

PARTS LIST No. 75

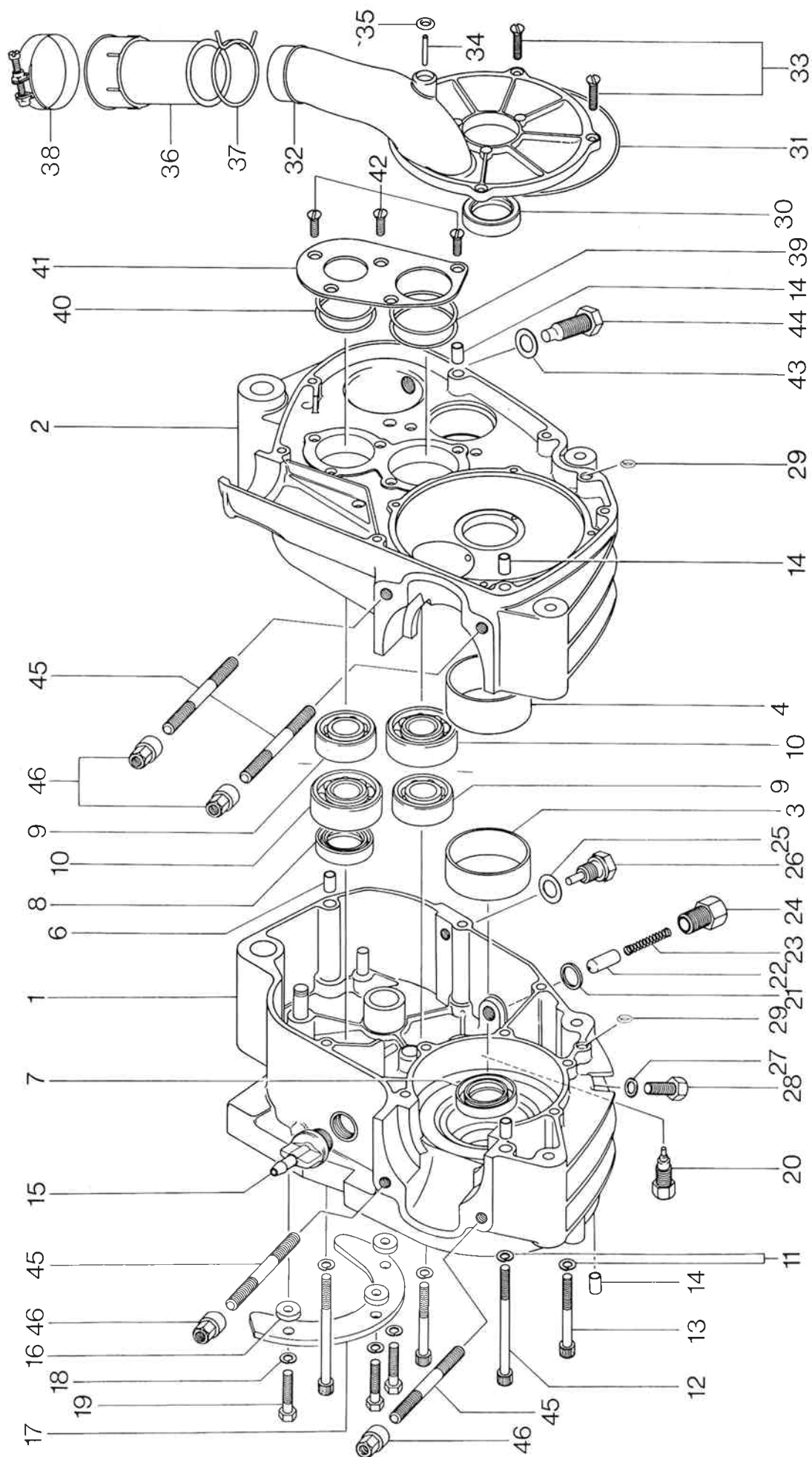
Motor Cycle - Engines

Types 124 TNT and 174 TNT

Production 1974

BOMBARDIER - ROTAX GMBH
A-4623 Gunskirchen/Austria

Phone: (07246)271 Telex: 25546a Cables: BOMBROTAX Gunskirchen



Crankcase, Disk Valve Cover

Ill.No.	Part No.	Description	Qty.
1,2,3,4,6	291 367	crankcase assy.	1
3	260 390	ring, crankcase, magneto side	1
4	260 400	ring, crankcase, clutch side	1
6	949 900	dowel, locating	2
7	230 390	seal, magneto side	1
8	230 421 N	seal, transmission main shaft	1
9	232 630	ball bearing 6203	2
10	232 640	ball bearing 6204	2
11	945 751	lock washer 6	10
12	241 870	screw, allen head M6 x 70	5
13	241 820	screw, allen head M6 x 45	5
14	949 900	dowel, locating	5
15	241 920	oil filler cap M18 x 1,5	1
16	247 240	spacer, chain guard	3
17	297 330	chain guard for sprocket 13 t.	1
17	297 331	chain guard for sprocket 14 t.	1
17	297 332	chain guard for sprocket 15 t.	1
18	945 751	lock washer 6	3
19	240 035	screw, hex. head M6 x 25	3
20	241 850	contact screw assy., neutral indicator	1
21	230 380	gasket ring, index plug	1
22	258 550	plunger, index	1
23	239 710	spring, index plunger	1
24	241 785	plug, transmission, index	1
25	650 040	gasket ring	1
26	241 781	plug, magnetic drain	1
27	950 141	gasket ring	1
28	940 580	screw, hex. head M8x16,crankcase drain	1
29	230 530	O-ring	2
30	230 421 N	seal, clutch side	1
31	230 310	O-ring, disk valve cover	1
32,34	212 032	disk valve cover assy.	1
33	940 510	screw, countersunk slot head M5 x 16	4
34	224 040	diffuser tube	1
35	230 260	O-ring, oil injection inlet port	1

Ill.No.	Part No.	Description	Qty.
36	267 740	adapter, carburetor	1
37	251 840	hose clamp, carburetor adapter	1
38	251 820	hose clamp, carburetor	1
39	227 610	shim 0,5 mm, transmission clutch shaft bearing	as requ.
	227 611	shim 0,3 mm, transmission clutch shaft bearing	as requ.
	227 612	shim 0,1 mm, transmission clutch shaft bearing	as requ.
40	227 520	shim 0,5 mm, transmission main shaft bearing	as requ.
	227 521	shim 0,3 mm, transmission main shaft bearing	as requ.
	227 522	shim 0,1 mm, transmission main shaft bearing	as requ.
41	227 550	retaining plate, transmission bearings .	1
42	940 315	screw, countersunk slot head M5x12 . . .	5
43	650 040	gasket ring	1
44	241 775	screw, kick starter stop	1
45	840 535 N	stud M8x44, cylinder base	4
46	242 580	nut M8, cylinder base (only for engine type 174 up to engine serial number 61.069)	4
46	242 585	nut M8, cylinder base (for all engines type 124 and for engines type 174, serial number 61.070 and above)	4

Crankshaft, Piston, Cylinder, Cylinder head

Ill.No.	Part No.	D e s c r i p t i o n	Quantity	
			type 124	type 174
1,2	291 510	crankshaft assy.	1	-
1,2	291 516	crankshaft assy.	-	1
2	227 510	filler cap	1	1
3	224 020	plate, oil guide	1	-
3	224 025	plate, oil guide	-	1
4	247 250	spacer, crankshaft, magneto side	1	1
5	944 470	shim 0,2 mm, crankshaft, magneto side	as requested	
	944 471	shim 0,3 mm, crankshaft, magneto side	"	"
	944 472	shim 0,5 mm, crankshaft, magneto side	"	"
	944 473	shim 1,0 mm, crankshaft, magneto side	"	"
	944 474	shim 0,1 mm, crankshaft, magneto side	"	"
6	232 760	ball bearing 6205, crankshaft, magneto side	1	1
7	242 570	hex. nut M16x1,5, crankshaft, magneto side	1	1
8	230 530	O-ring (for crankshaft with countersunk crank pin)	1	1
9	× 234 920	gear 9 t., oil pump pinion (steel part, pressed into crankshaft) engine type 124: up to engine serial no. 55317 engine type 174: up to engine serial no. 62521	1	1
9	✓ 234 922	gear 9 t., oil pump pinion (polyamid part, screwed into crankshaft) engine type 124: engine serial no. 55318 and above engine type 174: engine serial no. 62522 and above.	1	1
10	232 750	ball bearing 3205, double row, crankshaft, clutch side	1	1
11	247 215	spacer, disk valve	1	1
12	224 015	disk valve	1	1
13	291 590	drive gear with clutch drum assy. (replace only drive gear with clutch drum assy., see also page 12, no. 4)	1	1

Ill.No.	Part No.	Description	Quantity	
			type 124	type 174
14	242 610	nut M18x1,5, crankshaft, clutch side	1	1
15	246 011	key, Woodruff, crankshaft, magneto side	1	1
16	246 570	key, Woodruff, crankshaft, clutch side	1	1
17	932 904	needle bearing, piston pin . . .	1	1
18,19,20	291 520	piston assy. w. rings 54,0 Ø, std.	1	-
	291 521	piston assy. w. rings 54,25 Ø, 1st oversize	1	-
	291 522	piston assy. w. rings 54,5 Ø, 2nd oversize	1	-
18,19, 20	291 523	piston assy. w. rings 54,75 Ø, 3rd oversize	1	-
	291 530	piston assy. w. 2 rings 62 Ø, std.	-	1
	291 531	piston assy. w. 2 rings 62,25 Ø, 1st oversize	-	1
	291 532	piston assy. w. 2 rings 62,5 Ø, 2nd oversize	-	1
19	291 533	piston assy. w. 2 rings 62,75 Ø, 3rd oversize	-	1
	215 110	L-trapez ring 54,0 Ø, std.	1	-
	215 111	L-trapez ring 54,25 Ø, 1st oversize	1	-
	215 112	L-trapez ring 54,5 Ø, 2nd oversize	1	-
19	215 113	L-trapez ring 54,75 Ø, 3rd oversize	1	-
	215 120	L-trapez ring 62,0 Ø, std.	-	1
	215 121	L-trapez ring 62,25 Ø, 1st over- size	-	1
	215 122	L-trapez ring 62,5 Ø, 2nd oversize	-	1
20	215 123	L-trapez ring 62,75 Ø, 3rd oversize	-	1
	915 650	rectangular ring 54,0 Ø, std. . .	1	-
	915 651	rectangular ring 54,25 Ø, 1st oversize	1	-
	915 652	rectangular ring 54,5 Ø, 2nd oversize	1	-
20	915 653	rectangular ring 54,75 Ø, 3rd oversize	1	-
	215 135	rectangular ring 62,0 Ø, std. . .	-	1

Ill.No.	Part No.	Description	Quantity	
			type 124	type 174
	215 136	rectangular ring 62,25 Ø, 1st oversize	-	1
	215 137	rectangular ring 62,5 Ø, 2nd oversize	-	1
	215 138	rectangular ring 62,75 Ø, 3rd oversize	-	1
21	916 310	piston pin	1	-
21	916 220	piston pin	-	1
22	945 735	circlip, piston pin	2	2
23	230 280	gasket, cylinder base	1	1
24,25	213 588	cylinder w. sleeve assy.	1	-
24,25	213 617	cylinder w. sleeve assy. (up to engine serial no. 61.069)	-	1
24,25	213 618	cylinder w. sleeve assy. (engine serial no. 61.070 and above)	-	1
25	260 420	absorber hose	4	4
26	241 890	stud M7x33,5, cylinder head	6	6
27	230 360	shim, cylinder head	as requ.-	
27	230 365	shim, cylinder head	-	as requ.
28	213 590	cylinder head, std., compr. ratio 13:1	1	-
28	213 595	cylinder head, high compr., compr. ratio 15:1	1	-
28	213 620	cylinder head, std., compr. ratio 13:1	-	1
28	213 625	cylinder head, high compr., compr. ratio 15:1	-	1
29	227 570	washer 7,4, cylinder head nut	6	6
30	242 590	hex. nut M7, cylinder head	6	6
31	230 500	gasket, cylinder head plug	1	1
32	241 880	plug M14x1,25, cylinder head	1	1
33	273 685	exhaust socket assy.	1	1
34	240 070	cyl. screw M8x20, exhaust socket	2	2
35	213 570	cylinder sleeve	1	-
35	213 600	cylinder sleeve	-	1
36	x291 514	crankshaft repair kit for crank- shaft with steel gear 9 t., oil pump pinion 234 920 pressed in (thrust washer 0,6 mm) engine type 124: up to engine serial no. 55317 engine type 174: up to engine serial no. 62521	1	1

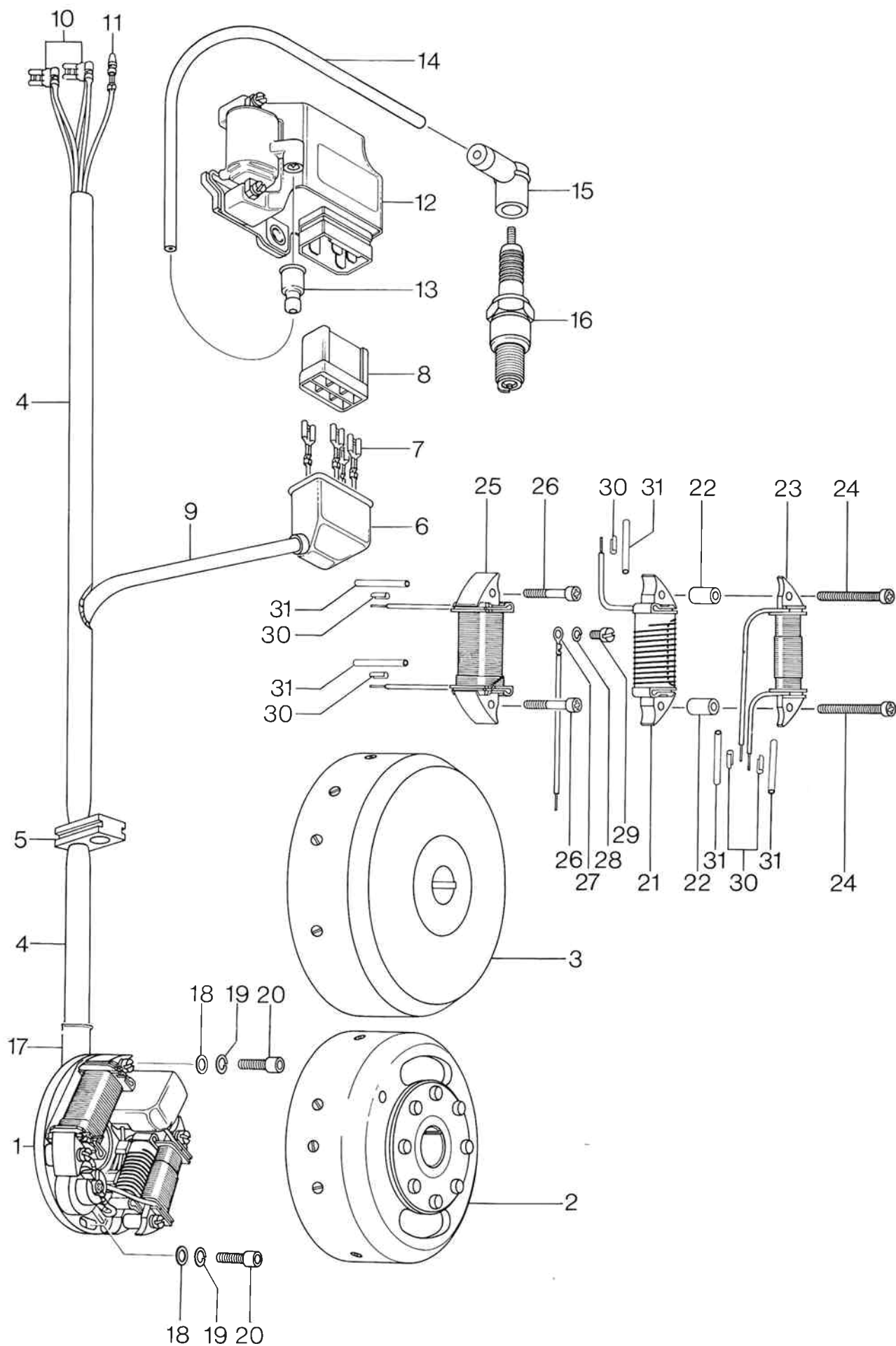
Ill.No.	Part No.	D e s c r i p t i o n	Quantity	
			type 124	type 174
36	N 291 519	crankshaft repair kit for crank- shaft with polyamid gear 9 t., oil pump pinion 234 922 screwed in (thrust washers 1,0 mm) engine type 124: engine serial no. 55318 and above engine type 174: engine serial no. 62522 and above	1	1

Magneto Cover, Clutch Cover, Oil Pump

Ill.No.	Part No.	Description	Q u a n t i t y	
			type 124	type 174
1	212 052	magneto cover	1	1
2	241 761	cyl. screw M6x50	2	2
3	241 821	cyl. screw M6x45	2	2
4	241 800	plug, adjustment	1	1
5,6,15	212 047	clutch cover assy.	1	1
6	949 030	drive pin 3x8	1	1
7	259 619 N	cam assy., clutch release	1	1
8	259 630	plate, clutch adj. locking	1	1
9	241 791 N	screw M8x15, clutch adjustment	1	1
10	241 795	screw M4x6, clutch adjustment	1	1
11	239 660	spring, clutch cam retaining	1	1
12	945 750	lock washer 5 (up to engine serial number 52385 only)	1	1
13	240 560	screw, slot head M5x12	1	1
14	239 630	spring, clutch cam return	1	1
15	256 040	valve assy., oil pump check	2	2
16	230 350	seal, kick start shaft	1	1
17	230 370	O-ring, oil pump mounting flange	1	1
18	291 430	oil pump assy.	1	-
18	291 432	oil pump assy.	-	1
19	945 750	lock washer 5	2	2
20	240 760	screw, slot head M5x16	1	1
21	240 975	screw, slot head M5x28	1	1
22	927 945	washer 6,2	1	1
23	234 932	gear, oil pump, 34 t.	1	1
24	842 040	hex. nut M6, oil pump gear	1	1
25	227 500	gasket, oil banjo	6	6
26	256 020	banjo	3	3
27	241 830	bolt, banjo	3	3
28	830 890	gasket, clutch cover	2	2
29	241 761	screw, allen head M6x50	1	1
30	241 811	screw, allen head M6x35	4	4
31	241 816	screw, allen head M6x40	3	3
32	830 890	gasket, oil level plug	1	1
33	840 370	plug, oil level	1	1
34	241 800	plug, adjustment	2	2

Ill.No.	Part No.	C e s c r i p t i o n	Quantity	
			type 124	type 174
35	256 032	oil line 560 mm	1	1
36	256 031	oil line 90 mm	2	2
37	297 340	nipple	1	1
38	212 060	oil pump cover	1	1
39	241 841	screw, allen head M5x12	3	3
40	230 450	O-ring, oil pump	1	1
41	256 060	plate, cam casing, oil pump	1	1
42	241 970	screw w. locking ring, oil pump	2	2
43	227 640	washer, thrust, oil pump	1	1
44	230 460	O-ring, oil pump	1	1
45	230 480	oil seal, oil pump	1	1
46	227 650	washer, wave, oil pump	1	1
47	239 720	spring, oil pump	1	1
48	256 080	retainer, oil pump	1	1
49	230 470	O-ring, oil pump	1	1
50	256 070	cap, sleeve, oil pump	1	1
51	241 970	screw w. locking ring, oil pump	2	2
52	230 490	X-ring, oil pump	1	1
53	227 660	collar, cam shaft, oil pump	1	1
54	239 670	spring, return, oil pump	1	1
55	256 010	lever, control, oil pump	1	1
56	945 751	lock washer 6	1	1
57	242 621	hex. nut M6, oil pump	1	1
58	250 250	washer, oil pump	1	1
59	241 980	screw, air vent, oil pump	1	11

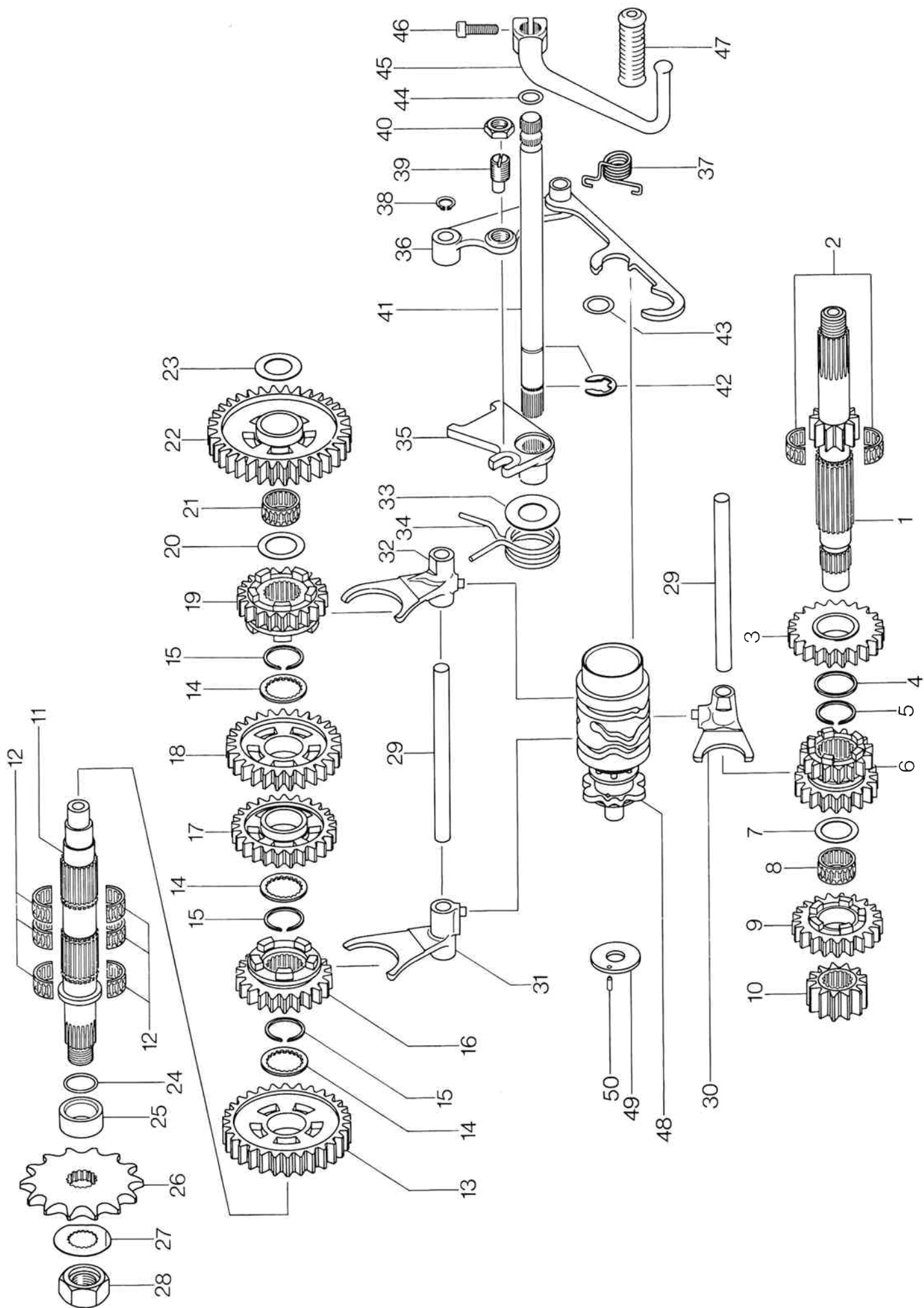
Parts marked with "x" are not available as spare parts!



Magneto Generator 12V 55W

Ill.No.	Part No.	Description	Qty.
1,2,4,5, 6,7,8,9, 10,11,12, 13,14,15	291 452 x	magneto generator assy.	1
1,4,5,6, 7,8,9, 10,11	291 462	stator plate assy.	1
without ill.	264 560	stator plate alone	1
2	291 405 x	flywheel	1
4	260 433	protection hose 400 mm	1
5	260 345	cable grommet	1
6	960 791	protection cap	1
7	864 011	Faston connector	4
8	865 455	connector housing	1
9	260 462	protection hose 185 mm	1
10	864 261	Faston connector	2
11	964 062	contact pin	1
12	264 470	electronic box	1
13	960 360	protection cap	1
14	265 745	ignition cable 440 mm	1
15	865 205	spark plug protector	1
16		spark plug	1
17	224 030	holder, cables	1
18	927 570	washer 5,3	2
19	945 750	lock washer 5	2
20	840 510	screw M5x16, allen head	2
21	264 517 N	charging coil with cable cable	1
without ill.	244 072 N	washer 4,3 (install between armature plate and charging coil, when bosses on stator plate are 10,5 mm high. Not needed when bosses are approx. 12 mm high)	4
22	247 260	distance sleeve 10,5 mm	1
23	264 505 x	brake light coil with cables.	1
24	841 025	cyl. screw M4x28	2
25	264 495 x	lighting coil with cables	1
26	841 030	cyl. screw M4x22	2

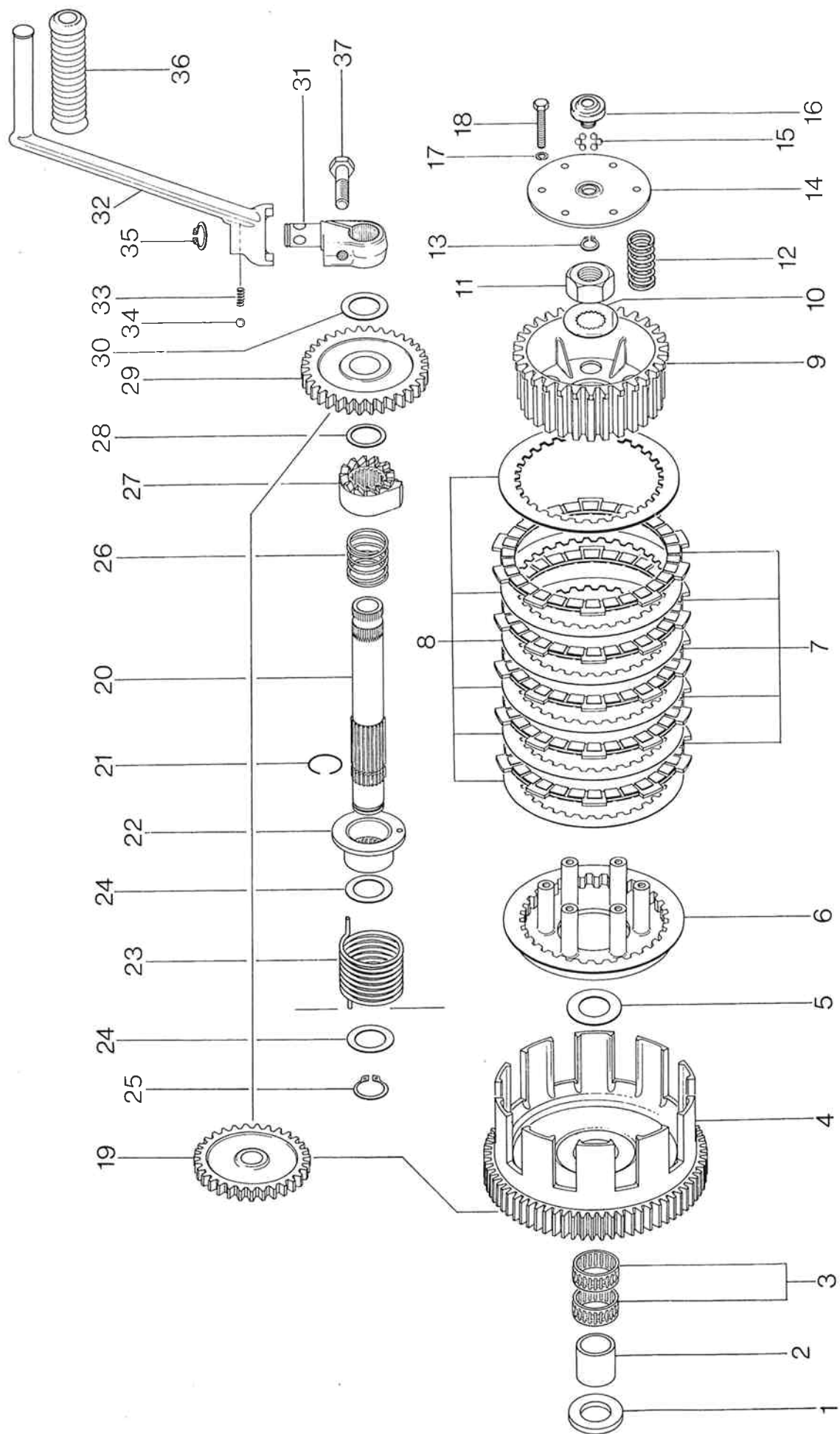
Ill.No.	Part No.	D e s c r i p t i o n	Qty.
27	965 700	cable shoe M4	1
28	945 758	lock washer 4	1
29	941 271	cyl. screw M4x6	1
30	264 530	cable terminal	7
31	260 411	protection hose 25 mm	7



Transmission

Ill.No.	Part No.	Description	Qty.
1	237 400	clutch shaft, 10 t.	1
2	232 665	needle bearing assy., clutch shaft . . .	1
3	234 885	gear 6th, clutch shaft, 22 t.	1
4	227 470	thrust washer, clutch shaft	1
5	245 340	snapping, clutch shaft	1
6	234 847	gear 3rd/4th, clutch shaft, 16/19 t. . .	1
7	227 440	thrust washer, clutch shaft	1
8	232 660	needle bearing 20, clutch shaft	1
9	234 865	gear 5th, clutch shaft, 21 t.	1
10	234 825	gear 2nd, main shaft, 13 t.	1
11	237 415	main shaft	1
12	232 740	needle bearing 21, main shaft	3
13	234 815	gear 2nd, main shaft, 30 t.	1
14	227 460	thrust washer, main shaft	3
15	245 340	snapping, main shaft	3
16	234 877	gear 5th, main shaft, 23 t.	1
17	234 855	gear 4th, main shaft, 25 t.	1
18	234 835	gear 3rd, main shaft, 27 t.	1
19	234 897	gear 6th, main shaft, 21 t.	1
20	944 466	thrust washer, main shaft	1
21	232 660	needle bearing 20, main shaft	1
22	234 805	gear 1st, main shaft, 34 t.	1
23	227 430	thrust washer, main shaft	1
24	230 400	O-ring, main shaft	1
25	247 225	spacer, sprocket	1
26	236 952	sprocket, 15 t.	1
26	236 951	sprocket, 14 t.	1
26	236 950	sprocket, 13 t.	1
27	245 320	washer, main shaft locking	1
28	242 600	hex. nut M16x1,5, main shaft	1
29	258 540	pin, shift fork guide	2
30	258 535	fork, shifting 5-6	1
31	258 525	fork, shifting 2-4	1
32	258 515	fork, shifting 1-3	1
33	427 070	thrust washer, transmission actuating lever	1
34	239 640	spring, transmission actuating lever . .	1

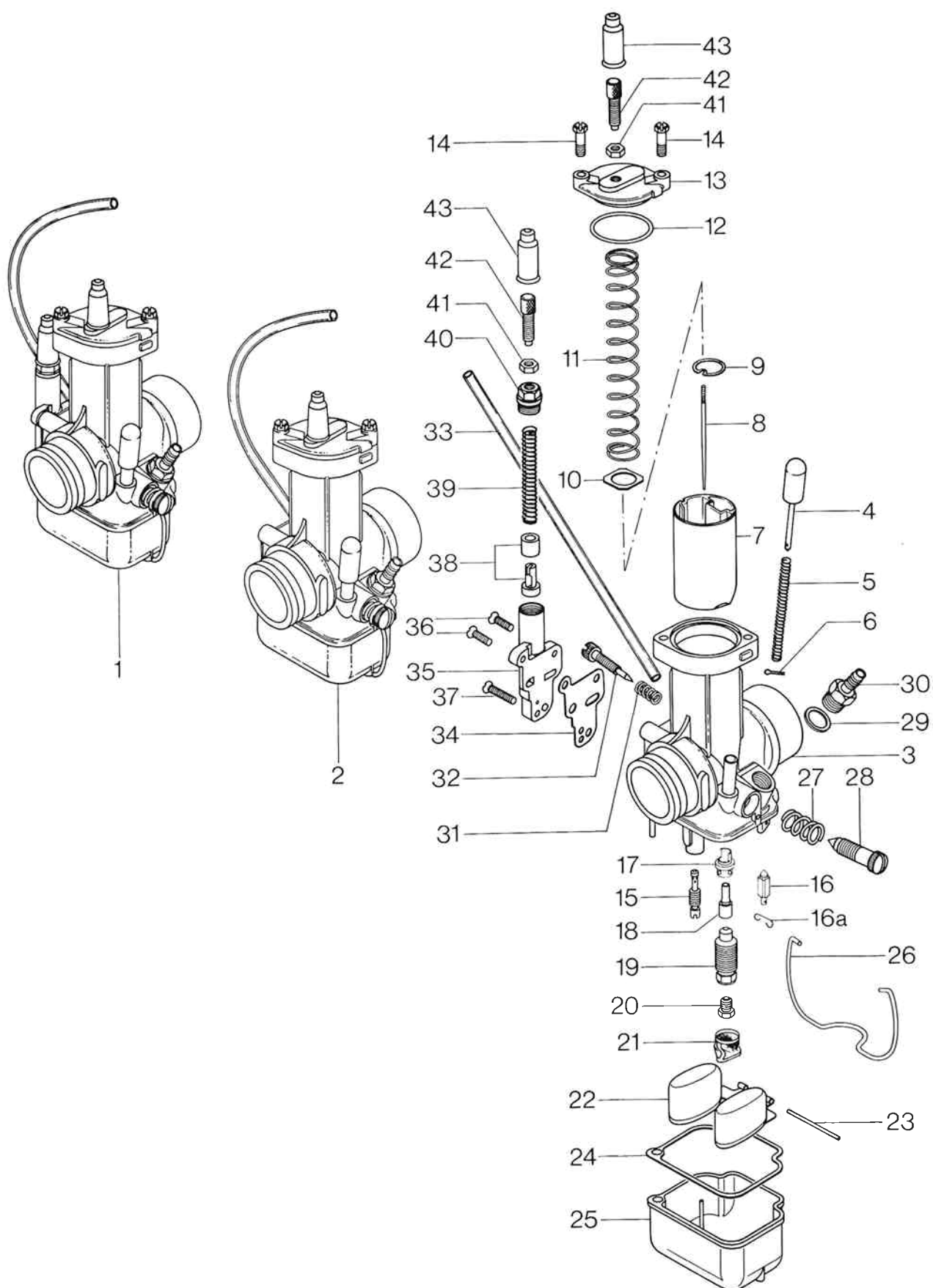
Ill.No.	Part No.	D e s c r i p t i o n	Qty.
35	258 575	lever, transmission actuating	1
36	258 507	pawl assy.. . . .	1
37	239 650	spring, pawl	1
38	245 330	snpring 10x1	1
39	241 805	screw, pawl positioning	1
40	242 270	hex. nut M12x1, pawl positioning locking	1
41	237 435	shift shaft	1
42	945 790	retaining ring, shift shaft	2
43	944 851	thrust washer, shift shaft	1
44	430 110	O-ring, shift shaft	1
45	248 781	shift lever	1
46	241 930	screw, allen head M6x20	1
47	260 200	rubber, shift lever	1
48	258 457	shift drum assy.	1
49	227 560	isolating washer, shift drum	1
50	249 970	dowel pin, shift drum	1



Clutch, Kick Start

Ill.No.	Part No.	Description	Qty.
1	227 600	thrust washer, inner, clutch drum	1
2	232 700	inner race, clutch drum	1
3	232 650	needle bearing, clutch drum	2
4	291 590	drive gear with clutch drum assy. (replace only drive gear with clutch drum assy., see also page 3 no. 13)	1
5	227 590	thrust washer, outer, clutch drum	1
6	259 570	plate, clutch, inner pressure	1
7	259 560	plate, clutch, friction	5
8	259 555	plate, clutch, outer pressure	6
9	259 542	clutch hub	1
10	245 320	washer, transmission shaft locking	1
11	242 600	hex. nut M16x1,5, transmission shaft	1
12	239 625	spring, clutch (change springs only setwise)	6
13-16	259 596 N	plate, clutch spring retaining, w. hub assy.	1
13	245 330	snapring 10x1	1
14	259 590	plate, clutch spring retaining	1
15	932 990	ball 5/32"	12
16	259 705 N	hub, clutch spring retaining	1
17	945 750	lock washer 5	6
18	241 770	screw, hex. head M5x25	6
19	234 907	gear, kick start idler, 31 t.	1
20	237 420	kick start shaft	1
21	245 350	circlip, kick start shaft	1
22	228 195	retaining hub, kick start spring	1
23	239 381	spring, kick start return	1
24	944 466	thrust washer	2
25	945 660	snapring, kick start shaft	1
26	239 610	spring, kick start ratchet engagement	1
27	228 180	ratchet gear, kick start	1
28	227 480	thrust washer, kick gear	1
29	234 916 N	gear, kick start drive, 34 t.	1
30	944 460	shim 0,2 mm	as requ.
30	944 465 N	shim 0,15 mm	- " -
30	944 466 N	thrust washer, kick start	1

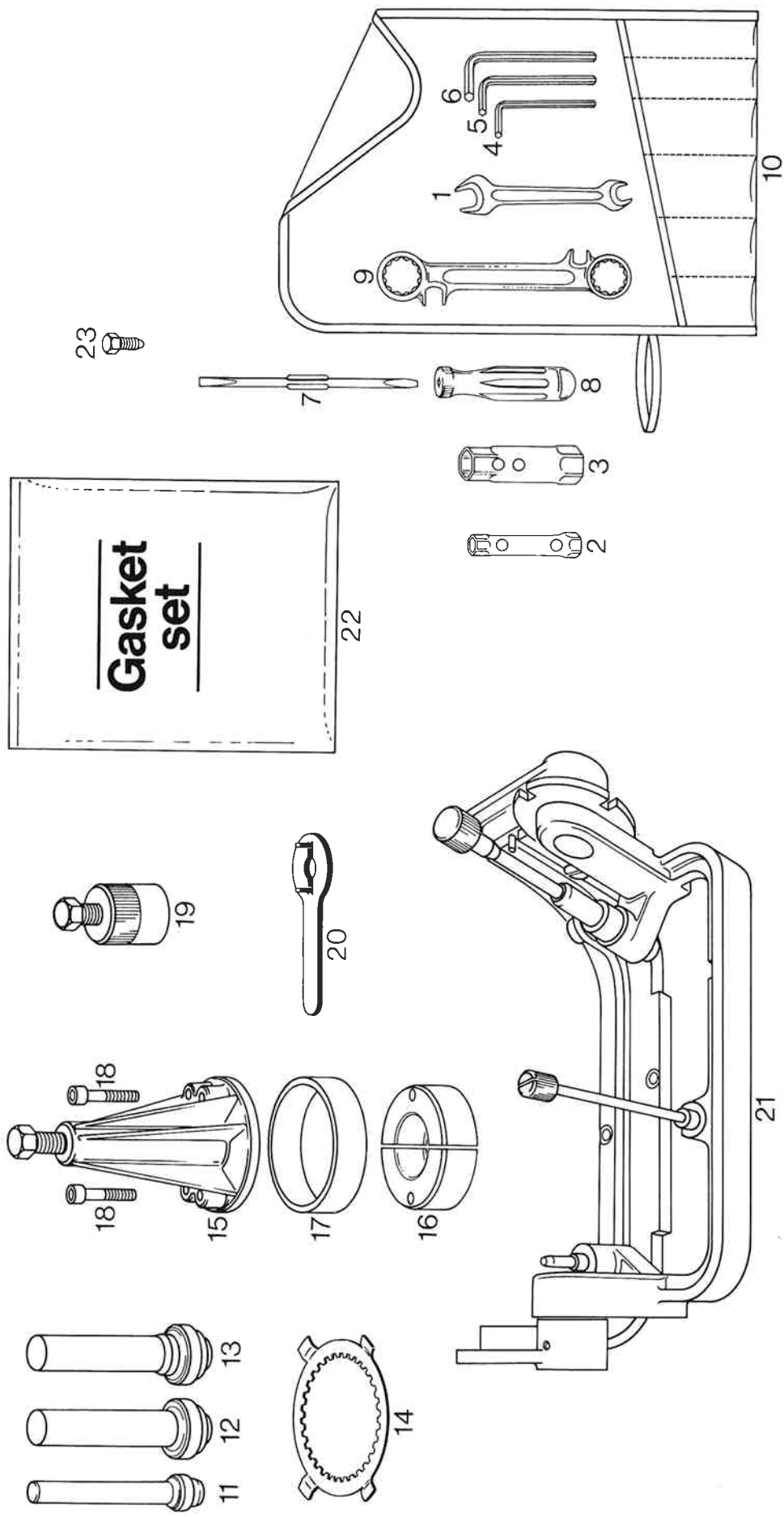
Ill.No.	Part No.	D e s c r i p t i o n	Qty.
31-36	248 796	lever assy., kick start	1
31	248 800	hub, kick start	1
32	248 791	lever, kick start	1
33	239 535	spring, kick start lever	1
34	232 440	ball 7/32", kick start lever	1
35	945 840	snapping, kick start lever	1
36	260 210	rubber sleeve, kick start	1
37	241 991	screw, hex. head M8x28	1



Carburetor

Ill.No.	Part No.	Description	Quantity	
			type 124TNT	type 174TNT
1	291 447	Bing double float carburetor 1/32/113	1	-
1	291 448	Bing double float carburetor 1/32/114	-	1
3	261 595	carburetor housing assy.	1	1
4	963 090	carburetor primer	1	1
5	938 100	spring, tickler	1	1
6	245 240	splint pin, tickler	1	1
7	261 631	carburetor piston	1	1
8	261 641	jet needle	1	1
9	261 650	holding plate	1	1
10	227 630	washer	1	1
11	239 700	spring, carburetor piston	1	1
12	261 670	rubber ring	1	1
13	261 660	cover plate	1	1
14	241 430	hex. screw M5x12	2	2
15	963 142	idler jet 40	1	1
16	261 700	float needle	1	1
16a	261 710	clip, float needle	1	1
17	261 692	diffuser	1	1
18	261 605	needle jet 2,73	1	1
19	963 130	mixing tube	1	1
20	268 983	main jet 150	1	-
20	268 984	main jet 155	-	1
20	268 979	main jet 130		
20	268 980	main jet 135		
20	268 981	main jet 140		
20	268 982	main jet 145		
20	268 985	main jet 160		
20	268 986	main jet 165		
20	268 987	main jet 170		
20	268 988	main jet 175		
20	268 989	main jet 180		
21	261 620	sieve sleeve	1	1
22	963 190	float	1	1
23	929 700	pin	1	1
24	830 720	gasket, float chamber	1	1

Ill.No.	Part No.	D e s c r i p t i o n	Q u a n t i t y	
			type 124TNT	type 174TNT
25	261 615	float chamber	1	1
26	963 180	spring clip	1	1
27	938 640	spring, adjustment screw	1	1
28	963 160	adjustment screw	1	1
29	930 565	sealing ring (for execution with screwed in nipple only)	1	1
30	241 940	nipple (for screwed in execution only)	1	1
31	939 880	spring, air regulating screw	1	1
32	963 150	air regulating screw	1	1
33	256 034	vent line 280 mm (for carburetor with vent line fitting only)	1	1
34	230 430	gasket	1	1
35	261 685	housing, starting piston	1	1
36	241 950	countersunk screw M4x12	2	2
37	241 955	countersunk screw M4x18	1	1
38	268 842	starting piston w. sleeve	1	1
39	661 050	spring, starting piston	1	1
40	661 070	closure screw	1	1
41	942 540	hex. nut M6x0,75	2	2
42	241 440	adjustment screw M6x0,75	2	2
43	260 370	rubber grommet	2	2



Tools, Gasket Set

Ill.No.	Part No.	Description	Qty.
1-10	277 780	tool kit, owners	1
1	276 065 ✓	fork wrench 10/13 mm	1
2	876 220 ✓	socket wrench 11/13 mm	1
3	277 410 ✓	socket wrench 17/21 mm	1
4	277 790 ✓	wrench 4, int. hex. screw	1
5	876 360 ✓	wrench 5, int. hex. screw	1
6	277 810 ✓	wrench 6, int. hex. screw	1
7	277 830 ✓	insert for screwdriver	1
8	277 840 ✓	grip for screwdriver	1
9	277 820 ✓	combined wrench	1
10	876 190 ✓	tool bag	1
11	277 850 ✓	oil seal insertion jig	1
12	277 860 ✓	oil seal insertion jig	1
13	277 870 ✓	oil seal insertion jig	1
14	277 885 ✓	clutch hub locking tool	1
15	876 296 ✓	puller assy. for bearings on crankshaft	1
16	277 890 ✓	ringhalf for puller	2
17	977 480 ✓	ring for puller	1
18	840 680 ✓	cyl. screw w. int. hex. M8 x 40	2
19	277 805 ✓	puller assy. for flywheel	1
20	277 900 ✓	pump gear wrench	1
21	277 910 ✓	assembly trestle	1
22	291 471 ✓	gasket set for engine type 124	1
22	291 476 ✓	gasket set for engine type 174	1
23	241 960 ✓	locating bolt for crankshaft	1