.15 B×18	2	2	2	2	2
40 38 204	72	Spoke (front and rear wheel)	80	—	—	80	—
40 38 173	73	Spoke retainer plate	80	—	—	80	—
99 30 065	74	Nipple M 3.5 MS, chrome plated, for spoke	80	—	—	80	—
20 30 015	75	Hub	2	—	—	2	—
99 85 010	76	Taper roller bearing 30 204	4	—	—	4	—
40 38 225	77	Spacer tube	2	—	—	2	—
40 38 229	78	Spacer bushing	2	—	—	2	—
40 38 231	79	Spacer ring	2	—	—	2	—
40 38 241	80	Thrust bushing, right	2	—	—	2	—
40 38 242	81	Thrust bushing, left	2	—	—	2	—
40 38 259	82	Felt ring	4	—	—	4	—
40 38 255	83	Felt ring retainer	4	—	—	4	—
40 38 267	84	Washer	4	—	—	4	—
40 38 271	85	Cover screw	2	—	—	2	—
40 38 263	86	Spring washer	2	—	—	2	—
40 38 275	87	Hub cover plate	2	—	—	2	—
40 38 156	88	Felt ring for wheel hub	2	—	—	2	—

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Wheels for all models covered by this list (R 50 from vehicle No. 556 242, R 69 from vehicle No. 652 305)					
40 38 035	—	Wheel with bearings	2	2	2	2	2
40 38 213	89	Aluminium rim 2.15 B×18	2	—	—	2	—
40 38 111	90	Spoke (front and rear wheel)	80	—	—	80	—
40 38 222	91	Spoke reinforced type	80	80	80	80	80
99 30 070	92	Nipple for reinforced spoke	80	80	80	80	80
40 38 173	93	Spoke retainer plate	80	80	80	80	80
99 30 065	94	Nipple M 3.5 MS, chrome plated, for spoke	80	—	—	80	—
20 30 017	95	Wheel hub with spoke drum and dog toothing	2	2	2	2	2
99 47 160	96	Rivet 5×16 cad. for wheel hub	—	36	36	—	36
		Wheel bearings					
99 85 010	97	Taper roller bearing 30 204	4	4	4	4	4
40 38 225	98	Spacer tube	2	2	2	2	2
40 38 299	99	Spacer bushing	2	2	2	2	2
40 38 231	100	Spacer ring	2	2	2	2	2
40 38 241	101	Thrust bushing, right	2	2	2	2	2
40 38 242	102	Thrust bushing, left	2	2	2	2	2
40 38 259	103	Felt ring	4	4	4	4	4
40 38 255	104	Felt ring retainer	4	4	4	4	4
40 38 267	105	Washer	4	4	4	4	4
40 38 271	106	Cover screw	2	2	2	2	2
40 38 263	107	Spring washer	2	2	2	2	2
40 38 275	108	Hub cover plate	2	2	2	2	2
40 38 156	109	Felt ring for wheel hub	2	2	2	2	2
		To balance wheels as required					
40 38 296	110	Balancing weight (15 grams) for 3.5 mm. spoke	—	—	—	—	—
40 38 297	111	Balancing weight (10 grams) for 3.5 mm. spoke	—	—	—	—	—
40 38 292	112	Balancing weight (15 grams) for 4 mm. spoke	—	—	—	—	—
40 38 291	113	Balancing weight (10 grams) for 4 mm. spoke	—	—	—	—	—

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Control Cables					
		Clutch control cable					
20 72 321	—	Clutch control cable, complete	1	1	1	1	1
99 88 215	114	Steel cable A 2 (× 1350) (deliverable only in running meters)	1	1	1	1	1
99 88 275	115	Cable housing B 3 (× 1075) (deliverable only in running meters)	1	1	1	1	1
20 72 420	116	End piece	1	1	1	1	1
99 88 330	117	Metal bushing C 3	1	1	1	1	1
99 88 505	118	Nipple holder A	2	2	2	2	2
99 88 530	119	Nipple B 2.3	2	2	2	2	2
		Hand brake control cable					
20 72 345	—	Hand brake control cable, complete	1	1	1	1	1
99 88 215	120	Steel cable A 2 (× 1240) (deliverable only in running meters)	1	1	1	1	1
20 72 275	121	Cable housing B 3 (× 970) (deliverable only in running meters)	1	1	1	1	1
20 72 440	122	Threaded nipple	1	1	1	1	1
20 72 444	123	Guide bushing	1	1	1	1	1
20 72 142	124	Rubber sleeve	1	1	1	1	1
99 88 330	125	Bushing C 3	2	2	2	2	2
99 88 505	126	Nipple holder A	1	1	1	1	1
99 88 530	127	Nipple B 2.3	1	1	1	1	1
20 72 139	128	Cable nipple	1	1	1	1	1
20 72 143	129	Rubber sleeve	—	1	1	—	1
		Throttle control cable					
20 72 359	—	Throttle control cable, complete	2	2	2	2	2
99 88 205	130	Steel cable A 1.6 (× 997) (deliverable only in running meters)	2	2	2	2	2
99 88 330	131	Bushing C 3	4	4	4	4	4
99 88 550	132	Nipple holder C	4	4	4	4	4

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
		Ignition advance cable for R 69 only				
20 72 368	—	Ignition advance cable, complete	—	—	—	1
99 88 205	133	Steel cable A 1.6 (× 775) (deliverable only in running meters)	—	—	—	1
99 88 330	134	Bushing C 3	—	—	—	2
99 88 550	135	Nipple holder C	—	—	—	2
80 04 144	136	Adjuster with nut	—	—	—	1


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30 = Rear Wheel Drive / Rear Wheel Brake

Table 7

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Rear Wheel Drive with Swing Arm					
		For R 50, R 69					
		R 50 up to vehicle 555 005 R 69 up to vehicle 652 304					
30 04 030	—	Rear wheel drive with 11—35 tooth combination pinion and ring gear	1	—	—	1	—
30 04 304	1	Bevel gear housing with studs	1	—	—	1	—
30 04 309	2	Cover with brake anchor bolt for bevel gear housing	1	—	—	1	—
30 04 319	3	gasket, between bevel drive housing and cover	1	—	—	1	—
30 10 170	4	Pinion and ring gear, 11—35 tooth combination	1	—	—	1	—
		For R 60, R 60/2					
		R 60/2 up to vehicle 622 353					
30 04 035	—	Rear wheel drive with 11—32 tooth combination pinion and ring gear	1	1	—	—	—
30 10 183	4	Pinion and ring gear, 11—32 tooth combination	1	1	—	—	—
		For R 50, R 50/2, R 60/2, R 69, R 69, S					
		R 50 from vehicle 555 006 R 69 from vehicle 652 305 R 60/2 from vehicle 622 354					
30 04 031	—	Rear wheel drive with 8—25 tooth combination pinion and ring gear	1	1	—	1	1
30 10 172	4	Pinion and ring gear, 8—25 tooth combination	1	1	—	1	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		For R 50 S					
30 04 019	—	Rear wheel drive with 7—25 tooth combination pinion and ring gear	—	—	1	—	—
30 10 173	4	Pinion and ring gear, 7—25 tooth combination	—	—	1	—	—
		For all models indicated hereunder					
		R 50, R 50/2, R 50 S					
		R 60, R 60/2, R 69, R 69 S					
		R 50 from vehicle 555 006					
		R 69 from vehicle 652 305					
30 04 305	1	Bevel drive housing with studs	1	1	1	1	1
30 04 310	2	Cover with brake anchor bolt for bevel gear housing	1	1	1	1	1
30 04 320	3	Gasket between bevel gear housing and cover	1	1	1	1	1
30 04 317	5	Threaded bushing for bevel gear housing	1	1	1	1	1
99 03 503	6	Stud M 8×1×15 Sn—5 S pho.black. (E) to mount cover	6	6	6	6	6
99 03 530	7	Stud M 8×1×28 Sn — pho.black. (E) to mount swing arm	4	4	4	4	4
99 32 091	8	Spring washer B 8 for cover on bevel gear housing	6	6	6	6	6
99 21 606	9	Hex. nut M 8×1—6 S pho.black. for cover	6	6	6	6	6
		Pinion Bearings in Bevel Gear Housing					
		R 50 up to vehicle 555 005					
		R 69 up to vehicle 652 304					
30 04 315	—	Outer race for needle bearing	1	—	—	1	—
30 38 240	—	Inner race for needle bearing	1	—	—	1	—
30 38 244	—	Bearing needle	28	—	—	28	—

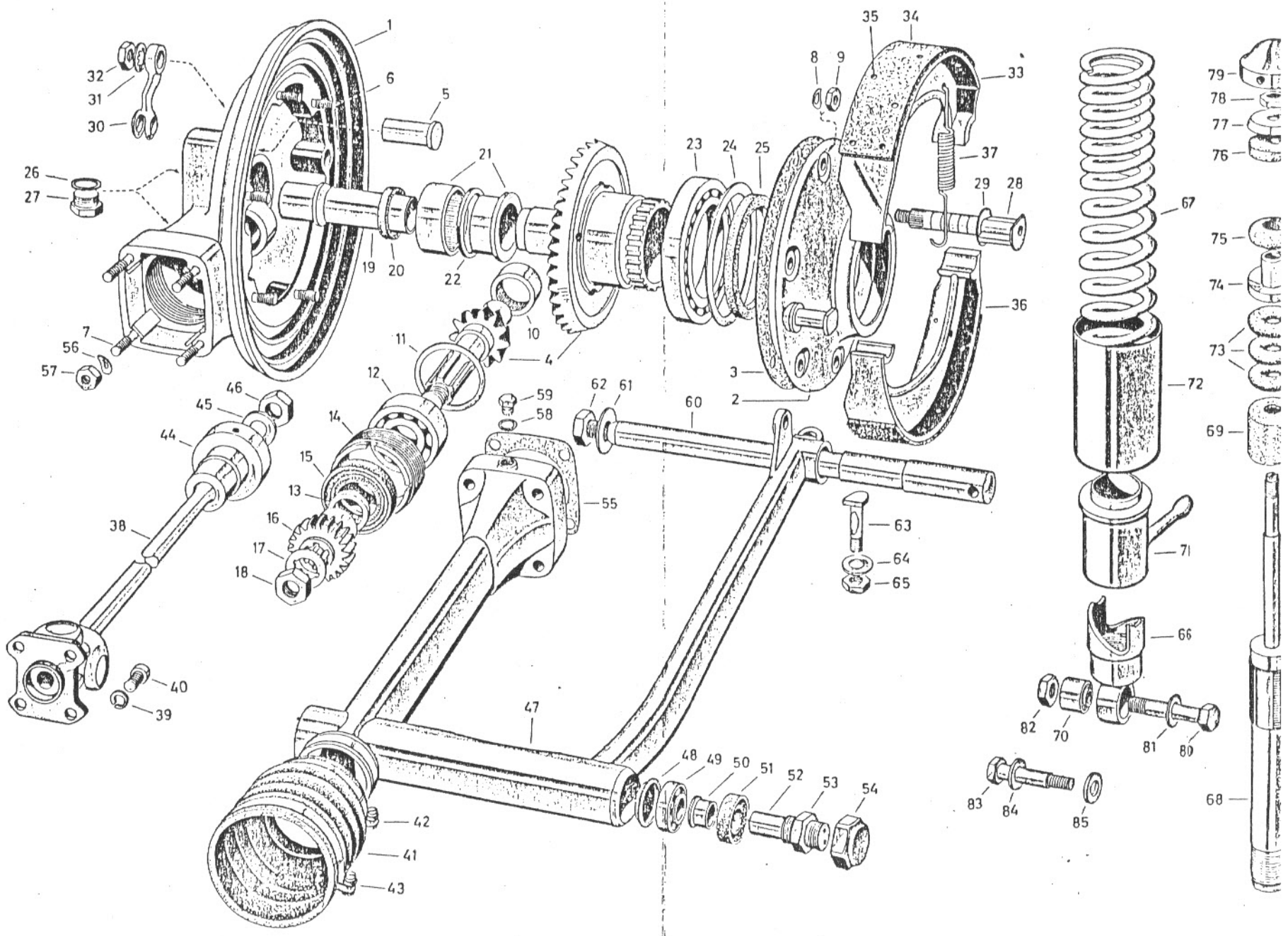
Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69
		R 50 from vehicle 555 006					
		R 60 from vehicle 652 305					
30 38 245	10	JNA needle bearing	1	1	1	1	1
30 38 198	11	Shim (thickness as required)	1	1	1	1	1
99 82 467	12	Taper roller bearing 3304×	1	1	1	1	1
30 38 248	13	Sparer	1	1	1	1	1
30 38 252	14	Threaded ring	1	1	1	1	1
30 38 256	15	Seal ring	1	1	1	1	1
30 38 260	16	Coupler gear	1	1	1	1	1
30 38 264	17	Locking plate for coupler gear on pinion	1	1	1	1	1
99 21 630	18	Hex. nut M 14×1.5—6 S pho.black	1	1	1	1	1
		Ring Gear Bearings in Bevel Gear Housing					
30 04 334	19	Spacer bushing	1	1	1	1	1
30 04 336	20	Seal ring	1	1	1	1	1
30 04 338	21	JNA needle bearing	1	1	1	1	1
30 04 340	22	Thrust washer (thickness as required)	1	1	1	1	1
99 81 760	23	Ball bearing 16013	1	1	1	1	1
30 04 344	24	Shim (thickness as required)	1	1	1	1	1
30 04 342	25	Seal ring	1	1	1	1	1
		Oil Inlet and Oil Drain in Bevel Gear Housing					
99 63 242	26	Seal ring (14×20 steel-asbestos)	2	2	2	2	2
00 07 104	27	Plug (for R 69 and R 69 S only one for oil inlet)	2	2	2	2	2
00 07 161	27	Drain plug with magnet for oil drain	—	—	1	1	1
00 07 106	27	Plug, 0.1 mm. oversize	as req.	as req.	—	—	—
00 07 160	27	Drain plug with magnet for oil drain, 0,1 mm. oversize	—	—	as req.	as req.	as req

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Plug with gasket for damaged thread, tapped to M 16×1.5					
99 63 259	—	Gasket (16×20 steel-asbestos)	—	as req.	as req.	as req.	as req.
00 07 108	—	Plug with thread M 16×1.5	—	as req.	as req.	as req.	as req.
00 07 162	—	Plug with magnet for oil drain with thread M 16×1.5	—	—	as req.	as req.	as req.
		Rear Wheel Brake					
30 60 216	28	Brake cam with washer	1	1	1	1	1
30 60 107	29	Washer for brake cam	1	1	1	1	1
30 60 206	30	Brake lever for solo motorcycle	1	1	1	1	1
99 36 225	31	Star washer J 10.5 pho. for brake lever	1	1	1	1	1
99 21 617	32	Hex. nut M 10×1—6 S pho.black. for brake lever	1	1	1	1	1
30 60 244	33	Upper brake shoes, rear, with lining	1	1	1	1	1
20 60 235	34	Brake lining for upper and lower brake shoes	2	2	2	2	2
20 00 196	35	Copper rivet for upper and lower brake shoes	18	18	18	18	18
30 60 248	36	Lower brake shoe, rear, with brake lining	1	1	1	1	1
20 60 237	37	Brake shoe return spring	2	2	2	2	2
		Drive Shaft with Universal Joint					
30 38 032	38	Drive shaft with universal joint	1	1	1	1	1
		Drive shaft attachment on transmission output flange					
30 38 220	39	Lock washer	4	4	4	4	4
99 19 725	40	Allenhead screw M 8×1×15—8 G pho.black.	4	4	4	4	4
		Covering of universal joint between transmission and rear swing arm					
30 38 224	41	Rubber sleeve to cover universal joint	1	1	1	1	1
99 48 830	42	Clamp for rubber sleeve, rear	1	—	—	1	—
99 48 839	43	Clamp for rubber sleeve, front	1	—	—	1	—

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
		Internally splined cup on drive shaft, rear				
30 38 237	44	Internally splined cup	1	1	1	1
99 31 681	45	Washer 15 steel pho.black. for internally splined cup	1	1	1	1
99 21 630	46	Hex. nut M 14×1.5—6 S pho.black. for internally splined cup	1	1	1	1
		Rear Swing Arm with Bearings				
30 54 260	47	Rear swing arm	1	1	1	1
30 54 168	48	Cover plate	1	1	1	1
99 85 005	49	Taper roller bearing 30 203	2	2	2	2
20 00 324	50	Bushing	2	2	2	2
20 00 330	51	Seal ring	2	2	2	2
30 54 170	52	Bearing pivot	2	2	2	2
		Swing arm attachment on frame				
30 54 174	53	Hex. nut	2	2	2	2
30 54 172	54	Cap nut	2	2	2	2
		Swing arm attachment on bevel gear housing				
30 54 266	55	Gasket	1	1	1	1
99 32 080	56	Spring washer B 8	4	4	4	4
99 22 094	57	Hex. nut M 8×1—6 S pho.black	4	4	4	4
		Oil inlet and oil drain in swing arm flange				
99 63 086	58	Gasket (10×14 steel asbestos)	2	2	2	2
99 19 215	59	Plug AM 10×1—6 S pho.black.	2	2	2	2
		Rear Wheel Axle				
30 04 368	60	Axle	1	1	1	1
		Axle attachment on bevel gear housing				
30 04 378	61	Washer	1	1	1	1
99 22 155	62	Hex. nut M 14×1.5—6 S, dead nickel plated	1	1	1	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Axle clamping on swing arm, left					
30 54 176	63	Clamp screw on swing arm left	1	1	1	1	1
99 31 076	64	Washer 10.5 steel pho.black. for clamp screw	1	—	—	1	—
99 22 121	65	Hex. nut M 10×1—6 S pho.black.	1	1	1	1	1
		Suspension Units for Rear Swing Arm					
30 54 034	—	Suspension unit, left complete	1	1	1	1	1
30 54 035	—	Suspension unit, right, complete	1	1	1	1	1
30 54 282	66	Attachment bottom, left	1	1	1	1	1
30 54 283	—	Attachment, bottom, right	1	1	1	1	1
30 54 284	67	Coil spring 7 mm. dia.	2	2	2	2	2
30 54 290	68	Shock absorber with hex. nut	2	2	2	2	2
20 54 236	69	Shock absorber seal for R 50, R 60 and R 69	2	—	—	2	—
30 54 296	70	Silent block	2	2	2	2	2
30 54 194	71	Adjuster bushing with cam rider	2	2	2	2	2
30 54 240	72	Cover, bottom	2	2	2	2	2
20 54 528	73	Bottoming ring	6	6	6	6	6
30 54 200	74	Top plate	2	2	2	2	2
30 54 204	75	Rubber bumper	2	2	2	2	2
30 54 208	76	Rubber bumper	2	2	2	2	2
30 54 210	77	Cup	2	2	2	2	2
30 54 290	78	Hex. nut M 10×1	2	2	2	2	2
30 54 212	79	Cover	2	2	2	2	2
		Attachment of suspension unit, left, on swing arm					
99 14 625	80	Hex. head bolt M 12×1.5×45—8 G cad.	1	1	1	1	1
99 31 083	81	Flat washer 13 — steel cad.	1	1	1	1	1
99 21 626	82	Hex. nut M 12×1.5—6 S cad.	1	1	1	1	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Attachment of suspension unit, right, on bevel gear housing					
30 54 270	83	Mounting screw	1	1	1	1	1
99 31 083	84	Flat washer 13 — steel cad.	1	1	1	1	1
30 54 274	85	Spacer washer	1	1	1	1	1


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40 = Frame

50 = Fender

70 = Seat

Table 8

40 = Frame
50 = Fender . = Seat

Frame — Center Stand
Foot Brake Linkage

Table 8

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Frame					
40 00 043	1	Frame	1	1	1	1	1
40 00 138	2	Plug for hole provided for side stand installation	1	—	—	1	—
40 00 134	3	Ball head for attachment of side car	—	1	1	—	1
		Center Stand					
40 28 046	4	Center stand	1	1	1	1	1
40 28 218	5	Spring	2	2	2	2	2
40 28 135	6	Rubber bumper	1	1	1	1	1
		Center stand attachment on frame					
99 12 620	7	Hex. head bolt M 10×30—8 G pho.black.	2	2	2	2	2
99 31 075	8	Flat washer 10.5 steel pho.black.	2	2	2	2	2
40 28 230	9	Spacer washer	2	2	2	2	2
99 36 225	10	Star washer J 10.5 pho.black.	2	2	2	2	2
99 22 111	11	Hex. nut M 10—6 S pho.black.	2	2	2	2	2
		Foot Brake Linkage					
40 44 215	12	Spring	1	1	1	1	1
40 44 032	13	Foot brake lever with shaft	1	1	1	1	1
40 44 224	14	Pull rod for foot brake	1	1	1	1	1
40 44 234	15	Connector lever for link and stop light switch on foot brake lever	1	1	1	1	1
		For connector lever to link and stop light switch on foot brake lever					
99 36 225	16	Star washer J 10.6 pho.	1	1	1	1	1
99 20 617	17	Hex. nut M 10×1—6 S pho.black.	1	1	1	1	1
		Adjuster for stop light switch					
99 13 457	18	Hex.-head screw M 6×15—8 G pho.black.	1	1	1	1	1
99 22 054	19	Hex. nut M 6—6 S pho.black.	1	1	1	1	1

40 = Frame
50 = Fender / 70 = Seat

Fuel Lines and Fuel Shut-off — Table 8

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Bell crank on swing arm					
40 44 258	20	Bell crank	1	1	1	1	1
99 12 505	21	Hex.-head bolt M 8×45 S—8 G pho.black.	1	1	1	1	1
40 44 266	22	Bushing	1	1	1	1	1
45 44 160	23	Spacer washer	1	1	1	1	1
99 23 230	24	Castellated nut M 8—6 S pho.black.	1	1	1	1	1
99 45 110	25	Cotter pin 2×20 steel	1	1	1	1	1
		Link on connector lever and bell crank					
40 44 262	26	Link	1	1	1	1	1
99 31 658	27	Washer 8.4 — steel pho.black.	2	2	2	2	2
99 45 091	28	Cotter pin 2×12 — steel	2	2	2	2	2
		For pull rod to bell crank					
99 40 395	29	Fulcrum pin 8 h 11×22×19 pho.black.	1	1	1	1	1
10 66 186	30	Flat washer	1	1	1	1	1
99 95 091	31	Cotter pin	1	1	1	1	1
		For pull rod to brake lever, rear					
99 31 651	32	Flat washer 6.4 steel	1	1	1	1	1
40 44 137	33	Spring	1	1	1	1	1
40 44 133	34	Retainer	1	1	1	1	1
40 44 141	35	Stud	1	1	1	1	1
40 44 115	36	Wing nut	1	1	1	1	1
		Fuel Lines and Fuel Shut-off					
99 88 819	37	Fuel hose (between the tank halves: 170 mm., left to carburetor: 170 mm., right to carburetor: 330 mm.) deliverable only in running meters	—	as req.	as req.	—	as req.
40 84 030	38	Fuel shut-off with hose fittings, nut and gasket	1	1	1	1	1
40 84 124	39	Lever for petcock	1	1	1	1	1
40 84 110	40	Gasket, top	1	1	1	1	1

40 = Frame
50 = Fender
J = Seat

Fuel Tank — Table

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
40 84 120	41	Union, top	1	1	1	1
40 84 115	42	Screen	1	1	1	1
40 84 178	43	Hose fitting	1	1	1	1
40 84 169	44	Union, bottom	1	1	1	1
40 84 109	45	Gasket (fiber), bottom	1	1	1	1
40 84 111	46	Gasket (cork), for screen	1	1	1	1
		Fuel Tank				
40 80 192	47	Knee pad, left, for 25-liter tank	1	—	—	1
40 80 193	47	Knee pad, right, for 25-liter tank	1	—	—	1
40 80 189	47	Knee pad, left	1	1	1	1
40 80 187	47	Knee pad, right	1	1	1	1
40 80 042	48	Fuel tank with tool box	1	1	1	1
40 80 047	48	Fuel tank, 25 liters, unlacquered	1	—	—	1
40 80 048	48	Fuel tank, 25 liters, selective finish	1	—	—	1
40 80 270	49	Cover for tool box	1	1	1	1
99 47 463	50	Rivet 4×18, for tool box lid	3	3	3	3
40 80 288	51	Rubber gasket for cover	1	1	1	1
40 80 178	52	Hinge pin for tool box	2	2	2	2
40 80 181	53	Insignia	2	2	2	2
60 40 110	54	Gasket for insignia	2	2	2	2
99 01 310	55	Filister head countersunk screw M 4×8 MS 58, nickel plated	4	4	4	4
		Fuel tank to frame attachment				
99 14 094	56	Hex.-head screw M 8×1×100—8 G pho.black.	1	1	1	1
99 31 066	57	Flat washer 8.4 steel pho.black.	1	1	1	1
99 36 205	58	Star washer J 8.4 pho.	1	1	1	1
99 22 094	59	Hex. nut M 8×1—6 S pho.black.	1	1	1	1
		Fuel tank cap				
40 80 126	60	Fuel tank cap, optional Part No. 40 80 127	1	1	1	1
40 80 130	61	Cork gasket for filler cap	1	1	1	1

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40 = Frame
50 = Fender / 70 = Seat

Fuel Tank / Exhaust System

Table 8

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Tank carrier on frame					
40 80 194	62	Tank carrier on frame	1	1	1	1	1
99 13 621	63	Hex.-head screw M 8×15—8 G pho.black.	1	1	1	1	1
99 36 205	64	Star washer J 8.4 pho.	1	1	1	1	1
99 22 082	65	Hex. nut M 8—6 S pho.black.	1	1	1	1	1
99 31 658	66	Flat washer 8.4 steel, pho.black.	1	1	1	1	1
		For tank carrier to fuel tank					
40 80 248	67	Rubber spacer, top	2	2	2	2	2
40 80 148	68	Rubber spacer, bottom	1	1	1	1	1
40 80 145	69	Flat washer	1	1	1	1	1
99 14 050	70	Hex.-head screw M 8×1×30—8 G pho.black.	2	2	2	2	2
		Exhaust System					
40 90 201	71	Clamp for exhaust pipe	2	2	2	2	2
40 90 157	72	Clamp for system with connector muffler	—	—	—	2	—
40 90 248	73	Cross tube	1	1	1	1	1
		Exhaust pipe					
		For R 50 and R 50/2					
		On R 50 from vehicle No. 555 206					
40 90 023	74	Exhaust pipe, right, with adapter ring and coupling nut	1	1	—	—	—
40 90 022	74	Exhaust pipe, left, with adapter ring and coupling nut	1	1	—	—	—
		For R 60 and R 60/2					
40 90 049	74	Exhaust pipe, right, with adapter ring and coupling nut	1	1	—	—	—
40 90 048	74	Exhaust pipe, left, with adapter ring and coupling nut	1	1	—	—	—

Exhaust System / Mufflers

Table

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	69
		For R 50 S					
40 90 074	74	Exhaust pipe, right, with adapter ring and coupling nut	—	—	1	—	-
40 90 073	74	Exhaust pipe, left, with adapter ring and coupling nut	—	—	1	—	-
		For R 69 · R 69 with connector muffler · R 69 S					
40 90 016	74	Exhaust pipe, right	—	—	—	1	
40 90 014	74	Exhaust pipe, left	—	—	—	1	
		Muffler					
		For R 50, R 50/2 and R 60					
		On R 50 from vehicle No. 555 206 On R 69 from vehicle No. 652 305					
40 90 095	75	Muffler, right	1	1	—	1	-
40 90 097	75	Muffler, left	1	1	—	1	-
		For R 60/2					
40 90 087	75	Muffler, right	—	1	—	—	-
40 90 088	75	Muffler, left	—	1	—	—	-
		For R 69 with connector muffler					
40 90 092	75	Muffler, right	—	—	—	1	-
40 90 091	75	Muffler, left	—	—	—	1	-
40 90 094	76	Connector muffler	—	—	—	1	-
		For R 50 S and R 69 S					
40 90 089	75	Muffler, right	—	—	1	—	1
40 90 090	75	Muffler, left	—	—	1	—	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Exhaust pipe attachment on cylinder heads					
40 90 110	76	Coupling nut	2	2	2	—	—
99 63 470	77	Seal ring C 35×41 copper-asbestos	2	2	2	—	—
40 90 254	78	Thrust ring	—	—	—	2	2
40 90 258	79	Clamp ring	—	—	—	2	2
40 90 250	80	Exhaust pipe coupling nut (wing nut)	—	—	—	2	2
		Muffler to frame attachment					
99 13 628	81	Hex.-head screw M 8×18—8 G, nickel plated	2	2	2	2	2
99 36 205	82	Star washer J 8.4 pho.black.	2	2	2	2	2
99 22 082	83	Hex. nut M 8—6 S pho.black.	2	2	2	2	2
		Front Fender					
50 90 022	84	Front fender	1	1	1	1	1
50 90 116	85	Front fender bracket	1	1	1	1	1
		Bracket to fender attachment					
99 13 220	86	Hex.-head screw M 5×10—8 G, nickel plated	2	2	2	2	2
99 36 110	87	Star washer J 5.3 pho.black.	2	2	2	2	2
99 22 036	88	Hex. nut M 5—6 S pho.black.	2	2	2	2	2
		Fender to swing arm attachment front					
99 13 625	89	Hex.-head screw M 8×18—8 G, chrome plated	2	2	2	2	2
99 36 205	90	Star washer J 8.4 pho.black.	2	2	2	2	2
99 22 082	91	Hex. nut M 8—6 S pho.black.	2	2	2	2	2
		Fender to swing arm attachment, rear					
99 13 457	92	Hex.-head screw M 6×15—8 G pho.black.	2	2	2	2	2
99 36 135	93	Star washer J 6.4 pho.black.	2	2	2	2	2
99 22 054	94	Hex. nut M 6—6 S pho.black.	2	2	2	2	2

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Rear Fender					
50 96 032	95	Rear fender, complete	1	—	—	1	—
50 96 034	95	Rear fender, complete	—	1	1	—	1
50 96 277	96	Rear fender, rear end	1	1	1	1	1
50 96 118	97	Hinge pin	1	1	1	1	1
		Fender clamp connection					
50 96 152	98	Acorn nut	2	2	2	2	2
99 31 065	99	Flat washer 8.4 steel cad.	2	2	2	2	2
		Fender Fastening					
50 96 124	100	Hex.-head screw	2	—	—	2	—
50 96 122	101	Shoulder nut	2	—	—	2	—
99 31 024	102	Flat washer 4.3 pho.black.	2	—	—	2	—
		Fender to frame attachment, bottom					
99 11 605	103	Hex.-head screw M 8×12—8 G pho.black.	1	1	1	1	1
99 36 205	104	Star washer J 8.4 pho.black.	1	1	1	1	1
99 21 606	105	Hex. nut M 8×1—6 S pho.black.	1	—	—	1	—
99 23 240	106	Castellated nut M 8×1—6 S pho.black.	—	1	1	—	1
		Fender to frame attachment, top					
99 13 439	107	Hex.-head screw M 6×12—8 G pho.black.	2	2	2	2	2
99 36 135	108	Star washer J 6.4 pho.black.	2	2	2	2	2
99 22 054	109	Hex. nut M 6—6 S pho.black.	2	2	2	2	2
		Lateral fender attachment					
50 96 128	110	Plate	4	4	4	4	4
99 36 135	111	Star washer J 6.4 pho.black.	4	4	4	4	4
99 22 059	112	Hex. nut M 6—6 S pho.black.	4	4	4	4	4
99 13 444	113	Hex.-head screw M 6×12—8 G nickel plated (for R 50, R 50/2 and R 60/2 [without fender-mounted luggage carrier])	4	4	4	4	4

40 = Frame
50 = Fender / 70 = Seat

Fenders—Seat

Table 8

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Plugs for fender without luggage carrier					
99 16 656	114	Round head screw AM 6×10—5 S, nickel plated	4	—	—	4	—
99 36 135	115	Star washer J 6.4 pho.	4	—	—	4	—
99 22 054	116	Hex. nut M 6—6 S pho.black.	4	—	—	4	—
50 96 154	117	Rubber plug	2	4	4	2	4
		Fender brace attachment					
99 12 455	118	Hex.-head screw M 8×3—8 G pho.black.	—	2	2	—	2
50 96 122	119	Shoulder hex. nut	—	2	2	—	2
		Seat					
70 02 011	120	Seat	1	1	1	1	1
70 02 166	121	Seat carrier	1	1	1	1	1
70 02 141	122	Bushing (silent block)	1	1	1	1	1
99 14 364	123	Hex.-head screw M 10×1×68—8 G pho.black.	1	—	—	1	—
99 36 225	124	Star washer J 10.5 pho.black.	1	—	—	1	—
99 22 121	125	Hex. nut M 10×1—6 S pho.black.	1	—	—	1	—
70 02 155	126	Seat spring (rubber) with brackets	1	—	—	1	—
70 02 190	127	Bottoming piece	1	—	—	1	—
		Seat spring attachment (steel or rubber spring) on frame and seat carrier for R 50 and R 69					
99 13 457	128	Hex.-head screw M 6×15—8 G pho.black.	2	—	—	2	—
99 13 471	129	Hex.-head screw M 6×18—8 G pho.black.	2	—	—	2	—
99 32 071	130	Spring washer B 6	4	—	—	4	—
99 22 059	131	Hex. nut M 6—6 S pho.black.	4	—	—	4	—
		Sports pillion					
70 02 032	132	Sports pillion, with attachment parts	—	—	1	1	1
70 02 006	132	Sports pillion with frame, bow and flaps	—	—	1	1	1

40 = Fram
50 = Fend . J = Seat

Fenders—Seat

Table

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
70 02 174	133	Flap, left	—	—	—	1
70 02 175	133	Flap, right	—	—	—	1
70 02 170	134	Rubber bushing	—	—	2	2
70 02 144	135	Attachment with spring stud	—	—	2	2
		To mount pillion on rear fender, frame and shock absorber holder				
99 13 462	136	Hex.-head screw M 6×15—8 G pho.black.	—	—	4	4
99 36 135	137	Star washer J 6.4 pho.	—	—	4	4
99 22 054	138	Hex. nut M 6—6 S pho.	—	—	4	4
70 02 152	139	Leaf spring	1	—	2	2
		For leaf spring, top, on sports pillion				
70 02 180	140	Plate	2	—	2	2
99 36 135	141	Star washer J 6.4 pho.	4	—	4	4
99 22 111	142	Hex. nut M 6—6 S pho.black.	4	—	4	4
		For leaf spring, bottom, to spring pin attachment				
70 02 148	143	Rubber bushing	2	—	2	2
99 31 658	144	Washer 8.4 pho.black.	2	—	2	2
99 34 035	145	Circlip 8×0.8	2	—	2	2
		Name Plate				
40 34 136	146	Name plate, neutral	1	1	1	1
40 34 246	146	Name plate for R 50	1	—	—	—
40 34 249	146	Name plate for R 60	1	—	—	—
40 34 247	146	Name plate for R 69	—	—	—	1
40 34 200	146	Name plate for R 50/2	—	1	—	—
40 34 206	146	Name plate for R 60/2	—	1	—	—
40 34 202	146	Name plate for R 50 S	—	—	1	—
40 34 204	146	Name plate for R 69 S	—	—	—	—
99 16 604	147	Round head screw M 5×6—5 S cad.	2	2	2	2

40 = Frame
50 = Fender / 70 = Seat

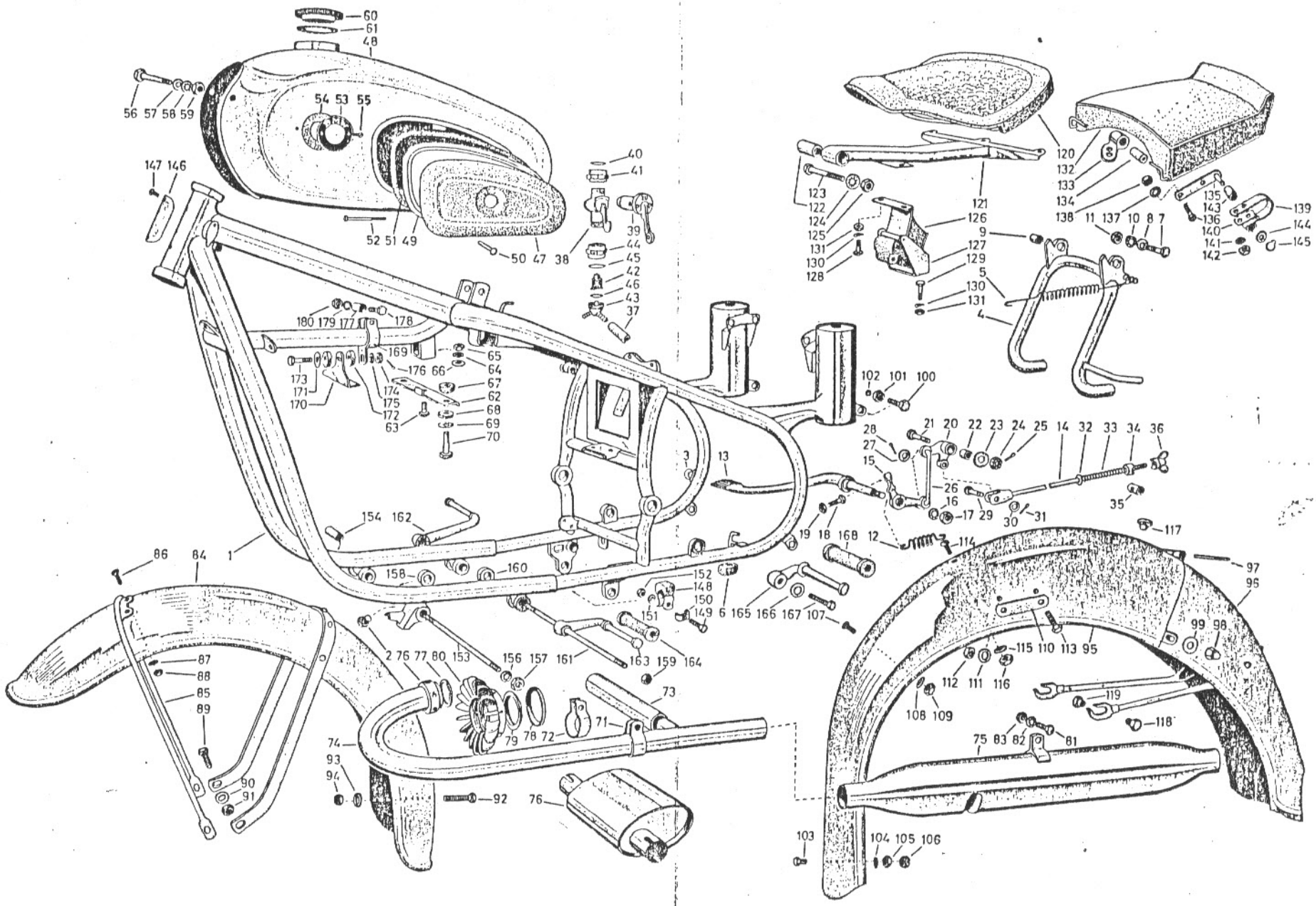
Engine and Footrest Mounts — Table 8

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Fittings					
40 34 256	148	Rubber bumper for kickstarter with screws ..	1	—	—	1	—
40 34 257	148	Rubber bumper for kickstarter	—	1	1	—	1
99 12 193	149	Hex.-head screw M 5×30—8 G pho.black. ..	1	1	1	1	1
40 34 156	150	Plate	2	2	2	2	2
99 36 110	151	Star washer	1	1	1	1	1
99 22 036	152	Hex. nut M 5—6 S pho.black.	1	1	1	1	1
		Engine and Footrest Mounts					
		Front engine mounting					
40 34 216	153	Through bolt	1	1	1	1	1
40 34 224	154	Bushing	1	1	1	1	1
99 36 245	156	Star washer J 12.5 pho.	2	2	2	2	2
99 22 145	157	Hex. nut M 12×1.5—6 S pho.black.	2	2	2	2	2
40 34 227	158	Spacer bushing	1	1	1	1	1
		Rear engine and footrest mounting					
99 22 145	159	Hex. nut M 12×1.5—6 S pho.black.	2	2	2	2	2
40 34 227	160	Spacer bushing	1	1	1	1	1
40 34 210	161	Through bolt	1	1	1	1	1
40 34 260	162	Foot rest, right	1	1	1	1	1
90 34 125	163	Foot rest, left	1	1	1	1	1
90 34 128	164	Foot rest rubber pad	2	2	2	2	2
		Additional rear foot rests for R 69					
40 34 150	165	Foot rests (left and right)	—	—	—	2	—
99 36 245	166	Star washer J 12.5 pho.	—	—	—	2	—
99 13 890	167	Hex.-head screw M 12×25—8 G pho.black.	—	—	—	2	—
90 34 128	168	Foot rest rubber pad	—	—	—	1	—

40 = Frame
50 = Fender = Seat

Engine and Footrest Mounts — Table

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	6
		Engine support (Clamp to bracket fastening)					
40 34 278	169	Clamp with tab	1	1	1	1	
40 34 282	170	Angle piece	1	1	1	1	
40 80 145	171	Flat washer	1	1	1	1	
40 80 148	172	Rubber washer	2	2	2	2	
98 12 467	173	Hex.-head screw M 8× 32 S—8 G pho.black.	1	1	1	1	
99 23 412	174	Castellated nut M 8—6 S pho.black.	1	1	1	1	
99 31 066	175	Flat washer 8.4 pho.black.	1	1	1	1	
99 45 105	176	Cotter pin 2×18	1	1	1	1	
		Clamp to frame attachment					
40 34 274	177	Spacer bushing	1	1	1	1	
99 12 466	178	Hex.-head screw M 8×32 G pho.black.	1	1	1	1	
99 36 205	179	Star washer J 8.4 pho.	1	1	1	1	
99 22 082	180	Hex. nut M 8—6 S pho.black.	1	1	1	1	


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80 = Electrical Equipment

Table 9

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Ignition System					
		Magneto					
80 04 025	1	Magneto with automatic spark advance ..	1	1	1	1	1
80 04 027	2	Magneto	—	—	—	1	—
80 04 100	3	Allenhead screw for mounting of magneto rotor	1	1	1	—	1
80 36 184	4	Allenhead screw for mounting of magneto rotor	—	—	—	1	—
80 64 104	5	Ignition coil	1	1	1	—	1
80 04 106	6	Ignition coil	—	—	—	1	—
80 04 108	7	Magneto rotor, complete	1	1	1	—	1
80 04 110	8	Magneto rotor, complete	—	—	—	1	—
80 04 112	9	Centrifugal regulator, complete	1	1	1	1	1
80 02 171	10	Spring for centrifugal regulator, 11 mm. long	1	1	1	1	1
80 02 172	10	Spring for centrifugal regulator, 9 mm. long	1	1	1	1	1
80 30 110	11	Breaker arm (breaker lever)	1	1	1	1	1
80 04 116	12	Breaker plate (fixed contact support)	1	1	1	1	1
80 04 120	13	Terminal screw for ignition cable	2	2	2	2	2
80 04 124	14	Terminal screw for condenser cable	1	1	1	1	1
80 30 106	15	Condenser	1	1	1	1	1
80 30 107	16	Clamp for condenser	1	1	1	1	1
80 30 108	17	Cable for condenser	1	1	1	1	1
80 04 128	18	Hex.-head screw for breaker spring	1	1	1	1	1
80 04 132	19	Hex. nut	1	1	1	1	1
80 04 136	20	Insulating washer small	1	1	1	1	1
80 04 138	21	Insulating washer, large	2	2	2	2	2
80 04 140	22	Flat washer	1	1	1	1	1
99 33 015	23	Snap ring B 3	1	1	1	1	1
		Generator (Dynamo)					
80 02 029	24	Generator L 60/6/1500 L	1	—	—	1	—
80 02 031	25	Generator LJ / CGE 60/6/1700 R 5	—	1	1	—	1
80 02 202	26	Armature (rotor)	1	—	—	1	—

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
80 02 203	27	Armature (rotor)	—	1	1	—	1
80 02 106	28	Carbon, brush + and —	2	2	2	2	2
80 36 168	29	Brush spring	2	—	—	2	—
80 02 124	30	Brush spring	—	2	2	—	2
80 02 211	—	Field winding (4 coils)	1	1	1	1	1
80 02 212	31	Field coil	1	1	1	1	1
80 02 213	31	Field coil	1	1	1	1	1
80 02 214	31	Field coil	1	1	1	1	1
80 02 215	31	Field coil	1	1	1	1	1
80 02 224	32	Field resistor	1	—	—	1	—
80 02 307	33	Field resistor	—	1	1	—	1
80 36 180	34	Screw	2	2	2	2	2
80 02 309	35	Washer .. for resistor mounting	2	2	2	2	2
80 02 308	36	Spring	2	2	2	2	2
80 08 153	37	Regulator	1	—	—	1	—
80 36 312	38	Regulator	—	1	1	—	1
99 19 360	39	Screw AM 4×6 .. for regulator	—	1	1	—	1
99 19 380	40	Screw AM 4×12 .. mounting	—	1	1	—	1
80 36 176	41	Screw AM 4×8 for regulator, field resistor and brush cable	3	—	—	3	—
80 02 149	42	Insulating plate .. for mounting of + brush holder	1	1	1	1	1
80 04 136	—	Insulating washer, small 6 mm. dia. ..	2	2	2	2	2
99 47 443	—	Countersunk rivet .	2	2	2	2	2
80 02 242	43	Regulator plate	1	—	—	1	—
80 02 306	44	Damper plate for regulator	—	1	1	—	1
80 36 184	45	Allenhead screw for armature mounting ..	1	1	1	1	1
		Generator attachment on gear case cover					
99 19 960	46	Allenhead screw M 6×70—8 G pho.black. ..	2	—	—	2	—
00 02 182	47	Adapter ring	—	1	1	—	1
99 13 963	48	Allenhead screw M 6×75—8 G pho.black. ..	—	2	2	—	2
99 31 046	49	Flat washer	—	1	1	—	1
99 13 425	50	Hex.-head screw M 6×10—8 G pho.black. ..	—	1	1	—	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
		Spark Plugs — Cables — Adapters				
99 76 330	51	Spark plug 14 W 240 T 1 (on R 50 S and R 69 S for the running-in period)	2	2	2	2
99 76 335	51	Spark plug W 260 T 1	—	—	2	—
		Ignition cable				
80 36 000	52	Ignition cable, left and right	2	2	2	2
80 36 105	53	Rubber cover	2	2	2	2
80 36 157	54	Ignition cable adapter	2	2	2	2
80 36 165	55	End sleeve	2	2	2	2
80 36 150	56	Rubber grommet for ignition cable through engine housing, left and right	2	2	2	2
80 36 163	57	Rubber grommet for wiring harness through engine housing, top	1	1	1	1
		Battery and Fastenings				
80 42 025	58	Battery 6 V 8 Ah with concealed connections	1	1	1	1
80 42 109	59	Bottom pad	1	1	1	1
80 42 138	60	Rubber strap	1	1	1	1
80 42 212	61	Bottom plate	1	1	1	1
		Bottom plate attachment on battery carrier of frame				
99 13 439	62	Hex.-head screw M 6×12—8 G pho.black. ..	2	2	2	2
99 36 135	63	Star washer J 6.4 pho.	2	2	2	2
99 22 054	64	Hex. nut M 6—6 S pho.black.	2	2	2	2
		Headlight and Mountings				
80 50 020	65	Headlight 160 mm. dia.	1	—	—	1
80 50 021	65	Headlight 160 mm. dia.	—	1	1	—
80 48 118	66	Ignition key, black	1	1	1	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
80 48 119	67	Spare ignition key	1	1	1	1	1
80 48 127	68	Window unit with sockets for neutral indicator lamp, green, and charge indicator lamp, red	1	1	1	1	1
80 48 128	69	Gasket for indicator window	1	1	1	1	1
80 48 129	70	Socket assembly for neutral and charge indicator lamps	1	1	1	1	1
80 48 162	71	Dimmer switch with horn button and retaining screw	1	1	1	1	1
99 19 361	72	Retaining screw	—	1	1	—	1
80 48 173	73	Switch plate with ignition switch cover	1	1	1	1	1
80 48 179	74	Lamp holder with connecting plate	1	1	1	1	1
80 48 181	75	Retainer for lamp holder	1	—	—	1	—
		For self-closing ignition switch cover					
80 48 185	76	Ignition switch cover	1	1	1	1	1
80 48 189	77	Housing for ignition switch cover	1	1	1	1	1
80 48 191	78	Spring	1	1	1	1	1
		Headlight rim — Headlight lens etc.					
80 50 128	79	Headlight rim (with screw), chrome plated	1	1	1	1	1
80 50 185	80	Retaining screw for headlight rim	1	1	1	1	1
80 50 154	81	Headlight lens	1	1	1	1	1
80 50 157	82	Gasket for headlight lens	1	1	1	1	1
80 50 160	83	Clip for headlight lens	6	6	6	6	6
80 50 181	84	Reflector	1	1	1	1	1
80 60 113	85	Cable from headlight to dimmer switch	1	1	1	1	1
80 70 196	86	Rubber grommet for wiring harness lead-in	1	1	1	1	1
80 70 199	87	Rubber grommet for dimmer switch	3	3	3	3	3
80 70 178	88	Rubber grommet for speedometer connection	1	—	—	1	—
80 71 754	88	Rubber grommet for speedometerconnection	—	1	1	—	1
		Ignition switch in headlight					
80 48 100	89	Ignition switch with ignition key complete	—	1	1	—	1
80 48 101	90	Guide bushing for key	—	1	1	—	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
80 48 102	91	Contact plate	—	1	1	—
80 48 103	92	Insulating ring on contact plate	—	1	1	—
80 48 104	93	Spring for contact plate	—	1	1	—
80 48 105	94	Switch body	—	1	1	—
80 48 106	95	Cover bushing	—	1	1	—
80 48 107	96	Spring ring, outer	—	1	1	—
80 48 108	97	Spring ring, inner	—	1	1	—
99 86 240	98	Ball	—	2	2	—
		Headlight Mounting				
80 50 134	99	Thrust washer	2	2	2	2
80 50 136	100	Rubber washer	4	4	4	4
80 50 138	101	Rubber sleeve	2	2	2	2
99 12 436	102	Hex.-head screw M 8×25, chrome plated, for lateral headlight mounting	2	—	—	2
99 13 661	102	Hex.-head screw M 8×30, chrome plated	2	2	2	2
99 19 360	—	Screw M 4×6 (for dimmer switch)	2	—	—	2
		Lamps for headlight				
99 78 006	103	Bulb B 6 V 35/35 for main driving light	1	1	1	1
99 78 007	103	Bulb B 6 V 35/35 W—G (yellow) for main driving light	1	1	1	1
99 78 243	104	Bulb H 6 V 2 W, for parking light, charge and neutral indicator	3	3	3	3
99 78 270	105	Bulb J 6 V 0.6 W for speedometer dial	—	1	1	—
		Horn with Mounting				
80 46 028	106	Horn, black	1	—	—	1
80 46 030	106	Horn	—	1	1	—
99 12 620	—	Hex.-head screw M 10×30—8 G pho.black.	1	—	—	1
99 13 825	107	Hex.-head screw M 10×20—8 G pho.black.	—	—	1	—
99 13 643	107	Hex.-head screw M 8×20—8 G pho.black.	—	1	1	—
99 33 108	108	Snap ring B 10	1	—	1	1
99 33 094	108	Snap ring B 8	—	1	1	—

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Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
99 31 076	—	Flat washer 10.5 pho.black.	2	—	—	2	—
99 22 111	109	Hex. nut M 10—6 S pho.black.	1	—	1	1	1
80 46 134	110	Adapter plate	—	—	1	—	1
80 46 137	111	Bracket	—	—	1	—	1
		Stop Light Switch, Stop-, Tail and License Plate Light and Support Plate for License Plate					
		Stop light switch on frame					
80 48 165	112	Stop light switch	1	1	1	1	1
99 19 385	113	Screw M 4×15—5 S pho.black.	2	2	2	2	2
99 36 040	114	Star washer J 4.3 pho.	2	2	2	2	2
99 22 026	115	Hex. nut M 4—6 S pho.black.	2	2	2	2	2
		Stop, Tail and License Plate Light					
80 54 111	—	Stop, tail and license plate light	1	1	1	1	1
80 54 121	116	Window for license plate	1	1	1	1	1
80 54 123	117	Rubber gasket	1	1	1	1	1
80 54 125	118	Tail light rim with screw	1	1	1	1	1
80 54 127	119	Clip	4	4	4	4	4
80 54 130	120	Lamp socket	1	1	1	1	1
80 54 131	121	Spring	1	1	1	1	1
80 54 133	122	Reflector	1	1	1	1	1
80 54 134	123	Tail light assembly without bulbs and housing	1	1	1	1	1
80 54 135	124	Tail light lens	1	1	1	1	1
80 54 118	125	Housing for stop, tail and license plate light	1	1	1	1	1
20 88 552	126	Rubber grommet in housing for tail light wiring	—	1	1	—	1
00 43 809	127	Rubber gasket for housing (deliverable only in running meters)	—	1	1	—	1
99 78 370	128	Twin-filament bulb	—	1	1	—	1
99 78 220	129	Bulb G 6V 5W	—	1	1	—	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
		Stop, tail and license plate light attachment on rear fender rear end				
99 16 620	—	Round head screw M 5×12—5 S pho.black.	3	—	—	3
99 13 227	130	Hex.-head screw M 5×12—8 G pho.black.	—	4	4	—
99 22 036	131	Hex. nut M 5—6 S pho.black.	3	—	—	3
99 36 110	132	Star washer J 5.3 pho.	3	4	4	3
		Support plate for license plate				
40 34 158	133	Support plate for license plate on rear fender rear end	1	—	—	1
50 96 180	134	Support plate	—	1	1	—
99 13 210	—	Hex.-head screw M 5×8—8 G pho.black.	2	—	—	2
99 13 221	—	Hex.-head screw M 5×10—8 G pho.black.	—	3	3	—
99 31 034	—	Washer 5.3 pho.black.	—	3	3	—
99 36 110	—	Star washer J 5.3 pho.	2	3	3	2
99 22 036	—	Hex. M 5—6 S pho.black.	2	3	3	2
		Blinker Lights (Standard equipment for Germany only)				
		Blinker lights on handlebar tube				
80 54 159	135	Blinker light	—	2	2	—
99 78 302	136	Bulb for blinker light K 6V 18W	—	2	2	—
80 54 160	137	Lens, yellow	—	2	2	—
80 54 161	138	Fillister head screw M 3×10 for lens	—	4	4	—
		Blinker switch on throttle twistgrip				
80 48 152	139	Blinker switch with headlight flasher switch	—	1	1	—
99 07 059	140	Fillister head screw AM 4×8—5 S cad.	—	1	1	—
99 32 030	141	Spring washer B 4 cad.	—	1	1	—
80 48 148	142	Switch body, chrome plated	—	1	1	—
80 48 149	143	Switch button	—	1	1	—

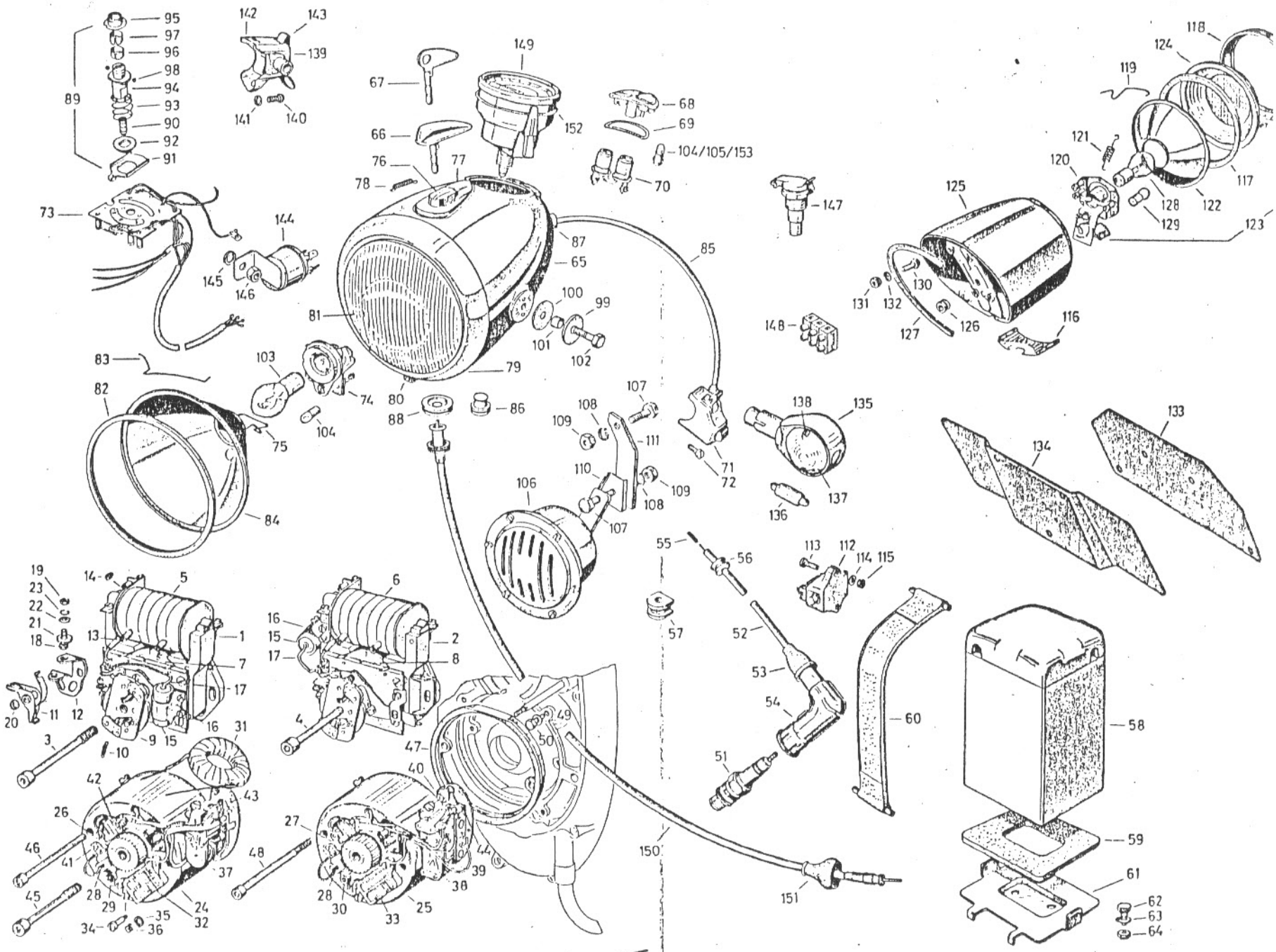
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Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Flasher unit in headlight shell					
80 48 153	144	Flasher unit	—	1	1	—	1
30 60 174	145	Spacer	—	1	1	—	1
99 22 082	146	Hex. nut M 8—6 S pho.black.	—	1	1	—	1
		Wiring harness and wires for blinker lights					
80 66 011	—	Wiring harness from headlight to handlebars	—	1	1	—	1
99 76 425	—	Wire to wiring harness, B 0.75×675 black., deliverable only in running meters	—	1	1	—	1
99 76 426	—	Wire to wiring harness, B 0.75×675 blue, deliverable only in running meters	—	1	1	—	1
99 75 282	—	Insulator tubing to wiring harness B 6×0.6×250, black., deliverable only in running meters	—	1	1	—	1
80 70 503	—	Rubber grommet for wiring harness	—	1	1	—	1
80 60 109	—	Wiring, 610 mm., 5-stranded, from blinker switch to headlight, deliverable only in running meters	—	1	1	—	1
99 76 464	—	Wire B 1.0×300, red	—	1	1	—	1
99 77 615	—	Wiring connector B 2	—	1	1	—	1
		Wiring Harness, Wires, etc.					
80 60102	147	Jack (for trouble-shooting light)	1	1	1	1	1
99 79 060	—	Tail light wiring NYLHY 3×0.75 sq. mm. (deliverable only in running meters) (× 1100) from jack to stop-tail light	1	1	1	1	1
		Wiring to frame fastening					
40 66 130	—	Wire strap (130 mm. long)	5	5	5	5	5
80 70 114	—	Wire strap (135 mm. long)	3	3	3	3	3
80 70 118	—	Wire strap (220 mm. long)	3	3	3	3	3
80 70 232	—	Clamp 22 mm. dia.	2	2	2	2	2

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69
		Jonction block with wiring on battery carrier					
80 70 228	148	Jonction block 3-pole	1	1	1	1	1
99 45 110	—	Cotter pin 2×20 steel	2	2	2	2	2
99 76 425	—	Wire B 0.75 (×120) black (deliverable only in running meters)	1	1	1	1	1
		Wiring harness					
80 66 030	—	Wiring harness with wires	1	—	—	1	—
80 66 035	—	Wiring harness with wires	—	1	1	—	1
		Wires, deliverable only in running meters					
99 76 420	—	Wire B 0.75 Cu., brown	1	1	1	1	1
99 76 425	—	Wire B 0.75 Cu., black.	1	1	1	1	1
99 76 426	—	Wire B 0.75 Cu., blue	1	1	1	1	1
99 76 429	—	Wire B 0.75 Cu., black-violet	—	1	1	—	1
99 76 484	—	Wire B 1.5 Cu., black-red	1	1	1	1	1
99 76 485	—	Wire B 1.5 Cu., black	1	1	1	1	1
99 76 486	—	Wire B 1.5 Cu., brown	1	1	1	1	1
99 76 511	—	Wire B 2.5 Cu., red	1	1	1	1	1
		Insulator tubings, deliverable only in running meters					
99 75 260	—	Insulator tubing B 4×5, black	1	1	1	1	1
99 75 270	—	Insulator tubing B 5×6.2, black	1	1	1	1	1
99 75 282	—	Insulator tubing B 6×7.2, black	1	1	1	1	1
99 75 290	—	Insulator tubing B 7×8.2, black	1	1	1	1	1
99 75 300	—	Insulator tubing B 8×9.4, black	1	1	1	1	1
99 75 312	—	Insulator tubing B 9×10.4, black	1	1	1	1	1
99 75 332	—	Insulator tubing B 12×13.6, black	1	1	1	1	1
		Rubber grommets					
80 70 174	—	Rubber grommet for insulator tubing B 4×5	3	—	—	3	—
80 70 186	—	Rubber grommet for insulator tubing B 12×13.6	1	1	1	1	1
80 70 188	—	Rubber grommet for insulator tubing B 6×7.2	6	6	6	6	6

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
80 70 189	—	Rubber grommet for connection of insulator tubing B 12×13.6 to insulator tubing B 6×7.2 — B 8×9.4 — B 9×10.4	1	1	1	1	1
80 70 220	—	Rubber grommet for insulator tubing B 6×7.2	2	7	7	2	7
80 70 224	—	Rubber grommet for battery carrier	1	1	1	1	1
80 36 163	—	Rubber grommet	—	1	1	—	1
		Cable shoes					
80 70 138	—	Cable shoe 5.3 mm. i. D.	2	2	2	2	2
80 70 139	—	Cable shoe 6.4 mm. i. D.	1	1	1	1	1
80 70 190	—	Cable shoe for wire connection to charge indicator light and neutral indicator light	2	2	2	2	2
85 66 123	—	Cable shoe	—	2	2	—	2
		Speedometer					
		for R 50 solo motorcycles					
80 80 076	149	Speedometer (ratio 0.75) with gasket and bulb	1	—	—	—	—
		R 50/2 · R 60/2					
80 80 058	149	Speedometer (ratio 0.75) with gasket and bulb	—	1	—	—	—
		R 50 S					
80 80 043	149	Speedometer (ratio 0.86) with gasket and bulb	—	—	1	—	—
		R 60					
80 80 090	149	Speedometer (ratio 0.7) with gasket and bulb	1	1	—	—	—

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
		R 69				
80 80 084	149	Speedometer (ratio 0.75) with gasket and bulb	—	—	—	1
		R 69 S				
80 80 045	149	Speedometer (ratio 0.75) with gasket and bulb	—	—	—	—
80 80 180	150	Speedometer cable with rubber grommet	1	1	1	1
80 80 160	151	Rubber grommet for speedometer cable	1	1	1	1
80 80 115	152	Gasket	1	1	1	1
99 78 270	153	Bulb J 6V 0.6W	1	1	1	1


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90 = Special Equipment

Table 10

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69
		Transmission for Sidecar Motorcycles					
10 00 026	—	Transmission, complete	—	1	—	—	—
10 40 027	—	Intermediary shaft	—	1	—	—	—
10 30 148	—	Spur gear, 3rd speed	—	1	—	—	—
10 30 144	—	Spur gear, 2nd speed	—	1	—	—	—
10 30 243	—	Spur gear, 1st speed	—	1	—	—	—
		Front Fork for Sidecar Motorcycles					
20 00 024	—	Front fork, complete	1	—	—	1	—
20 54 020	—	Suspension unit complete	2	—	—	2	—
20 54 022	—	Suspension unit	—	2	—	—	—
20 54 023	—	Suspension unit	—	—	2	—	2
20 54 009	—	Coil spring	2	2	2	2	2
		Handlebars for Sidecar Motorcycles					
20 72 033	—	Handlebars	1	—	—	1	—
20 72 200	—	Handlebars	—	1	1	—	1
20 72 201	—	Handlebars with colour finish (for authorities)	—	—	—	—	—
		High handlebars					
20 72 034	1	High handlebars	1	1	1	1	1
		Handlebar grips for solo and sidecar export machines without blinker lights					
20 72 197	—	Handlebar grip, left (fixed)	—	1	1	—	1
20 72 352	—	Throttle twist grip (for two cables) with brake lever	—	1	1	—	1
20 72 160	—	Handlebar grip, right	—	1	1	—	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Wheels for Sidecar Motorcycles For R 50 and R 69					
		R 50 up to vehicle 556 241					
		R 69 up to vehicle 652 304					
40 38 037	—	Front wheel with bearings	1	—	—	1	—
40 38 038	—	Rear wheel with bearings	1	—	—	1	—
40 38 216	—	Steel rim 2.15 B×18, chrome plated, front wheel	1	—	—	1	—
40 38 218	—	Steel rim 2.75 C×18, chrome plated, rear wheel	1	—	—	1	—
40 38 204	—	Spoke (front wheel)	40	—	—	40	—
40 38 206	—	Spoke (rear wheel)	40	—	—	40	—
		Wheels for Sidecar Motorcycles					
		R 50 from vehicle 556 242					
		R 69 from vehicle 652 305					
40 38 039	—	Front wheel with bearings	1	—	—	1	—
40 38 040	—	Rear wheel with bearings	1	—	—	1	—
40 38 217	—	Steel rim 2.15 B×18 chrome plated, front wheel	1	2	2	2	2
40 38 220	—	Steel rim, 2.75 C×18, chrome plated, rear wheel	1	—	—	1	—
40 38 215	—	Steel rim, 2.15 B×18, with colour finish (for authorities)	—	2	2	—	2
40 38 111	—	Spoke (front wheel)	40	—	—	40	—
40 38 207	—	Spoke (rear wheel)	40	—	—	40	—
40 32 209	—	Spoke (reinforced type)	40	—	—	40	—
40 38 226	—	Spoke, dead chrome plated (for authorities)	—	80	80	—	80
99 30 071	—	Nipple M 4, Ms, dead chrome plated (for authorities)	—	80	80	—	80

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
		Control Cables for sidecar motorcycles				
99 88 215	—	Steel cable A 2 (× 1395) deliverable only in running meters	1	—	—	1
99 88 275	—	Cable housing B 3 (× 1120) deliverable only in running meters	1	—	—	1
20 72 345	—	Hand brake control cable	1	—	—	1
99 88 215	—	Steel cable A 2 (× 1265) deliverable only in running meters	1	—	—	1
99 88 275	—	Cable housing B 3 (× 990) deliverable only in running meters	1	—	—	1
		For high handlebars				
20 72 322	—	Clutch control cable	1	1	1	1
20 72 346	—	Hand brake control cable	1	1	1	1
20 72 354	—	Throttle control cable	1	1	1	1
20 72 368	—	Ignition advance cable	1	1	1	1
		Rear Wheel Drive for sidecar motorcycles				
30 10 181	—	Pinion and ring gear, 6—26 tooth combination	1	1	1	1
30 38 245	—	Needle bearing	1	1	1	1
		R 50 up to vehicle No. 555 005 R 69 up to vehicle No. 652 304				
30 10 181	—	Pinion and ring gear, 6—26 tooth combination	1	1	1	1
		R 50 from vehicle No. 555 006 R 69 from vehicle No. 652 305				
30 10 185	—	Pinion and ring gear, 7—27 tooth combination, for R 60 and 60/2	1	1	—	—
30 10 183	—	Pinion and ring gear, 11—32 tooth combination for R 60/2	—	1	—	—

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Brake Lever for Rear Wheel for sidecar motorcycles					
30 60 207	—	Brake lever with threaded hole	1	1	1	1	1
		Suspension Unit (Spring and Shockabsorber Leg) for sidecar motorcycles					
30 54 038	—	Suspension unit, left	1	—	—	1	—
30 54 039	—	Suspension unit, right	1	—	—	1	—
30 54 040	—	Suspension unit, left	—	1	1	—	1
30 54 041	—	Suspension unit, right	—	1	1	—	1
30 54 286	—	Coil spring	2	2	2	2	2
		Fuel Tank					
40 80 047	2	Oversize fuel tank, unlacquered approx. 24 liters capacity	—	1	1	—	1
40 80 040	2	Oversize fuel tank, chrome plated	—	1	1	—	1
40 80 048	2	Oversize fuel tank, black finisch	—	1	1	—	1
40 80 192	3	Knee pad, left	—	1	1	—	1
40 80 193	—	Knee pad, right	—	1	1	—	1
40 80 170	4	Tool box lid	—	1	1	—	1
40 80 188	5	Rubber gasket between tank and lid	—	1	1	—	1
40 80 176	6	Hinge pin for rear hinge	—	2	2	—	2
		Toolbox lid lock, front					
40 80 165	7	Lock screw	—	1	1	—	1
40 80 160	8	Retaining washer	—	1	1	—	1
40 80 172	9	Key for lock crew	—	2	2	—	2
99 63 107	10	Seal ring A 10×16 steel pho.black.	—	2	2	—	2
99 63 108	11	Seal ring A 10×16 rubber	—	1	1	—	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
		Support plate for license plate for motorcycles exported from Germany				
50 96 182	12	Support plate (small type)	—	1	1	—
		As required for England motorcycles				
40 34 248	13	License (Number) plate	1	1	1	1
99 34 609	14	Round head notched nail 1.4×6	2	2	2	2
		Speedometers for solo motorcycles R 50 · R 69				
80 80 081	15	Speedometer, ratio 1.2, with gasket and bulb	1	—	—	1
		R 60				
80 80 091	15	Speedometer, ratio 1.44, with gasket and bulb	1	—	—	—
		R 50/2 · R 60/2				
80 80 056	15	Speedometer (i = 25 : 8), mile dial ratio 1.2	—	1	—	—
80 80 082	15	Speedometer (i = 25 : 8) with trip recorder, mile dial ratio 1.2	—	1	—	—
		R 60/2				
80 80 092	15	Speedometer (i = 32 : 11), mile dial ratio 1.12	—	1	—	—
	15	Speedometer (i = 32 : 1) with trip recorder, mile dial ratio 1.12	—	1	—	—
		R 50 S				
80 80 044	15	Speedometer (i = 25 : 7), mile dial ratio 1.38	—	—	1	—
80 80 048	15	Speedometer (i = 25 : 7) with trip recorder, mile dial ratio 1.38	—	—	1	—

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		R 69 S					
80 80 046	15	Speedometer (i = 25 : 8), mile dial ratio 1.2	—	—	—	—	1
80 80 049	15	Speedometer (i = 25 : 8) with trip recorder, mile dial ratio 1.2	—	—	—	—	1
		Speedometers					
		for sidecar motorcycles					
		R 50					
80 80 078	15	Speedometer, ratio 1.0, with gasket and bulb	1	—	—	—	—
80 80 079	15	Speedometer (miles), ratio 1.6, with gasket and bulb	1	—	—	—	—
80 80 094	15	Speedometer, ratio 0.9, with gasket and bulb	1	—	—	—	—
80 80 095	15	Speedometer (miles) ratio 1.44, with gasket and bulb	1	—	—	—	—
		R 69					
80 80 086	15	Speedometer, ratio 1.0, with gasket and bulb	—	—	—	1	—
80 80 087	15	Speedometer (miles), ratio 1.6, with gasket and bulb	—	—	—	1	—
		R 50/2 · R 60/2					
80 80 079	15	Speedometer (i = 26 : 6), mile dial ratio 1.6	—	1	—	—	—
80 80 040	15	Speedometer (i = 26 : 6) with trip recorder, mile dial ratio 1.6	—	1	—	—	—
		R 60/2					
80 80 096	15	Speedometer (i = 27 : 7) with trip recorder (miles)	—	1	—	—	—
		R 50/2 · R 50 S · R 60/2					
80 80 047	15	Speedometer, ratio 1.0, (i = 26 : 6) 130 Km.	—	1	1	—	—
80 80 086	15	Speedometer, ratio 1.0, (i = 26 : 6) 160 Km.	—	—	—	—	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
		R 50 S				
80 80 079	15	Speedometer (i = 26 : 6) mile dial ratio 1.6	—	—	1	—
80 80 040	15	Speedometer (i = 26 : 6) with trip recorder, mile dial ratio 1.6	—	—	1	—
		R 69 S				
80 80 088	15	Speedometer (i = 26 : 6), mile dial ratio 1.6	—	—	—	—
80 80 055	15	Speedometer (i = 26 : 6) with trip recorder, mile dial ratio 1.6	—	—	—	—
		Side Stand (Prop Stand)				
90 24 012	—	Side stand with fittings	1	—	—	1
90 24 011	—	Side stand with fittings	—	1	1	—
90 24 010	16	Side stand	1	—	—	1
90 24 009	16	Side stand	—	1	1	—
90 24 170	17	Rubber bumper	1	1	1	1
90 24 178	18	Fulcrum pin	1	1	1	1
00 21 119	19	Washer	1	1	1	1
99 45 165	20	Cotter pin 3×20	1	1	1	1
90 24 174	21	Spring	1	1	1	1
		Sidecar Attachment				
90 20 172	22	Sidecar attachments, complete set	1	1	1	1
90 20 184	23	Ball head throug bolt	1	1	1	1
99 23 445	24	Castellated nut M 12×1.5—6 pho.black.	1	1	1	1
99 45 175	25	Cotter pin 3×25	1	1	1	1
90 20 182	26	Eye bolt, front and rear	2	2	2	2
90 20 188	27	Flat washer	2	2	2	2
99 32 130	28	Spring washer B 12	2	2	2	2
99 22 135	29	Hex. nut M 12—6 S pho.black.	2	2	2	2

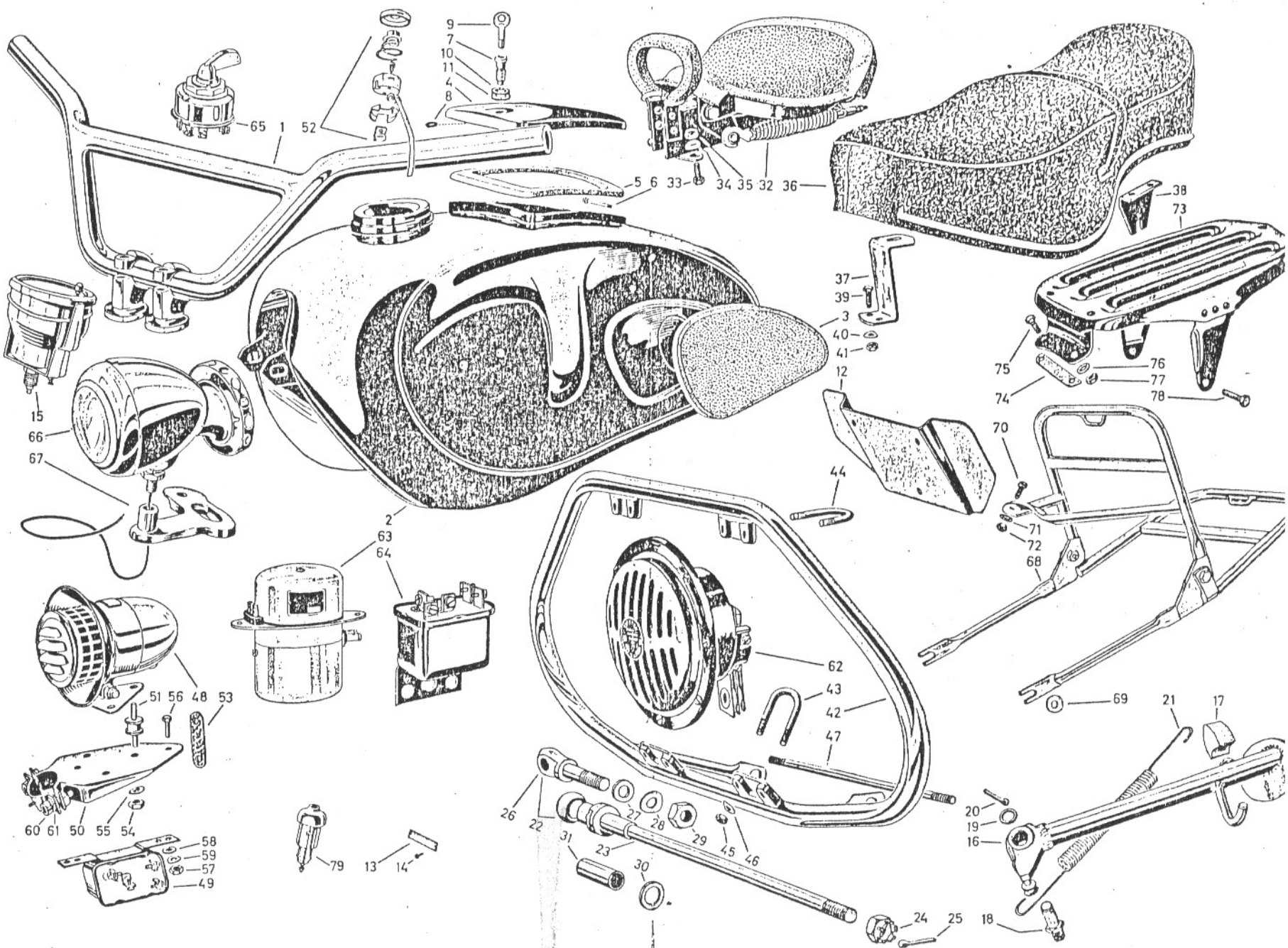
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Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Supplementary parts for left-side attachment					
99 31 672	30	Flat washer 13 steel pho.black.	1	1	1	1	1
40 34 224	31	Bushing, front	1	1	1	1	1
		Pillion Seat and Foot Rests					
90 34 017	—	Pillion seat with fittings	1	—	—	1	—
90 34 015	32	Pillion seat for pannier bag racks and luggage carrier with fittings	—	1	1	—	1
90 34 211	—	Adapter, front	—	1	1	—	1
90 34 212	—	Adapter, rear	—	1	1	—	1
99 13 456	—	Hex.-head screw M 6×15—8 G, chrome plated	4	—	—	4	—
99 12 445	33	Hex.-head screw M 8×28 G pho.black	—	3	3	—	3
99 32 091	34	Spring washer B 8	—	3	3	—	3
99 31 045	—	Washer 6.4 chrome plated	4	—	—	4	—
99 36 135	—	Star washer J 6.4 pho.	4	—	—	4	—
99 22 054	—	Hex. nut M 6—6 S pho.black.	4	—	—	4	—
99 22 082	35	Hex. nut M 8—6 S pho.black.	—	3	3	—	3
		Pillion foot rests					
40 34 150	—	Foot rests	2	2	2	2	2
99 36 245	—	Star washer J 12.5 pho.	2	2	2	2	2
99 13 890	—	Hex.-head screw M 12×25—8 G pho.black.	2	2	2	2	2
90 34 128	—	Foot rest rubber	2	2	2	2	2
		Pannier bag adapter plate on luggage carrier					
99 34 210	—	Adapter plate	—	1	1	—	1
99 32 091	—	Spring washer B 8	—	3	3	—	3
99 13 621	—	Hex.-head screw M 8×15—8 G pho.black.	—	3	3	—	3

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
		Dual Seat				
90 34 020	—	Dual seat, large model (USA)	—	1	1	—
90 34 025	36	Dual seat, optional Part No. 90 34 026	1	—	—	1
90 34 021	—	Dual seat without fittings	—	1	1	—
90 34 111	37	Mounting bracket, front	—	1	1	—
90 34 110	38	Mounting bracket, lateral	—	2	2	—
		Front attachment on frame				
99 13 457	39	Hex.-head screw M 6×15—8 G pho.black.	2	2	2	2
99 32 071	40	Spring washer B 6	2	2	2	2
99 22 054	41	Hex.-head screw M 6—6 S pho.black.	2	2	2	2
		Safety Bars (Crash Bars) for Cylinders				
90 24 024	—	Safety bars, complete set	1	—	—	1
90 24 158	—	Safety bars	1	—	—	1
90 24 025	—	Safety bars, complete set, chrome plated, with fittings	—	1	1	—
90 24 156	42	Safety bars, chrome plated	—	1	1	—
90 24 182	43	Clamp, bottom	2	2	2	2
90 24 186	44	Clamp, top	2	2	2	2
99 22 081	45	Hex. nut M 8—6 S cad.	8	8	8	8
99 32 090	46	Spring washer B 8 cad.	8	8	8	8
90 24 190	47	Engine mounting stud, front	1	1	1	1
		Battery (for Police Motorcycles)				
80 42 027	—	Battery 6 V 16 Ah	1	1	—	1
80 42 213	—	Adapter plate	1	1	—	1
80 42 221	—	Support	1	—	—	1
80 42 211	—	Support	—	1	—	—

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69	R 69 S
		Generator (75 Watts)					
80 02 032	—	Generator (75 Watts), complete	—	1	1	—	1
00 02 178	—	Engine protecting cap	—	1	1	—	1
00 02 195	—	Hex. nut for engine protecting cap	—	2	2	—	1
00 02 176	—	Engine protecting cap for "France" motorcycles	—	1	1	—	1
99 19 966	—	Allenhead screw M 6×80—8 G pho.black. for "France" motorcycles	—	2	2	—	2
		Plug for Jack					
80 60 106	79	Plug for connecting cable of sidecar	—	1	1	—	1
		Gasket Set					
90 90 267	—	Gasket set	1	1	—	—	—
90 90 269	—	Gasket set	—	—	—	1	—
90 90 272	—	Gasket set	—	—	1	—	1
		Suppression Equipment for "France" Motorcycles (Gendarmerie)					
00 01 028	—	Engine housing	—	1	1	—	1
80 36 178	—	Connector bushing for suppression netting to engine housing	—	2	2	—	2
80 36 240	—	Suppression netting	—	2	2	—	2
80 36 002	—	Ignition cable with complete suppression	—	2	2	—	2
80 36 514	—	Spark plug adapter with complete suppression	—	2	2	—	2
		Tools					
90 90 031	—	Tool bag with tools and cleaning rag	1	1	1	1	1
90 92 053	—	Tool bag only	1	1	1	1	1

Ordering No.	Call-out No.	Description of Part	Qty. R 50 60	R 50/2 60/2	R 50 S	R 69
90 90 140	—	Wrench for carburetor	1	1	1	1
90 90 108	—	Open-ended wrench 8×10 SW	1	1	1	1
90 90 112	—	Open-ended wrench 9×11 SW	1	1	1	1
90 90 116	—	Open-ended wrench 12×14 SW	1	1	1	1
90 90 117	—	Open-ended wrench 14×17 SW	1	1	1	1
90 90 122	—	Open-ended wrench 19×22 SW	1	1	1	1
90 90 123	—	Open-ended wrench 36×41 SW	1	1	1	1
90 90 124	—	Ring spanner 12×14 SW	1	1	1	1
90 90 125	—	Socket wrench 21×22 SW	1	1	1	1
90 90 127	—	Socket wrench 14×19 SW	1	1	1	1
90 90 147	—	Screw driver	1	1	1	1
90 90 149	—	Screw driver	1	1	1	1
90 90 104	—	Rod to remove wheel axle	1	1	1	1
90 90 133	—	Tire iron	2	2	2	2
90 90 135	—	Pliers	1	1	1	1
90 90 139	—	Ring spanner for nuts	1	1	1	1
90 90 154	—	Feeler gauge	1	1	1	1
90 90 156	—	Ring spanner with one open end 17×27 SW	1	1	1	1
90 90 188	—	Cleaning rag	1	1	1	1
90 90 070	—	Tire pump	1	1	1	1
90 90 172	—	Rubber cap for tire pump	1	1	1	1
90 90 174	—	Piston assembly for tire pump	1	1	1	1
90 90 176	—	Rubber ring for tire pump	1	1	1	1
90 90 178	—	Cap nut for tire pump	1	1	1	1
90 90 162	—	Patch kit	1	1	1	1
		Set of locks				
90 16 009	—	Set of locks for steering and tool box lid with two keys	1	1	1	1
90 16 007	—	Lock for steering	1	1	1	1
90 16 105	—	Key with stamped-on key number	2	2	2	2
90 16 104	—	Spring	1	1	1	1
90 16 101	—	Cover	1	1	1	1
99 32 016	—	Spring washer A 4, dead chrome plated	1	1	1	1
99 44 650	—	Notched nail 4×10, dead chrome plated	1	1	1	1


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