

# PARTS MANUAL

# 2001

## PLEASE OBSERVE !

- Always use original Husaberg parts.
- Use the special Husaberg tools when required.
- Install new gaskets, o-rings, circlips etc whenever possible.
- Always clean all parts thoroughly before assembly.
- All screws, nuts, bolts etc. are in the metric system.
- Never use incorrect tools, liquids, lubricants, fuel or oil quality.

This Parts Manual 2001 is subject to correction without prior notice.

The material and information included in this Parts Manual 2001 are all of the latest editions available at the time of the printing.

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# HUSABERG

MOTOR AB · SWEDEN

### CARBURETTOR

Part No.	Qty/Model	Description
1 2001640	1	Carburettor 38mm
1 2001641	1	Carburettor 40mm
2 2001642	2	Blow-off cover
2 2001643	2	Blow-off cover
3 2001644	1	Throttle body
3 2001645	1	Throttle body
4 2001646	1	Choke valve
4 2001647	1	Choke valve
5 2001648	1	Choke cable
5 2001649	1	Choke cable
6 2001650	1	Choke spring
6 2001651	1	Choke spring
7 2001652	1	Choke spring
7 2001653	1	Choke spring
8 2001654	1	Choke spring
8 2001655	1	Choke spring
9 2001656	1	Choke spring
9 2001657	1	Choke spring
10 2001658	1	Choke spring
10 2001659	1	Choke spring
11 2001660	1	Choke spring
11 2001661	1	Choke spring
12 2001662	1	Choke spring
12 2001663	1	Choke spring
13 2001664	1	Choke spring
13 2001665	1	Choke spring
14 2001666	1	Choke spring
14 2001667	1	Choke spring
15 2001668	1	Choke spring
15 2001669	1	Choke spring
16 2001670	1	Choke spring
16 2001671	1	Choke spring
17 2001672	1	Choke spring
17 2001673	1	Choke spring
18 2001674	1	Choke spring
18 2001675	1	Choke spring
19 2001676	1	Choke spring
19 2001677	1	Choke spring
20 2001678	1	Choke spring
20 2001679	1	Choke spring
21 2001680	1	Choke spring
21 2001681	1	Choke spring
22 2001682	1	Choke spring
22 2001683	1	Choke spring
23 2001684	1	Choke spring
23 2001685	1	Choke spring
24 2001686	1	Choke spring
24 2001687	1	Choke spring
25 2001688	1	Choke spring
25 2001689	1	Choke spring
26 2001690	1	Choke spring
26 2001691	1	Choke spring
27 2001692	1	Choke spring
27 2001693	1	Choke spring
28 2001694	1	Choke spring
28 2001695	1	Choke spring
29 2001696	1	Choke spring
29 2001697	1	Choke spring
30 2001698	1	Choke spring
30 2001699	1	Choke spring
31 2001700	1	Choke spring
31 2001701	1	Choke spring
32 2001702	1	Choke spring
32 2001703	1	Choke spring
33 2001704	1	Choke spring
33 2001705	1	Choke spring
34 2001706	1	Choke spring
34 2001707	1	Choke spring
35 2001708	1	Choke spring
35 2001709	1	Choke spring
36 2001710	1	Choke spring
36 2001711	1	Choke spring
37 2001712	1	Choke spring
37 2001713	1	Choke spring
38 2001714	1	Choke spring
38 2001715	1	Choke spring
39 2001716	1	Choke spring
39 2001717	1	Choke spring
40 2001718	1	Choke spring
40 2001719	1	Choke spring
41 2001720	1	Choke spring
41 2001721	1	Choke spring
42 2001722	1	Choke spring
42 2001723	1	Choke spring

### CARBURETTOR JETTING

Part No.	Qty/Model	Description
1 2001730	1	Needle #36
1 2001731	1	Needle #37
2 2001732	1	Needle #38
2 2001733	1	Needle #39
3 2001734	1	Needle #40
3 2001735	1	Needle #41
4 2001736	1	Needle #42
4 2001737	1	Needle #43
5 2001738	1	Needle #44
5 2001739	1	Needle #45
6 2001740	1	Needle #46
6 2001741	1	Needle #47
7 2001742	1	Needle #48
7 2001743	1	Needle #49
8 2001744	1	Needle #50
8 2001745	1	Needle #51
9 2001746	1	Needle #52
9 2001747	1	Needle #53
10 2001748	1	Needle #54
10 2001749	1	Needle #55
11 2001750	1	Needle #56
11 2001751	1	Needle #57
12 2001752	1	Needle #58
12 2001753	1	Needle #59
13 2001754	1	Needle #60
13 2001755	1	Needle #61
14 2001756	1	Needle #62
14 2001757	1	Needle #63
15 2001758	1	Needle #64
15 2001759	1	Needle #65
16 2001760	1	Needle #66
16 2001761	1	Needle #67
17 2001762	1	Needle #68
17 2001763	1	Needle #69
18 2001764	1	Needle #70
18 2001765	1	Needle #71
19 2001766	1	Needle #72
19 2001767	1	Needle #73
20 2001768	1	Needle #74
20 2001769	1	Needle #75
21 2001770	1	Needle #76
21 2001771	1	Needle #77
22 2001772	1	Needle #78
22 2001773	1	Needle #79
23 2001774	1	Needle #80
23 2001775	1	Needle #81
24 2001776	1	Needle #82
24 2001777	1	Needle #83
25 2001778	1	Needle #84
25 2001779	1	Needle #85
26 2001780	1	Needle #86
26 2001781	1	Needle #87
27 2001782	1	Needle #88
27 2001783	1	Needle #89
28 2001784	1	Needle #90
28 2001785	1	Needle #91
29 2001786	1	Needle #92
29 2001787	1	Needle #93
30 2001788	1	Needle #94
30 2001789	1	Needle #95
31 2001790	1	Needle #96
31 2001791	1	Needle #97
32 2001792	1	Needle #98
32 2001793	1	Needle #99
33 2001794	1	Needle #100
33 2001795	1	Needle #101
34 2001796	1	Needle #102
34 2001797	1	Needle #103
35 2001798	1	Needle #104
35 2001799	1	Needle #105
36 2001800	1	Needle #106
36 2001801	1	Needle #107
37 2001802	1	Needle #108
37 2001803	1	Needle #109
38 2001804	1	Needle #110
38 2001805	1	Needle #111
39 2001806	1	Needle #112
39 2001807	1	Needle #113
40 2001808	1	Needle #114
40 2001809	1	Needle #115
41 2001810	1	Needle #116
41 2001811	1	Needle #117
42 2001812	1	Needle #118
42 2001813	1	Needle #119
43 2001814	1	Needle #120
43 2001815	1	Needle #121

### TOOLS

Part No.	Qty/Model	Description
1 2001820	1	Metric hex key set
2 2001821	1	Metric hex key set
3 2001822	1	Metric hex key set
4 2001823	1	Metric hex key set
5 2001824	1	Metric hex key set
6 2001825	1	Metric hex key set
7 2001826	1	Metric hex key set
8 2001827	1	Metric hex key set
9 2001828	1	Metric hex key set
10 2001829	1	Metric hex key set
11 2001830	1	Metric hex key set
12 2001831	1	Metric hex key set
13 2001832	1	Metric hex key set
14 2001833	1	Metric hex key set
15 2001834	1	Metric hex key set
16 2001835	1	Metric hex key set
17 2001836	1	Metric hex key set
18 2001837	1	Metric hex key set
19 2001838	1	Metric hex key set
20 2001839	1	Metric hex key set
21 2001840	1	Metric hex key set
22 2001841	1	Metric hex key set
23 2001842	1	Metric hex key set
24 2001843	1	Metric hex key set
25 2001844	1	Metric hex key set
26 2001845	1	Metric hex key set
27 2001846	1	Metric hex key set
28 2001847	1	Metric hex key set
29 2001848	1	Metric hex key set
30 2001849	1	Metric hex key set
31 2001850	1	Metric hex key set
32 2001851	1	Metric hex key set
33 2001852	1	Metric hex key set
34 2001853	1	Metric hex key set
35 2001854	1	Metric hex key set
36 2001855	1	Metric hex key set
37 2001856	1	Metric hex key set
38 2001857	1	Metric hex key set
39 2001858	1	Metric hex key set
40 2001859	1	Metric hex key set
41 2001860	1	Metric hex key set
42 2001861	1	Metric hex key set
43 2001862	1	Metric hex key set
44 2001863	1	Metric hex key set

### MAINTENANCE SCHEDULE

Please observe:  
Riding under hard conditions demands more frequent maintenance

SUBJECT / HOURS	5	10	15	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
Chassis																							
Engine																							
Ignition																							
Oil																							
Valve																							
Spark plug																							
Fuel system																							
Clutch																							
Brake																							

Please read and observe the following:

**Warning**  
If the engine has to be running during any maintenance, make sure that the area is properly ventilated. Never run the engine in a closed area though the exhaust fumes are poisonous and thus hazardous to your health and life.

The battery is of a sealed construction, please take care. The electrolyte contains sulfuric acid and you must protect your eyes, skin and clothing if such fluid is assumed to be leaking or however exposed. In case of contact, wash and flush thoroughly with water and contact medical help if needed, especially if your eyes have been exposed to the fluid.

Fuel is extremely flammable and under certain conditions. Do not smoke or expose the fuel to open fire or

### MAINTENANCE SCHEDULE

Please observe:  
Riding under hard conditions demands more frequent maintenance

SUBJECT / HOURS	5	10	15	20	30	40	50	60	70	80	90	100
Chassis												
Engine												
Ignition												
Oil												
Valve												
Spark plug												
Fuel system												
Clutch												
Brake												

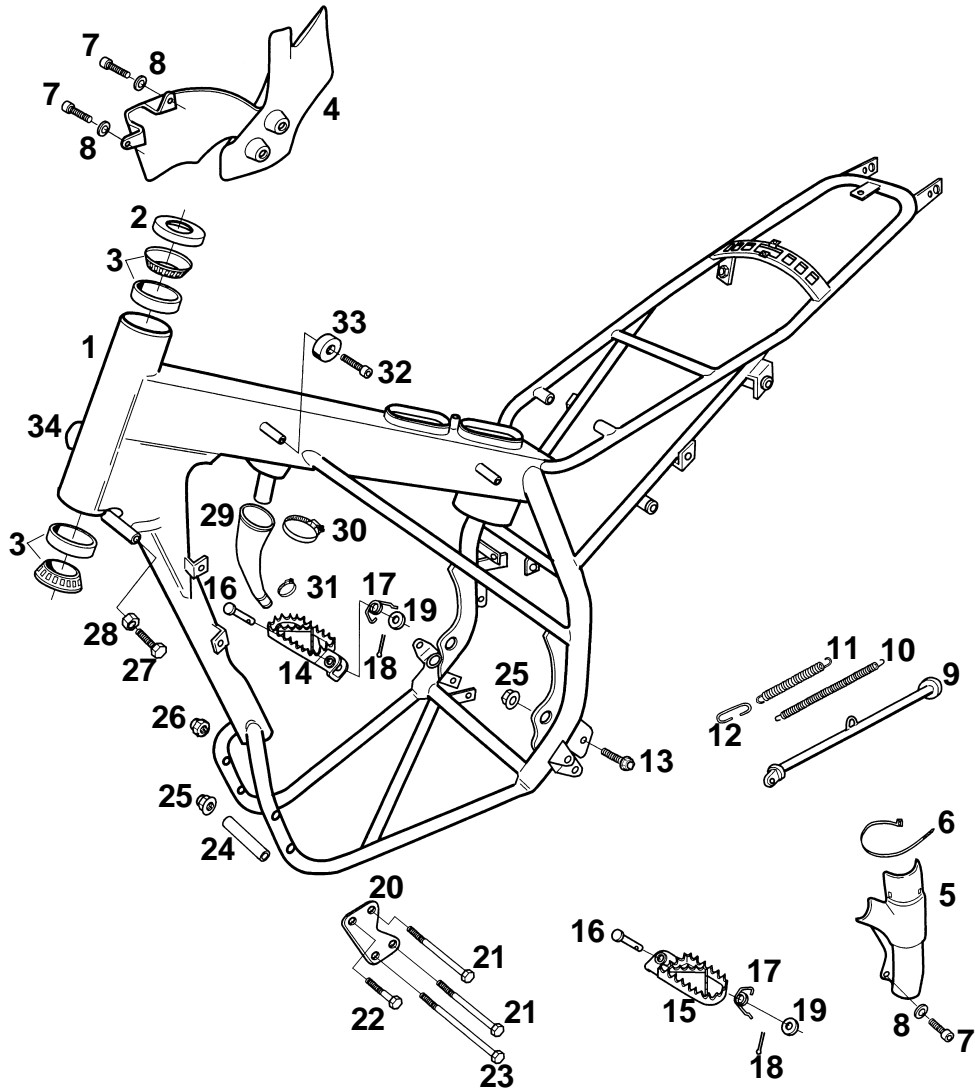
### MAINTENANCE SCHEDULE

Please observe:  
Riding under hard conditions demands more frequent maintenance

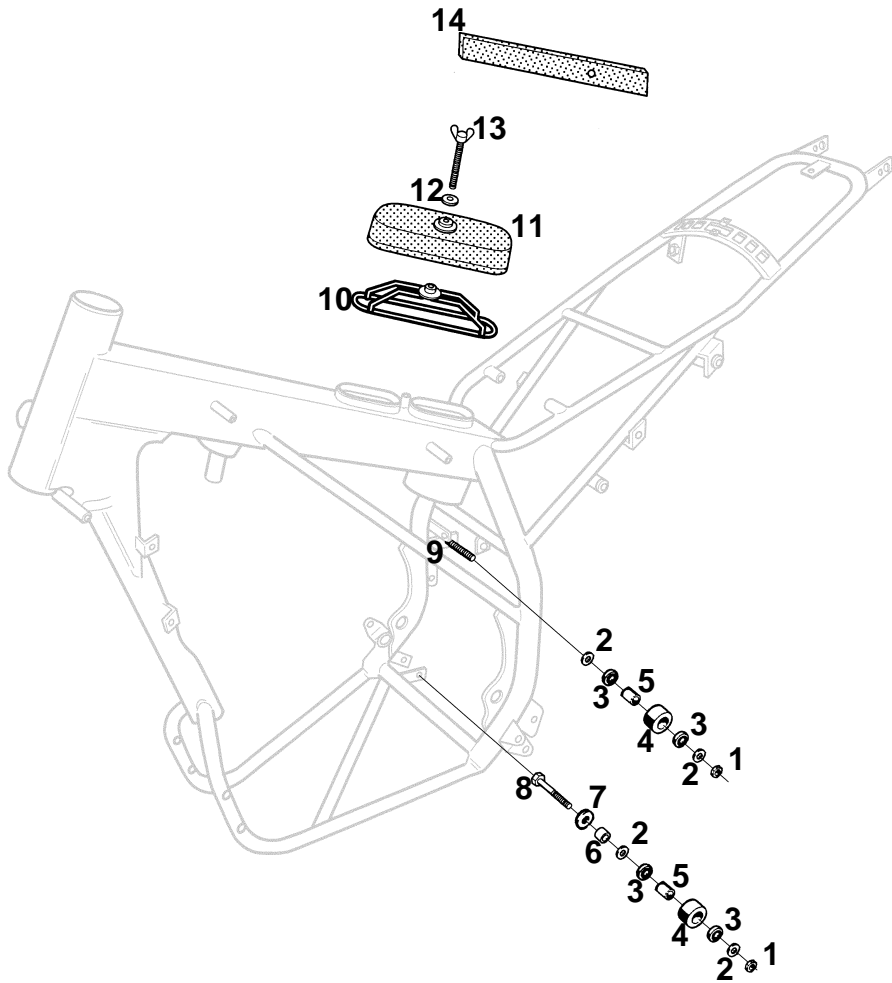
SUBJECT / HOURS	5	10	15	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
Chassis																							
Engine																							
Ignition																							
Oil																							
Valve																							
Spark plug																							
Fuel system																							
Clutch																							
Brake																							

### CARBURETTOR STD. JETTING

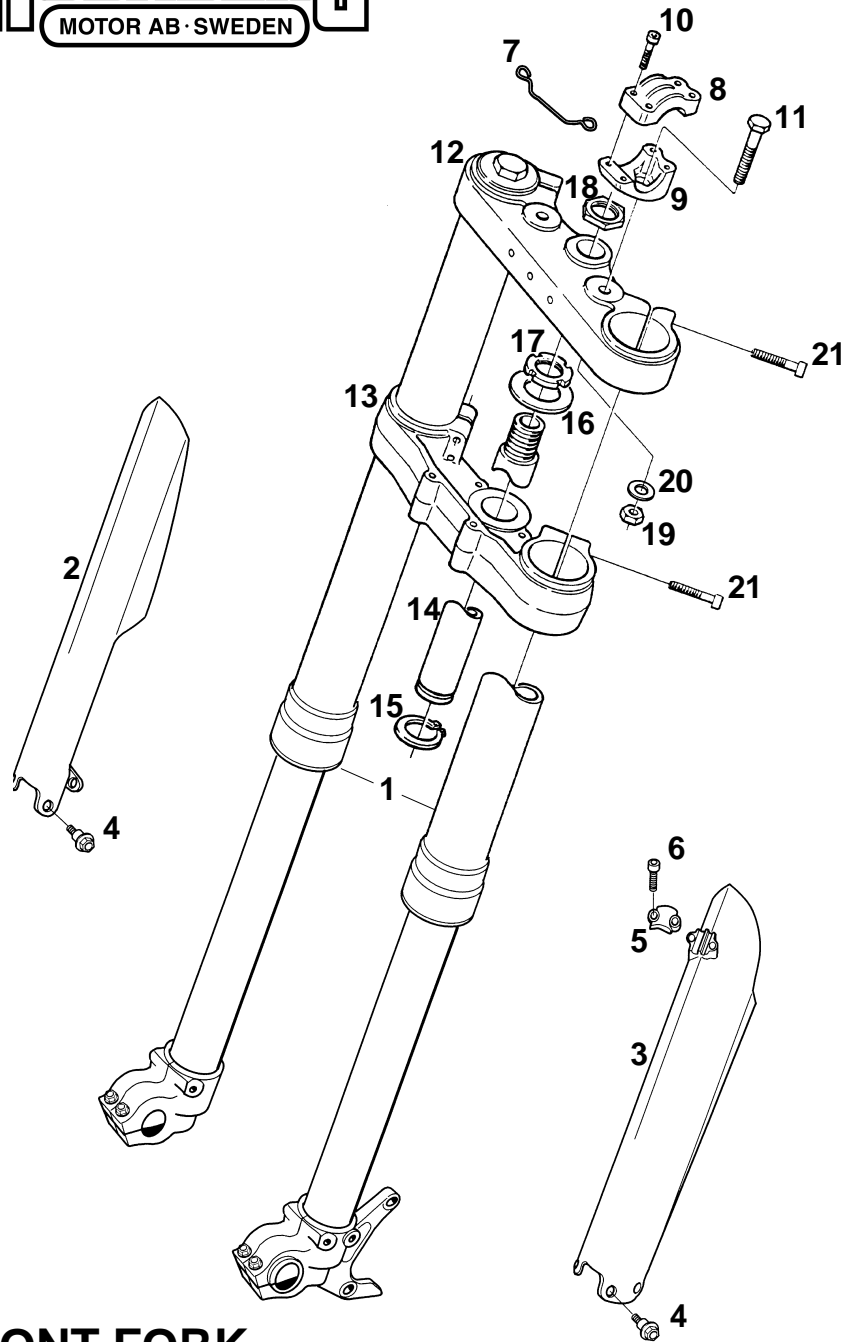
MODEL/SUBJECT	Main jet	Needle	Needle dip.	Pilot jet	Throttle valve	Floar jet	Mixture screw		
Enduro	FE 400	R 100	DK 270	K 35	43	35	40	300	45
USA	FE 400	R 100	DK 270	K 35	43	35	40	300	45
Street	FS 400	R 100	DK 270	K 35	43	35	40	300	45
Super Motard	FS 400	R 100	DK 270	K 35	43	35	40	300	45
Super Enduro	FE 400	R 100	DK 270	K 35	43	35	40	300	45
Super Motard	FS 400	R 100	DK 270	K 35	43	35	40	300	45
Super Enduro	FE 400	R 100	DK 270	K 35	43	35	40	300	45
Super Motard	FS 400	R 100	DK 270	K 35	43	35	40	300	45
Super Enduro	FE 400	R 100	DK 270	K 35	43	35	40	300	45
Super Motard	FS 400	R 100	DK 270	K 35	43	35	40	300	45
Super Enduro	FE 400	R 100	DK 270	K 35	43	35	40	300	45
Super Motard	FS 400	R 100	DK 270	K 35					



Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	110 229-01	1	1					Frame blue FEe/FSe 01'
1	110 229-02			1	1	1		Frame blue FSc/FC/FCe 01'
1	110 229-03						1	Frame blue FXe 01'
2	130 150-01	1	1	1	1	1	1	Steering head cover
3	130 019-01	2	2	2	2	2	2	Taper roller bearing 89-
4	160 171-01	1	1	1	1	1	1	Frame protector RH 00-
5	160 172-01	1	1	1	1	1	1	Frame protector LH 00-
6	190 017-01	2	2	2	2	2	2	Straps frame protector 01-
7	305 510-22	3	3	3	3	3	3	Screw 5x12
8	325 010-01	3	3	3	3	3	3	Washer 5,3x10x1
9	120 091-04	1					1	Sidestand compl.blue FEe/FXe 99-
9	120 091-05		1					Sidestand compl. blue FSe 01-
10	120 138-01	1	1				1	Spring inner side stand 00-
11	120 044-01	1	1				1	Spring sidestand 89-
12	120 097-01	1	1				1	Holder spring sidestand 95/2-
13	408 230-22	1	1				1	Screw (Collar) 8x30 98-
14	170 069-01	1	1	1	1	1	1	Footrest right 00-
15	170 070-01	1	1	1	1	1	1	Footrest left 00-
16	170 071-01	2	2	2	2	2	2	Bolt footrest 00-
17	170 072-01	2	2	2	2	2	2	Spring footrest RH,LH 00-
18	170 025-01	2	2	2	2	2	2	Pin, bolt footrest 00-
19	320 018-01	2	2	2	2	2	2	Washer bolt footrest 00-
20	190 051-01	2	2	2	2	2	2	Engine support plate 94-
21	308 611-22	2	2	2	2	2	2	Screw M6S 8x110
22	308 655-22	1	1	1	1	1	1	Screw M6S 8x55
23	190 067-01	1	1	1	1	1	1	Screw M6S 8x180
24	110 128-01	1	1	1	1	1	1	Spacer engine support plate 01-
25	318 810-22	2	2	2	2	2	2	Locknut M8 89-
26	318 801-22	3	3	3	3	3	3	Locknut low M8 89-
27	308 625-22	2	2	2	2	2	2	Screw 8x25
28	318 800-22	2	2	2	2	2	2	Nut steering stop M8
29	150 152-01	1	1	1	1	1	1	Oil trap 00-
30	150 003-01	1	1	1	1	1	1	Clamp 00-
31	150 028-01	1	1	1	1	1	1	Clamp 00-
32	306 512-22	4	4	4	4	4	4	Screw 5x12
33	160 176-01	4	4	4	4	4	4	Rear attachment fuel tank 00-
34	110 172-01	1	1					Steering head lock 98-



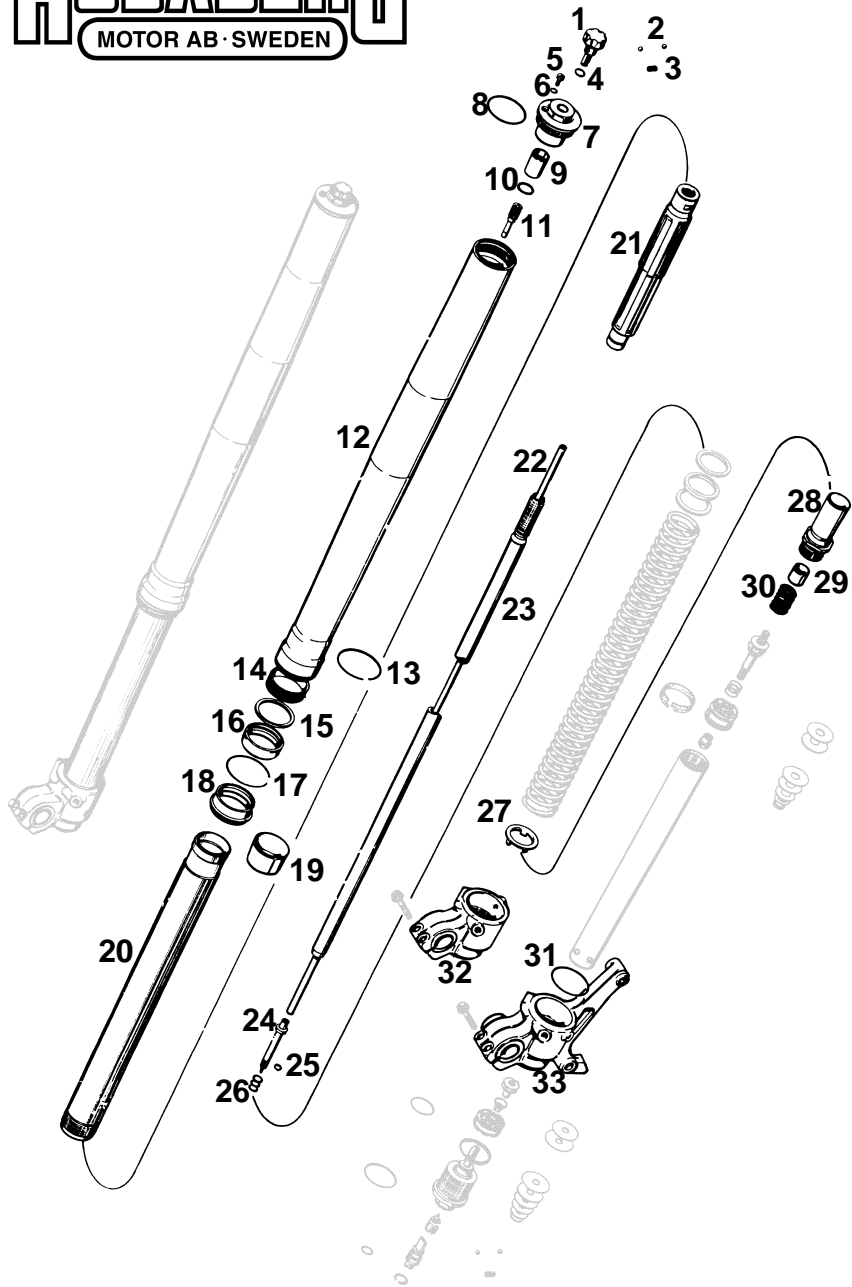
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	318 801-22	2	2	2	2	2	2	Locknut low M8
2	328 017-01	4	4	4	4	4	4	Washer 8.4x16x1,5
3	360 011-01	4	4	4	4	4	4	Ballbearing chainroller 89-
4	120 056-01	2	2	2	2	2	2	Chainroller 89-
5	120 057-01	2	2	2	2	2	2	Spacer chainroller 89-
6	170 009-01	1	1	1	1	1	1	Spacer 00-
7	328 022-01	1	1	1	1	1	1	Washer 8x22x1,5
8	308 655-22	1	1	1	1	1	1	Screw M6S 6x55
9	308 650-22	1	1	1	1	1	1	Screw M6S 6x50
10	150 167-01	1	1	1	1	1	1	Air filter basket 00-
11	150 166-01	1	1	1	1	1	1	Air filter 00-
12	326 022-01	1	1	1	1	1	1	Washer air filter 6x22x1,5
13	150 196-01	1	1	1	1	1	1	Screw air filter 00-
14	150 187-01	2	2	2	2	2	2	Airfilter protection 00-



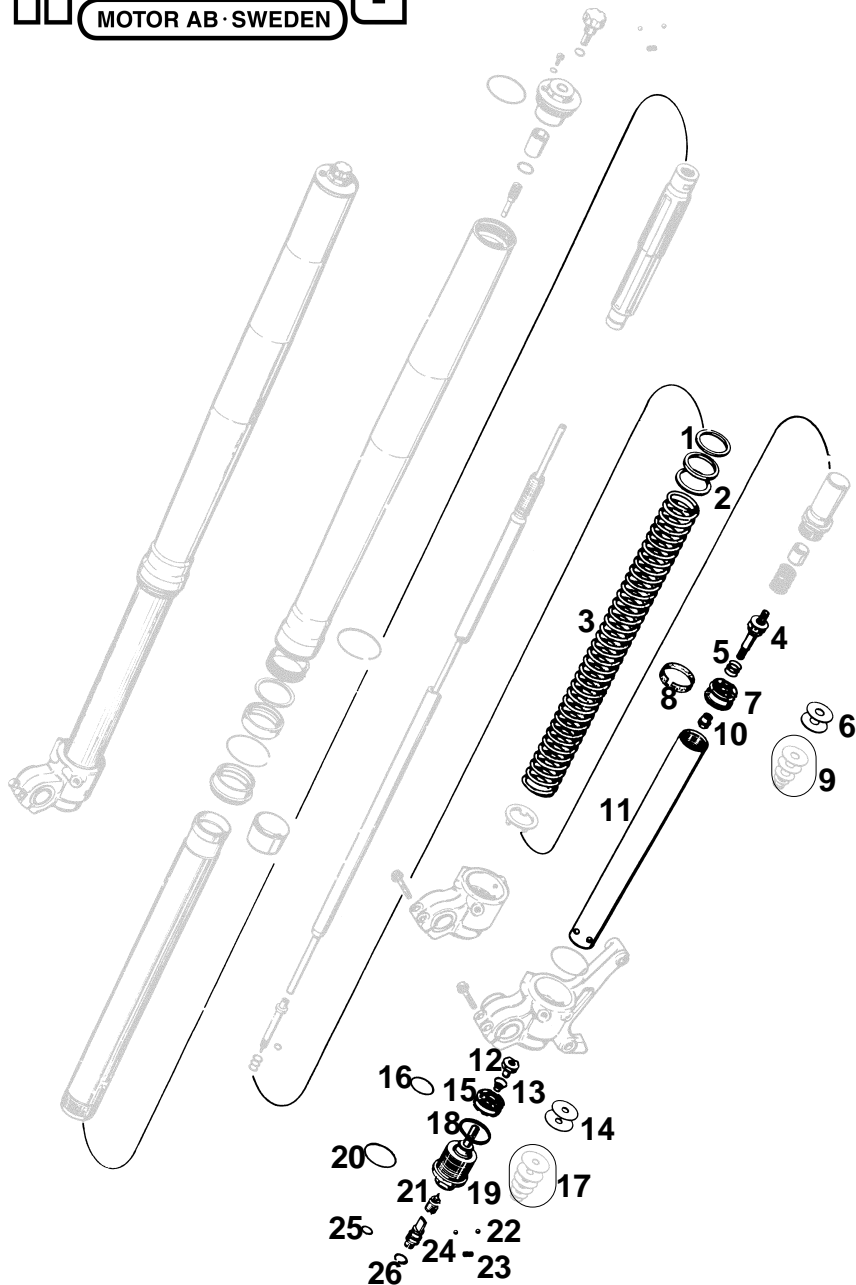
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	130 183-01	1						Front fork WP (right + left leg) FE 01-
1	130 190-01		1	1				Front fork WP (right + left leg) FSe/FSc 01-
1	130 184-01				1	1	1	Front fork WP (right + left leg) FC/FCe/FXe 01-
2	130 169-01	1	1	1	1	1	1	Front fork protector blue right 00-
3	130 170-01	1	1	1	1	1	1	Front fork protector blue left 00-
4	160 184-01	6	6	6	6	6	6	Screw front fork protector 00-
5	130 171-01	1	1	1	1	1	1	Holder brake hose 00-
6	160 185-01	2	2	2	2	2	2	Screw holder brake hose 00-
7	170 066-01	1	1	1	1	1	1	Wire holder 00-
8	130 123-01	2	2	2	2	2	2	Clamp, upper, handlebar 98-
9	130 122-01	2	2	2	2	2	2	Clamp, lower, handlebar 98-
10	306 535-22	8	8	8	8	8	8	Screw 6x35 98-
11	300 645-22	2	2	2	2	2	2	Screw M6S 10x45 00-
12	130 152-01	1	1	1	1	1	1	Triple clamp, upper, 01-
13	130 192-01	1	1					Tripleclamp lower compl. FE/FSe 01- (Incl. Pos. No. 14, 15)
13	130 193-01			1	1	1	1	Tripleclamp lower compl. FSc/FC/FCe/FXe 01- (Incl. Pos. No. 14, 15)
14	130 124-01	1	1					Fork stem FE/FSe 98-
14	130 089-02			1	1	1	1	Fork stem FSc/FC/FCe/FXe 97-
15	330 025-01	1	1	1	1			Circlip SGA 25 89-
16	130 016-01	1	1	1	1	1	1	Spacer ring 97-
17	130 149-01	1	1	1	1	1	1	Nut steeringhead bearing 00-
18	130 018-01	1	1	1	1	1	1	Nut steeringhead top 89-
19	310 801-22	2	2	2	2	2	2	Locknut M10 low 89-
20	320 018-01	2	2	2	2	2	2	Washer 10,5x22x2
21	308 530-22	8	8	8	8	8	8	Screw 8x30 00-

## FRONT FORK

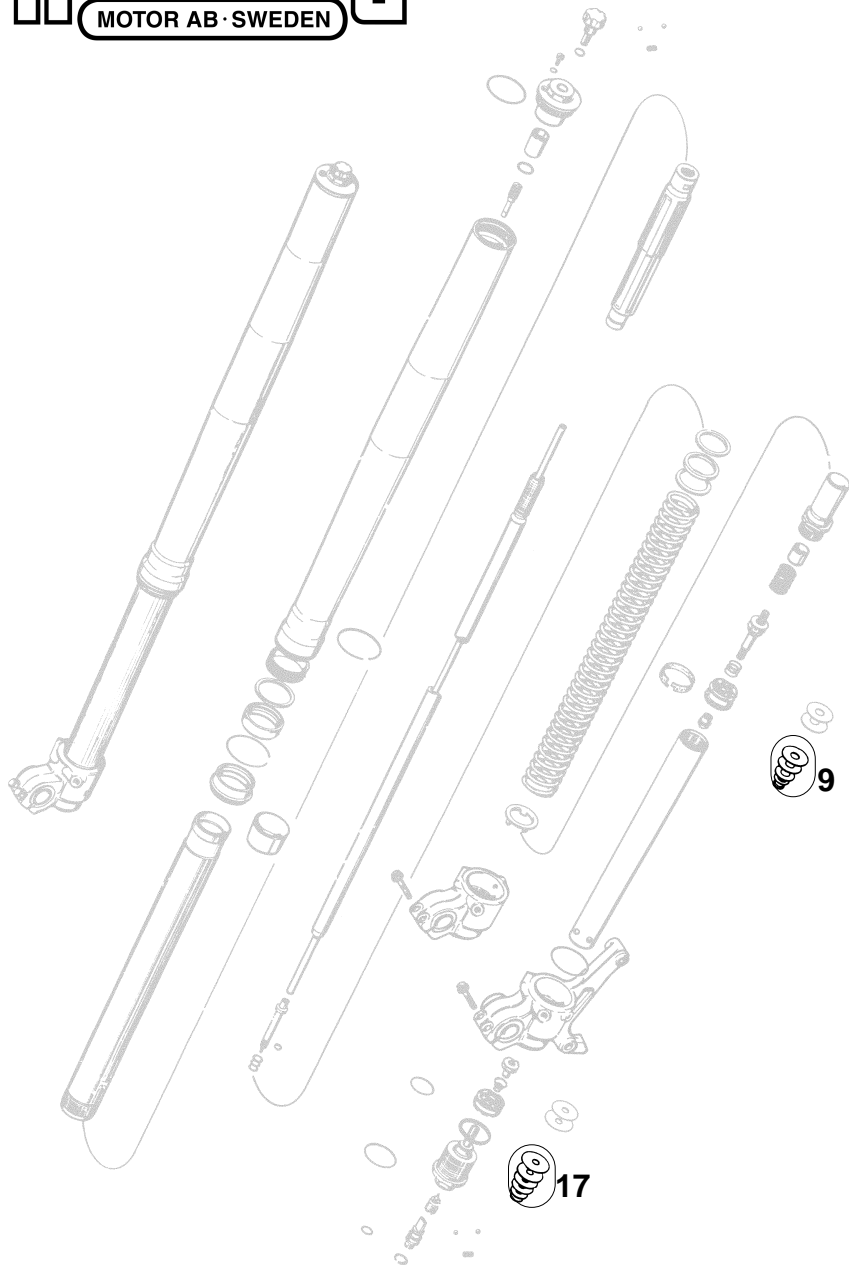




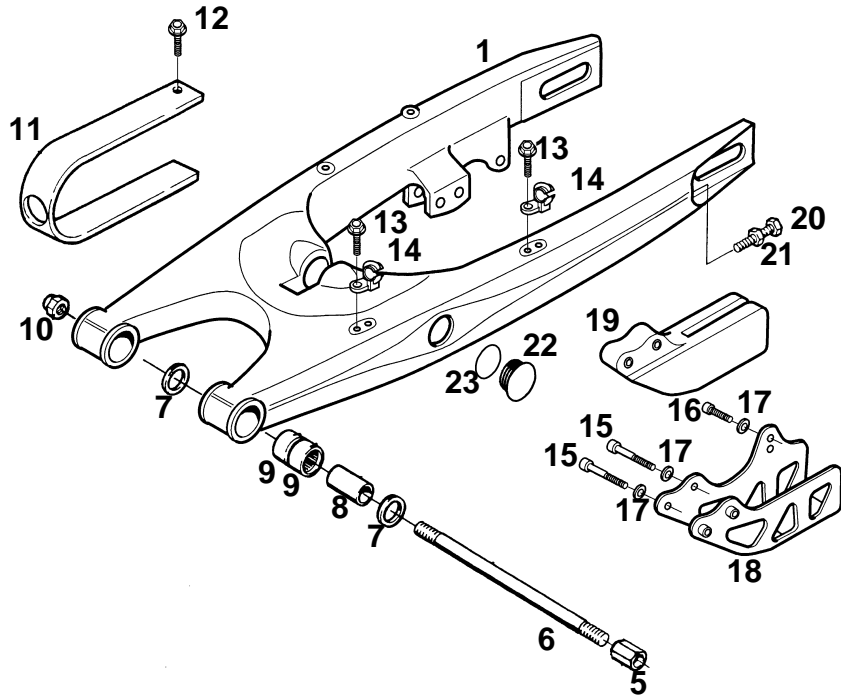
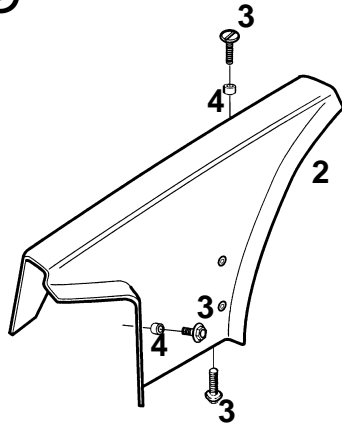
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	4860.0018	2	2	2	2	2	2	Adjustment knob
2	4054.0603	2	2	2	2	2	2	Ball steel ø 3
3	4860.0028	2	2	2	2	2	2	Spring
4	4860.0044	2	2	2	2	2	2	O-ring
5	4860.076	2	2	2	2	2	2	Screw
6	4860.0046	2	2	2	2	2	2	O-ring
7	4860.0020S1	2	2	2	2	2	2	Screw cap M51x1,5 complete
8	4681.0340	2	2	2	2	2	2	O-ring
9								N/A
10	4860.0043	2	2	2	2	2	2	O-ring
11	4860.0019	2	2	2	2	2	2	Needle
12	4860.0147	2	2	2	2	2	2	Outer tube L: 577
13	4860.0016	2	2	2	2	2	2	Guiding ring ø 50
14	4860.0007	2	2	2	2	2	2	Du-bushing ø 48
15	4860.0013	2	2	2	2	2	2	Support ring ø 50
16	4860.0057	2	2	2	2	2	2	Oil seal ø 48x57,7x9,5
17	4860.0070	2	2	2	2	2	2	Lockwasher SB50
18	4860.0040	2	2	2	2	2	2	Dust wiper ø 48
19	4860.0008	2	2	2	2	2	2	Du-bushing ø 47
20	4860.0002	2	2	2	2	2	2	Inner tube ø 48 L: 590
21	4860.0011S	2	2	2	2	2	2	Hydraulic stop ø 32,4 L: 200 complete
22	4860.0014	2			2	2	2	Adjustment tube L: 512
22	4860.0158		2	2				Adjustment tube L: 477
23	4860.0023	2			2	2	2	Piston rod ø 14 M11x1 L: 546
23	4860.0157		2	2				Piston rod ø 14 M11x1 L: 511
24	4860.0003	2			2	2	2	Rebound needle
24	4860.0150		2	2				Rebound needle
25	4860.0046	2	2	2	2	2	2	O-ring 3x1,5
26	4860.0033	2	2	2	2	2	2	Spring rebound needle C=4N/mm
27	4860.0021	2	2	2	2	2	2	Tussenring ø 26,2x43x3
28	4357.0132S	2	2	2	2	2	2	Screw sleeve M29,3x1 L: 65
29								N/A
30	4860.0015	2	2	2	2	2	2	Rebound spring ø 14,6 L: 22
31	4860.0048	2	2	2	2	2	2	O-ring ø 46
32	4860.0005	1	1	1	1	1	1	Axle clamp R
33	4860.0006	1	1	1	1	1	1	Axle clamp L



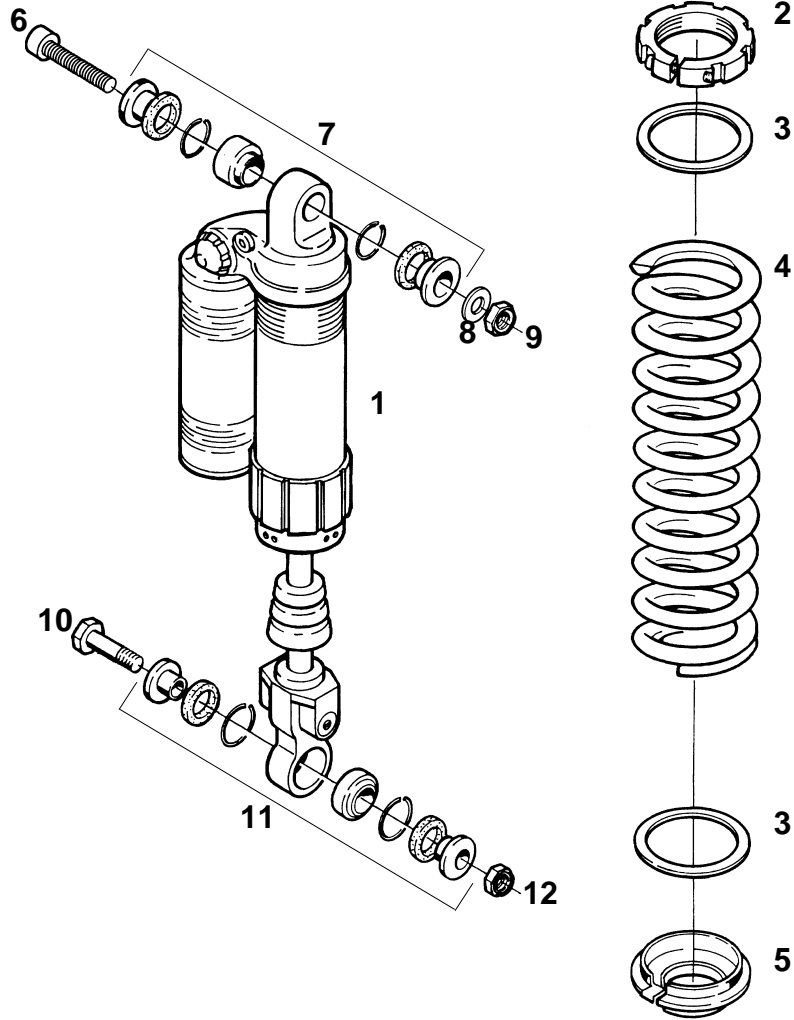
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	4860.0036	2	2	2	2	2	2	Spacer 42x26,5x2,5
1	4860.0037	2	2	2	2	2	2	Spacer 42x26,5x5
1	4860.0053		2	2				Spacer 42x26,x1,5
2	4860.0113		2	2				Washer ø 32x42x2,5
3	9141.0002	2						Spring 432.510.00.040W ø 5,00
3	9141.0010		2	2				Spring 432.485.00.052W ø 5,25
3	9141.0003				2	2	2	Spring 432.510.00.042W ø 5,00
4	4860.0025	2			2	2	2	Tap rebound
4	4860.0151		2	2				Tap rebound
5	4860.0059	2			2	2	2	Spring check valve C0,25
5	3548.0377		2	2				Spring check valve C1,5
6	4860.0062							Check valve ø 8x24x0,1
6	4054.1414							Backpl. 6x8x0,10
7	4860.0042				2	2	2	Piston rebound
8	4860.0060				2	2	2	Piston spring 5x1x84,3
9								Shims rebound (See next page)
10	4054.0486							Nut M6x0,5 rebound
11	4860.0140	2	2	2				Tube ø 28 M29,3x1 L: 385
11	4860.0081				2	2	2	Tube ø 28 M29,3x1 L: 390
12	4054.1241	2	2	2	2	2	2	Check valve nut M6x0,5
13	4054.1278	2	2	2	2	2	2	Spring check valve ø 8
14	4860.0061	2	2	2	2	2	2	Check valve ø 8x24x0,4
15	4860.0047	2	2	2	2	2	2	Piston compression
16	4681.1499	2	2	2	2	2	2	O-ring 21x2
17								Shims compression (See next page)
18	4860.0004	2	2	2	2	2	2	Copper ring
19	4860.0027S	2			2	2	2	Tap compression complete
19	4860.0152S		2	2				Tap compression complete
20	3548.0320	2	2	2	2	2	2	O-ring 24x2
21	4860.0153	2	2	2	2	2	2	Needle compression
22	4054.0603	2	2	2	2	2	2	Ball steel ø 3
23	4860.0028	2	2	2	2	2	2	Spring ø 2,9 L: 79
24	4860.0034	2	2	2	2	2	2	Adjustment screw complete
25	4860.0049	2	2	2	2	2	2	O-ring 8x2
26	4860.0051	2	2	2	2	2	2	Clip



Pos.	Part No	Qty/Model						Description
		FEE	FSe	FSc	FC	FCe	FXe	
9	4054.0414	2	2	2	2	2	2	Shim 6x16x0,25
9	4054.0447	2			2	2	2	Backpl. 6x10x0,30
9	4054.1391		2	2				Shim 6x11x0,30
9	4054.0405	2	2	2				Shim 6x14x0,15
9	4054.0401				2	2	2	Shim 6x14x0,10
9	4054.0402	2			2	2	2	Shim 6x16x0,10
9	4054.0406		2	2				Shim 6x16x0,15
9	4054.0403	2			2	2	2	Shim 6x18x0,10
9	4054.0407		2	2				Shim 6x18x0,15
9	4860.0065	2			2	2	2	Shim 6x20x0,10
9	4054.0069		2	2				Shim 6x20x0,15
9	4860.0139	2						Shim 6x22x0,10
9	4054.0400				2	2	2	Shim 6x12x0,10
9	4860.0401	2						Shim 6x20x0,10
9	4860.0116	4	8	8	8	8	8	Shim triangular 6x24x0,10 L: 9
17	4054.0411	2						Shim 6x18x0,20
17	4054.0415		2	2	2	2	2	Shim 6x18x0,25
17	4054.0447	2						Backpl. 6x10x0,30
17	4054.1417		2	2	2	2	2	Shim 6x11x0,25
17	4054.0401	2			2	2	2	Shim 6x14x0,10
17	4054.0405		2	2				Shim 6x14x0,15
17	4054.0402	2			2	2	2	Shim 6x16x0,10
17	4054.0406		2	2				Shim 6x16x0,15
17	4054.0403	2	2	2	2	2	2	Shim 6x18x0,10
17	4860.0065	2	2	2	2	2	2	Shim 6x20x0,10
17	4860.0064	2	4	4	4	4	4	Shim 6x22x0,10
17	4860.0404	2						Shim 6x12x0,15
17	4860.0064	2						Shim 6x22x0,10
17	4860.0063	2	12	12	12	12	12	Shim 6x24x0,10

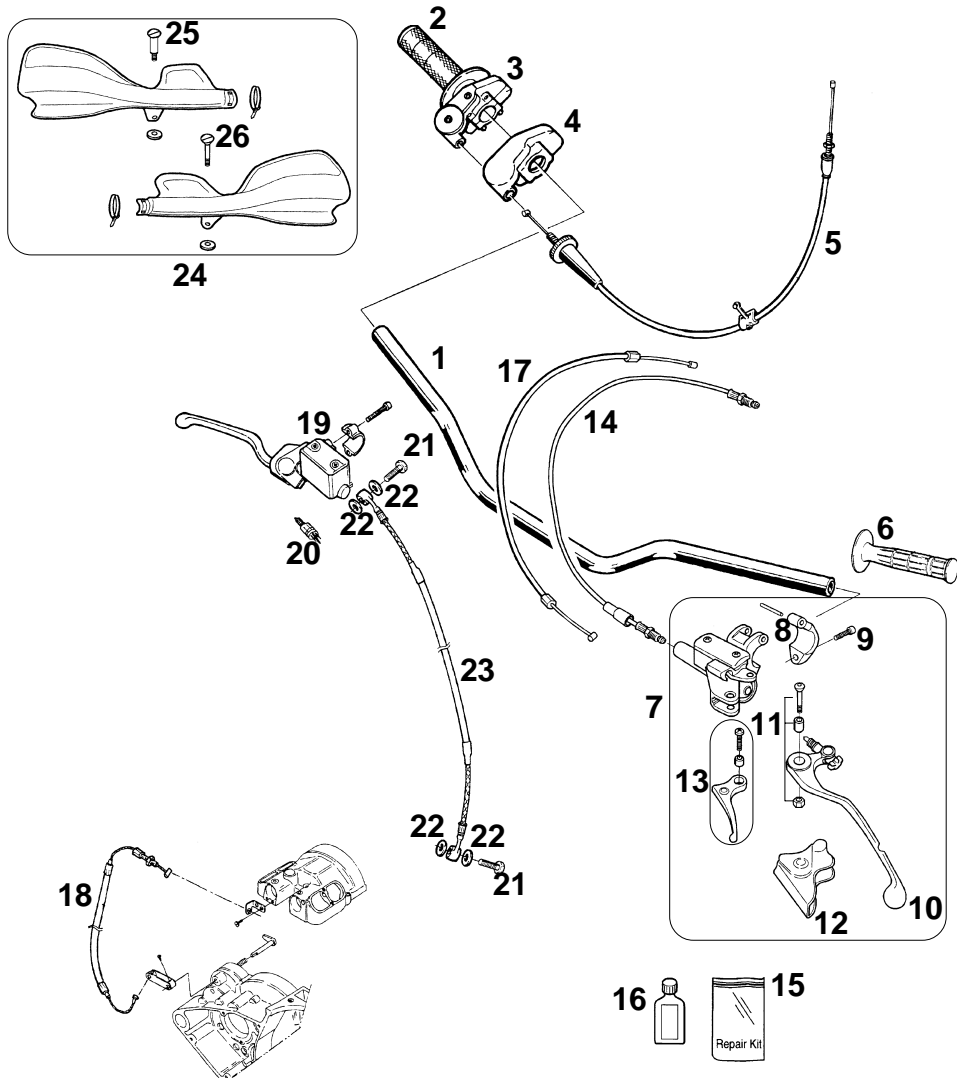


Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	120 157-01	1	1	1	1	1	1	Swingarm compl. PDS 01-
2	120 155-01	1	1					Chain protection 01-
3	406 110-22	3	3					Screw (Collar) 6x10
4	140 051-01	2	2					Spacer
5	120 055-01	1	1	1	1	1	1	Nut swingshaft 89-
6	120 016-01	1	1	1	1	1	1	Swingarm shaft 89-
7	120 022-01	4	4	4	4	4	4	Sealing swingarm 00-
8	120 013-01	2	2	2	2	2	2	Spacer swingarm bearing 89-
9	120 021-01	4	4	4	4	4	4	Needlebearing swingarm 89-
10	120 045-01	1	1	1	1	1	1	Locknut M16x1.5
11	120 052-03	1	1	1	1	1	1	Swingarm protection 01-
12	406 110-22	2	2	2	2	2	2	Screw (Collar) 6x10
13	405 216-22	2	2	2	2	2	2	Screw (Collar) clamp brake hose 5x16
14	120 132-01	2	2	2	2	2	2	Retain. clamp for brake hose 00-
15	306 550-22	2	2	2	2	2	2	Screw chain guide 6x50
16	306 516-22	1	1	1	1	1	1	Screw chain guide 5x16
17	326 012-01	3	3	3	3	3	3	Washer 6,4x14x1,5
18	120 127-01	1	1	1	1	1	1	Chain guide holder 00-
19	120 128-01	1	1	1	1	1	1	Chain guide 00-
20	120 011-01	2	2	2	2	2	2	Adjustment screw drivechain
21	318 800-22	2	2	2	2	2	2	Nut M8
22	120 153-01	4	4	4	4	4	4	Plug swingarm 01-
23	340 119-01	4	4	4	4	4	4	O-ring swingarm plug 01-

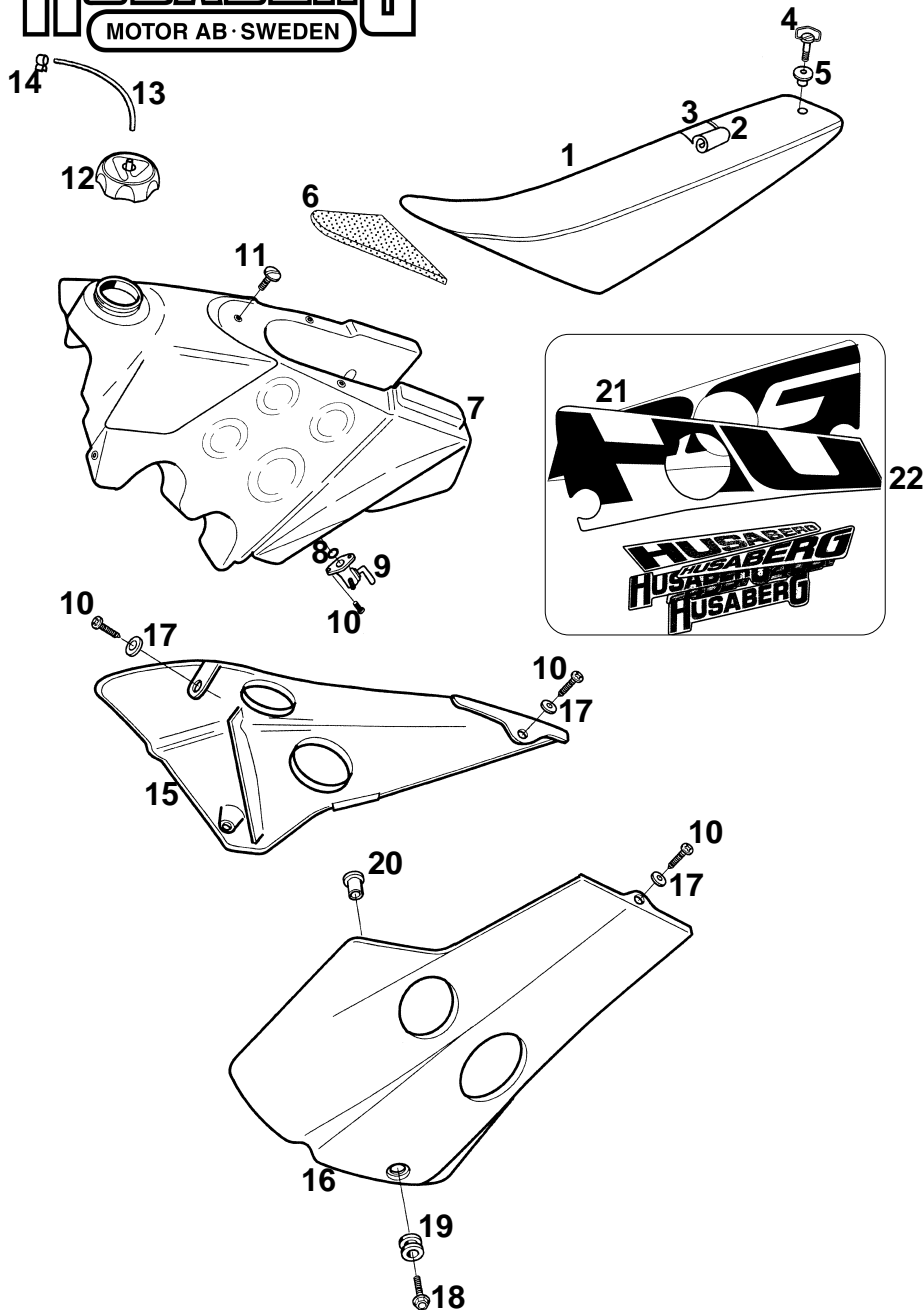


Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	120 143-01	1						Shockabsorber (WP) PDS FEe 01'
1	120 144-01				1	1	1	Shockabsorber (WP) PDS FC/FCe/FXe 01'
1	120 152-01		1	1				Shockabsorber (WP) PDS FSe/FSc 01'
2	5018.0186	1	1	1	1	1	1	Spring retainer PDS 99-
3	5018.0114	2	2	2	2	2	2	Washer spring PDS 99-
4	9121.0010	1						Spring PDS2-250 75-96N/MM 01'
4	9121.0016				1	1	1	Spring PDS7-265 76-95N/MM 01'
4	9121.0005		1	1				Spring Super Motard 01'
5	5018.0181	1	1	1	1	1	1	Spring holder PDS 99-
6	120 140-01	1	1	1	1	1	1	Screw upper MC6S 12.9 12x50
7	120 120-02	1	1	1	1	1	1	Balljoint kit PDS upper 00-
8	322 022-01	1	1	1	1	1	1	Washer upper 12x22x2
9	312 801-22	1	1	1	1	1	1	Nut upper M12
10	120 119-01	1	1	1	1	1	1	Screw lower MC6S 12.9 10x48
11	120 121-01	1	1	1	1	1	1	Balljoint kit PDS (WP) lower 99-
12	310 801-22	1	1	1	1	1	1	Locknut M10 low

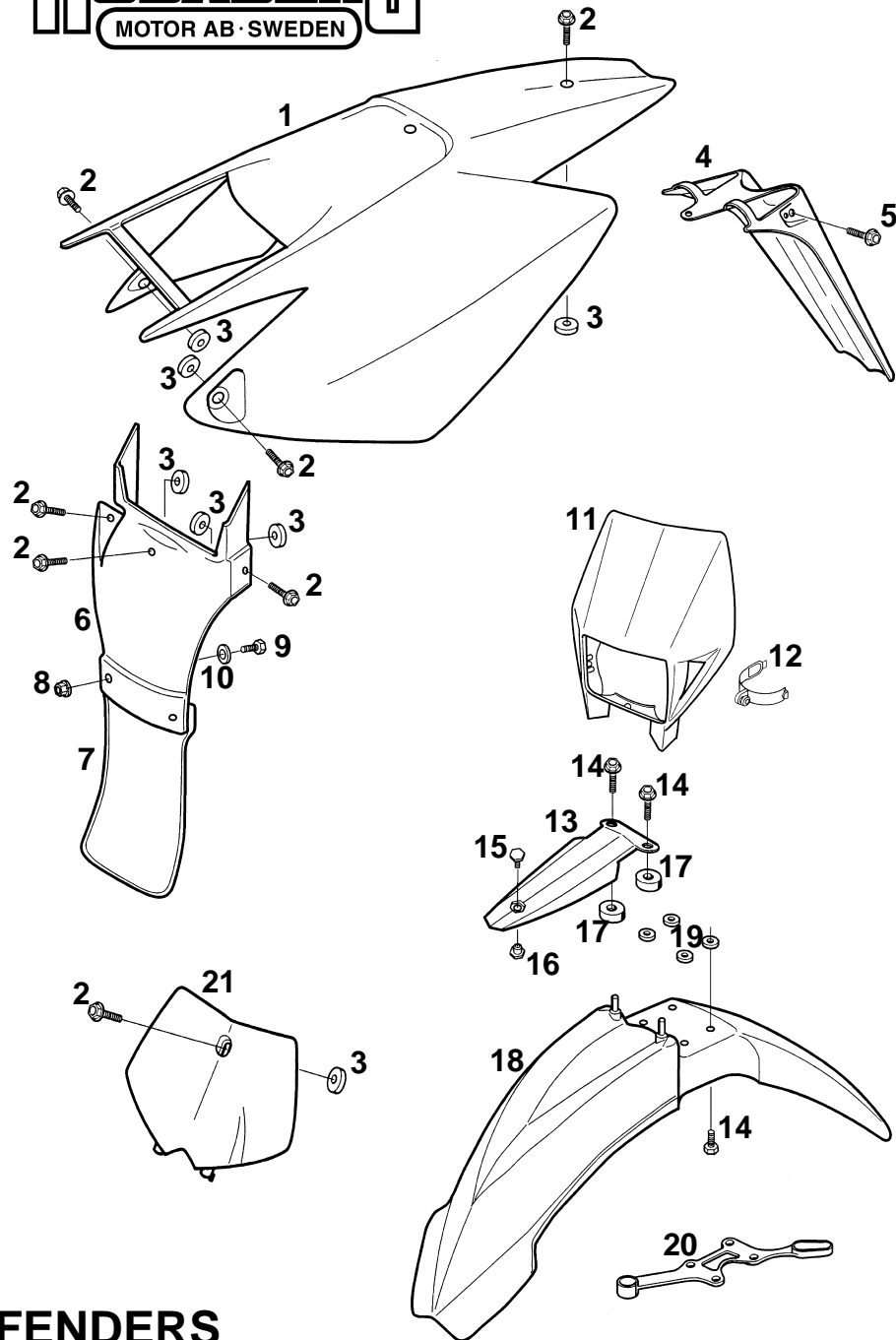




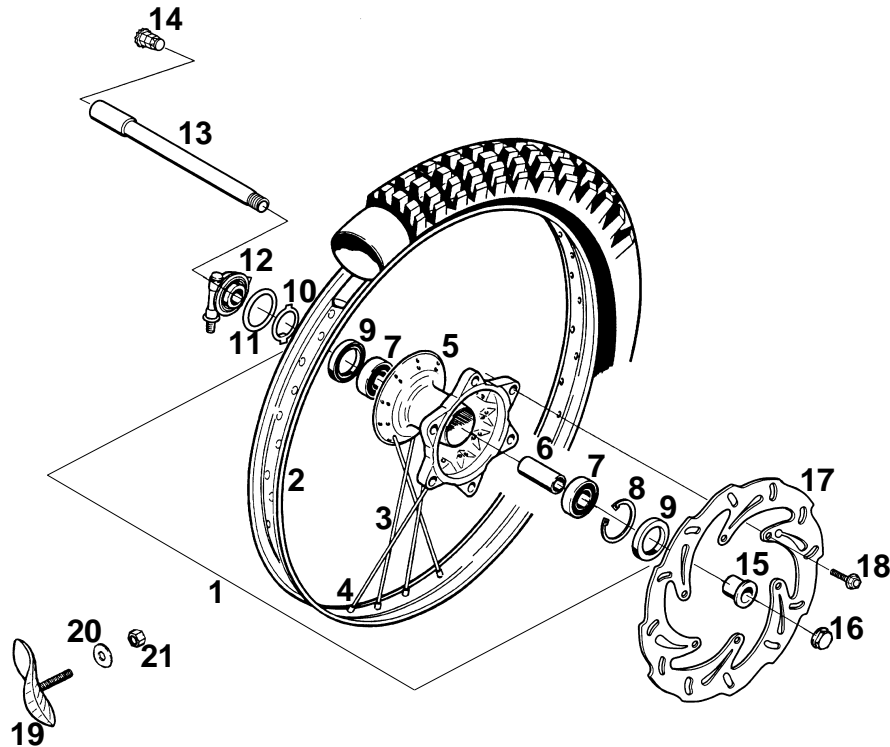
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	170 050-01	1	1	1	1	1	1	Handlebar (Magura) "titanium" anodized 98-
2	170 015-02	1	1	1	1	1	1	Rubber handle right 89-
3	170 059-01	1	1	1	1	1	1	Twistgrip 99-
4	170 053-01	1	1	1	1	1	1	Rubber protection twist grip 99-
5	170 060-01	1	1	1	1	1	1	Throttle wire 99-
6	170 016-02	1	1	1	1	1	1	Rubber handle left 89-
7	170 067-01	1	1	1	1	1	1	Mastercylinder compl 00- (Incl. Pos. No. 8, 9, 10, 11, 12, 13)
8	170 085-01	1	1	1	1	1	1	Clamp with pin 00-
9	406 216-22	1	1	1	1	1	1	Screw 6x16
10	170 082-01	1	1	1	1	1	1	Clutch lever 00-
11	170 088-01	1	1	1	1	1	1	Screw, bushing & nut clutch lever 00-
12	170 084-01	1	1	1	1	1	1	Protection clutch lever 00-
13	170 083-01	1	1	1	1	1	1	Decompression lever incl. bushing & screw 00-
14	230 135-01	1	1	1	1	1	1	Hydraulic clutch hose incl. connections 00-
15	170 086-01	1	1	1	1	1	1	Repair kit piston hydraulic clutch 00-
16	170 089-01	1	1	1	1	1	1	Oil hydraulic clutch 50ml 00-
17	170 078-01	1	1	1	1	1	1	Decompression wire; manually operated 00-
18	230 043-01	1	1	1	1	1	1	Decompression wire; kickstart operated 89-
19	140 144-01			1	1	1	1	Frontbrake cylinder cpl. FSc/FC/FCe/FXe 00-
19	140 144-02	1	1					Frontbrake cylinder cpl. FEe/FSe 00-
20	140 166-01	1	1					Frontbrake light switch FEe/FSe 00-
21	140 015-01	2	2	2	2	2	2	Connecting screw brake hose front 89-
22	140 016-01	4	4	4	4	4	4	Copper washer 10x14x1 89-
23	140 145-01	1	1	1	1	1	1	Hose frontbrake 00-
24	170 087-01	1	1	1	1	1	1	Handguard kit 00- (Incl. screws, nuts, washers & straps)
25	170 080-01	1	1	1	1	1	1	Screw M6 special handguard version 00-
26	170 079-01	1	1	1	1	1	1	Screw M5 special handguard version 00-



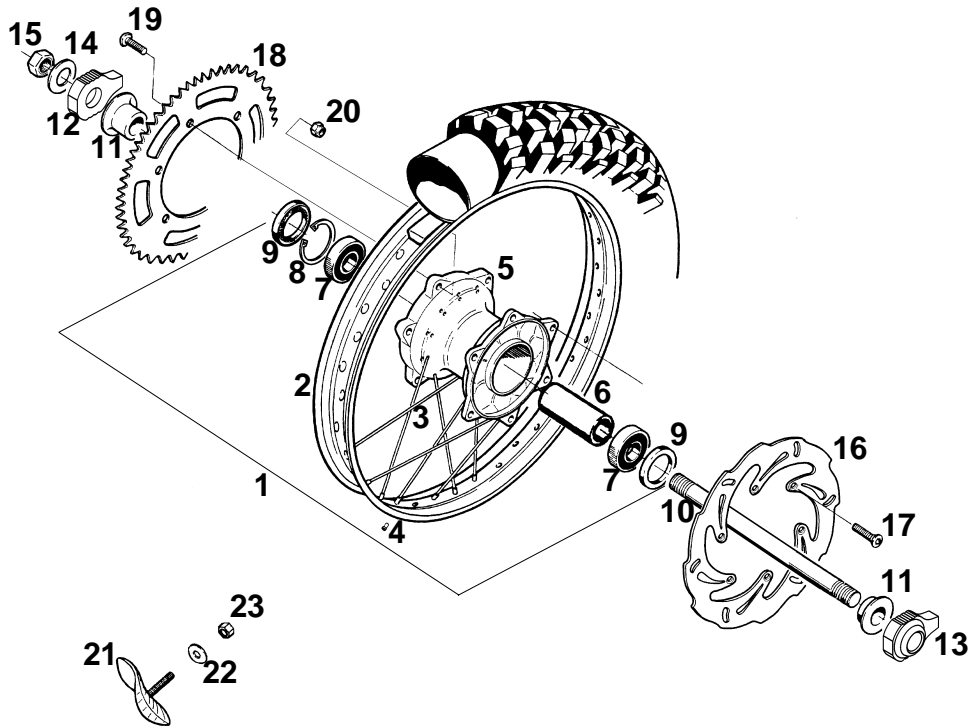
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	160 158-01	1	1	1	1	1	1	Seat 00-
2	160 161-01	1	1	1	1	1	1	Seat cover 00-
3	160 160-01	1	1	1	1	1	1	Foam cushion 00-
4	160 186-01	1	1	1	1	1	1	Screw seat rear 00-
5	160 183-01	1	1	1	1	1	1	Bushing seat 00-
6	150 188-01	1	1	1	1	1	1	Airfilter protection 00-
7	160 166-02	1	1	1	1	1	1	Fuel tank yellow 01-
8	340 010-01	2	2	2	2	2	2	O-ring 10.3x2.4
9	160 004-01	2	2	2	2	2	2	Fuel tap 89-
10	160 010-01	8	8	8	8	8	8	Screw RXS 4.8x19
11	160 180-01	1	1	1	1	1	1	Screw, seat attachment front 00-
12	160 175-01	1	1	1	1	1	1	Filler cap 00-
13	160 190-01	1	1	1	1	1	1	Ventilation hose fuel tank 01-
14	160 013-01	1	1	1	1	1	1	Nipple fuel tank ventilation hose 01-
15	160 168-02	1	1	1	1	1	1	Spoiler RH 01-
16	160 169-02	1	1	1	1	1	1	Spoiler LH 01-
17	326 016-01	4	4	4	4	4	4	Washer 6x16x1
18	406 120-22	2	2	2	2	2	2	Screw (Collar) 6x20
19	160 177-01	2	2	2	2	2	2	Rubber bushing spoiler 00-
20	160 178-01	2	2	2	2	2	2	Bushing (metal) spoiler 00-
21	190 142-02	1	1	1	1	1	1	Decal kit spoiler 01-
22	190 143-01	1						Decal kit FEe 01-
								(Incl. Pos. No. 21, please state model size)
22	190 143-04	1	1					Decal kit FSe 01-
								(Incl. Pos. No. 21, please state model size)
22	190 143-02				1	1		Decal kit FC/FCe 01-
								(Incl. Pos. No. 21, please state model size)
22	190 143-03						1	Decal kit FXe 01-
								(Incl. Pos. No. 21, please state model size)



Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	160 167-01	1	1	1	1	1	1	Rear fender/sidepanels 00-
2	406 115-22	6	6	7	7	7	7	Screw (Collar) 6x15
3	160 050-01	7	7	9	9	9	9	Rubber washer 6,5x22x3
4	160 170-01	1	1					Number plate holder 00-
5	405 216-22	2	2					Screw (Collar) 5x16
6	160 181-01	1	1	1	1	1	1	Splash shield upper 00-
7	160 125-01	1	1	1	1	1	1	Splash shield lower 96-
8	316 811-22	2	2	2	2	2	2	Locknut M6
9	406 216-22	2	2	2	2	2	2	Screw (Collar) 6x16
10	160 139-01	2	2	2	2	2	2	Washer
11	160 162-01	1	1					Headlight mask blue 00-
12	180 062-01	2	2					Rubber strap headlight mask 00-
13	160 164-01	1	1					Fender brace yellow 00-
14	406 120-22	6	6	4	4	4	4	Screw (Collar) 6x20
15	160 156-01	1	1					Screw fender brace 00-
16	160 157-01	1	1					Nut fender brace 00-
17	160 124-01	2	2					Spacer fender brace 00-
18	160 165-01	1	1	1	1	1	1	Front fender blue 00-
19	160 182-01	4	4	4	4	4	4	Spacer front fender 00-
20	130 172-01	1	1	1	1	1	1	Cable guide 00-
21	160 163-01			1	1	1	1	Number plate 00-

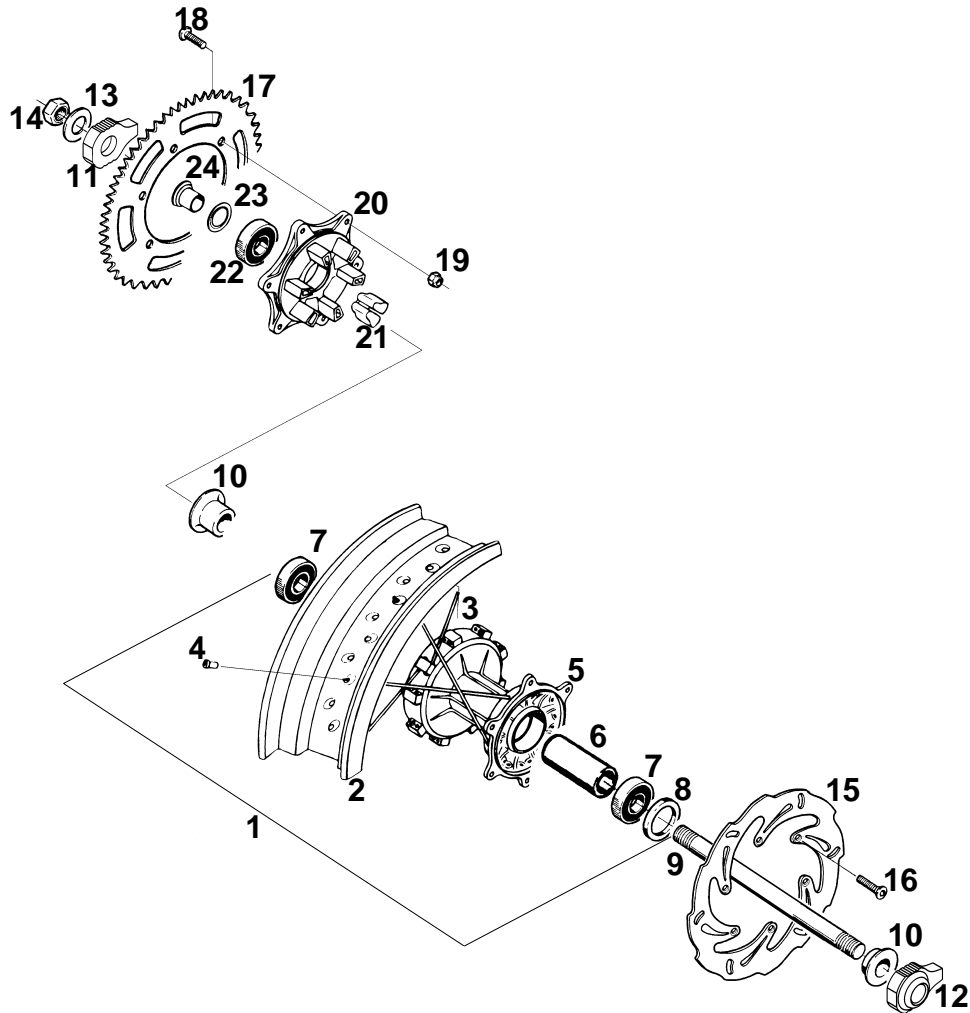


Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	130 000-07	1						Front wheel EXCEL 21" FEe 00- (Incl. Pos. No. 2, 3, 4, 5, 6, 7, 8, 9)
1	130 000-08				1	1	1	Front wheel EXCEL 21" FC/FCe/FXe 00- (Incl. Pos. No. 2, 3, 4, 5, 6, 7, 8, 9)
1	130 173-01		1	1				Front wheel BEHR 17" FSe/FSc 00- (Incl. Pos. No. 2, 3, 4, 5, 6, 7, 8, 9)
2	130 155-01	1			1	1	1	Rim EXCEL 1.60x21" front 00-
2	130 181-01		1	1				Rim BEHR 3.50x17" front 00-
3	130 160-01	36			36	36	36	Spoke (21") front 00-
	130 177-01	1			1	1	1	Spoke kit; 36 pcs (21") front 00-
3	130 182-01		36	36				Spoke (17") front 00-
4	130 161-01	36			36	36	36	Spoke nipple (21"/17") front 00-
	130 178-01	1			1	1	1	Spoke nipple kit (21"/17") front 00-
5	130 158-01	1	1					Front hub (speedometer/odometer) 00-
5	130 158-02			1	1	1	1	Front hub (no speedometer) 00-
6	130 165-01	1	1					Spacer fronthub (speedometer/odometer) 00-
6	130 165-02			1	1	1	1	Spacer fronthub (no speedometer) 00-
7	360 031-01	2	2	2	2	2	2	Ballbearing fronthub 00-
8	330 037-01	1	1	1	1	1	1	Circlip 00-
9	350 011-01	1	1	2	2	2	2	Sealing front hub 00-
9	350 009-01	1	1					Sealing front hub (speedometer/odometer) 00-
10	180 158-01	1	1					Driveplate gearlever 00-
11	180 146-01	1	1					Shim gearlever 00-
12	180 147-01	1						Gearlever speedometer/odometer (21") 00-
12	180 166-01		1					Gearlever speedometer (17") 00-
13	130 164-01	1	1	1	1	1	1	Front axle 00-
14	130 167-01	1	1	1	1	1	1	Plug frontaxle 00-
15	130 166-01	1	1	2	2	2	2	Spacer front axle 00-
16	130 168-01	1	1	1	1	1	1	Nut frontaxle 00-
17	130 159-01	1			1	1	1	Brake disc front ø 260 mm stainless steel 00-
17	140 182-01		1	1				Brake disc front ø 320 mm (BERINGER) 01-
18	406 212-22	6			6	6	6	Screw (Collar) 6x12
18	406 115-22		6	6				Screw (Collar) 6x15
19	130 049-01	1			1	1	1	Rimlock 21" 89-
20	328 017-01	1			1	1	1	Washer 8,4x16x1,5
21	318 800-22	1			1	1	1	Nut M8

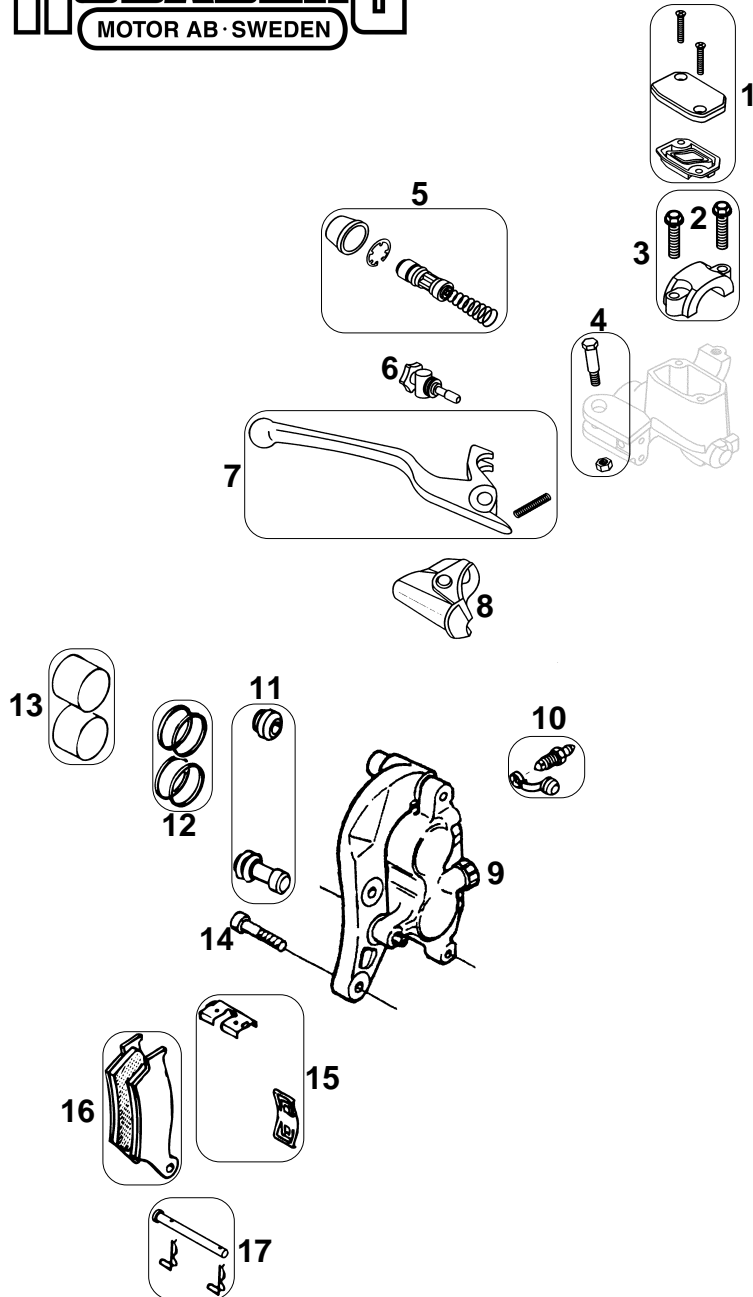


Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	140 103-02				1	1		Rear wheel EXCEL 19" 00- (Incl. Pos. No.2, 3, 4, 5, 6, 7, 8, 9)
1	140 030-05	1					1	Rear wheel EXCEL 18" 00- (Incl. Pos. No.2, 3, 4, 5, 6, 7, 8, 9)
2	140 130-01				1	1		Rim EXCEL 2.15x19" 00-
2	140 131-01	1					1	Rim EXCEL 2.15x18" 00-
3	140 136-01				36	36		Spoke (19") rear 00-
	140 150-01				1	1		Spoke kit; 36 pcs (19") rear 00-
3	140 135-01	36					36	Spoke (18") rear 00-
	140 149-01	1					1	Spoke kit; 36 pcs (18") rear 00-
4	140 137-01	36			36	36	36	Spoke nipple (18"/19") rear 00-
	140 151-01	1			1	1	1	Spoke nipple kit; 36 pcs (18"/19") rear 00-
5	140 132-01	1			1	1	1	Rear hub (18"/19") 00-
6	140 138-01	1			1	1	1	Spacer rear hub (18"/19") 00-
7	360 032-01	2			2	2	2	Roller bearing 00-
8	330 038-01	1			1	1	1	Seal clip 00-
9	350 010-01	2			2	2	2	Sealring 00-
10	140 005-01	1			1	1	1	Rear axle 89-
11	140 139-01	2			2	2	2	Spacer 01-
12	120 145-01	1			1	1	1	Adjustment sledge Right 01-
13	120 146-01	1			1	1	1	Adjustment sledge Left 01-
14	322 036-01	1			1	1	1	Washer 01-
15	140 039-01	1			1	1	1	Nut rear axle 01-
16	140 133-01	1			1	1	1	Brake disc rear stainless 00-
17	406 212-22	6			6	6	6	Screw 6x12
18	140 142-42							Sprocket Z=42 rear 00-
18	140 142-46							Sprocket Z=46 rear 00-
18	140 142-48							Sprocket Z=48 rear 00-
18	140 142-50							Sprocket Z=50 rear 00-
19	140 141-01	6			6	6	6	Screw 8x26 00-
20	318 801-22	6			6	6	6	Lock nut M8
21	140 059-01	2			2	2	2	Rimlock rear 89-
22	328 017-01	2			2	2	2	Washer 8,4x16x1,5
23	318 800-22	2			2	2	2	Nut M8

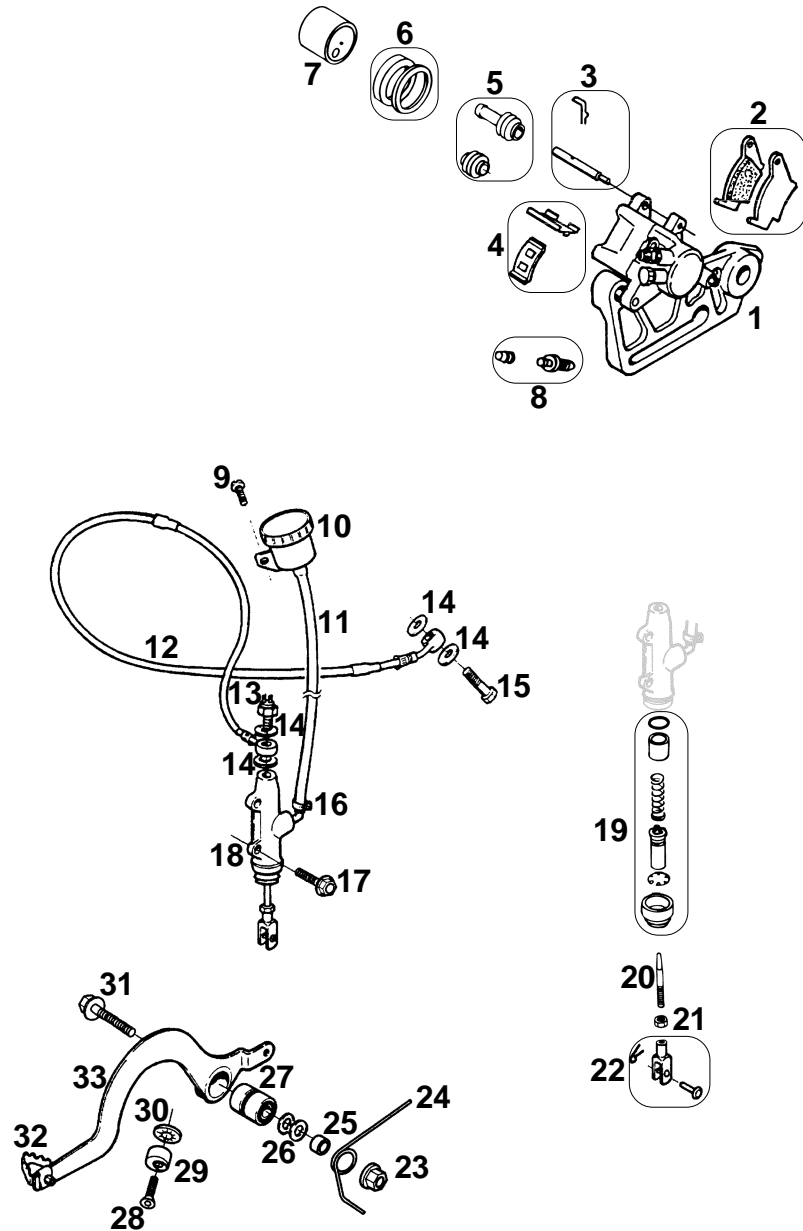




Pos.	Part No	Qty/Model					Description
		FEe	FSe	FSc	FC	FCe	
1	140 147-01	1	1				Rear wheel BEHR 17" 00- (Incl. Pos. No.2, 3, 4, 5, 6, 7, 8, 9)
2	140 172-01	1	1				Rim BEHR 4.25x17" 00-
3	140 174-01	18	18				Spoke (17") rear Right M5x199 00-
3	140 175-01	18	18				Spoke (17") rear Left M5x185 00-
4	140 137-01	36	36				Spoke nipple (17") rear 00-
5	140 173-01	1	1				Rear hub (17") complete 00- (Incl. Pos. No.6, 7, 8, 9)
6	140 176-01	1	1				Spacer rear hub (17") 00-
7	0625 062052	2	2				Roller bearing 00-
8	0760 325772	1	1				Sealring 00-
9	140 005-01	1	1				Rear axle 89-
10	140 139-01	2	2				Spacer 01-
11	120 145-01	1	1				Adjustment sledge Right 01-
12	120 146-01	1	1				Adjustment sledge Left 01-
13	322 036-01	1	1				Washer 01-
14	140 039-01	1	1				Nut rear axle 01-
15	140 133-01	1	1				Brake disc rear stainless 00-
16	406 212-22	6	6				Screw 6x12
17	140 142-42						Sprocket Z=42 rear 00-
17	140 142-46						Sprocket Z=46 rear 00-
17	140 142-48						Sprocket Z=48 rear 00-
17	140 142-50						Sprocket Z=50 rear 00-
18	140 141-01	6	6				Screw 8x26 00-
19	318 801-22	6	6				Lock nut M8
20	140 148-01	1	1				Rear wheel jerk absorber 00-
21	140 156-01	6	6				Damping rubber 00-
22	0625 03257	1	1				Roller bearing 00-
23	140 171-01	1	1				Washer 00-
24	140 139-01	1	1				Spacer 00-

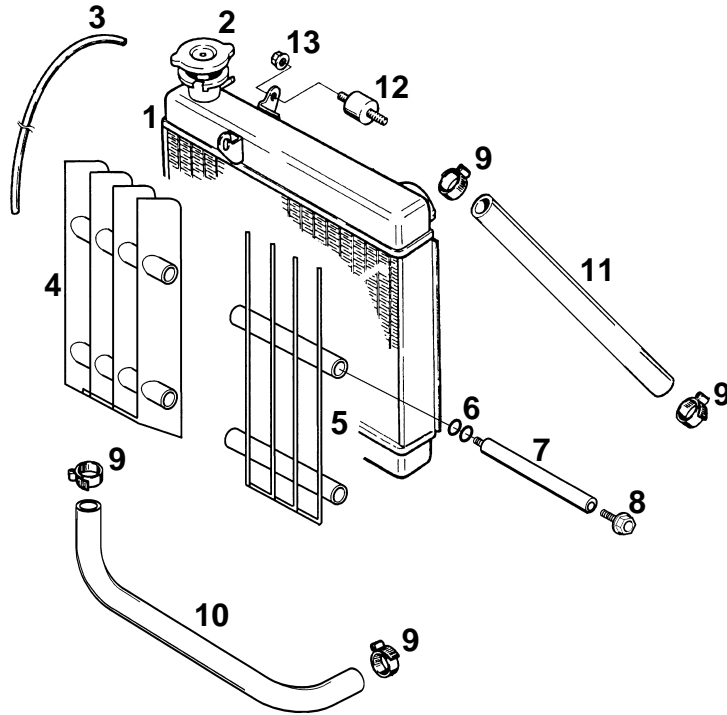


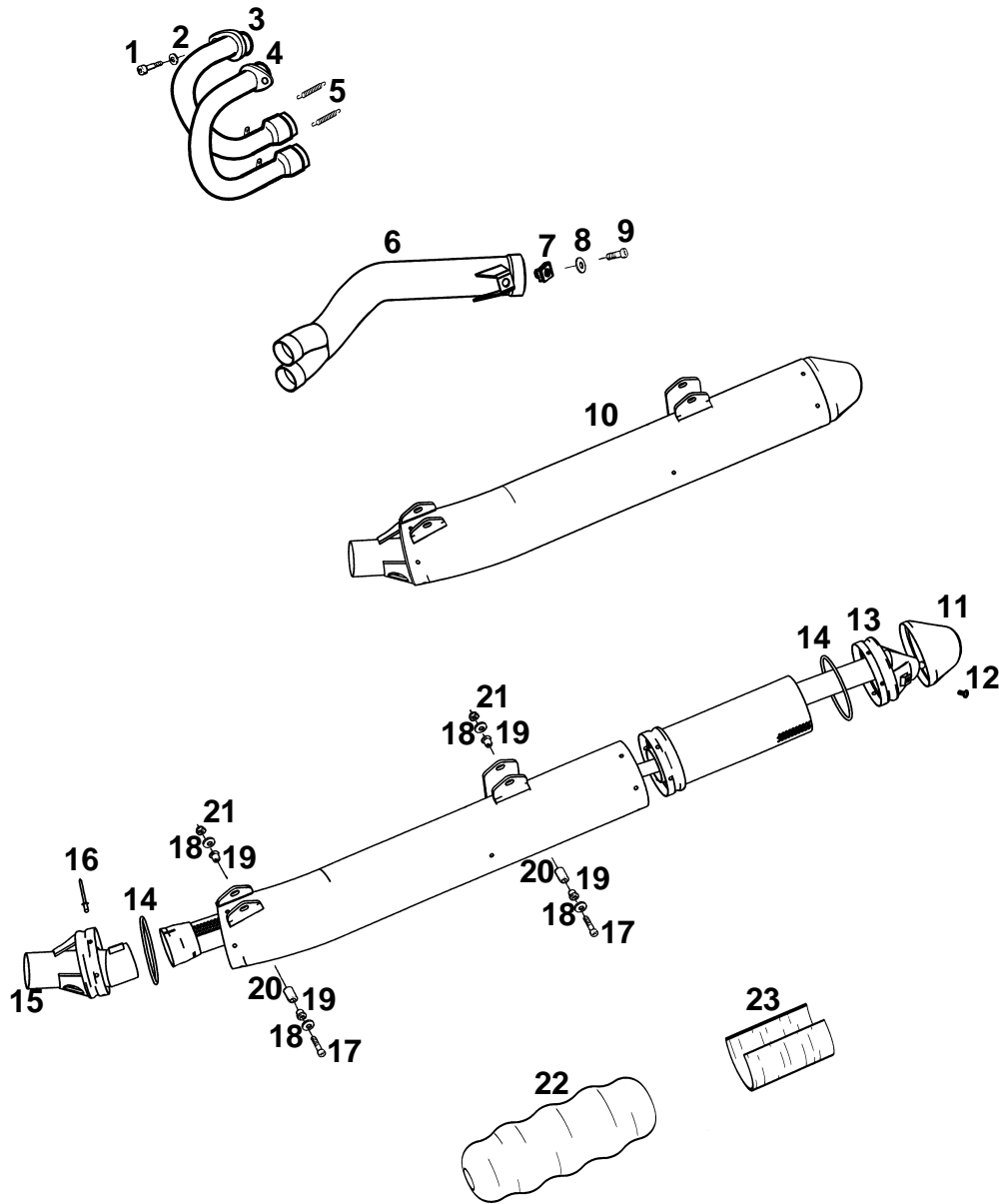
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	140 160-01	1	1	1	1	1	1	Screw, cover & gasket kit 00-
2	406 225-22	2	2	2	2	2	2	Screw (Collar) 6x25
3	140 159-01	1	1	1	1	1	1	Clamp frontbrake cylinder 00-
4	140 161-01	1	1	1	1	1	1	Screw & nut kit 00-
5	503.13.008.200			1	1	1	1	Repair kit piston FSc/FC/FCe/FXe 00-
5	140 165-01	1	1					Repair kit piston FEe/Fse 00-
6	140 163-01			1	1	1	1	Adjustment screw FSc/FC/FCe/FXe 00-
6	140 163-02	1	1					Adjustment screw FEe/FSe 00-
7	140 157-01	1	1	1	1	1	1	Frontbrake lever 00-
8	140 162-01	1	1	1	1	1	1	Frontbrake dust protection 00-
9	140 129-01	1			1	1	1	Frontbrake caliper (BREMBO) 00- (Incl. bracket)
9	140 183-01		1	1				Frontbrake caliper (BERINGER) 01-
10	545.13.214.000	1			1	1	1	Air nipple & dust cover (BREMBO) 00-
11	546.13.218.000	1			1	1	1	Sliding sleeve kit (BREMBO) 00-
12	546.13.205.000	1			1	1	1	Repair kit ø 28 mm (BREMBO) 00-
13	546.13.206.000	1			1	1	1	Repair kit piston ø 28 mm (BREMBO) 00-
14	308 535-22	2			2	2	2	Screw MC6S 8x35
14	308 530-25		2	2				Screw MC6S 8x30
15	140 092-01	1			1	1	1	Brakepad locking device kit (BREMBO) 93-
16	140 076-01	1			1	1	1	Brake pads front (BREMBO) 93-
16	140 152-01	1			1	1	1	Brake pads front sinter (BREMBO) 00-
16	140 184-01		1	1				Brake pads front (BERINGER) 01-
17	130 110-01	1			1	1	1	Brake pad lock pin kit (BREMBO) 93-



Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	140 167-01	1	1	1	1	1	1	Rear brake caliper complete 01- (Incl. attachment bracket)
2	140 084-01	1	1	1	1	1	1	Brake pad rear sinter 95-
2	140 086-01	1	1	1	1	1	1	Brake pad rear organic
3	140 090-01	1	1	1	1	1	1	Brakepad lock pin 95-
4	140 093-01	1	1	1	1	1	1	Brakepad locking device 95-
5	140 091-01	1	1	1	1	1	1	Sliding sleeve kit 95-
6	546.13.318.200	1	1	1	1	1	1	Repair kit 95-
7	546.13.305.200	1	1	1	1	1	1	Repair kit piston 95-
8	140 094-01	1	1	1	1	1	1	Air nipple & dust cover 95-
9	406 110-22	1	1	1	1	1	1	Screw (Collar) 6x10
10	140 028-01	1	1	1	1	1	1	Brakefluid reservoir 89-
11	140 029-01	1	1	1	1	1	1	Hose brakefluid reservoir FC 92- / FE 89-
12	140 155-01	1	1	1	1	1	1	Brakehose rear 00-
13	180 116-01	1	1					Brakelight switch (hydraulic) 99-
14	140 016-01	4	4	4	4	4	4	Copper washer 10x14x1 89-
15	140 015-01	1	1	2	2	2	2	Connecting screw brakehose 89-
16	140 071-01	2	2	2	2	2	2	Clamp Orbitus 89-
17	406 120-22	2	2	2	2	2	2	Screw (Collar) 6x20 98-
18	140 022-01	1	1	1	1	1	1	Main rear brakecylinder 95-
19	545.13.150.000	1	1	1	1	1	1	Repair kit 95-
20	140 045-02	1	1	1	1	1	1	Rearbrake pushrod 00-
21	316 800-22	1	1	1	1	1	1	Nut M6 low
22	140 046-01	1	1	1	1	1	1	Attachment rearbrake pushrod 89-
23	318 801-22	6	6	6	6	6	6	Locknut M8 low
24	170 068-01	1	1	1	1	1	1	Return spring brakepedal 00-
25	140 153-01	1	1	1	1	1	1	Spacer return spring 00-
26	328 017-01	2	2	2	2	2	2	Washer 8,4x16x1,5
27	360 011-01	2	2	2	2	2	2	Ballbearing 89-
28	306 025-31	1	1	1	1	1	1	Screw excenter brakepedal 00-
29	140 143-01	1	1	1	1	1	1	Excenter brakepedal 00-
30	326 011-01	1	1	1	1	1	1	Locking washer
31	408 240-22	1	1	1	1	1	1	Screw (Collar) 8x40
32	140 019-01	1	1	1	1	1	1	Brake pedal tip 89-
33	140 017-02	1	1	1	1	1	1	Brake pedal complete 00- (Incl. Pos. No. 27, 32)

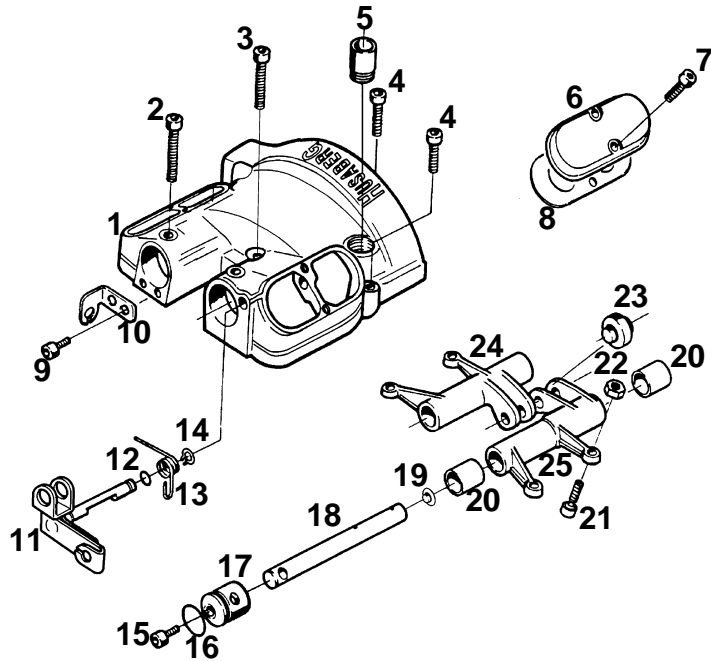
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	150 169-01	1	1	1	1	1	1	Radiator 00-
2	150 021-01	1	1	1	1	1	1	Radiator cap 1.4 89-
3	150 024-01	1	1	1	1	1	1	Pressure relief hose 89-
4	160 174-01	4	4	4	4	4	4	Radiator protection Right 00-
5	160 173-01	4	4	4	4	4	4	Radiator protection Left 00-
6	340 009-01	8	8	8	8	8	8	O-ring bracket pin radiator protection 00-
7	160 179-01	4	4	4	4	4	4	Bracket pin radiator protection 00-
8	406 110-22	2	2	2	2	2	2	Screw (Collar) 6x10
9	150 243-01	4	4	4	4	4	4	Clamp radiatorhose 89-
10	150 217-01	1	1	1	1	1	1	Radiator hose lower 01-
11	150 218-02	1	1	1	1	1	1	Radiator hose upper 400/470 01-
11	150 218-03	1	1	1	1	1	1	Radiator hose upper 501/550 01-
11	150 218-04	1	1	1	1	1	1	Radiator hose upper 650 01-
12	150 025-01	3	3	3	3	3	3	Vibration damper 25X15 89-
13	316 801-22	3	3	3	3	3	3	Locknut M6 low



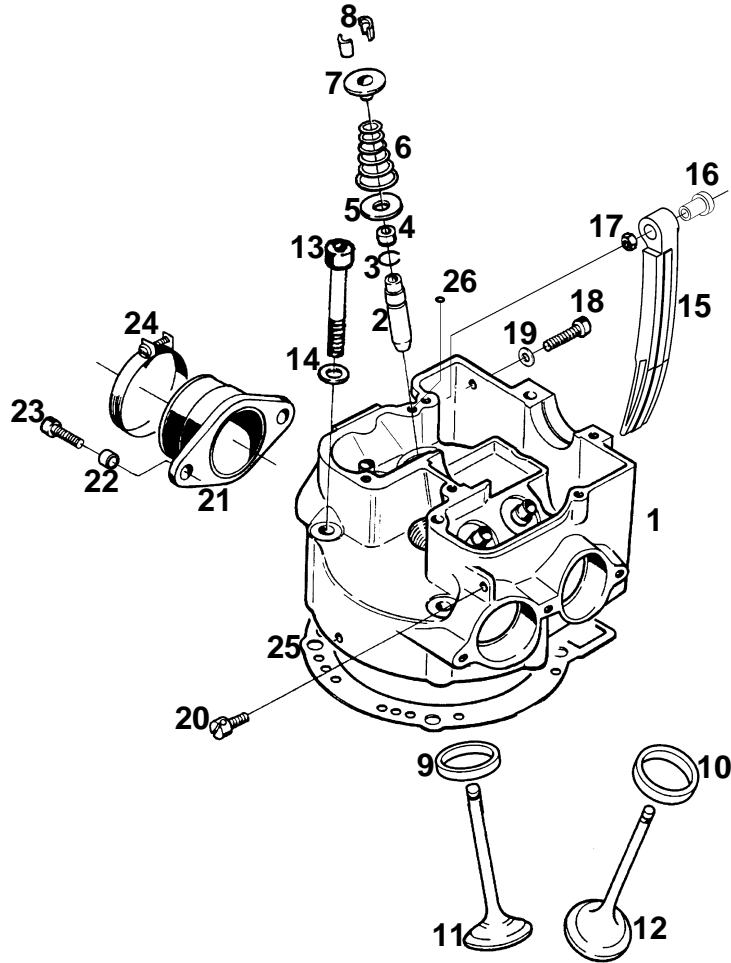


Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	306 520-41	2	2	2	2	2	2	Screw MC6S 6x20
2	326 013-01	2	2	2	2	2	2	Washer 6,7x14x1,5
3	150 197-01	1	1	1				Exhaust pipe Right 400 01-
3	150 219-01				1	1	1	Exhaust pipe Right 470 01-
3	150 199-01	1			1	1		Exhaust pipe Right 501/550 01-
3	150 201-01	1	1	1			1	Exhaust pipe Right 650 01-
4	150 198-01	1	1	1				Exhaust pipe Left 400 01-
4	150 220-01				1	1	1	Exhaust pipe Left 470 01-
4	150 200-01	1			1	1		Exhaust pipe Left 501/550 01-
4	150 202-01	1	1	1			1	Exhaust pipe Left 650 01-
5	150 130-01	2	2	2	2	2	2	Spring exhaust system 01-
6	150 203-01	1	1	1	1	1	1	Collector tube 01-
7	150 235-01	1	1	1	1	1	1	Split nut M8
8	328 017-01	1	1	1	1	1	1	Washer 8,4x16x1,5
9	308 520-22	1	1	1	1	1	1	Screw MC6S 8x20
10	150 204-01	1	1					Silencer FEe/Fse Non-restricted 01-
10	150 204-02	1	1					Silencer FEe/Fse ECE 01-
10	150 204-03	1	1				1	Silencer FEe/Fse/FXe USA 01-
10	150 204-04			1	1	1		Silencer FSc/FC/FCe 01-
11	150 229-01	1	1				1	Rear end silencer FEe/Fse/FXe 01-
11	150 229-02			1	1	1		Rear end silencer FSc/FC/FCe 01-
12	305 010-62	2	2	2	2	2	2	Screw LKCS 5x10
13	150 209-01	1	1					Rear end silencer FEe/Fse Non-restricted 01-
13	150 209-02	1	1					Rear end silencer FEe/Fse ECE 01-
13	150 209-03	1	1				1	Rear end silencer FEe/Fse/FXe USA 01-
13	150 209-04			1	1	1		Rear end silencer FSc/FC/FCe 01-
14	340 282-01	2	2	2	2	2	2	O-ring silencer 01-
15	150 205-01	1	1	1	1	1	1	Front end silencer FEe/Fse/FSc/FC/FCe/FXe 01-
15	150 205-02	1	1					Front end silencer FEe/Fse ECE 01-
16	370 004-01	12	12	12	12	12	12	Rivet stainless steel 01-
17	306 545-41	2	2	2	2	2	2	Screw MC6S 6x45
18	326 018-01	4	4	4	4	4	4	Washer 6,4x18x1,5
19	150 146-01	4	4	4	4	4	4	Spacer silencer 01-
20	150 147-01	2	2	2	2	2	2	Rubber spacer silencer 99-
21	316 801-22	4	4	4	4	4	4	Locknut M6
22	150 212-01	1	1				1	Stuffing yarn front FEe/Fse/FXe 01-
22	150 212-03			1	1	1		Stuffing yarn front FSc/FC/FCe 01-
23	150 212-02	1	1				1	Stuffing yarn rear FEe/Fse/FXe 01-



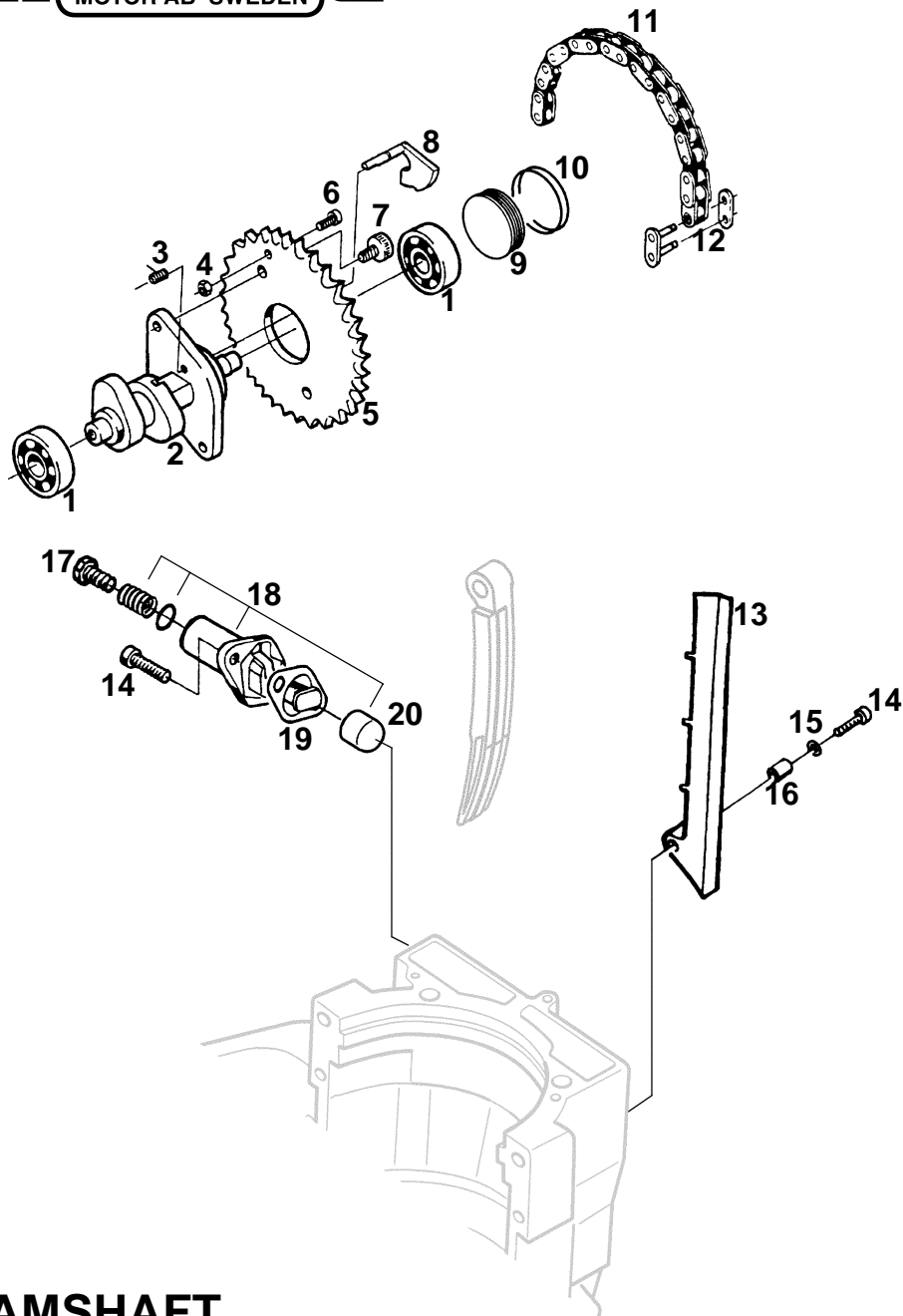


Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	200 228-01	1	1	1	1	1	1	Rockerarm cover 01-
2	306 550-22	2	2	2	2	2	2	Screw MC6S 6x50
3	306 545-22	1	1	1	1	1	1	Screw MC6S 6x45
4	306 525-22	2	2	2	2	2	2	Screw MC6S 6x25
5	200 057-01	1	1	1	1	1	1	Crankcase ventilation sleeve 89-
6	200 026-01	2	2	2	2	2	2	Valve cover 89-
7	305 516-22	4	4	4	4	4	4	Screw M5x16
8	200 027-01	2	2	2	2	2	2	Gasket valve cover 89-
9	305 512-22	2	2	2	2	2	2	Screw MC6S 5x12
10	230 045-01	1	1	1	1	1	1	Decompression valve lifter bracket 89-
11	200 217-01	1	1	1	1	1	1	Decompression valve lifter 00-
12	340 005-01	1	1	1	1	1	1	O-ring 5,1x1,6
13	200 058-01	1	1	1	1	1	1	Decompression recoil spring 89-
14	330 008-01	1	1	1	1	1	1	Circlip SGA 8 89-
15	305 506-22	2	2	2	2	2	2	Screw MC6S 5x6
16	340 019-01	2	2	2	2	2	2	O-ring 19,1x1,6 95-
17	200 143-01	2	2	2	2	2	2	End plug rockerarm shaft $\varnothing$ 12/20 mm 96-
18	200 259-01	2	2	2	2	2	2	Rockerarm shaft $\varnothing$ 12 mm 96- (Incl. Pos. No. 19)
19	200 258-01	2	2	2	2	2	2	End plug rockerarm shaft $\varnothing$ 12 mm 01-
20	200 146-01	4	4	4	4	4	4	Bushing $\varnothing$ 12 mm 96-
21	200 171-01	4	4	4	4	4	4	Valve adjustment screw 96-
22	200 021-01	4	4	4	4	4	4	Valve adjustment locknut 89-
23	200 019-01	2	2	2	2	2	2	Rockerarm roller 89-
24	200 281-01	1	1	1	1	1	1	Rockerarm intake complete (Incl. Pos. No. 20, 21, 22, 23)
25	200 282-01	1	1	1	1	1	1	Rockerarm exhaust compl. 400 01- (Incl. Pos. No. 20, 21, 22, 23)
25	200 283-01	1	1	1	1	1	1	Rockerarm exhaust compl. 470/501/550/650 96- (Incl. Pos. No. 20, 21, 22, 23)

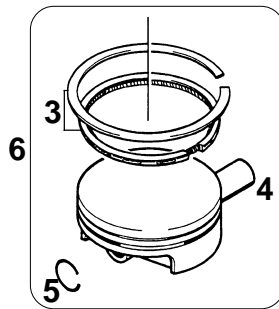
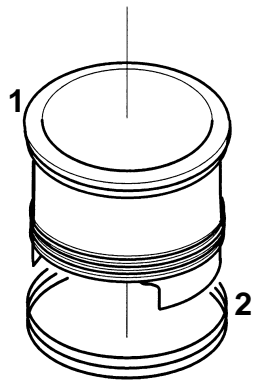


## CYLINDER HEAD (LOWER PART)

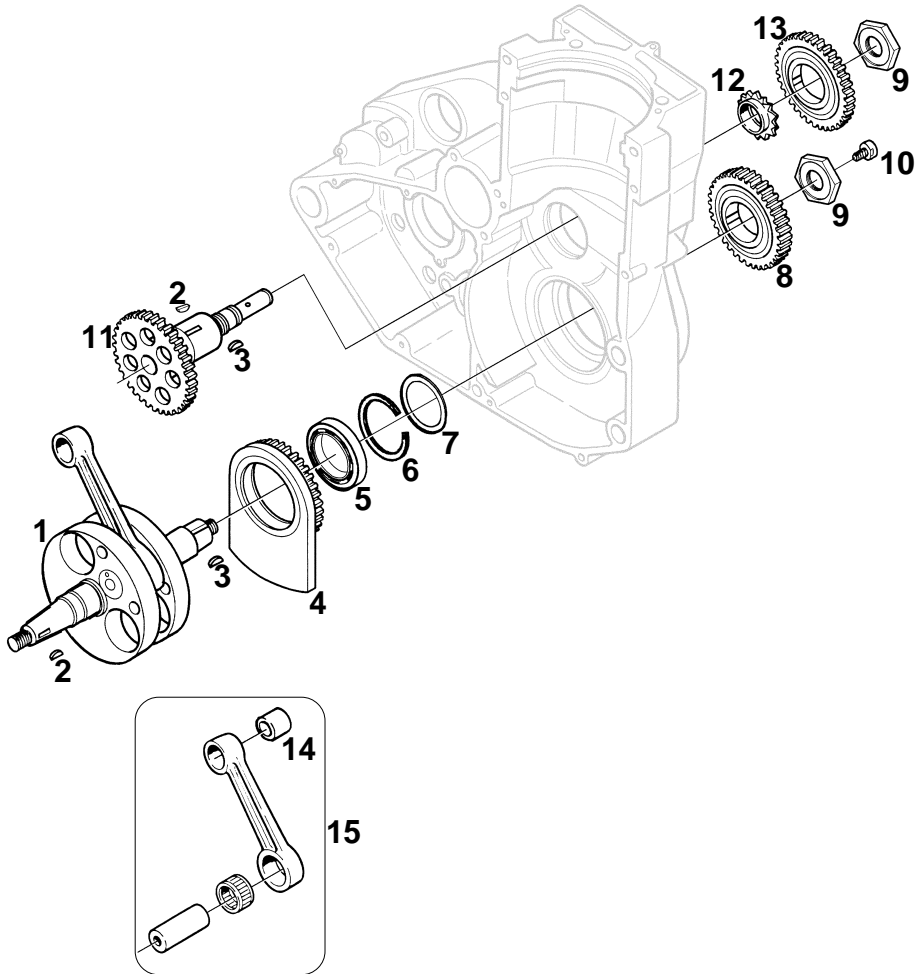
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	200 278-01	1	1	1				Cylinderhead complete 400 01- (Incl. Pos. No.2, 3, 9, 10, Page 19-1, 19-5)
1	200 294-01				1	1	1	Cylinderhead complete 470 01- (Incl. Pos. No.2, 3, 9, 10, Page 19-1, 19-5)
1	200 279-01	1						Cylinderhead complete 501 01- (Incl. Pos. No.2, 3, 9, 10, Page 19-1, 19-5)
1	200 280-01	1	1	1	1		1	Cylinderhead complete 550/650 01- (Incl. Pos. No.2, 3, 9, 10, Page 19-1, 19-5)
2	200 214-01	4	4	4	4	4	4	Valve guide 00-
3	330 001-01	4	4	4	4	4	4	Circlip SW 11 89-
4	200 054-01	4	4	4	4	4	4	Seal valveguide 89-
5	200 195-01	4	4	4	4	4	4	Shim valve spring 99-
6	200 210-01	4	4	4	4	4	4	Valve spring 99-
7	200 194-01	4	4	4	4	4	4	Valve spring retainer 99-
8	200 009-01	8	8	8	8	8	8	Valve spring cotters 89-
9	200 211-01	2	2	2	2	2	2	Valve seat inlet 00-
10	200 213-01	2	2	2				Valve seat 400 exhaust 00-
10	200 212-01	2	2	2	2	2	2	Valve seat exhaust 470/501/550/650 01-
11	200 224-01	2	2	2				Intake valve 400 96-
11	200 225-01	2	2	2	2	2	2	Intake valve 470/550/650 01-
11	200 007-01	2						Intake valve 501 89-
12	200 083-01	2	2	2				Exhaust valve 400 96-
12	200 008-01	2	2	2	2	2	2	Exhaust valve 470/501/550/650 01-
13	200 262-01	4	4	4	4	4	4	Bolt cylinder head 01-
14	320 018-01	4	4	4	4	4	4	Washer 10x18x2
15	200 135-01	1	1	1	1	1	1	Camchain tensioner 98-
16	200 229-01	1	1	1	1	1	1	Dowl camshain tensioner 98-
17	315 601-22	1	1	1	1	1	1	Locknut M5
18	305 525-22	1	1	1	1	1	1	Screw MC6S 5x25
19	200 268-01	1	1	1	1	1	1	Copper washer
20	230 044-01	1	1	1	1	1	1	Wireholder manual decompression wire 89-
21	250 243-01	1	1	1				Intake manifold 400 00-
21	250 244-01	1	1	1	1	1	1	Intake manifold 470/501/550/650 01-
22	250 230-01	2	2	2	2	2	2	Spacer inlet rubber 00-
23	306 520-22	2	2	2	2	2	2	Screw MC6S 6x20
24	250 012-01	1	1	1	1	1	1	Clamp 89-
25	200 231-01	1	1	1				Cylinderhead gasket 400 01-
25	200 232-01	1						Cylinderhead gasket 501 01-
25	200 233-01	1	1	1	1	1	1	Cylinderhead gasket 470/550/650 01-
26	340 004-01	1	1	1	1	1	1	O-ring 4x1 01-



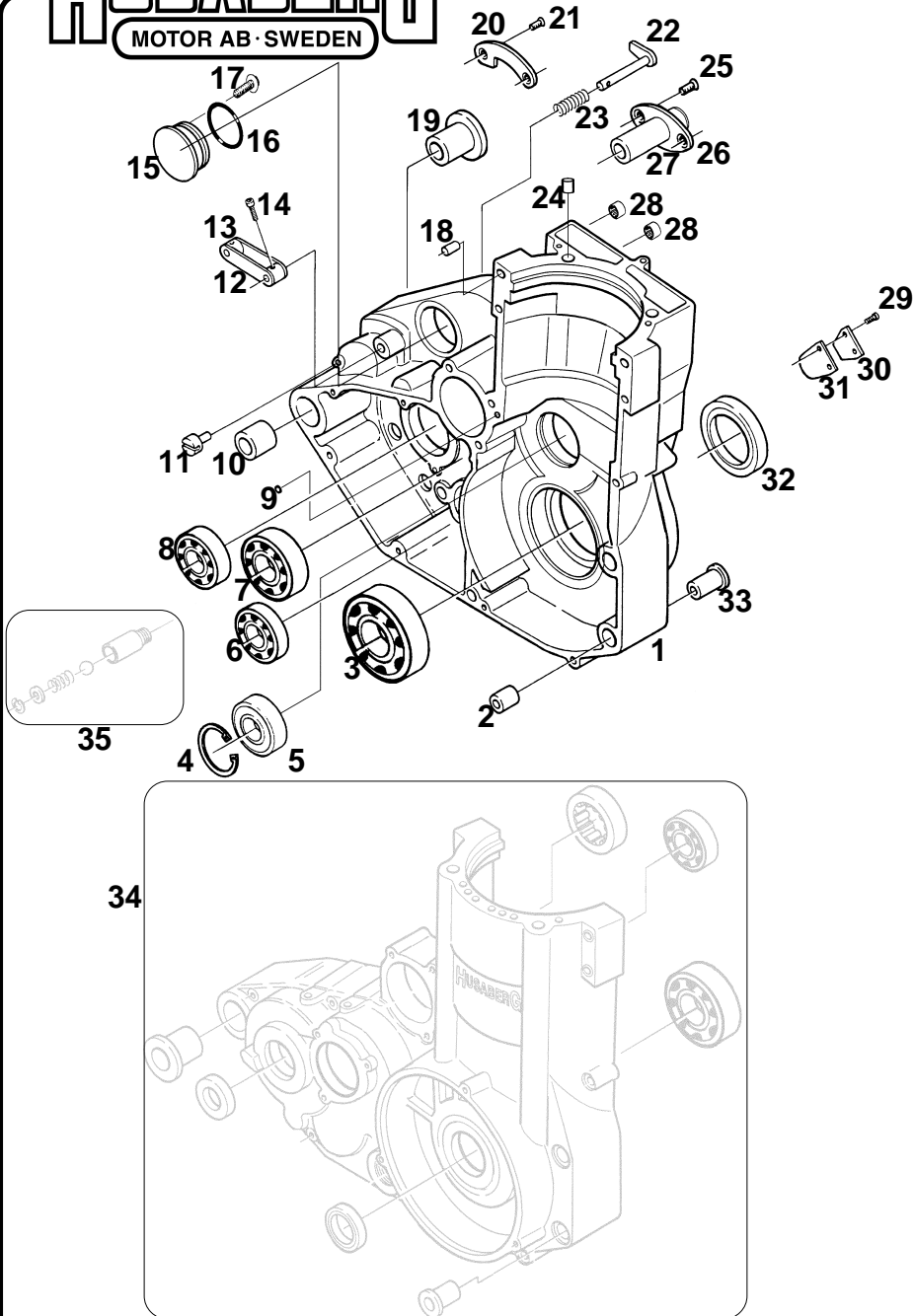
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	360 000-01	2	2	2	2	2	2	Ballbearing 89-
2	200 230-01	1	1					Camshaft FE 400 e/FS 400 e 01-
2	200 230-53	1	1	1	1	1	1	Camshaft FS 400 c/470/550/650 01-
2	200 230-55	1						Camshaft 501 01-
3	200 272-01	1	1	1	1	1	1	Recoil spring aut. decompression device 01-
4	315 601-22	1	1	1	1	1	1	Locknut M5
5	200 158-01	1	1	1	1	1	1	Timing sprocket 96-
6	305 510-41	1	1	1	1	1	1	Screw MC6S 5x10
7	308 512-21	2	2	2	2	2	2	Screw MC6LS 8x12
8	200 274-01	1	1	1	1	1	1	Aut. decompression device 01-
9	200 238-01	1	1	1	1	1	1	Plug camshaft 01-
10	340 029-01	2	2	2	2	2	2	O-ring 29,1x1,6
11	200 045-04	1	1	1	1	1	1	Timing chain 64 L 400/470 01-
11	200 045-05	1			1	1		Timing chain 66 L 501/550 01-
11	200 045-06	1	1	1			1	Timing chain 70 L 650 01-
12	200 066-02	1	1	1	1	1	1	Timing chain lock (riveted) 01-
13	200 284-01	1	1	1	1	1	1	Camchain guide 01-
14	306 516-22	3	3	3	3	3	3	Screw MC6S 6x16
15	326 012-01	1	1	1	1	1	1	Washer 6,4x12x1,5
16	200 267-01	1	1	1	1	1	1	Dowl camshain guide 01-
17	200 106-01	1	1	1	1	1	1	Screw camshain tensioner 98-
18	200 052-02	1	1	1	1	1	1	Camshain tensioner 01- (Incl. Pos. No. 20)
19	200 053-01	1	1	1	1	1	1	Gasket camshain tensioner 98-
20	200 267-01	1	1	1	1	1	1	Push rod sleeve camshain tensioner 98-



Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	200 239-01	1	1	1				Cylinder 399cc/ø 92 mm 01-
1	200 243-01				1	1	1	Cylinder 472cc/ø 100 mm 01-
1	200 240-01	1						Cylinder 501cc/ø 95 mm 01-
1	200 241-01				1			Cylinder 550cc/ø 100 mm 01-
1	200 242-01	1	1	1			1	Cylinder 644cc/ø 100 mm 01-
2	340 305-01	3	3	3	3	3	3	O-ring cylinder lining 01-
3	200 285-01	1	1	1				Piston ring kit 399cc/ø 92 mm 01-
3	200 286-01	1	1	1				Piston ring kit 501cc/ø 95 mm 01-
3	200 287-01	1	1	1	1	1	1	Piston ring kit 472cc/550cc/644cc/ø 100 mm 01-
4	200 249-01	1	1	1				Gudgeon pin 399cc 01-
4	200 253-01	1	1	1	1	1	1	Gudgeon pin 472cc/501cc/550cc/644cc 01-
5	200 250-01	2	2	2				Clips gudgeon pin 399cc 01-
5	200 254-01	2	2	2	2	2	2	Clips gudgeon pin 472cc/501cc/550cc/644cc 01-
6	200 244-01	1	1	1				Piston complete 399cc/ø 92 mm 01- (Incl. Pos. No. 3, 4, 5)
6	200 270-01				1	1	1	Piston complete 472cc/ø 100 mm 01- (Incl. Pos. No. 3, 4, 5)
6	200 245-01	1						Piston complete 501cc/ø 95 mm 01- (Incl. Pos. No. 3, 4, 5)
6	200 246-01	1	1	1	1	1	1	Piston complete 550cc/644cc/ø 100 mm 01- (Incl. Pos. No. 3, 4, 5)



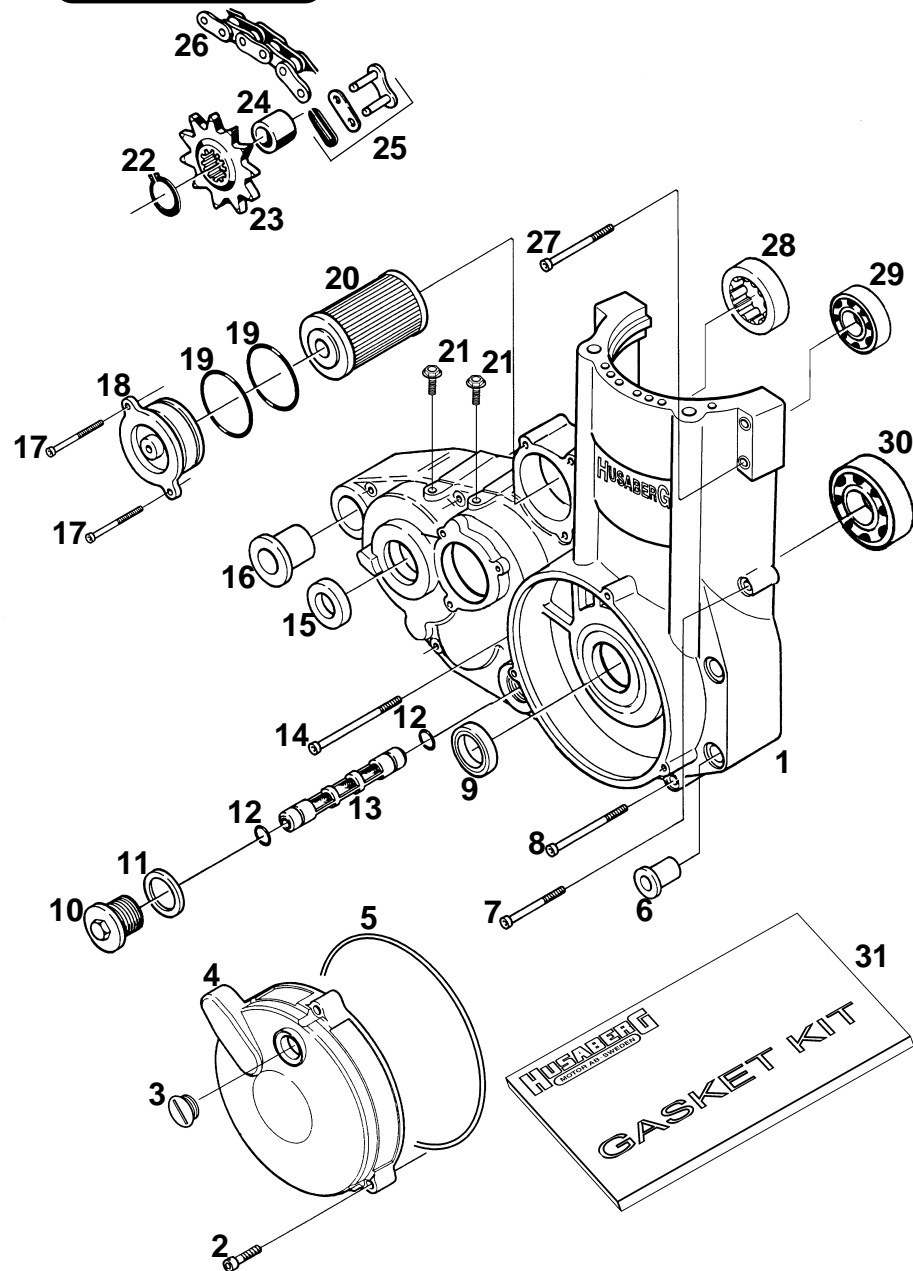
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	210 149-01	1	1	1				Crankshaft 400 01-
1	210 172-01				1	1	1	Crankshaft 470 01-
1	210 155-01	1						Crankshaft 501 01-
1	210 171-01				1			Crankshaft 550 01-
1	210 163-01	1	1	1			1	Crankshaft 650 01-
2	250 004-01	2	2	2	2	2	2	Woodruff key 3x13
3	210 173-01	2	2	2	2	2	2	Woodruff key
4	210 185-01	1	1	1				Counter balancer 400 01-
4	210 186-01	1			1	1	1	Counter balancer 470/501/550 01-
4	210 187-01	1	1	1			1	Counter balancer 650 01-
5	360 037-01	1	1	1	1	1	1	Ball bearing counter balancer
6	210 176-01	1	1	1	1	1	1	Circlip counter balancer 01-
7	210 159-01	1	1	1	1	1	1	Shim counter balancer 01-
8	230 130-01	1	1	1	1	1	1	Gear wheel crankshaft 01-
9	230 132-01	2	2	2	2	2	2	Nut crankshaft & driving shaft 01-
10	210 168-01	1	1	1	1	1	1	Oil connection nipple 01-
11	210 160-01	1	1	1	1	1	1	Driving shaft counter balancer 01-
12	200 043-01	1	1	1	1	1	1	Crankshaft sprocket 95-
13	230 131-01	1	1	1	1	1	1	Gear wheel driving shaft 01-
14	210 174-01	1	1	1				Bushing connecting rod 400 01- (ø 18 mm)
14	210 175-01	1	1	1	1	1	1	Bushing connecting rod 470/501/550/650 01- (ø 20 mm)
15	210 188-01	1	1	1				Connecting rod kit 400 01- (Incl. Pos. No. 14)
15	210 189-01				1	1	1	Connecting rod kit 470 01- (Incl. Pos. No. 14)
15	210 190-01	1						Connecting rod kit 501 01- (Incl. Pos. No. 14)
15	210 191-01				1			Connecting rod kit 550 01- (Incl. Pos. No. 14)
15	210 192-01	1	1	1			1	Connecting rod kit 650 01- (Incl. Pos. No. 14)



**CRANKCASE (LEFT)**

Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1								Crankcase complete set Right + Left halves (Incl. Pos. No. 2, 3, 4, 5, 8, 10, 19, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35)
1	220 080-01	1	1	1	1	1	1	Crankcase complete 400/470 01-
1	220 081-01				1			Crankcase complete 501/550 01-
1	220 082-01	1	1	1			1	Crankcase complete 650 01-
2	220 011-01	1	1	1	1	1	1	Dowl crankcase front 89-
3	360 001-01	1	1	1	1	1	1	Ball bearing crankshaft
4	330 042-01	1	1	1	1	1	1	Circlip 42x1,8
5	360 036-01	1	1	1	1	1	1	Ball bearing counter balancer driving shaft
6	360 026-01	1	1	1	1	1	1	Ball bearing shift drum
7	360 004-01	1	1	1	1	1	1	Ball bearing main gearshaft
8	360 002-01	1	1	1	1	1	1	Ball bearing secondary shaft
9	340 004-01	1	1	1	1	1	1	O-ring 4x1
10	220 012-01	1	1	1	1	1	1	Dowl crankcase rear 89-
11	230 044-01	1	1	1	1	1	1	Holder decompression wire lower 89-
12	230 054-01	1	1	1	1	1	1	Decompression lever 89-
13	230 065-01	1	1	1	1	1	1	Nipple decompression wire 89-
14	305 510-22	1	1	1	1	1	1	Screw MC6S 5x10
15	220 078-01			1	1			Plug electrical starter engine
16	340 024-01			1	1			O-ring 24,2x3
17	406 110-22			1	1			Screw (Collar) 6x10
18	220 022-01	2	2	2	2	2	2	Dowl crankcase cylinder lining 01-
19	220 007-01	2	2	2	2	2	2	Flange bushing rear 89-
20	230 039-01	1	1	1	1	1	1	Engagement sledge 89-
21	305 410-12	2	2	2	2	2	2	Screw MFX 5x10
22	230 050-01	1	1	1	1	1	1	Decompression lever kickstarter 89-
23	230 037-01	1	1	1	1	1	1	Recoil spring decomp. lever kickstarter 89-
24	200 263-01	2	2	2	2	2	2	Dowl crankcase cylinder head 01-
25	306 416-12	2	2	2	2	2	2	Screw MFX 6x16
26	220 010-01	1	1	1	1	1	1	Flange intermediate gear wheel shaft support 89-
27	220 009-01	1	1	1	1	1	1	Shaft support intermediate gear wheel 89-
28	360 034-01	2	2	2	2	2	2	Needle bearing 01-
29	304 306-12	2	2	2	2	2	2	Screw MSCS 4x6
30	220 020-01	1	1	1	1	1	1	Reed valve support 89-
31	220 013-01	1	1	1	1	1	1	Reed valve 89-
32	350 003-01	1	1	1	1	1	1	Seal ring
33	220 006-01	2	2	2	2	2	2	Flange bushing front 89-

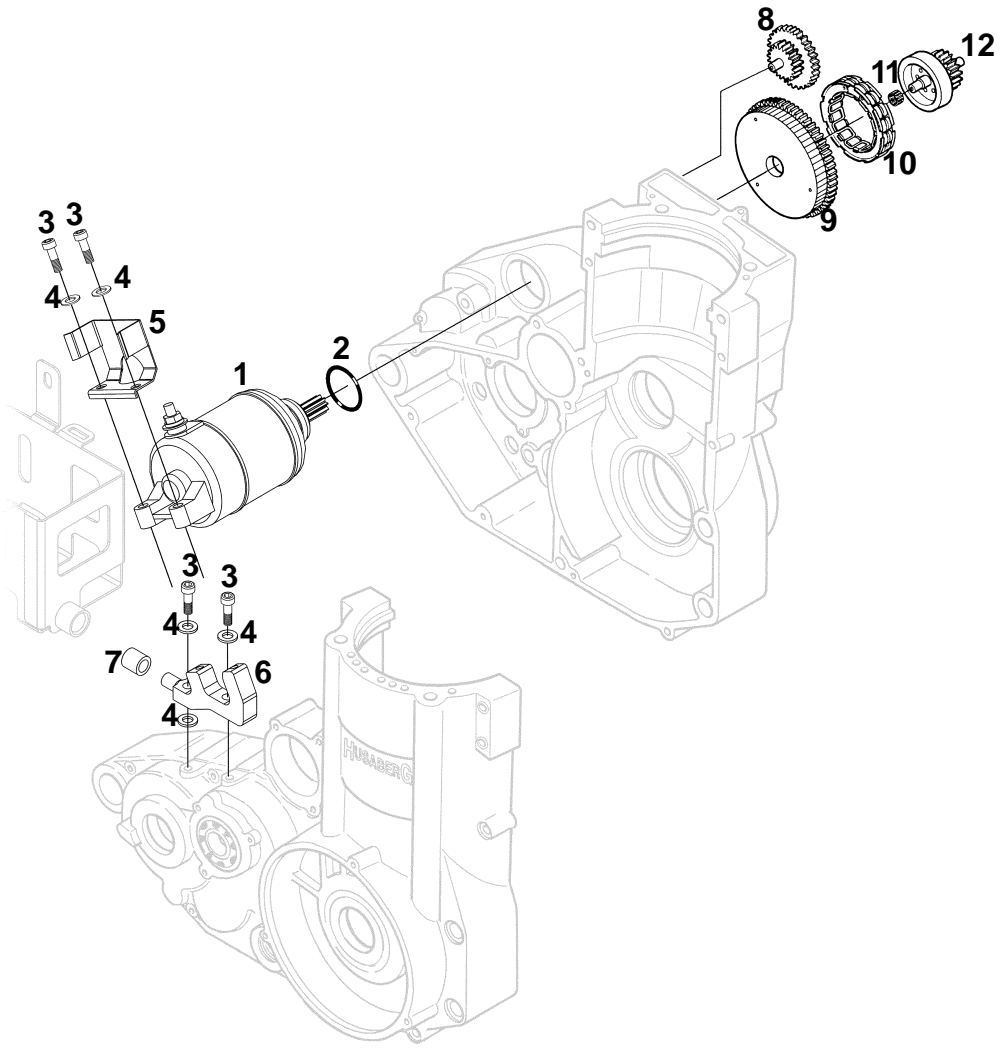




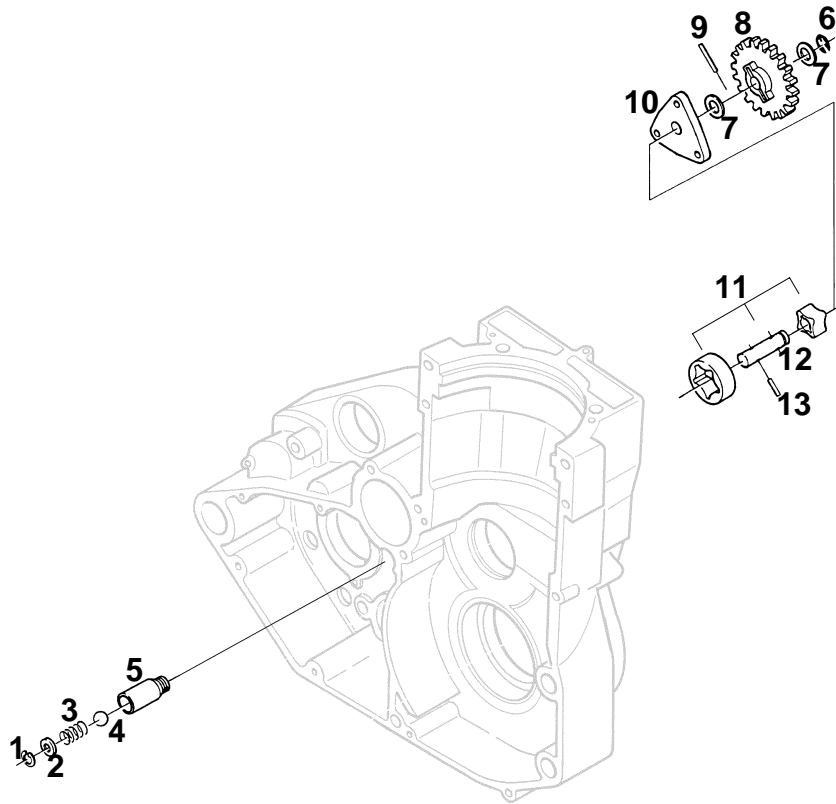
## CRANKCASE (RIGHT)

Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1								Crankcase complete set Right + Left halves (See previous page)
2	306 625-22	3	3	3	3	3	3	Screw MC6S 6x25
3	250 204-01	1	1	1	1	1	1	Inspection plug ignition cover 99-
4	220 060-01	1	1	1	1	1	1	Ignition cover 99-
5	340 060-01	1	1	1	1	1	1	O-ring ignition cover 00-
6	220 006-01	2	2	2	2	2	2	Flange bushing front 89-
7	306 540-22	1	1	1	1	1	1	Screw MC6S 6x40
8	306 550-22	7	7	7	7	7	7	Screw MC6S 6x50
9	350 008-01	1	1	1	1	1	1	Seal ring 25x40x7 99-
10	220 051-01	1	1	1	1	1	1	Oil drain plug 97-
11	324 034-01	1	1	1	1	1	1	Washer oil drain plug 97-
12	340 040-01	2	2	2	2	2	2	O-ring oil screen 97-
13	260 052-01	1	1	1	1	1	1	Oil screen 97-
14	306 565-22	1	1	1	1	1	1	Screw MC6S 6x65
15	350 006-01	1	1	1	1	1	1	Seal ring 30x42x7 94-
16	220 007-01	1	1	1	1	1	1	Flange bushing rear 89-
17	305 550-22	2	2	2	2	2	2	Screw MC6S 5x50
18	220 050-01	1	1	1	1	1	1	Cover oil filter 97-
19	340 073-01	2	2	2	2	2	2	O-ring oil filter cover 97-
20	260 060-01	1	1	1	1	1	1	Oilfilter (outlet part) 97-
21	406 212-22	2	2	2	2	2	2	Screw (Collar) 6x12
22	330 025-01	1	1	1	1	1	1	Circlip SGA 25 94-
23	260 001-03							Sprocket Z=13 89-
23	260 001-04							Sprocket Z=14 89-
23	260 001-05							Sprocket Z=15 89-
23	260 001-06							Sprocket Z=16 89-
23	240 046-01	1	1	1	1	1	1	Spacer sprocket 94-
25	190 001-01	1	1	1	1	1	1	Master link 89-
26	190 002-02							Drive chain 112 L 89-
26	190 002-03							Drive chain 114 L 89-
26	190 002-04							Drive chain 116 L 89-
27	306 545-22	4	4	4	4	4	4	Screw MC6S 6x45
28	360 017-01	1	1	1	1	1	1	Roller bearing secondary shaft
29	360 002-01	1	1	1	1	1	1	Ball bearing main gearshaft
30	360 001-01	1	1	1	1	1	1	Ball bearing crankshaft
31	260 079-01	1	1	1				Gasket kit complete 400 01-
31	260 081-01	1	1	1	1	1	1	Gasket kit complete 470/550/650 01-
31	260 080-01	1						Gasket kit complete 501 01-

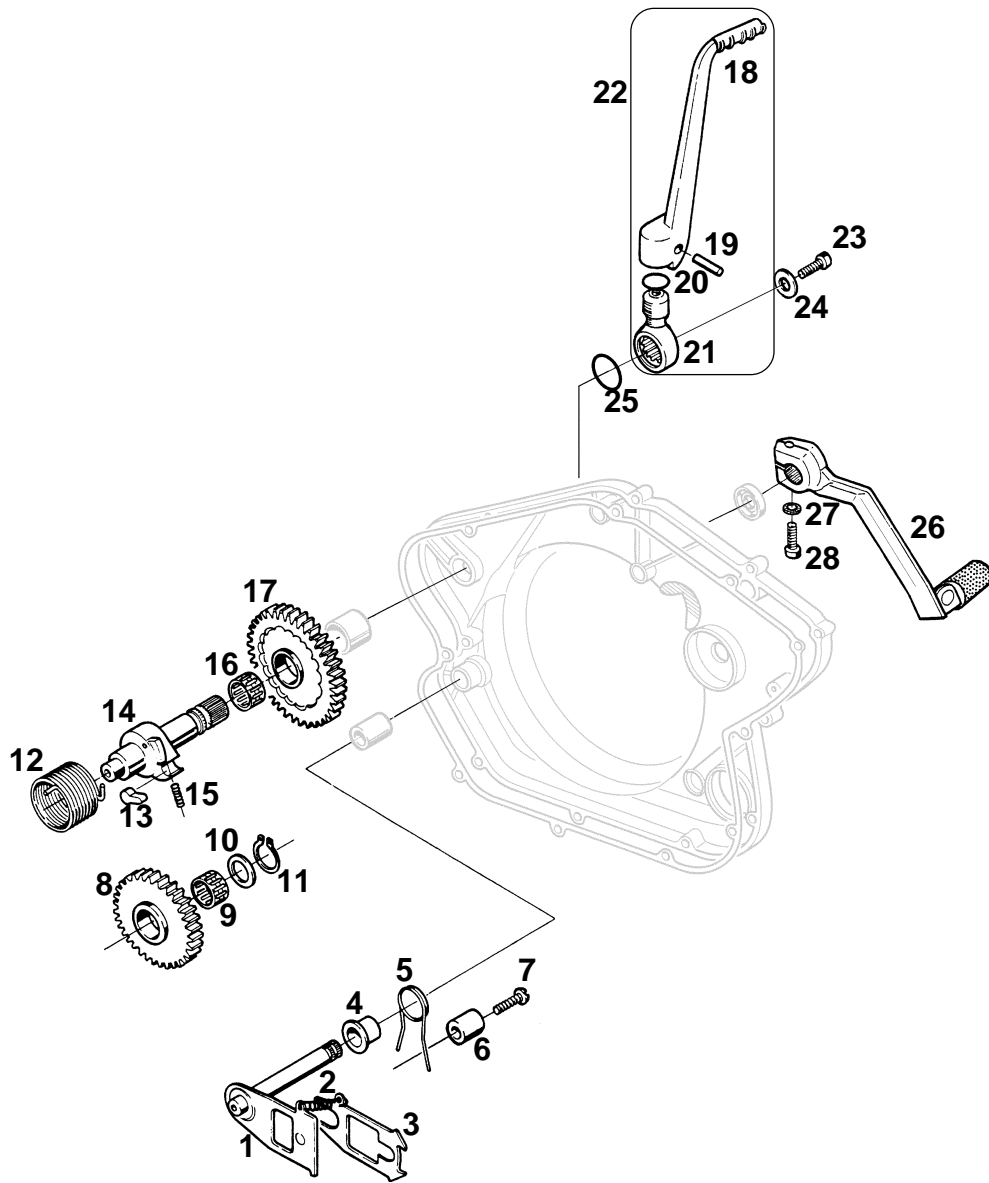
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	250 249-01	1	1			1	1	Electrical starter engine 01-
2	340 024-01	1	1			1	1	O-ring 24,2x3
3	306 525-22	4	4			4	4	Screw MC6S 6x25
4	326 012-01	5	5			5	5	Washer 6,4x12,1,5
5	250 260-01	1	1			1	1	Bracket electrical starter relay 01-
6	250 271-01	1	1			1	1	Bracket electrical starter engine 01-
7	150 147-02	1	1			1	1	Rubber damper battery box 01-
8	250 246-01	1	1			1	1	Gear wheel electrical starter engine 01-
9	250 247-01	1	1			1	1	Free wheel outer part 01-
10	250 245-01	1	1			1	1	Clutch mechanism free wheel 01-
11	360 035-01	1	1			1	1	Needle bearing free wheel 01-
12	250 248-01	1	1			1	1	Free wheel inner part 01-



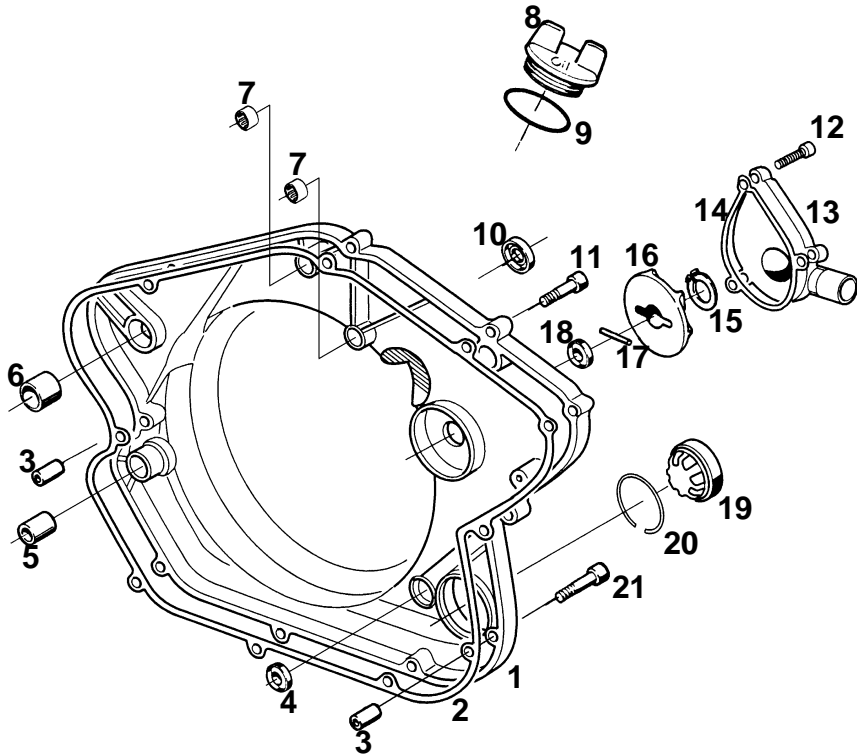
## ELECTRICAL STARTER



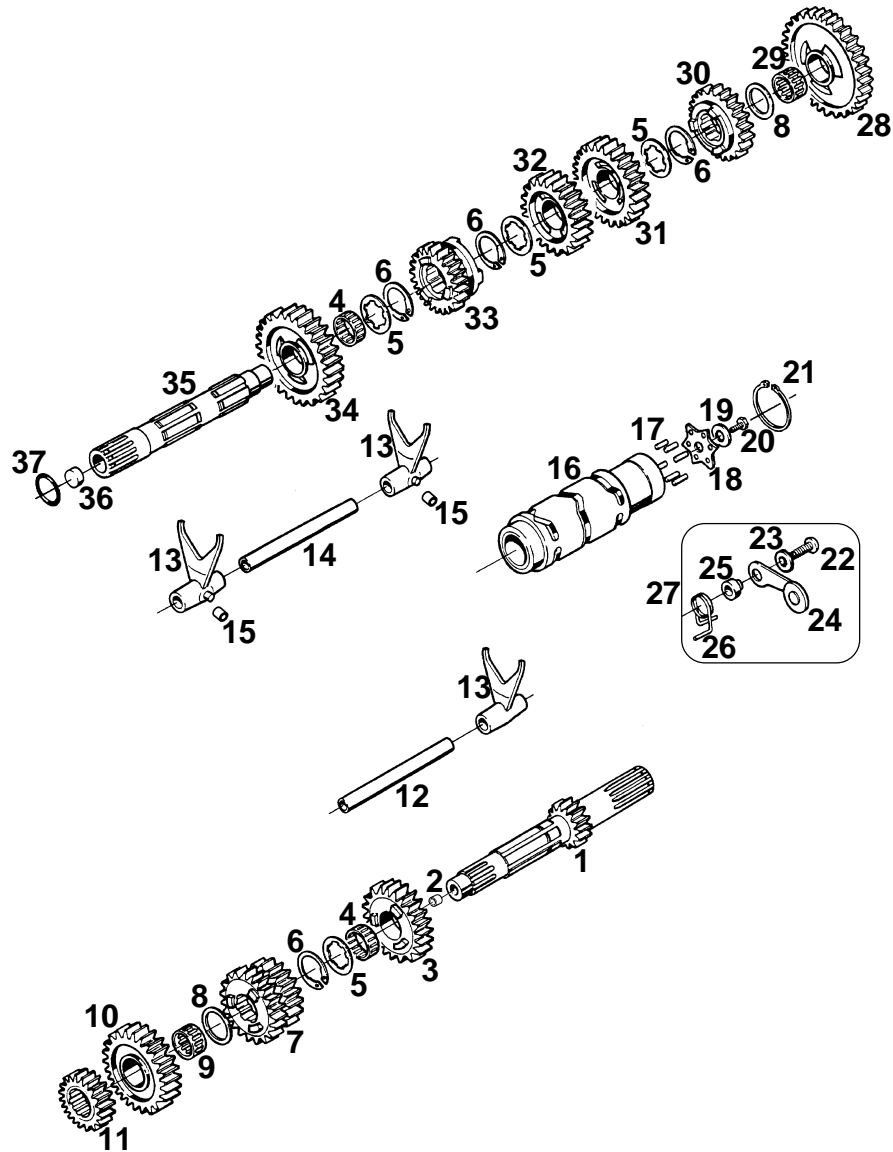
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	330 015-01	1	1	1	1	1	1	Circlip sgH15
2	260 037-01	1	1	1	1	1	1	Washer oilpressure relief 95-
3	260 038-01	1	1	1	1	1	1	Spring oilpressure relief 95-
4	360 024-01	1	1	1	1	1	1	Steelball oilpressure relief 95-
5	260 036-01	1	1	1	1	1	1	Body oilpressure relief valve 95-
6	260 057-01	1	1	1	1	1	1	Circlip oilpump 97-
7	260 056-01	2	2	2	2	2	2	Washer 97-
8	260 055-01	1	1	1	1	1	1	Intermediate gear wheel oilpump 97-
9	370 006-01	1	1	1	1	1	1	Pin oil pump (long) 97-
10	260 053-01	1	1	1	1	1	1	Cover oilpump 97-
11	260 061-01	1	1	1	1	1	1	Rotor kit oil pump 97-
12	260 054-01	1	1	1	1	1	1	Shaft oilpump 97-
13	370 005-01	1	1	1	1	1	1	Pin oil pump (short) 97-



Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	230 140-01	1	1	1	1	1	1	Gearshift linkage shaft 01-
2	230 031-01	1	1	1	1	1	1	Spring gearshift mechanism 89-
3	230 081-01	1	1	1	1	1	1	Gearshift selector 89-
4	230 059-01	1	1	1	1	1	1	Spacer gearshift shaft 89-
5	230 032-01	1	1	1	1	1	1	Recoil spring gearshift mechanism 89-
6	220 022-01	1	1	1	1	1	1	Dowl 89-
7	306 020-62	1	1	1	1	1	1	Screw K6S 6x20
8	230 015-01	1	1	1	1	1	1	Intermediate gear wheel 89-
9	360 006-01	1	1	1	1	1	1	Needle roller bearing 17x21x10 89-
10	230 042-01	1	1	1	1	1	1	Support washer intermediate gear wheel 89-
11	330 017-01	1	1	1	1	1	1	Circlip SGA 17
12	230 019-01	1	1	1	1	1	1	Kickstart spring 89-
13	230 018-01	1	1	1	1	1	1	Engagement key kickstart 89-
14	230 097-01	1	1	1	1	1	1	Kickstart shaft 89-
15	230 056-01	1	1	1	1	1	1	Spring kickstart engagement key 89-
16	360 018-01	1	1	1	1	1	1	Needle roller bearing 18x22x10 89-
17	230 096-01	1	1	1	1	1	1	Gear wheel kickstart 89-
18	230 093-01	1	1	1	1	1	1	Kickstart lever 89-
19	370 000-01	1	1	1	1	1	1	Pin kickstart lever 89-
20	340 015-01	1	1	1	1	1	1	O-ring 15,1x1,6
21	230 020-02	1	1	1	1	1	1	Shaft pivot kickstart lever 89-
22	230 082-02	1	1	1	1	1	1	Kickstart lever complete 89- (Incl. Pos. No. 18, 19, 20, 21)
23	306 520-22	1	1	1	1	1	1	Screw MC6S 6x20
24	326 023-01	1	1	1	1	1	1	Washer 6,4x22x4
25	340 117-01	1	1	1	1	1	1	O-ring 17,3x2,4
26	230 034-02	1	1	1	1	1	1	Gearshift lever 89-
27	326 011-01	1	1	1	1	1	1	Washer 6,4x11x0,7
28	406 225-22	1	1	1	1	1	1	Screw (Collar) 6x25

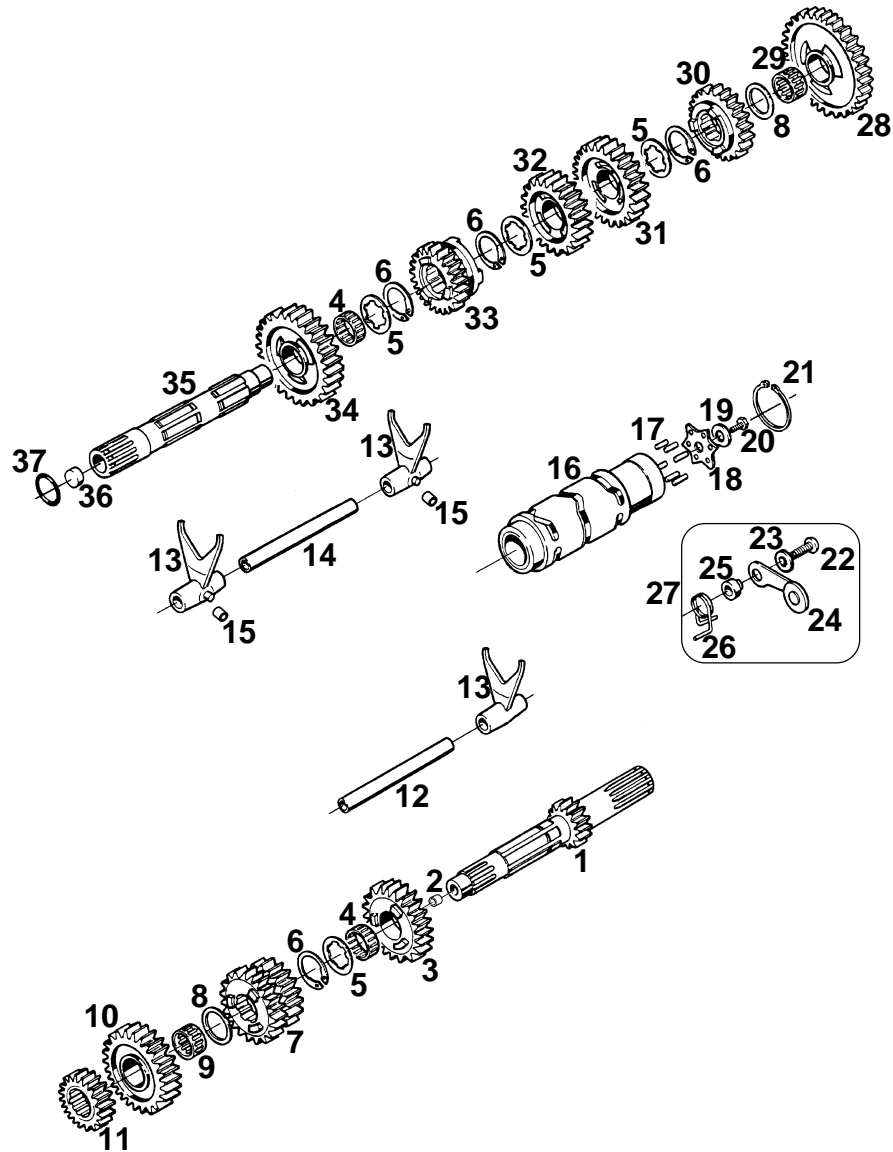


Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	230 142-01	1	1	1	1	1	1	Transmission cover 01- (Incl. Pos. No. 4, 5, 6, 7, 10, 18, 19, 20)
2	220 073-01	1	1	1	1	1	1	Gasket transmission cover 01-
3	220 022-01	2	2	2	2	2	2	Dowl transmission cover 89-
4	350 014-01	1	1	1	1	1	1	Seal ring 18x10x6
5	230 058-01	1	1	1	1	1	1	Bushing gearshift shaft 89-
6	220 043-01	1	1	1	1	1	1	Bushing kickstarter shaft 94-
7	360 034-01	2	2	2	2	2	2	Needle roller bearing 01-
8	220 021-01	1	1	1	1	1	1	Oilfill cap 89-
9	340 024-01	1	1	1	1	1	1	O-ring 24.2x3
10	350 004-01	1	1	1	1	1	1	Seal ring 12x22x6x76.5
11	306 525-22	8	8	8	8	8	8	Screw MC6S 6x25
12	305 516-22	3	3	3	3	3	3	Screw MC6S 5x16
13	220 071-01	1	1	1	1	1	1	Water pump cover 01-
14	220 072-01	1	1	1	1	1	1	Gasket water pump cover 01-
15	330 010-01	1	1	1	1	1	1	Circlip SGA 10
16	210 166-01	1	1	1	1	1	1	Impeller water pump 01-
17	370 006-01	1	1	1	1	1	1	Pin water pump impeller 01-
18	350 000-01	1	1	1	1	1	1	Seal ring 10x18x4x4,8
19	220 074-01	1	1	1	1	1	1	Oil inspection window 01-
20	330 031-01	1	1	1	1	1	1	Lock ring oil inspection window 01-
21	306 530-22	2	2	2	2	2	2	Screw MC6S 6x30

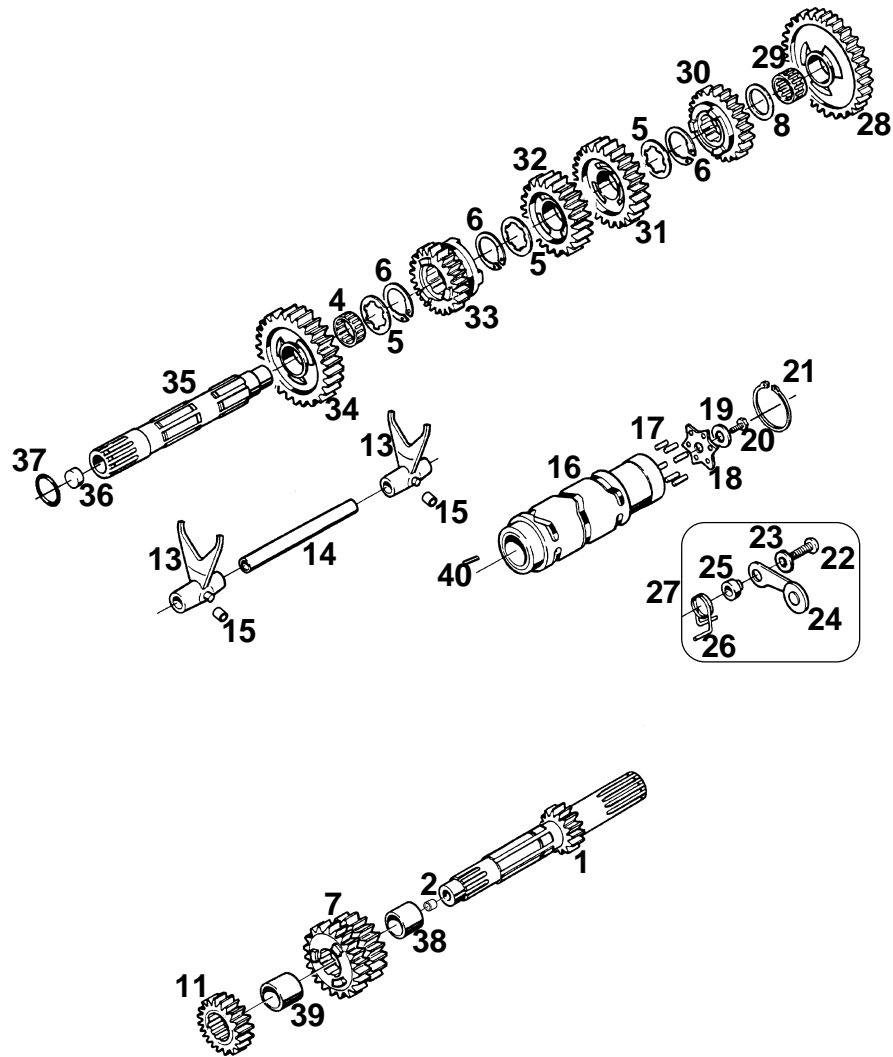


Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	240 101-01	1	1				1	Main gearshaft (Z=14) 01-
2	240 094-01	1	1				1	Bushing 00-
3	240 075-01	1	1				1	5th gear wheel main shaft (Z=24) 01-
4	360 007-01	2	2				2	Needle bearing 22x26x13 94-
5	240 017-01	4	4				4	Support washer 89-
6	330 036-01	4	4				4	Circlip SW 25 89-
7	240 103-01	1	1				1	3rd/4th gear wheel main shaft (Z=19/23) 01-
8	240 018-01	2	2				2	Support washer 89-
9	360 009-01	1	1				1	Needle bearing 20x24x13 94-
10	240 006-01	1	1				1	6th gear wheel main shaft (Z=27) 94-
11	240 002-01	1	1				1	2nd gear wheel main shaft (Z=17) 89-
12	240 008-01	1	1				1	Shift fork shaft front 89-
13	240 004-01	3	3				3	Shift fork 89-
14	240 007-01	1	1				1	Shift fork shaft rear 89-
15	240 093-01	3	3				3	Roller shift fork 00-
16	240 092-01	1	1				1	Shift drum 00-
17	370 018-01	6	6				6	Pin 4x18 89-
18	240 027-01	1	1				1	Positioning star 89-
19	326 025-01	1	1				1	Washer 6x25x1,5
20	306 612-22	1	1				1	Screw M6S 6x12
21	330 030-01	1	1				1	Circlip SW 30 97-
22	306 625-22	1	1				1	Screw M6S 6x25
23	326 016-01	1	1				1	Washer 6x16x1
24	230 075-01	1	1				1	Shift locating lever 89-
25	230 076-01	1	1				1	Sleeve 89-
26	230 077-01	1	1				1	Spring shift locating lever 89-
27	230 078-01	1	1				1	Shift locating lever kit 89- (Incl.Pos. No. 22, 23, 24, 25, 26)
28	240 111-01	1	1				1	1st gear wheel secondary shaft (Z=33) 01-
29	360 010-01	1	1				1	Needle bearing 20x24x10 89-
30	240 065-01	1	1				1	5th gear wheel secondary shaft (Z=22) 94-
31	240 113-01	1	1				1	3rd gear wheel secondary shaft (Z=26) 01-
32	240 114-01	1	1				1	4th gear wheel secondary shaft (Z=25) 01-
33	240 066-01	1	1				1	6th gear wheel secondary shaft (Z=20) 94-
34	240 062-01	1	1				1	2nd gear wheel secondary shaft (Z=30) 94-
35	240 042-01	1	1				1	Secondary shaft 01-
36	210 167-01	1	1				1	Plug 12x7 01-
37	340 022-01	1	1				1	O-ring 22.1x1.6 94-

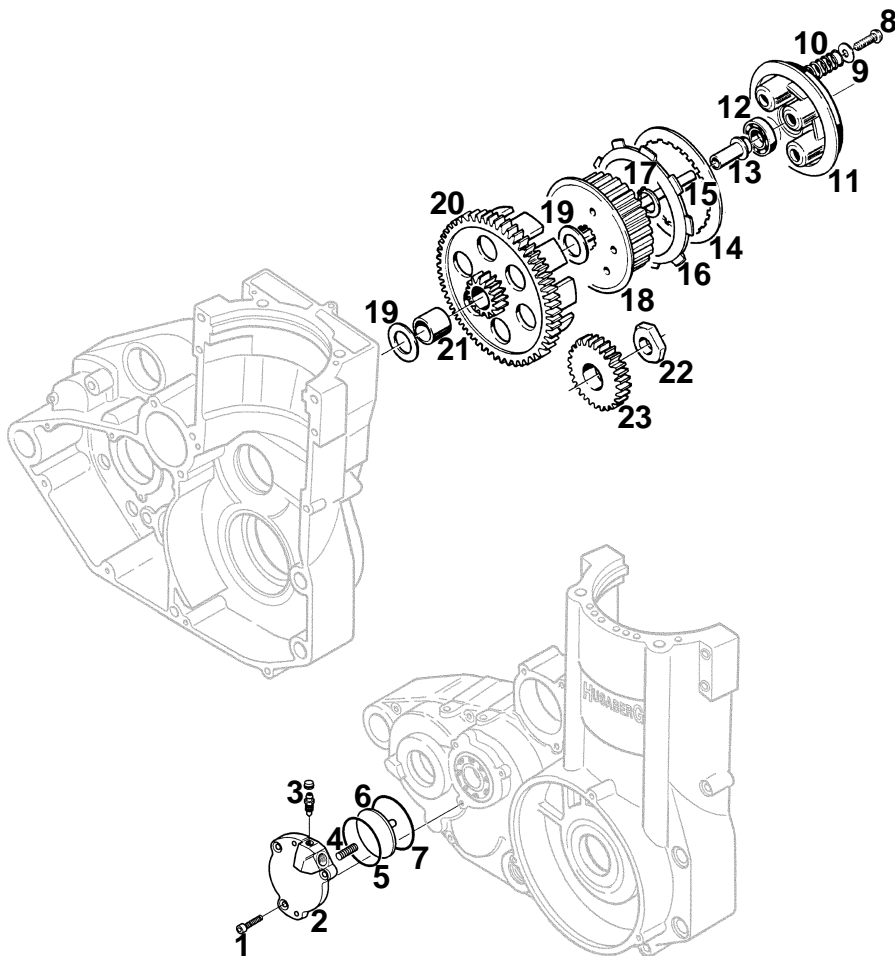




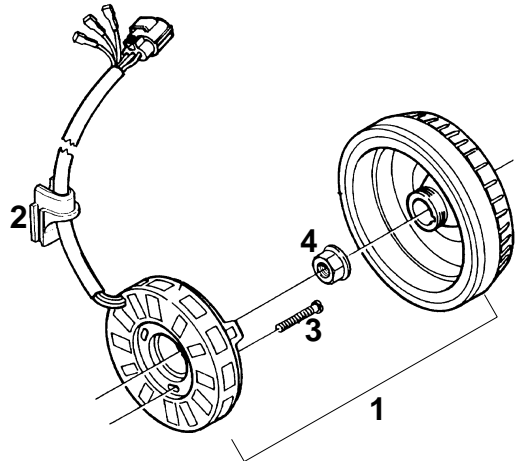
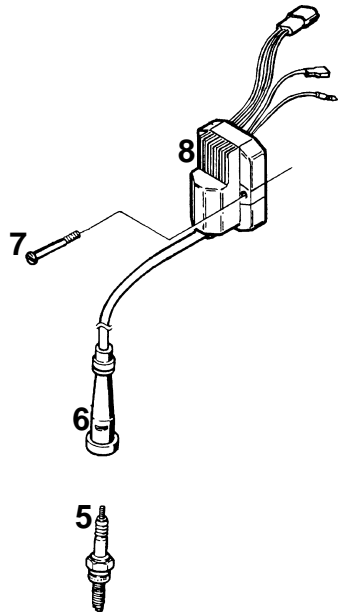
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	240 101-01			1	1	1		Main gearshaft (Z=14) 01-
2	240 094-01			1	1	1		Bushing 00-
3	240 075-01			1	1	1		5th gear wheel main shaft (Z=24) 94-
4	360 007-01			2	2	2		Needle bearing 22x26x13 94-
5	240 017-01			4	4	4		Support washer 89-
6	330 036-01			4	4	4		Circlip SW 25 89-
7	240 103-01			1	1	1		3rd/4th gear wheel main shaft (Z=19/23) 01-
8	240 018-01			2	2	2		Support washer 89-
9	360 009-01			1	1	1		Needle bearing 20x24x13 94-
10	240 076-01			1	1	1		6th gear wheel main shaft (Z=25) 94-
11	240 002-01			1	1	1		2nd gear wheel main shaft (Z=17) 01-
12	240 008-01			1	1	1		Shift fork shaft front 89-
13	240 004-01			3	3	3		Shift fork 89-
14	240 007-01			1	1	1		Shift fork shaft rear 89-
15	240 093-01			3	3	3		Roller shift fork 00-
16	240 092-01			1	1	1		Shift drum 00-
17	370 018-01			6	6	6		Pin 4x18 89-
18	240 027-01			1	1	1		Positioning star 89-
19	326 025-01			1	1	1		Washer 6x25x1,5
20	306 612-22			1	1	1		Screw M6S 6x12
21	330 030-01			1	1	1		Circlip SW 30 97-
22	306 625-22			1	1	1		Screw M6S 6x25
23	326 016-01			1	1	1		Washer 6x16x1
24	230 075-01			1	1	1		Shift locating lever 89-
25	230 076-01			1	1	1		Sleeve 89-
26	230 077-01			1	1	1		Spring shift locating lever 89-
27	230 078-01			1	1	1		Shift locating lever kit 89- (Incl.Pos. No. 22, 23, 24, 25, 26)
28	240 111-01			1	1	1		1st gear wheel secondary shaft (Z=33) 01-
29	360 010-01			1	1	1		Needle bearing 20x24x10 89-
30	240 065-01			1	1	1		5th gear wheel secondary shaft (Z=22) 94-
31	240 113-01			1	1	1		3rd gear wheel secondary shaft (Z=26) 01-
32	240 114-01			1	1	1		4th gear wheel secondary shaft (Z=25) 01-
33	240 086-01			1	1	1		6th gear wheel secondary shaft (Z=21) 94-
34	240 062-01			1	1	1		2nd gear wheel secondary shaft (Z=30) 01-
35	240 042-01			1	1	1		Secondary shaft 01-
36	210 167-01			1	1	1		Plug 12x7 01-
37	340 022-01			1	1	1		O-ring 22.1x1.6 94-



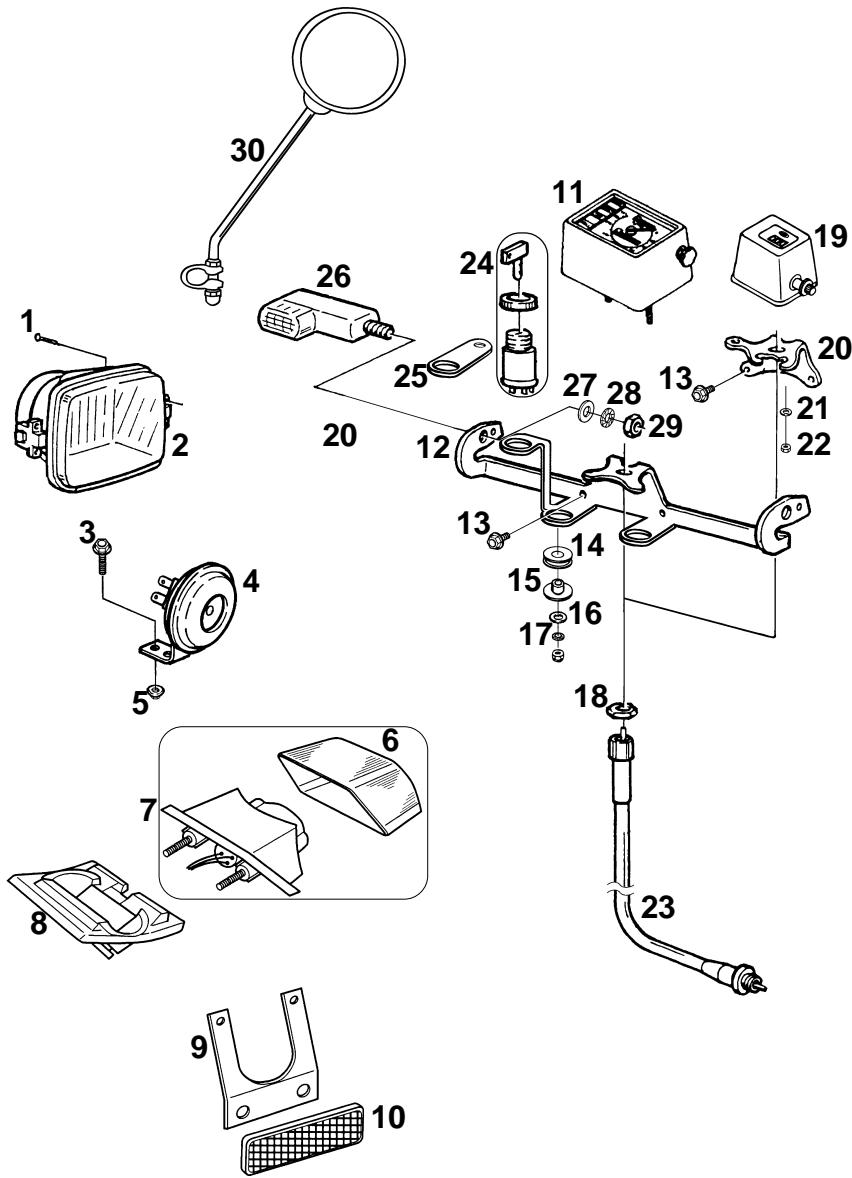
Pos.	Part No	Qty/Model					Description
		FEe	FSe	FSc	FC	FCe	
1	240 101-01				1		Main gearshaft (Z=14) 01-
2	240 094-01				1		Bushing 00-
3	240 075-01				1		5th gear wheel main shaft (Z=24) 94-
4	360 007-01				1		Needle bearing 22x26x13 94-
5	240 017-01				3		Support washer 89-
6	330 036-01				3		Circlip SW 25 89-
7	240 103-01				1		3rd/4th gear wheel main shaft (Z=19/23) 01-
8	240 018-01				1		Support washer 89-
11	240 002-01				1		2nd gear wheel main shaft (Z=17) 01-
13	240 004-01				2		Shift fork 89-
14	240 007-01				1		Shift fork shaft rear 89-
15	240 093-01				2		Roller shift fork 00-
16	240 092-01				1		Shift drum 00-
17	370 018-01				6		Pin 4x18 89-
18	240 027-01				1		Positioning star 89-
19	326 025-01				1		Washer 6x25x1,5
20	306 612-22				1		Screw M6S 6x12
21	330 030-01				1		Circlip SW 30 97-
22	306 625-22				1		Screw M6S 6x25
23	326 016-01				1		Washer 6x16x1
24	230 075-01				1		Shift locating lever 89-
25	230 076-01				1		Sleeve 89-
26	230 077-01				1		Spring shift locating lever 89-
27	230 078-01				1		Shift locating lever kit 89- (Incl.Pos. No. 22, 23, 24, 25, 26)
28	240 111-01				1		1st gear wheel secondary shaft (Z=33) 01-
29	360 010-01				1		Needle bearing 20x24x10 89-
30	240 065-01				1		5th gear wheel secondary shaft (Z=22) 94-
31	240 113-01				1		3rd gear wheel secondary shaft (Z=26) 01-
32	240 114-01				1		4th gear wheel secondary shaft (Z=25) 01-
33	240 086-01				1		6th gear wheel secondary shaft (Z=21) 94-
34	240 062-01				1		2nd gear wheel secondary shaft (Z=30) 01-
35	240 042-01				1		Secondary shaft 01-
36	210 167-01				1		Plug 12x7 01-
37	340 022-01				1		O-ring 22.1x1.6 94-
38	240 036-01				1		Spacer 4-speed gearbox 94- (Instead of 5th gear wheel)
39	240 037-01				1		Spacer 4-speed gearbox 94- (Instead of 6th gear wheel)
40	370 002-01				1		Pin 5th & 6th gear position



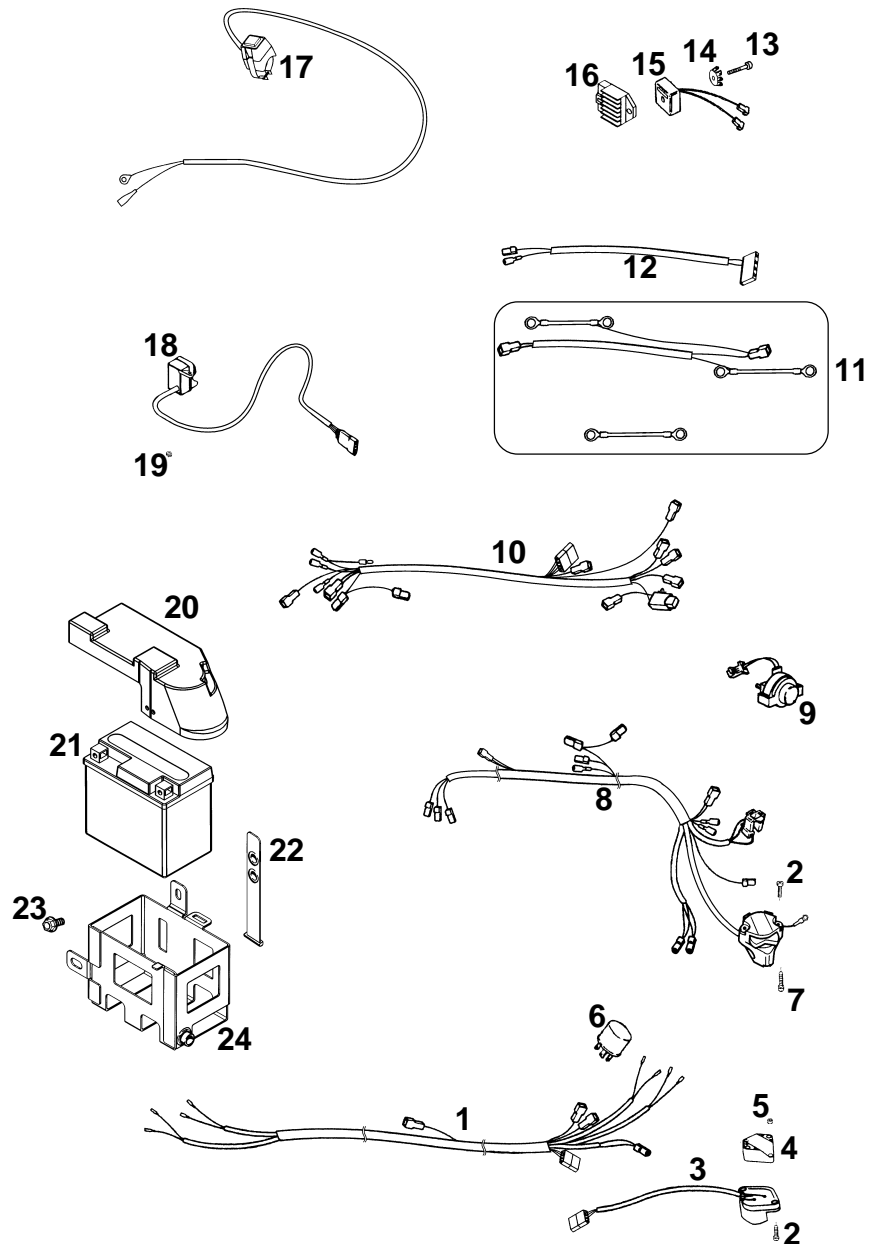
Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	305 512-22	1	1	1	1	1	1	Screw MC6S 5x12
2	230 133-01	1	1	1	1	1	1	Cover clutch cylinder 00-
3	170 074-01	1	1	1	1	1	1	Air nipple 00-
4	230 129-01	1	1	1	1	1	1	Return spring 00-
5	340 029-01	1	1	1	1	1	1	O-ring piston 00-
6	230 134-01	1	1	1	1	1	1	Clutch piston 00-
7	340 053-01	1	1	1	1	1	1	O-ring cover 00-
8	306 625-22	6	6	6	6	6	6	Screw M6S 6x25
9	230 074-01	6	6	6	6	6	6	Clutchspring retainer 89-
10	230 118-01	6	6	6	6	6	6	Clutch spring 400/501 00-
10	230 007-01	6	6	6	6	6	6	Clutch spring 470/550/650 00-
11	230 011-01	1	1	1	1	1	1	Pressure plate clutch hub 89-
12	360 025-01	1	1	1	1	1	1	Rollerbearing
13	230 117-01	1	1	1	1	1	1	Pressure sleeve disengaging pushrod 97-
14	230 094-01	8	8	8	8	8	8	Mating plate, steel 89-
15	230 067-02	1	1	1	1	1	1	Disengaging pushrod 00-
16	230 073-01	7	7	7	7	7	7	Friction plate 89-
17	330 025-01	1	1	1	1	1	1	Circlip SGA 25 89-
18	230 006-01	1	1	1	1	1	1	Clutchhub inner 89-
19	230 040-01	2	2	2	2	2	2	Support washer bushing clutchhub 89-
20	230 002-01	1	1	1	1	1	1	Clutch hub outer 89-
21	230 004-01	1	1	1	1	1	1	Bushing clutchhub bronze 89-
22	230 132-01	1	1	1	1	1	1	Nut intermediate gear wheel 01-
23	230 130-01	1	1	1	1	1	1	Intermediate gear wheel crankshaft/clutch 01-



Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	250 272-01	1	1		1	1	1	Ignition complete 01- (Ex.ignition coil)
1	250 272-02			1				Ignition complete 01- (Ex.ignition coil)
2	250 199-01	1	1	1	1	1	1	Conduit entry 99-
3	305 530-22	3	3	3	3	3	3	Screw MC6S 5x30
4	250 203-01	1	1	1	1	1	1	Flywheel nut 99-
5	250 239-01	1	1	1	1	1	1	Sparkplug NGK DCPR8E 00-
6	250 237-01	1	1	1	1	1	1	Sparkplug cap 00-
7	305 525-22	2	2	2	2	2	2	Screw MC6S 5x25
8	250 251-01	1	1					Ignition coil 400 e/501 e 01-
8	250 269-01			1	1	1	1	Ignition coil 400c/470/470 e 01-
8	250 253-01				1			Ignition coil 550 01-
8	250 254-01	1	1	1			1	Ignition coil 650 01-

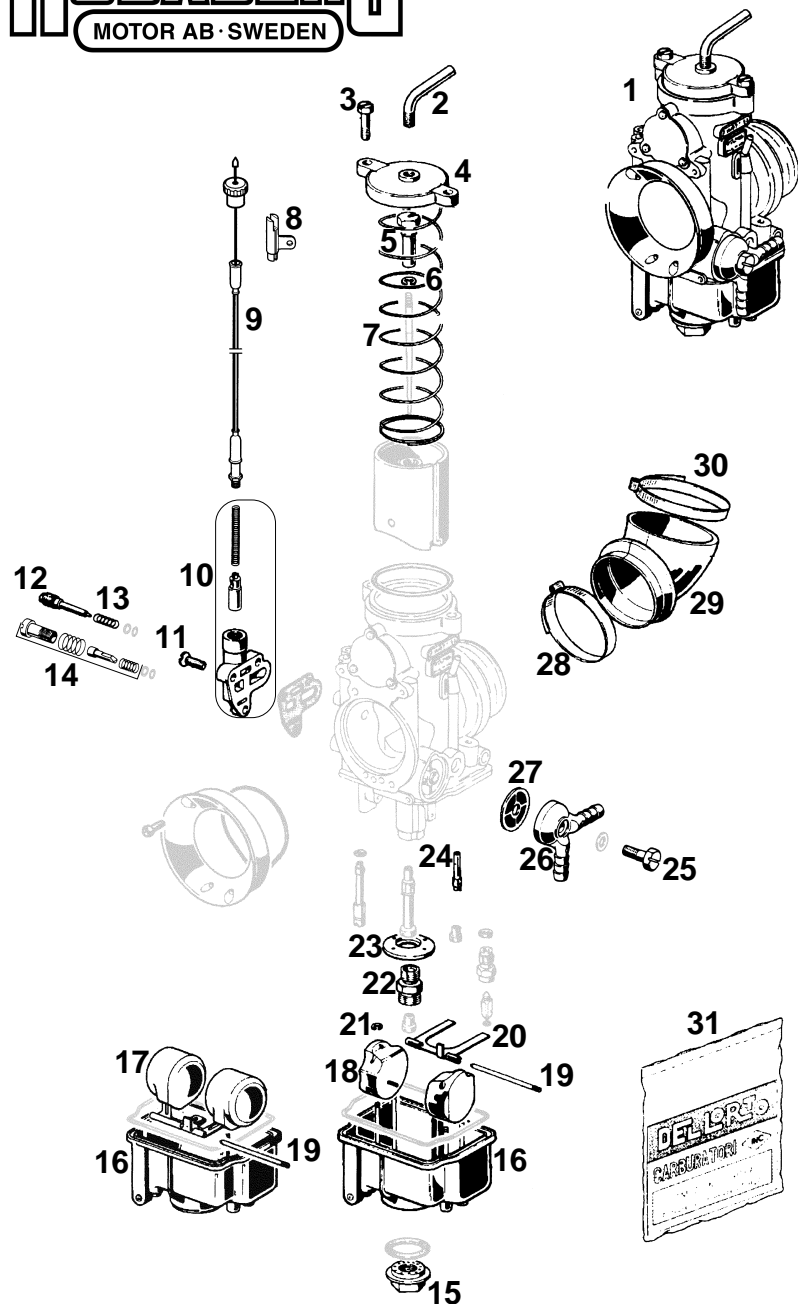


Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	306616-22	2	2					Screw M6S 6x16
2	180060-01	1	1					Headlight reflector 96- ECE-approved
2	180061-01	1	1					Headlight reflector 96- Plastic lens
2	180100-01	1	1					Headlight reflector 96- Left hand traffic
3	406115-22	1	1					Screw (Collar) 6x15
4	180104-01	1	1					Horn 98-
5	316811-22	1	1					Lock nut M6
6	180149-01	1	1					Lens tail light 00-
7	180148-01	1	1					Tail light 00- (Incl. Pos. No. 6)
8	180160-01	1	1					Rubber rear fender /rear light 00-
9	180159-01	1	1					Bracket reflex 00-
10	180155-01	1	1					Reflex 00-
11	180120-01	1	1					Speedometer 99-
12	180133-01	1	1					Bracket speedometer 99-
13	406110-22	2	2					Screw (Collar) 6x10
14	180138-01	2	2					Rubber bushing 99-
15	180137-01	2	2					Plastic spacer 99-
16	326013-01	2	2					Washer 6,7x14x1,5
17	326011-01	2	2					Washer 6,4x11x0,7
18	180076-01	1	1					Attachment nut speedometer 89-
19	180089-01	1	1					Odometer 97- (US-versions only)
20	180077-01	1	1					Bracket odometer 89-
21	324012-01	2	2					Washer 4,3x12x1
22	304801-01	2	2					Lock nut M4
23	180139-01	1	1					Speedometer wire 99-
23	180091-01	1	1					Odometer wire 97-
24	180169-01	1	1			1	1	Ignition lock 95-
25	180188-01	1	1			1	1	Bracket ignition lock 00-
26	180065-01	2	2					Turn signal R rear, L front 89-
26	180065-02	2	2					Turn signal L rear, R front 89-
27	320017-01	4	4					Washer 10,5x18x0,9
28	320018-01	4	4					Washer 10,5x18x2
29	310800-22	4	4					Nut M10
30	190020-01	1/2	1/2					Rear view mirror 99-

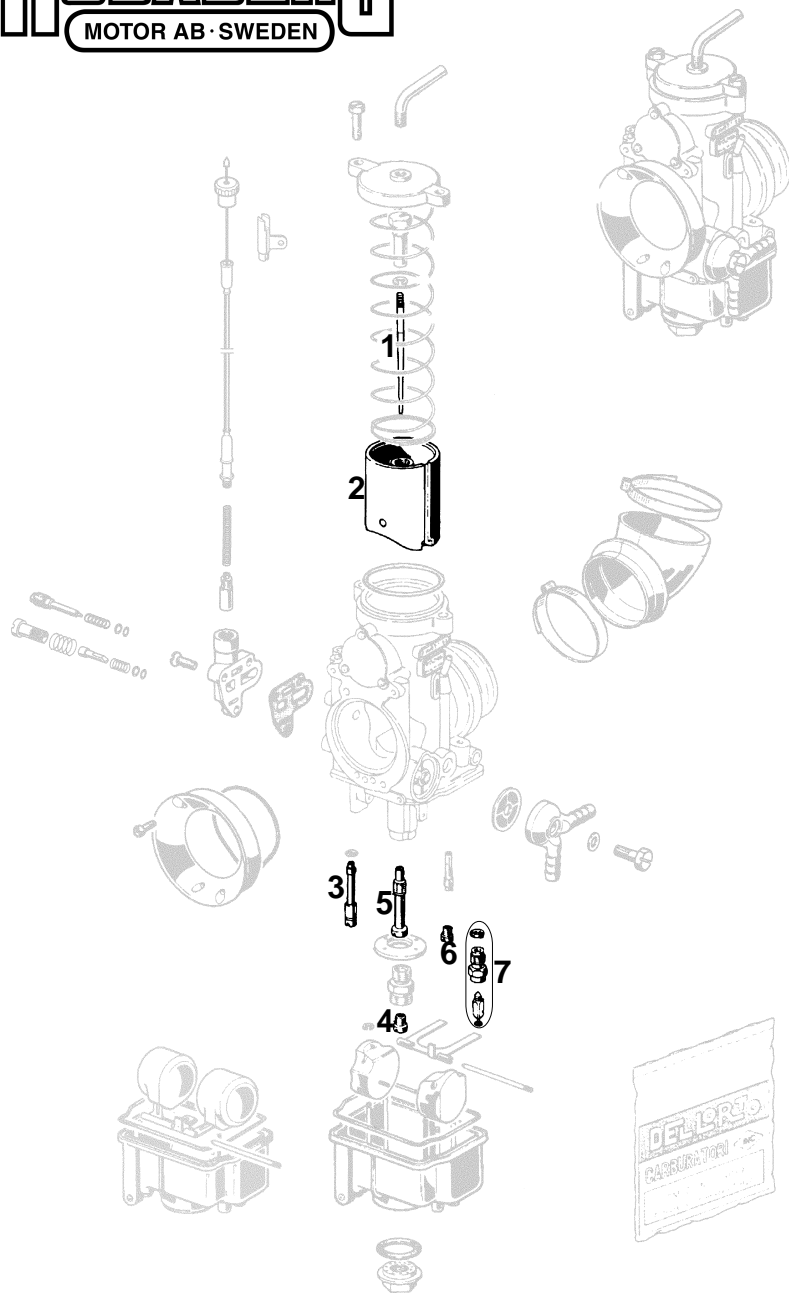


Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	180 177-01	1	1					Wiring harness turn signals 01-
2	304 414-62	4	4					Screw 4x14 MRX (No turn signals - 2 pcs)
3	180 175-01	1	1					Switch turn signals incl. wire 01-
4	180 176-01	1	1					Bracket turn signals 01-
5	314 002-22	2	2					Nut M4
6	180 026-01	1	1					Turn signal relay 89-
7	304 420-62	2	2					Screw 4x20 MRX
8	180 181-01	1	1					Wiring harness 01-
9	180 095-01	1	1			1	1	Starter relay 95-
10	180 180-01	1	1			1	1	Wiring harness electrical starter main part 01-
11	180 179-01	1	1			1	1	Wiring harness electrical starter battery part 01-
12	180 178-01			1	1			Wiring harness 01-
13	306 535-22	1	1			1	1	Screw MC6S 6x35
14	180 184-01	1	1			1	1	Ground contact star ring 01-
15	180 019-01	1	1			1	1	Voltage regulator 89-
16	180 172-01	1	1			1	1	Rectifier 01-
17	190 009-01			1	1	1	1	Engine short circuit button incl. wire 01-
18	170 094-01	1	1	1	1	1	1	High/Low ignition switch 01-
19	140 051-01	1	1	1	1	1	1	Spacer High/Low switch 01-
20	180 173-01	1	1			1	1	Cover battery 01-
21	180 168-01	1	1			1	1	Battery 01-
22	180 174-01	1	1			1	1	Strap battery 01-
23	406 110-22	1	1			1	1	Screw (Collar) 6x10
24	180 167-01	1	1			1	1	Battery box 01-

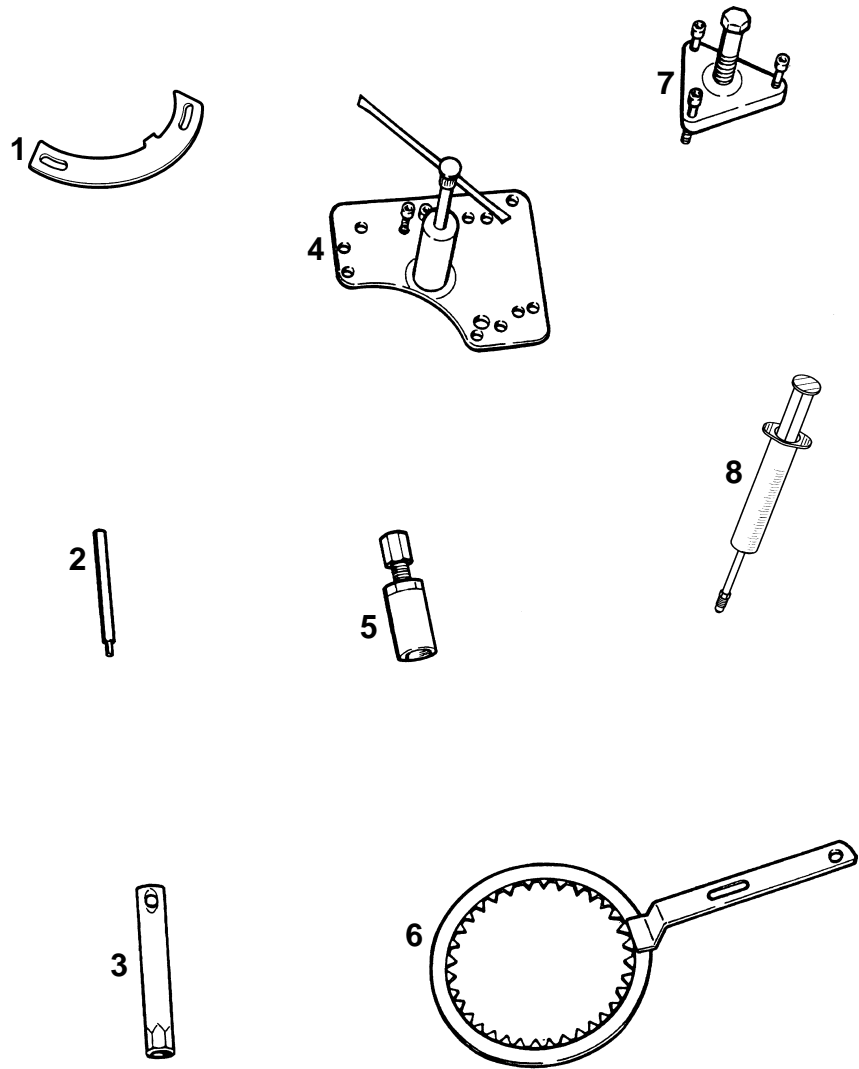




Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	250 151-01	1	1					Carburettor ø 38 mm (Only FE 400 e/FS 400 e)
1	250 152-01	1	1	1	1	1	1	Carburettor ø 40 mm
2	250 045-02	1	1	1	1	1	1	Tube bend
3	250 046-01	2	2	2	2	2	2	Screw throttle cover
4	250 169-01	1	1	1	1	1	1	Throttle cover
5	250 101-01	1	1	1	1	1	1	Needle holder
6	250 102-01	1	1	1	1	1	1	Clips needle
7	250 170-01	1	1	1	1	1	1	Spring throttle
8	250 228-01	1	1	1	1	1	1	Choke bracket 00-
9	250 227-01	1	1	1	1	1	1	Choke wire 00-
10	250 052-02	1	1	1	1	1	1	Choke complete 00-
11	250 053-01	3	3	3	3	3	3	Screw choke 00-
12	250 171-01	1	1	1	1	1	1	Mixture screw
13	250 063-01	1	1	1	1	1	1	Spring mixture screw
14	250 276-01	1	1	1	1	1	1	Idling screw complete
15	250 043-01	1	1	1	1	1	1	Drain plug
16	250 182-01	1	1	1	1	1	1	Float chamber
17	250 167-01	1	1	1	1	1	1	Float (double type)
18	250 168-01	2	2	2	2	2	2	Float (single type)
19	250 179-01	1	1	1	1	1	1	Cotter float
20	250 181-01	1	1	1	1	1	1	Fork float
21	250 180-01	1	1	1	1	1	1	Clips float
22	250 176-01	1	1	1	1	1	1	Main jet support
23	250 175-01	1	1	1	1	1	1	Stabilizer washer
24	250 194-01	1	1	1	1	1	1	Mixture jet tube
25	250 178-01	1	1	1	1	1	1	Screw fuel line inlet
26	250 177-02	1	1	1	1	1	1	Fuel line inlet
27	250 070-01	1	1	1	1	1	1	Fuel filter
28	150 003-01	1	1	1	1	1	1	Clamp airfilter tube/carburettor
29	150 064-01	1	1	1	1	1	1	Airfilter tube
30	150 077-01	1	1	1	1	1	1	Clamp airfilter tube/frame
31	250 076-01	1	1	1	1	1	1	Gasket kit



Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	250 024-01							Needle K 32
1	250 144-01							Needle K 35
1	250 163-01							Needle K 51
2	250 160-01							Throttle 40
2	250 161-01							Throttle 45
2	250 162-01							Throttle 50
3	250 095-01							Start jet 40
3	250 096-01							Start jet 45
3	250 097-01							Start jet 50
4	250 267-01							Main jet 100
4	250 242-01							Main jet 110
4	250 183-01							Main jet 172
4	250 015-01							Main jet 175
4	250 016-01							Main jet 180
4	250 017-01							Main jet 185
4	250 018-01							Main jet 190
4	250 019-01							Main jet 195
4	250 020-01							Main jet 200
4	250 221-01							Main jet 210
5	250 241-01							Needle jet DR 264
5	250 196-01							Needle jet DR 266
5	250 219-01							Needle jet DR 268
5	250 165-01							Needle jet DR 270
5	250 164-01							Needle jet DR 272
5	250 166-01							Needle jet DR 274
6	250 089-01							Pilot jet 33
6	250 092-01							Pilot jet 35
6	250 093-01							Pilot jet 40
6	250 029-01							Pilot jet 45
6	250 030-01							Pilot jet 48
6	250 031-01							Pilot jet 50
6	250 032-01							Pilot jet 52
6	250 033-01							Pilot jet 55
7	250 034-01							Float needlejet 300
7	250 098-01							Float needlejet 350



Pos.	Part No	Qty/Model						Description
		FEe	FSe	FSc	FC	FCe	FXe	
1	270 030-01							Holding tool flywheel 99-
2	270 012-01							Drift removing valve guide
3	270 001-01							Sparkplug wrench
4	270 011-01							Puller crankcase
5	270 028-01							Puller flywheel 99-
6	270 007-01							Holding tool
7	270 005-01							Puller clutch
8	270 032-01							Air bleed syringe clutch

# MAINTENANCE SCHEDULE

**Please observe:**  
**Riding under hard conditions demands more frequent maintenance**

## FSc/FC/FCe/FXe

SUBJECT / HOURS	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
<b>CHASSIS</b>																					
Front fork oil *		R		R		R		R		R		R		R		R		R		R	
Brake fluid *		R		R		R		R		R		R		R		R		R		R	
Swingarm bearings/bushings					I					I				I				I			I
Shockabsorber bushings		I		I		I		I		I		I		I		I		I		I	
Steering head bearings					I					I				I				I			I
Wheel bearings		I		I		I		I		I		I		I		I		I		I	

## FEE/FSe

SUBJECT / HOURS	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
<b>CHASSIS</b>																					
Front fork oil *		R		R		R		R		R		R		R		R		R		R	
Brake fluid *		R		R		R		R		R		R		R		R		R		R	
Swingarm bearings/bushings					I					I				I				I			I
Shockabsorber bushings		I		I		I		I		I		I		I		I		I		I	
Steering head bearings					I					I				I				I			I
Wheel bearings		I		I		I		I		I		I		I		I		I		I	

**C: Clean - I: Inspect - R: Replace - \*Maximum 12 months interval**

## Please read and observe the following:

### Warning

If the engine has to be running during any maintenance, make sure that the area is properly ventilated. Never run the engine in a closed area though the exhaust fumes are poisonous and thus hazardous to your health and life.

Although the battery is of a sealed construction, please take care. The electrolyte contains sulfuric acid and you must protect your eyes, skin and clothing if such fluid is assumed to be leaking or likewise exposed. In case of contact, wash and flush thoroughly with water and contact medical help if needed, especially if your eyes have been exposed to the fluid.

Fuel is extremely flammable and explosive under certain conditions. Do not smoke or expose the fuel to open fire or sparks.

# MAINTENANCE SCHEDULE

**Please observe:**  
**Riding under hard conditions demands more frequent maintenance**

## FSc/FC/FCe/FXe

SUBJECT / HOURS	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
<b>REGULAR</b>																					
Engine oil	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Oil screen	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Oil microfilter		R		R		R		R		R		R		R		R		R		R	
Oil pump incl. reed valve										I/C											I/C
Coolant liquid *																					
Spark plug (incl. cap)					I					R					I						R
Alternator/Ignition **										I											I
Valve clearance		I		I		I		I		I		I		I		I		I		I	I
Valves incl. guides & sealings																					I
Timing chain										R											R
Piston incl. rings & pin															R						
Cylinder lining										I											I
Connecting rod & crankshaft pin															R						
Clutch mechanism incl. discs					I					I					I						I
Clutch center					I					R					I						R
Carburettor ** / ***					I/C					I/C					I/C						I/C
Kickstart mechanism										I											I
Gearshift mechanism										I											I
EL: Freewheel mechanism										I											I
<b>BEARINGS</b>																					
Connecting rod															R						
Crankshaft										R											R
Gearbox main shaft										I											R
Gearbox secondary shaft										I											R
Shift drum										I											R
Camshaft										I											R
Clutch pressure plate										I											R
Kickstart gear wheel										I											R
Intermediate gear wheel										I											R
Rockerarms					R					R					R						R
Intermediate shaft counter bal.					R					R					R						R
Counter balancer					R					R					R						R
<b>BUSHINGS</b>																					
Connecting rod															R						
Rockerarms										I											I
Kickstart shaft										I											I
Clutch shaft					I					R					I						R

**C: Clean - I: Inspect - R: Replace**

\* Maximum 12 months interval - \*\* Clean whenever the engine has been washed - \*\*\* I(R): Especially needle and needle jet

# MAINTENANCE SCHEDULE

Please observe:

Riding under hard conditions demands more frequent maintenance

FEE/FSe

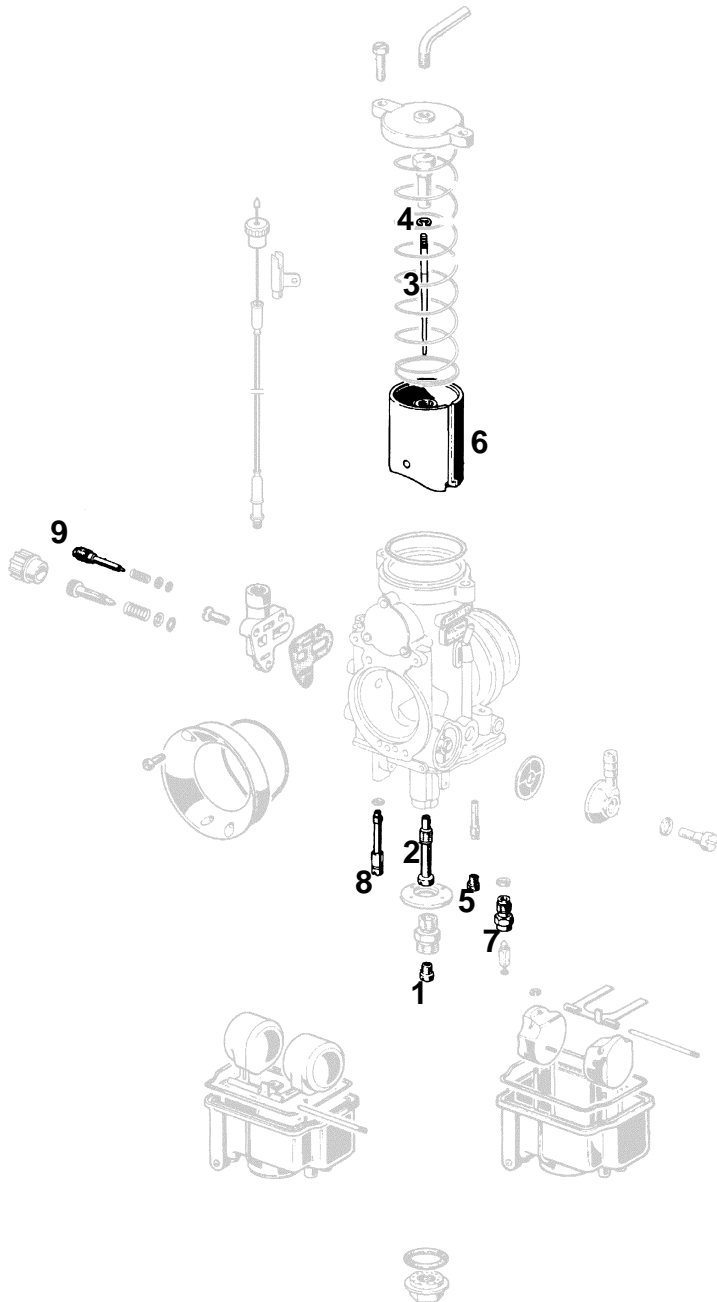
SUBJECT / HOURS	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
<b>REGULAR</b>																					
Engine oil	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Oil screen	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Oil microfilter	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Oil pump incl. reed valve										I/C											I/C
Coolant liquid *																					
Spark plug (incl. cap)					I					R					I						R
Alternator/Ignition **										I											I
Valve clearance		I		I		I		I		I		I		I		I		I		I	I
Valves incl. guides & sealings																					I
Timing chain										R											R
Piston incl. rings & pin										I											R
Cylinder lining										I											R
Connecting rod & crankshaft pin										R											R
Clutch mechanism incl. discs					I					I											R
Clutch center					I					R						I					R
Carburettor ** / ***					I/C					I/C					I/C						I/C
Kickstart mechanism										I											I
Gearshift mechanism										I											I
EL: Freewheel mechanism										I											I
<b>BEARINGS</b>																					
Connecting rod										R											R
Crankshaft										R											R
Gearbox main shaft										I											R
Gearbox secondary shaft										I											R
Shift drum										I											R
Camshaft										I											R
Clutch pressure plate										I											R
Kickstart gear wheel										I											R
Intermediate gear wheel										I											R
Rockerarms					R					R					R						R
Intermediate shaft counter bal.					R					R					R						R
Counter balancer					R					R					R						R
<b>BUSHINGS</b>																					
Connecting rod										R											R
Rockerarms										I											I
Kickstart shaft										I											I
Clutch shaft					R					R					R						R

C: Clean - I: Inspect - R: Replace

\* Maximum 12 months interval - \*\* Clean whenever the engine has been washed - \*\*\* I(R): Especially needle and needle jet

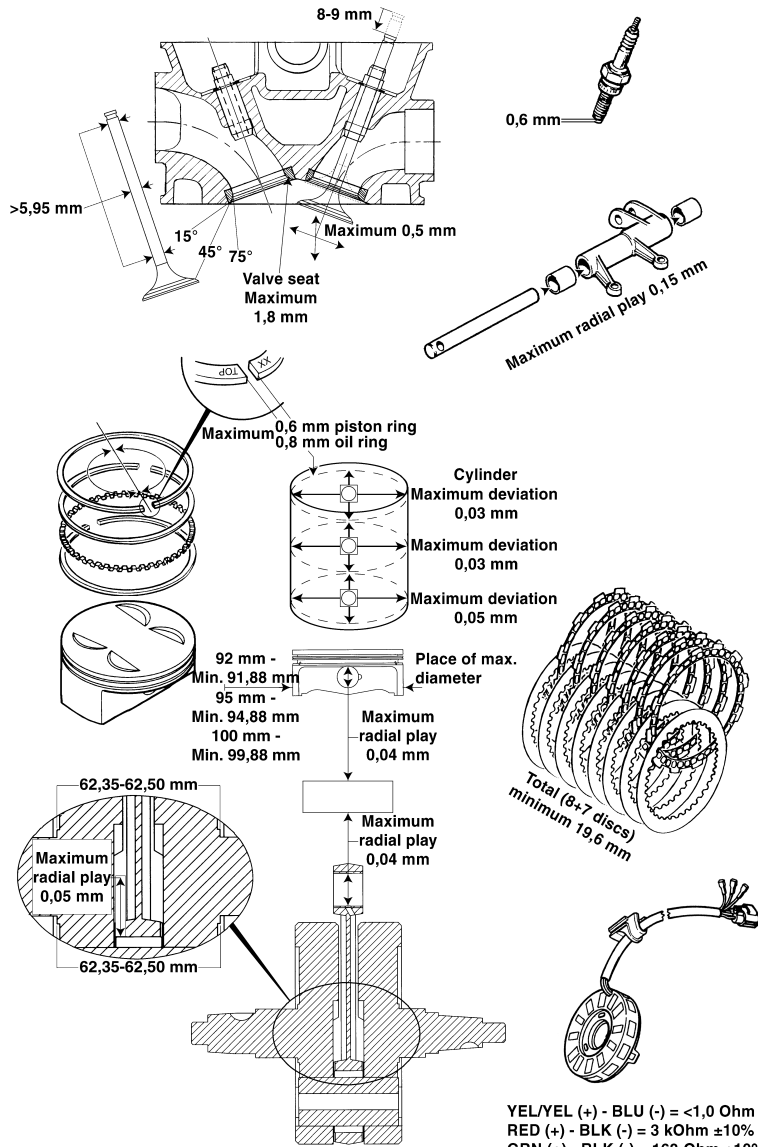


## CARBURETTOR STD. JETTING



MODEL/SUBJECT		Main jet	Needle jet	Needle	Needle clippos.	Pilot jet	Throttle	Float valve	Start jet	Mixture screw
Exploded view number		# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9
Enduro	FE 400 e	190	DR 270	K 35	#3	35	40	300	45	2 turns
	FE 501 e	185	DR 270	K 35	#3	35	40	300	45	1½ turns
	FE 650 e	190	DR 270	K 35	#3	33	40	300	45	1½ turns
Enduro ECE	FE 400 e	110	DR 266	K 51	#2	48	40	300	45	½ turn
	FE 501 e	110	DR 264	K 35	#4	33	40	300	45	½ turn
	FE 650 e	100	DR 266	K 51	#3	33	40	300	45	½ turn
Enduro USA	FE 400 e	190	DR 270	K 51	#3	38	40	300	45	2 turns
	FE 501 e	185	DR 270	K 51	#3	33	40	300	45	1½ turns
	FE 650 e	190	DR 270	K 35	#3	33	40	300	45	1½ turns
Super Motard Street	FS 400 e	190	DR 270	K 35	#2	35	40	300	45	2 turns
	FS 650 e	190	DR 270	K 35	#3	33	40	300	45	1½ turns
Super Motard Street ECE	FS 400 e	110	DR 266	K 51	#3	48	40	300	45	½ turn
	FS 650 e	100	DR 266	K 51	#3	33	40	300	45	½ turn
Super Motard Street USA	FS 400 e	190	DR 270	K 51	#3	38	40	300	45	2 turns
	FS 650 e	190	DR 270	K 35	#3	33	40	300	45	1½ turns
Super Motard Competition	FS 400 c	190	DR 272	K 35	#3	33	40	300	45	1½ turns
	FS 650 c	190	DR 270	K 35	#3	33	40	300	45	1½ turns
Cross Country	FX 470 e	190	DR 266	K 35	#3	33	30	300	45	1½ turns
	FX 650 e	190	DR 270	K 35	#3	33	40	300	45	1½ turns
Motocross	FC 470	190	DR 266	K 35	#3	33	30	300	45	1½ turns
	FC 550	200	DR 272	K 35	#3	33	40	300	45	1½ turns
	FC 470 e	190	DR 266	K 35	#3	33	30	300	45	1½ turns

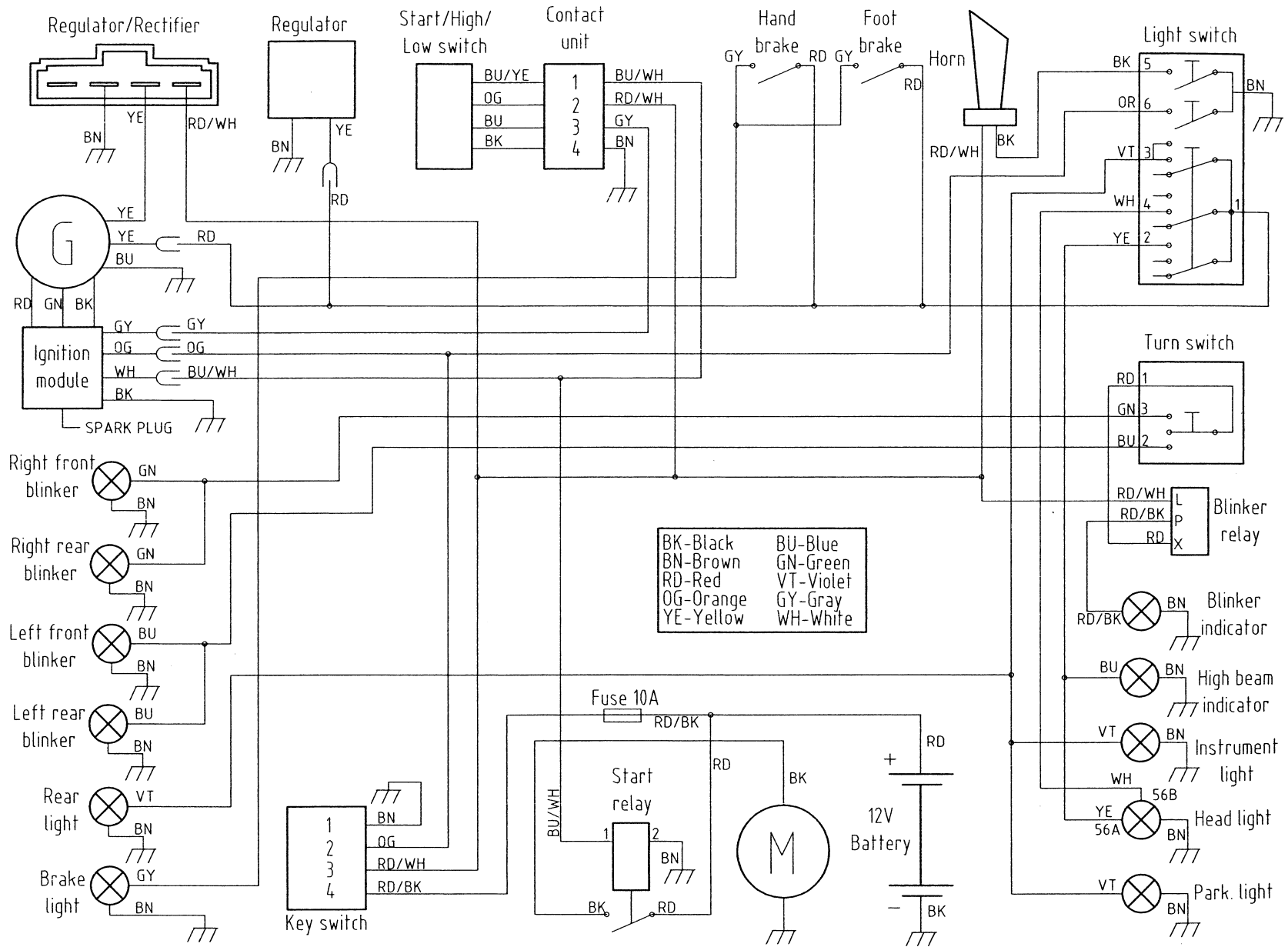
## WEAR LIMITS & TORQUE VALUES



SUBJECT	TORQUE							NOTE
	M4	M5	M6	M8	M10	M12	M16	
Intake manifold screws								
Oil filter cover screws								
Reed valve screws								Apply a threadlock liquid
Valve inspection cover screws								
Waterpump cover screws								
Stator screws								
Crankcase screws								
Exhaust pipe screws								
Gearshift lever screw								
Kick start lever screw								Apply a threadlock liquid
Valve cover screws								
Oil drain plug								
Spark plug								
Valve adjustment lock nuts								
Front fork triple clamp screws lower (M8)								
Front fork triple clamp screws upper (M8)								
Upper timing sprocket screws								Apply a threadlock liquid
Cylinderstud nuts								
Flywheel nut								Left-hand thread
Intermediate gear wheel nut								Apply a threadlock liquid
Primary gear wheel nut								Apply a threadlock liquid
Swingarm shaft nuts								
Standard torque values	M4	M5	M6	M8	M10	M12	M16	
	6 Nm	8 Nm	10 Nm	25 Nm	40 Nm	40 Nm	125 Nm	

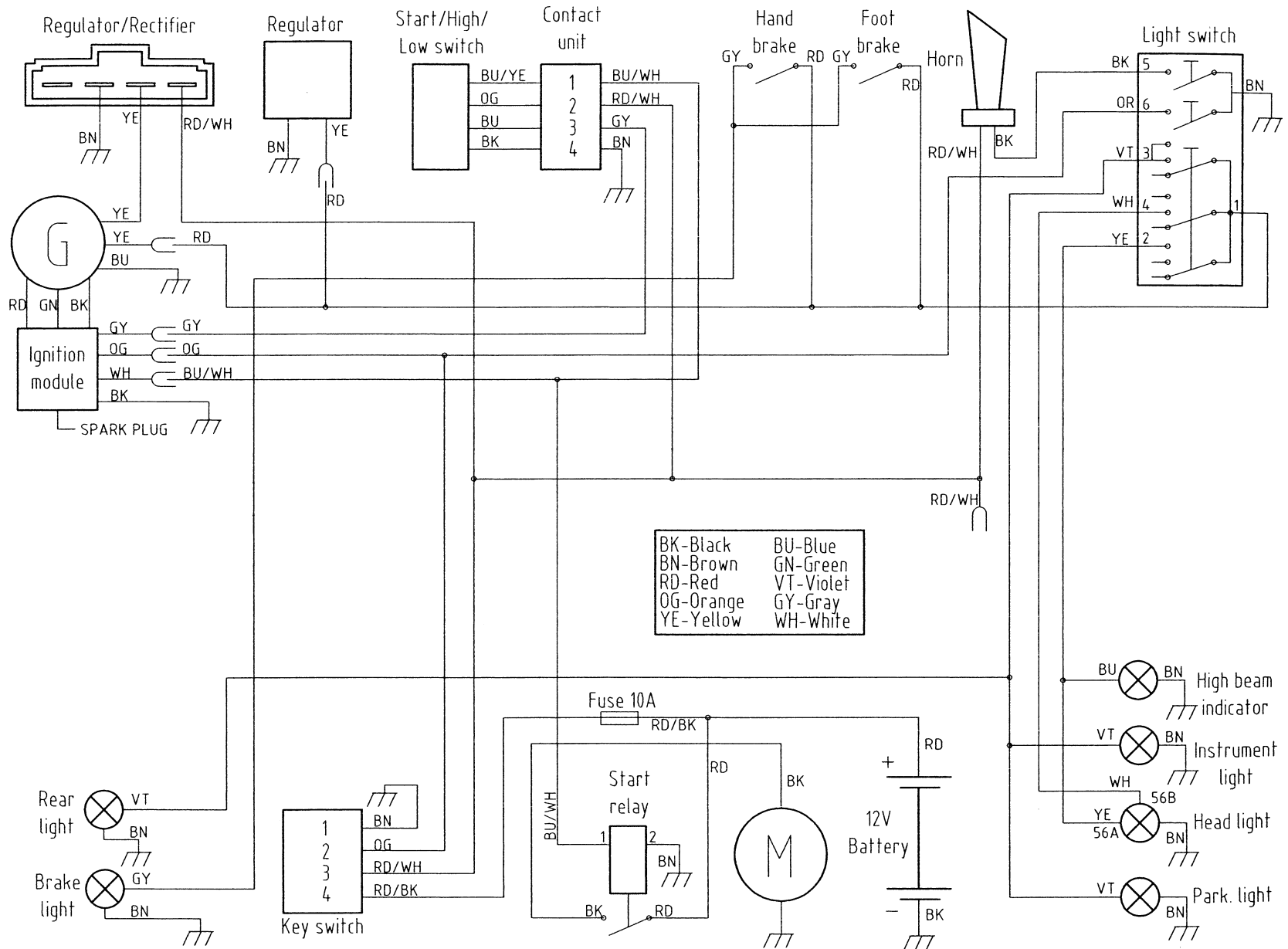
## WIRING HARNESS

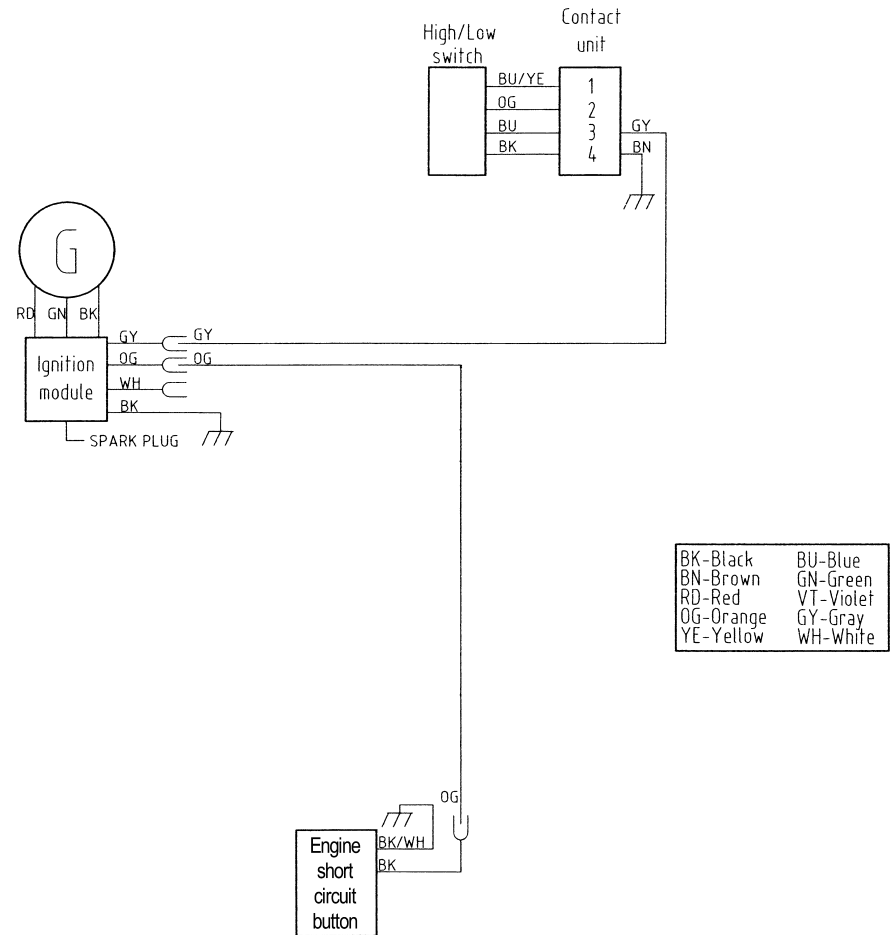
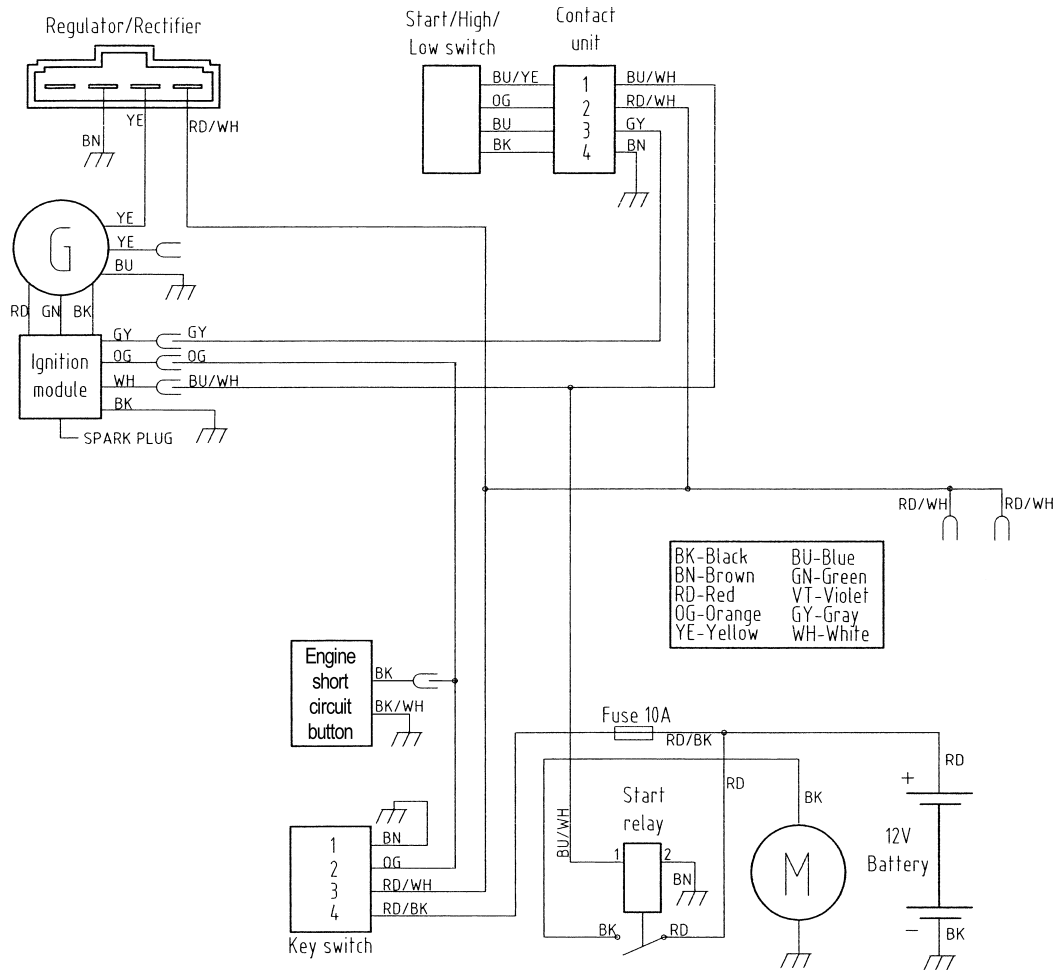
### FEE/FSe - with turn signals



## WIRING HARNESS

### FEE/FSe - without turn signals





# SPECIFICATIONS

SUBJECT/MODEL	FE 400 e	FE 501 e	FE 650 e	FS 400 e	FS 650 e	FS 400 c	FS 650 c	FC 470/6	FC 550/4	FC 550/6	FC 470 e	FX 470 e	FX 650 e	
Displacement	399cc	501cc	644cc	399cc	644cc	399cc	644cc	472cc	550cc	550cc	472cc	472cc	644cc	
Bore x Stroke (mm)	92 x 60,1	95 x 70,7	100 x 82,0	92 x 60,1	100 x 82,0	92 x 60,1	100 x 82,0	100 x 60,1	100 x 70,0	100 x 70,7	100 x 60,1	100 x 60,1	100 x 82,0	
Compression ratio	12,5:1	11,8:1	11,0:1	12,5:1	11,0:1	12,5:1	11,0:1	12,4:1	12,7:1	12,7:1	12,4:1	12,4:1	11,0:1	
Start system	Electrical and kick-starter					Kick-starter					Electrical and kick-starter			
Decompression system	Three separate ones; one activated by the kickstart lever, one activated by the camshaft and one activated by a lever on the handlebar													
Decomp. cable clearance	2mm ± 1mm / 0,08 in ± 0,04 in.													
Engine	Liquid cooled single cylinder 4-stroke, SOHC-4 valves, counter balancer													
Valve clearance	Intake and Exhaust: 0,10mm / 0,004 in.													
Lubrication system	Orbit oil pump and reed valve controlled. High pressure jet spray of piston and connecting rod, pressure lubrication of connecting rod bearing and rocker arms. Oil screen and micro filter													
Engine oil	1,0 Litre Synthetic SAE 5W-50 API SG/CF (minimum SAE 10W-50)													
Ignition system	SEM Dynamic Force Control, DFC™, Dual Ignition Curves; High & Low. A load sensitive digital system with six sensors													
Spark plug - Spark plug gap	NGK DCPR8E - 0,6 mm / 0,025 in.													
Alternator	12 V 70 + 70 W					Not available					12 V 70 + 70 W			
Air intake system	Single foam filter													
Carburettor (DELLORTO)	PHM 38	PHM 40	PHM 40	PHM 38	PHM 40	PHM 40	PHM 40	PHM 40	PHM 40	PHM 40	PHM 40	PHM 40	PHM 40	
Fuel	RON 98 (octane), unleaded													
Exhaust system	Inox steel pipes, 2 into 1 collector, Aluminium/Inox steel silencer. USA versions, except FC and FSc models, equipped with spark arresters													
Coolant	1,3 Litre of 50% Anti-freeze, with corrosion inhibitor, and 50% water													
Clutch	Hydraulic, 7 friction- and 8 mating plates in oil bath													
Clutch hydraulic oil	Mineral oil SAE 2-7W													
Wear limit clutch discs	19,6 mm / 0,772 in.													
Primary transmission	Spur gears, ratio 29/78 - 2,690													
Gearbox	6-speed	6-speed	6-speed	6-speed	6-speed	6-speed	6-speed	6-speed CR	4-speed	6-speed CR	6-speed CR	6-speed	6-speed	
Ratios	1st: 14/33 - 2,357 2nd: 17/30 - 1,765 3rd: 19/26 - 1,368 4th: 23/25 - 1,087 5th: 24/22 - 0,917 6th: 27/20 - 0,741 (6th CR: 25/21-0,840)													
Secondary transmission	D.I.D. 520 O-ring chain													
Sprockets front/rear	13/48	15/48	15/42	15/42	15/42	15/42	15/42	13/48	15/48	15/48	13/48	13/48	15/42	
Wear limit drive chain	272 mm - 18 chain reels (tensioned, center distance between reels)													
Frame	Heat treated BTR / 25CrMo4 steel													
Caster	28,5°													
Weight (dry)	109,8 kg	110,1 kg	110,9 kg	111,9 kg	113,1 kg	105,7 kg	106,8 kg	103,5 kg	103,5 kg	103,9 kg	109,6 kg	109,6 kg	110,4 kg	
	242 lb.	243 lb.	244 lb.	247 lb.	249 lb.	233 lb.	235 lb.	228 lb.	228 lb.	229 lb.	242 lb.	242 lb.	243 lb.	

# SPECIFICATIONS

SUBJECT/MODEL	FE 400 e	FE 501 e	FE 650 e	FS 400 e	FS 650 e	FS 400 c	FS 650 c	FC 470/6	FC 550/4	FC 550/6	FC 470 e	FX 470 e	FX 650 e
Rims	Front	EXCEL 1.60 x 21"		BEHR 3.50 x 17"				EXCEL 1.60 x 21"			EXCEL 1.60 x 21"		
	Rear	EXCEL 2.15 x 18"		BEHR 4.25 x 17"				EXCEL 2.15 x 19"			EXCEL 2.15 x 18"		
Tyres (MICHELIN)	Front	90/90-21"		120/60-17"				80/100-21"			90/90-21"		
	Rear	140/80-18"		150/60-17"				110/100-19"			130/80-18"		
Tyre pressure (cold)													
Offroad	Front	0,8 bar / 12,0 psi						0,8 bar / 12,0 psi					
	Rear	0,8 bar / 12,0 psi						0,8 bar / 12,0 psi					
Tarmac	Front	1,0 bar / 14,5 psi		2,2 bar / 31,9 psi									
	Rear	1,0 bar / 14,5 psi		2,0 bar / 29,0 psi									
Suspension (WP)	Front	MXMA 4860-HBG E ø 48 mm		MXMA 4860-HBG S ø 48 mm				MXMA 4860-HBG MX ø 48 mm					
	Rear	PDS 5018-HBG E		PDS 5018-HBG S				PDS 5018-HBG MX					
Wheel travel	Front	295 mm / 11,6 in.		260 mm / 10,2 in.				295 mm / 11,6 in.					
	Rear	320 mm / 12,6 in.		287 mm / 11,3 in.				320 mm / 12,6 in.					
Front fork oil	WP SAE 5												
Brakes	Front	BREMBO		BERINGER				BREMBO					
		Hydraulic twin piston floating caliper		Hydraulic four piston floating caliper				Hydraulic twin piston floating caliper					
		ø 260 mm Inox steel disc		ø 320 mm Inox steel disc				ø 260 mm Inox steel disc					
	Rear	BREMBO hydraulic single piston floating caliper, ø 220 mm Inox steel disc											
Brake fluid	DOT 4												
Wear limit brake pads	1,5 mm / 0,06 in.												
Head light	Alt. A	12 V 65/50 W - P43t							Not applicable				
	Alt. B	12 V 45/40 W - BA20d							Not applicable				
Tail / Stop light	12 V 21/5 W - BAY 15d								Not applicable				
Parking light	12 V 4 W - BA9s								Not applicable				
Turn signal lights	12 V 10 W - BA15s								Not applicable				
Speedometer light	12 V 2 W - BA7s								Not applicable				
Battery / Main fuse	12 V 8 Ah / 15 A								Not applicable				
Wheel base - Width	1490 mm / 58,66 in. - 810 mm / 31,89 in.												
Seat height	930 mm / 36,61 in.		870 mm / 34,25 in.				930 mm / 36,61 in.						
Ground clearance	380 mm / 14,96 in.		320 mm / 12,60 in.				380 mm / 14,96 in.						
Overall length	2200 mm / 86,61 in.		2150 mm / 84,65 in.				2200 mm / 86,61 in.						