

Rotabroach

RHINO 2 Petrol Driven Rail Drilling Machine

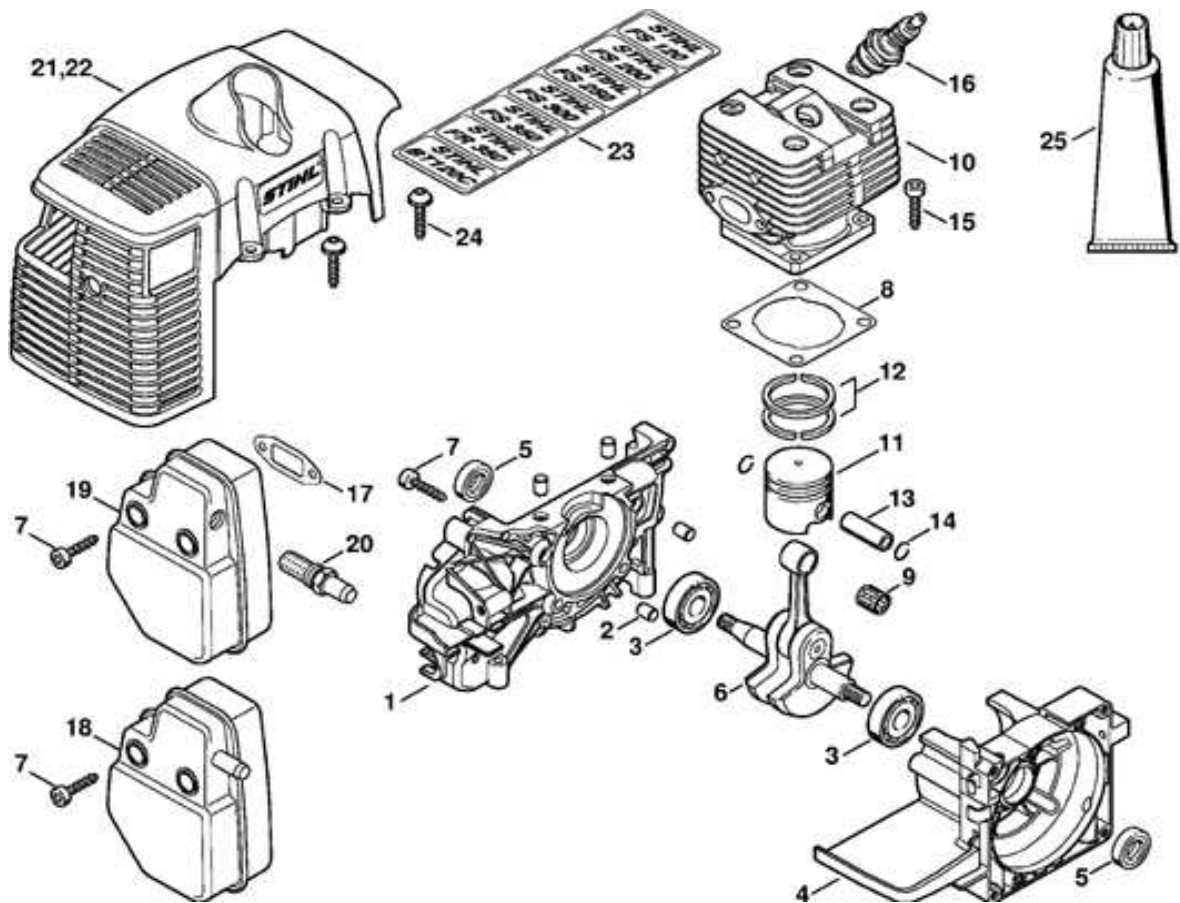
Model RD07

ENGINE PARTS LIST

Manufactured in the United Kingdom

A

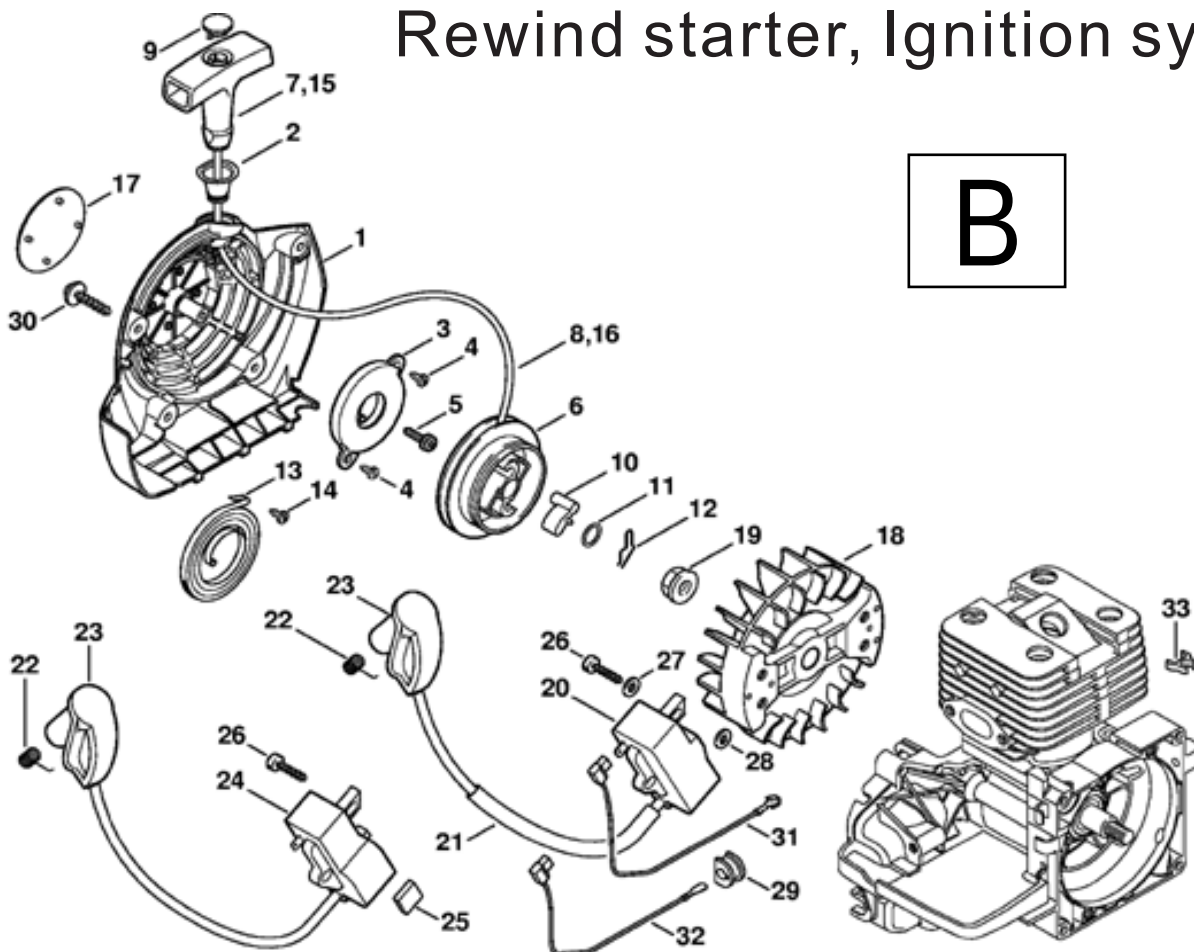
Crankcase, Cylinder



- 1 4134 020 2600 1 Crankcase . 2, 3
- 2 0000 988 8600 4 Sleeve 5x12
- 3 9503 003 0242 2 Grooved ball bearing 6201
- 4 4134 020 2900 1 Crankcase . 3
- 5 9640 003 1195 2 Oil seal 12x22x5
- 6 4134 030 0400 1 Crankshaft
- 7 9075 478 4159 7 Pan head self-tapping screw IS-D5x24
- 8 4134 029 2300 1 Cylinder gasket
- 9 9512 003 2250 1 Needle cage 10x13x12.5
- 10 4134 020 1213 1 Cylinder with piston 0 35mm . 11 - 15
- 11 4134 030 2011 1 Piston 0 35mm . 12 - 14
- 12 4119 034 3005 2 Piston ring 0 35x1.5mm
- 13 4119 034 1500 1 Piston pin
- 14 9463 650 1000 2 Snap ring 10
- 15 9075 478 4175 4 Pan head self-tapping screw IS-D5x28
- 16 0000 400 7000 1 Spark plug NGK BPMR7A
- 16 1110 400 7005 1 Spark plug Bosch WSR 6 F
- 17 4134 149 0600 1 Exhaust gasket
- 18 4134 140 0603 1 Muffler Europe
- 19 4134 140 0607 1 Muffler USA, AUS, CDN . 20
- 20 4128 140 6900 1 Stub with screen
- 21 4134 084 0912 1 Shroud
- 22 . 4134 080 1601 1 Shroud (09.2003) . 23
- 23 . 4134 967 1514 1 Model plate (09.2003)
- 24 0000 951 1100 2 Screw IS-D5x20
- 25 0783 830 2000 1 Tube of sealant Dirko HT red (B)
- 4134 007 1050 1 Set of gaskets . 5, 8, 17
- . 4134 140 0653 1 Muffler . 1 • 43 • 729 • 444 . 19, 22, 23

Rewind starter, Ignition system

B

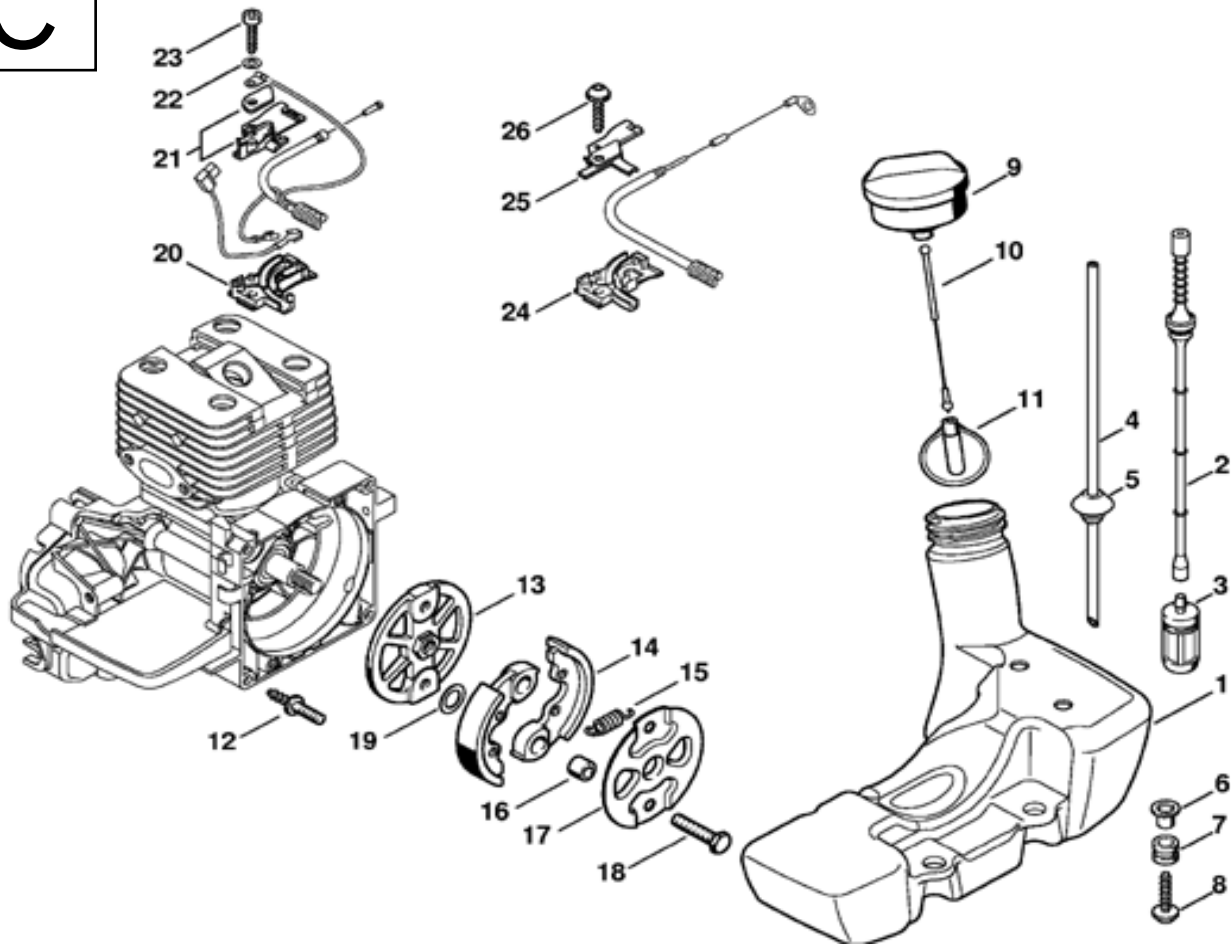


4134 080 2101 1 Fan housing with rewind starter . 1 - 11

- 1 4134 080 1801 1 Fan housing . 2
- 2 1110 084 9102 1 Bushing
- 3 4134 190 0601 1 Rewind spring
- 4 9104 003 0410 2 Self-tapping screw P3x6
- 5 4223 084 5600 1 Screw
- 6 4128 195 0400 1 Rope rotor
- 7 0000 190 3405 1 Starter grip ElastoStart 0 3mm . 8, 9
- 8 0000 195 8203 1 Starter rope 0 3x850mm
- 9 0000 195 7000 1 Cap
- 10 0000 195 7200 1 Pawl
- 11 0000 958 0923 1 Washer
- 12 1118 195 3500 1 Spring
- 13 . 4134 190 0600 1 Rewind spring (22.2001)
- 14 . 9099 021 2330 1 Self-tapping screw 3.5x6.5 (22.2001)
- 15 . 0000 190 3400 1 Starter grip ElastoStart 0 3mm (22.2001) . 9, 15
- 16 . 0000 195 8200 1 Starter rope 0 3x800mm (22.2001)
- 17 4313 967 1501 1 Model plate BT 120 C
- 18 4134 400 1200 1 Flywheel
- 19 9220 260 1100 1 Hexagon nut M8
- 20 4134 400 1301 1 Ignition module . 21 - 23
- 21 4137 442 0400 1 Insulating hose
- 22 0000 998 0604 1 Torsion spring
- 23 4128 405 1000 1 Spark plug boot
- 24 . 4134 400 1306 1 Ignition module (22.2001) . 22, 23
- 25 . 4134 028 1300 1 Shim 10x15x4 (22.2001)
- 26 9075 478 3022 2 Pan head self-tapping screw IS-D4x20
- 27 9291 021 0121 2 Washer 5.3
- 28 . 9291 021 0121 2 Washer 5.3 (22.2001)
- 29 4134 432 9300 1 Grommet
- 30 0000 951 1100 4 Screw IS-D5x20
- 31 4134 440 1101 1 Short circuit wire
- 32 . 4134 440 1100 1 Short circuit wire (09.2003)
- 33 . 4134 448 1200 1 Lead retainer (09.2003)

C

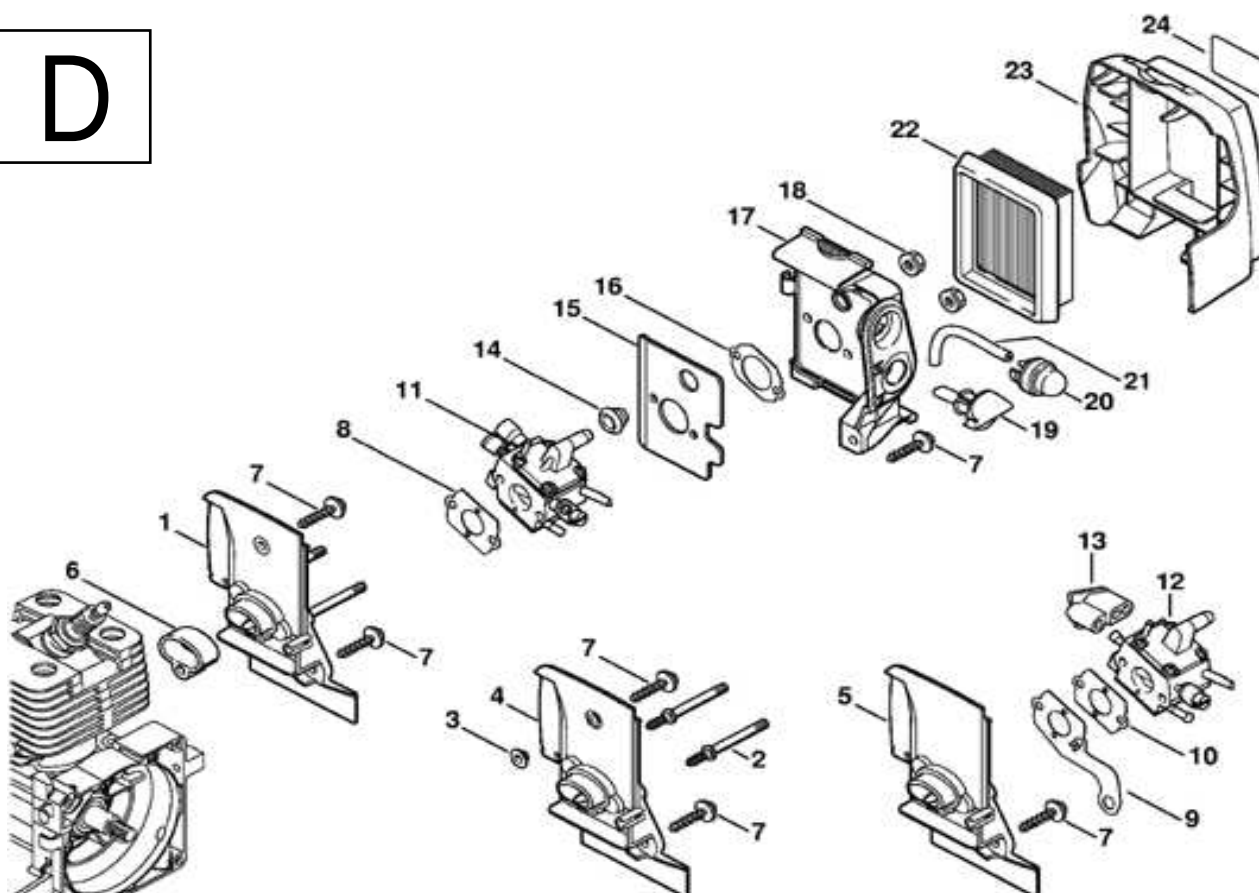
Fuel tank, Clutch



- 1 4134 350 0400 1 Fuel tank . 2 - 7
- 2 4128 358 0800 1 Hose
- 3 0000 350 3506 1 Pickup body
- 4 1 Hose 2, 2x5.4x190 mm (D)
- 0000 930 2802 1 Hose 2.2x5.4 mm x 1 m (A, B)
- 5 0000 989 0516 1 Grommet
- 6 0000 351 3200 4 Sleeve
- 7 1125 084 8900 4 Grommet
- 8 0000 951 1102 4 Screw D5x26
- 9 4128 350 0505 1 Filler cap . 10, 11
- 10 0000 350 0900 1 Rope
- 11 0000 353 0800 1 Filler cap retainer
- 12 4313 711 8700 4 Collar screw
- 13 4128 160 2001 1 Clutch . 14 - 19
- 14 2 Clutch shoe (D)
- 15 0000 997 5519 2 Tension spring
- 16 0000 961 0608 2 Ring
- 17 4128 162 1000 1 Cover washer
- 18 0000 951 0606 2 Hexagon head screw
- 19 0000 958 1000 2 Washer 16x10x0.5
- 20 4134 182 2104 1 Support, bottom
- 21 4134 180 6702 1 Support
- 22 9291 021 0120 1 Washer 5.3
- 23 9075 478 4159 1 Pan head self-tapping screw IS-D5x24
- . 4134 180 6700 1 Support (09.2003)
- . 23 - 25
- 24 . 4134 182 2105 1 Support, bottom (09.2003)
- 25 . 4134 180 6701 1 Support (09.2003)
- 26 . 0000 951 1100 1 Screw IS-D5x20 (22.2001)

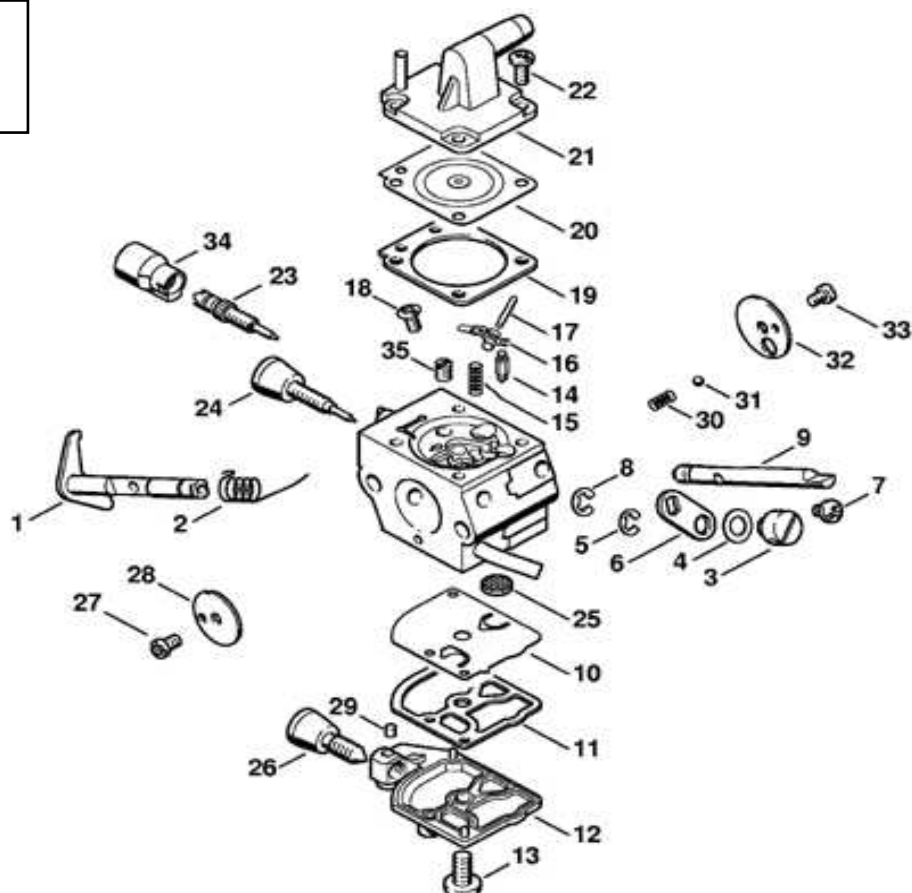
Carburetor housing, Air filter

D



- 1 4134 120 0102 1 Carburetor housing
- 2 . 4134 122 6601 2 Collar screw
- 3 . 0000 963 1403 1 Bushing
- 4 . 4134 120 0101 1 Carburetor housing (09.2003) . 2, 3
- 5 . 4134 120 0100 1 Carburetor housing (22.2001) . 2
- 6 4134 129 3000 1 Sealing ring
- 7 0000 951 1100 5 Screw IS-D5x20
- 8 4128 129 0900 1 Gasket
- 9 . 4134 431 7000 1 Contact plate (09.2003)
- 10 . 4128 129 0900 1 Gasket (09.2003)
- 11 4134 120 0603 1 Carburetor C1Q-S82
- 12 . 4134 120 0651 1 Carburetor C1Q-S51C (09.2003) . 13
- 13 . 4134 123 7502 1 Grommet (09.2003)
- 14 4134 123 7500 1 Grommet
- 15 4134 122 1800 1 Heat shield
- 16 4134 129 0900 1 Gasket
- 17 4134 140 2800 1 Filter housing
- 18 9220 260 0700 2 Hexagon nut M5
- 19 4128 182 9500 1 Choke knob
- 20 4130 350 6200 1 Fuel pump
- 21 1 Hose 2.2x5.4x68mm (D)
- 0000 930 2802 1 Hose 2.2x5.4 mm x 1 m (A,B)
- 22 4134 141 0300 1 Air filter
- 23 4134 141 0500 1 Filter cover
- 24 0000 967 3693 1 Warning pictogram Filler cap USA, CDN
- 4128 007 1050 1 Set of gaskets . 8

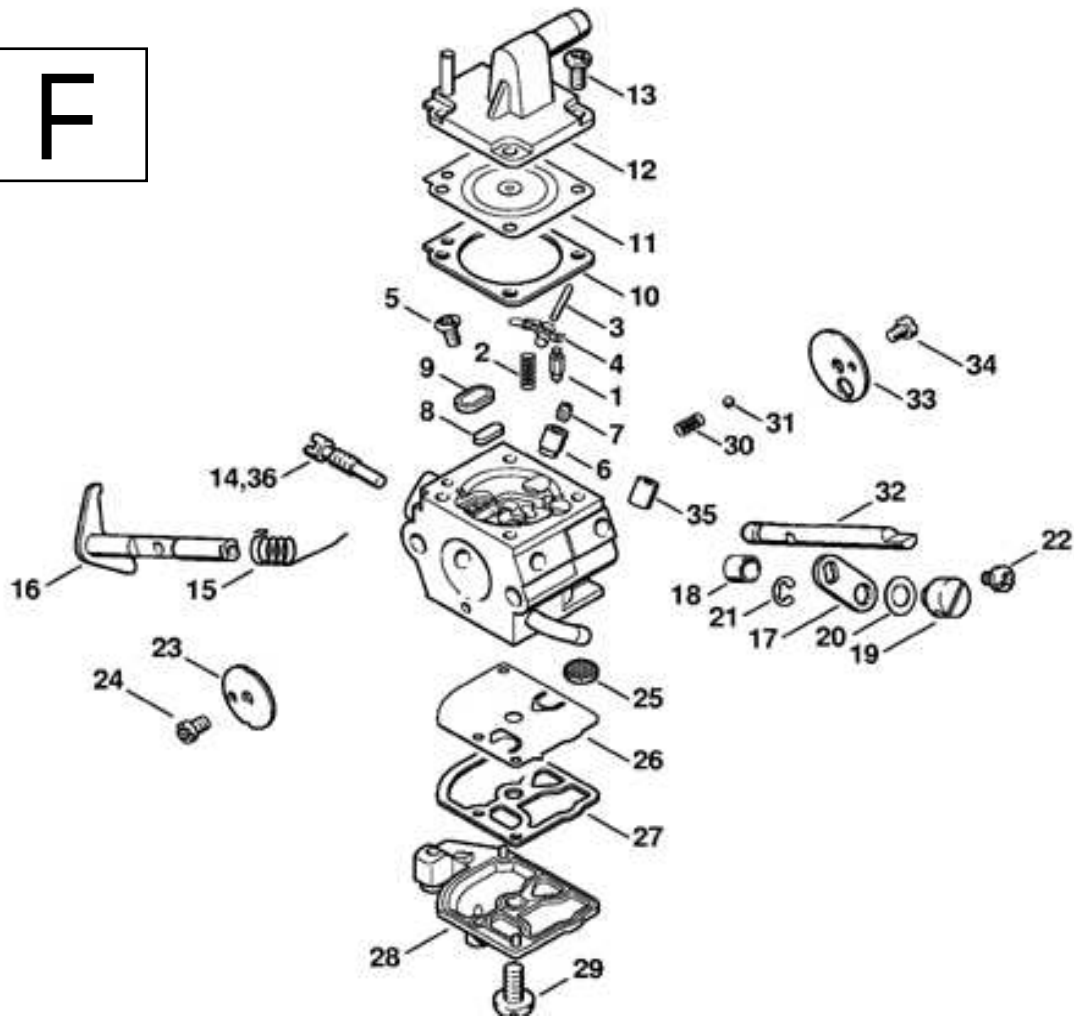
Carburetor C1Q-S82



4134 120 0603 1 Carburetor C1Q-S82 . 1 - 35	30 4119 122 3002 1 Spring
1 4134 120 7101 1 Throttle shaft with lever	31 4119 122 4200 1 Ball
2 1123 122 3000 1 Spring	32 4128 121 2900 1 Choke shutter
3 4128 121 8901 1 Pin	33 1125 122 7403 1 Round head screw
4 4137 121 8600 1 Washer	34 4229 121 2701 1 Cap
5 1120 122 9000 1 E-clip	35 1132 121 5640 1 Fixed jet 0.40
6 4134 123 7300 1 Lever	
7 9079 319 0280 1 Flat head screw M3x3.5	1129 007 1062 1 Set of carburetor parts . 10, 11, 19, 20
8 1120 122 9000 1 E-clip	
9 4134 121 3000 1 Choke shaft	
10 1129 121 4800 1 Pump diaphragm	
11 1123 129 0905 1 Gasket	
12 1123 121 0800 1 End cover	
13 1120 122 7800 1 Oval head screw	
14 4116 121 5100 1 Inlet needle	
15 1123 122 3001 1 Spring	
16 1125 121 5000 1 Inlet control lever	
17 1120 121 9200 1 Spindle	
18 1120 122 6600 1 Collar screw	
19 1129 129 0900 1 Gasket	
20 4129 121 4700 1 Metering diaphragm	
21 4134 121 0801 1 End cover	
22 1120 122 6601 4 Collar screw	
23 4134 122 6701 1 High speed adjustment screw	
24 4134 122 6801 1 Low speed adjustment screw	
25 1123 121 7800 1 Strainer	
26 4180 122 6200 1 Idle speed adjustment screw	
27 1120 122 7400 1 Round head screw	
28 4134 121 3302 1 Throttle shutter	
29 1125 122 4200 1 Ball	

Carburetor C1Q-S51C, C1Q-S36G

F



. 4134 120 0651 1 Carburetor C1Q-S51C (09.2003) . 1 - 34

. 1 Carburetor C1Q-S36G (C) (09.2003) . 1 - 5, 8 - 35

1 . 4116 121 5100 1 Inlet needle (09.2003)

2 . 1120 122 3004 1 Spring (09.2003)

3 . 1120 121 9200 1 Spindle (09.2003)

4 . 1125 121 5000 1 Inlet control lever (09.2003)

5 . 1120 122 6600 1 Collar screw (09.2003)

6 . 4137 122 5100 1 Outlet valve (09.2003)

7 . 1130 121 5601 1 Fixed jet 0.44 (09.2003)

8 . 4119 121 0700 1 Cup plug (09.2003)

9 . 4129 121 0700 1 Cup plug (09.2003)

10 . 4129 129 0902 1 Gasket (09.2003)

11 . 4129 121 4700 1 Metering diaphragm (09.2003)

12 . 4134 121 0801 1 End cover (09.2003)

13 . 1120 122 6601 4 Collar screw (09.2003)

14 . 1130 122 6300 1 Idle speed adjustment screw (09.2003)

15 . 1123 122 3000 1 Spring (09.2003)

16 . 4134 120 7100 1 Throttle shaft with lever (09.2003)

17 . 4134 123 7300 1 Lever (09.2003)

18 . 4134 122 5000 1 Spacer sleeve (09.2003)

19 . 4128 121 8900 1 Pin (09.2003)

20 . 4137 121 8600 1 Washer (09.2003)

21 . 1120 122 9000 1 E-clip (09.2003)

22 . 9079 319 0280 1 Flat head screw M3x3.5 (09.2003)

23 . 1123 121 3300 1 Throttle shutter (09.2003)

24 . 1120 122 7400 1 Round head screw (09.2003)

25 . 1123 121 7800 1 Strainer (09.2003)

26 . 1129 121 4800 1 Pump diaphragm (09.2003)

27 . 1123 129 0905 1 Gasket (09.2003)

28 . 4128 121 0800 1 End cover (09.2003)

29 . 1120 122 7800 1 Oval head screw (09.2003)

30 . 4119 122 3002 1 Spring (09.2003)

31 . 4119 122 4200 1 Ball (09.2003)

32 . 4134 121 3000 1 Choke shaft (09.2003)

33 . 4128 121 2900 1 Choke shutter (09.2003)

34 . 1125 122 7403 1 Round head screw (09.2003)

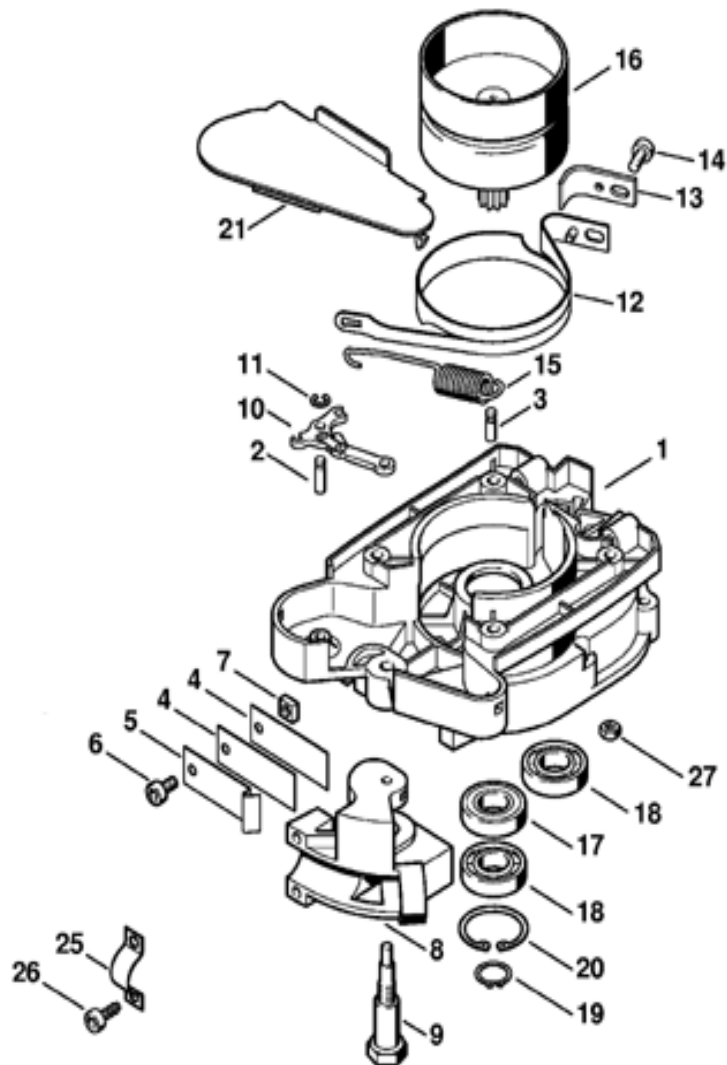
. 4134 007 1060 1 Set of carburetor parts (09.2003). 1, 2, 4, 10, 11, 25 - 27

35 . 4134 121 5402 1 Valve jet

36 . 4128 122 6300 1 Idle speed adjustment screw (22.2001)

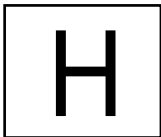
Clutch housing, Brake

G

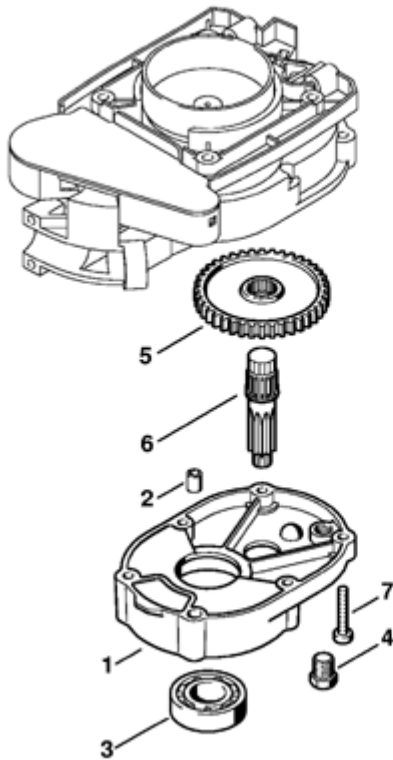


1 4313 160 0600 1 Clutch housing . 2, 3
 2 1121 162 5200 1 Pin
 3 1120 162 5200 1 Pin
 4 4311 162 7805 2 Flat spring
 5 4311 162 7800 1 Flat spring
 6 9022 341 0950 1 Spline screw IS-M5x10
 7 9222 068 0700 1 Square nut M5
 8 4311 162 3000 1 Retainer
 9 4311 162 2200 1 Bearing pin
 10 1121 160 5000 1 Lever
 11 9460 624 0400 1 E-clip 4
 12 4313 160 5401 1 Brake band

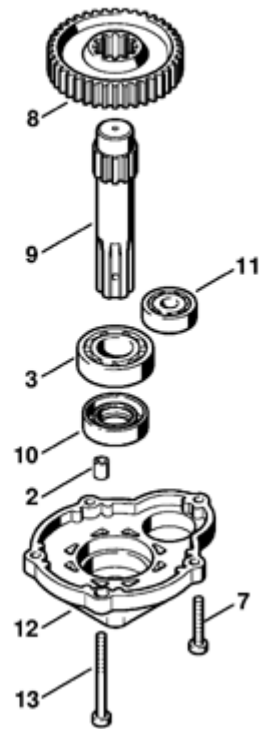
13 4313 161 9500 1 Insert
 14 9022 341 0960 1 Spline screw IS-M5x12
 15 4311 162 7900 1 Tension spring
 16 4313 160 2900 1 Clutch drum
 17 9503 003 5260 1 Grooved ball bearing 6002-2Z
 18 9503 003 0310 2 Grooved ball bearing 6002
 19 9455 621 1300 1 Circlip 13x1
 20 9456 621 3600 1 Circlip 32x1.2
 21 4313 161 1100 1 Cover
 25 4311 162 2300 1 Clamp
 26 49074 478 4125 2 Pan head self-tapping screw IS-5
 27 9216 263 0700 4 Hexagon nut M5



Gear head

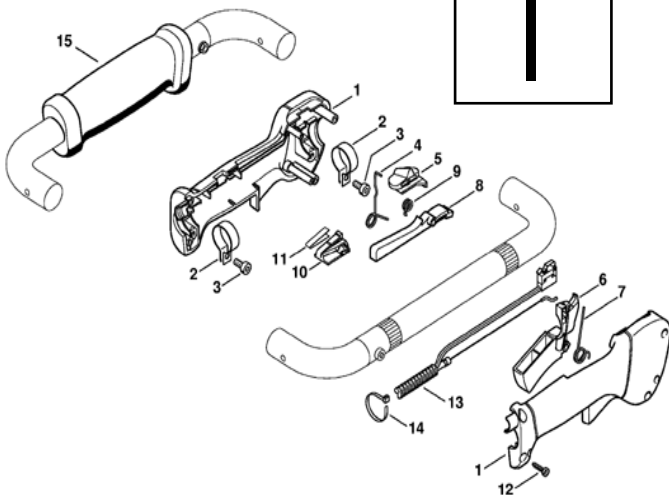
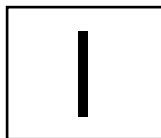


- 1 4313 641 0300 1 Gear housing
- 2 4600 641 4900 2 Sleeve
- 3 9503 003 0510 2 Grooved ball bearing 6004
- 4 4119 713 6500 1 Screw plug
- 5 4313 642 0100 1 Spur gear
- 6 4313 642 2500 1 Drive pinion shaft
- 7 9022 341 1070 3 Spline screw IS-M5x30



- 8 4313 642 0105 1 Spur gear
- 9 4313 642 0600 1 Drive shaft
- 10 9630 003 3616 1 Oil seal 35x20x7
- 11 9503 003 6320 1 Grooved ball bearing 6200
- 12 4311 641 0400 1 Cover
- 13 9022 341 1110 4 Spline screw IS-M5x52

Control handle

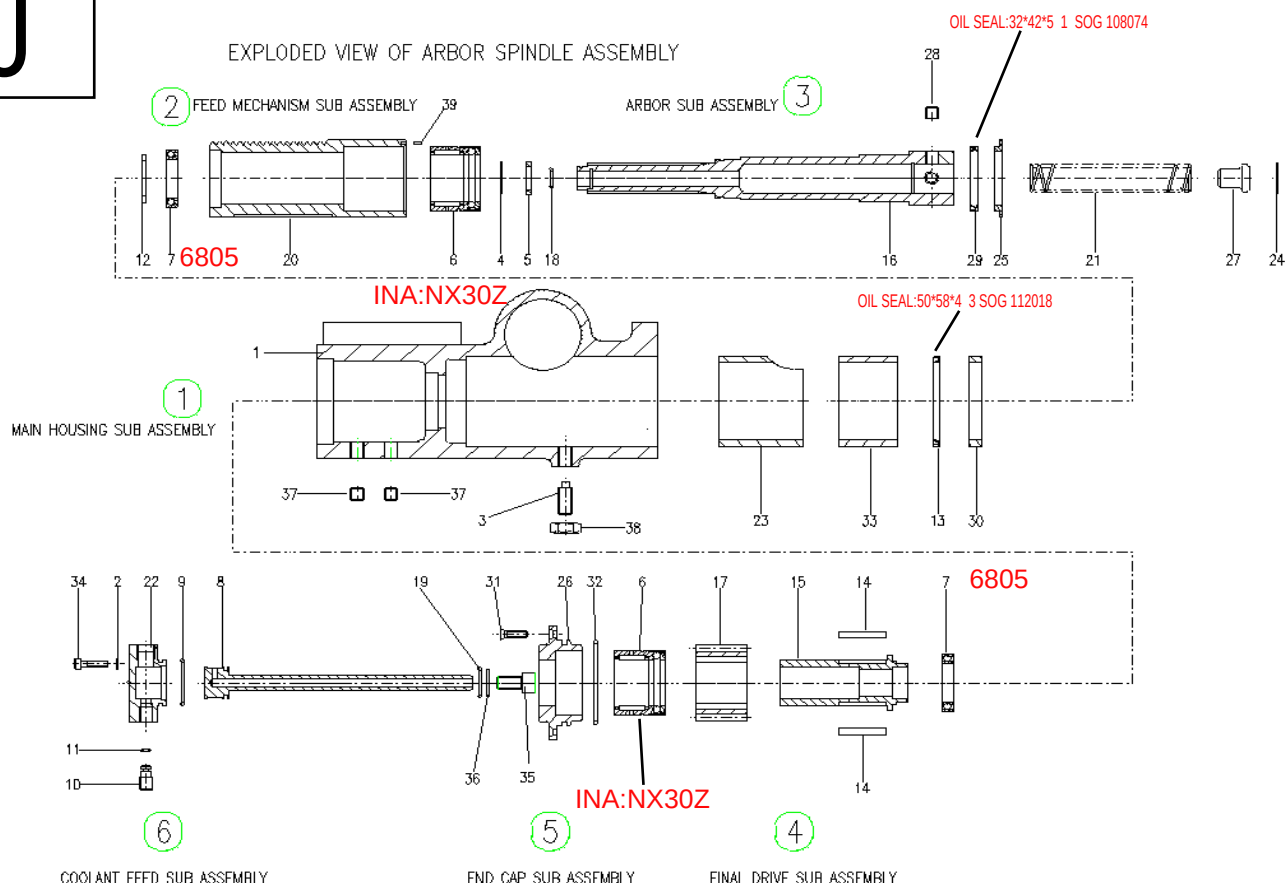


4137 790 1307 1 Control handle . 1 - 12

- 1 4137 790 0300 1 Handle
- 2 4137 791 9400 2 Hose clamp
- 3 9022 341 0960 2 Spline screw IS-M5x12
- 4 4137 182 4505 1 Torsion spring
- 5 4137 182 1701 1 Slide control
- 6 4137 182 1001 1 Throttle trigger
- 7 4137 182 4504 1 Torsion spring
- 8 4137 182 0802 1 Trigger interlock
- 9 4128 182 4501 1 Torsion spring
- 10 4128 793 3000 1 Slide
- 11 4128 791 3100 1 Spring
- 12 9074 478 3025 4 Pan head self-tapping screw IS-P4x16
- 13 4313 180 1102 1 Throttle cable
- 14 0751 010 7056 2 Cable tie
- 15 4313 791 0300 1 Handle, left

EXPLODED VIEW OF ARBOR SPINDLE ASSEMBLY

J



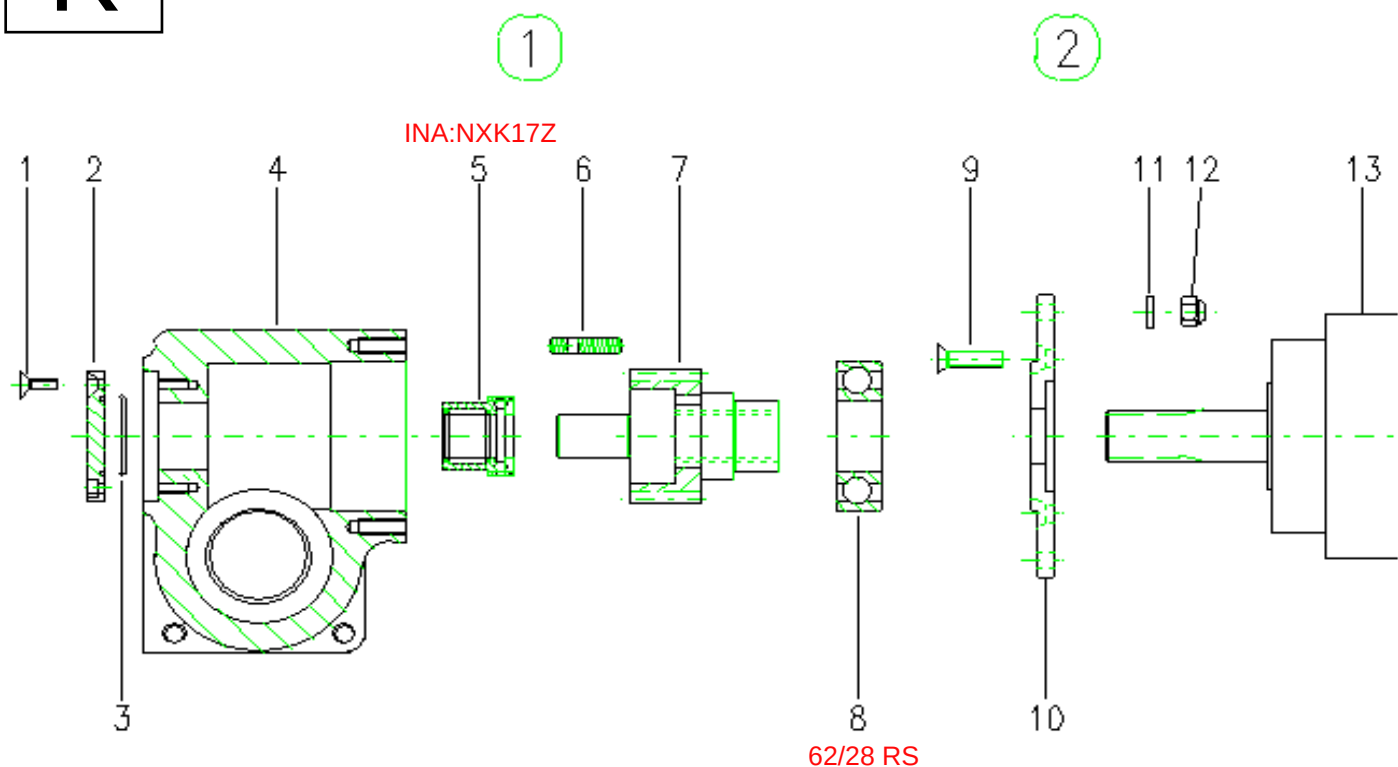
PARTS LIST

Item	Description	Part No	Quantity	Item	Description	Part No	Quantity
1	MAIN HOUSING	RD3700	1	21	SPRING	RA355	1
2	M4 SHAKEPROOF WASHER	RD4069	4	22	COOLANT FEED HOUSING	RD3709	1
3	M8 x 25 DOG POINT SOCKET SCREW	RD4719	1	23	REAR BRONZE BEARING	RD3719	1
4	CIRCLIP	RM22876	1	24	CIRCLIP	RD4056	1
5	ARBOR/SPINDLE STOP RING	RD3722	1	25	FEED TUBE WEAR CAP	RD3714	1
6	COMBINED NEEDLE THRUST RACE	RD4700	2	26	HOUSING REAR ENDCAP	RD3708	1
7	BEARING 6805	RD4701	2	27	BUTTON	RA354	1
8	COOLANT FEED TUBE	RD3710	1	28	M8 SOCKET SCREW	RD4066	2
9	'O' RING	RD4702	1	29	OILSEAL	RD4704	1
10	COOLANT TUBE CLAMP SCREW	RD3713	1	30	OILSEAL PROTECTION RING	RD3718	1
11	'O' RING	RD4703	1	31	M4 C/SUNK SKT HD SCREW	RD4721	4
12	CIRCLIP	RD4713	1	32	'O' RING	RD4709	1
13	OIL SEAL	RD4712	1	33	FRONT BRONZE BEARING	RD4711	1
14	FINAL DRIVE KEY	RD4705	2	34	M4 SCKT HEAD CAP SCREW	RD4728	4
15	FINAL DRIVE SPINDLE	RD3707	1	35	M8 x 15 CAPSCREW	RD4184	1
16	ARBOR/SPINDLE	RD3704	1	36	M8 WASHER	RD4078	1
17	FINAL DRIVE GEAR	RD3702	1	*37	1/8" BSPT PLUG	RD4745	2
18	'O' RING	RD4706	1	*38	M8 HEX NUT	RD4192	1
19	'O' RING	RD4707	1	39	ROLL PIN	RD4740	1
20	FEED TUBE	RD3701	1				

* Issue 3 (From models produced after serial number 59330)

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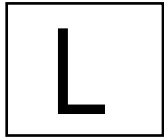
EXPLODED VIEW OF ARBOR/SPINDLE DRIVE



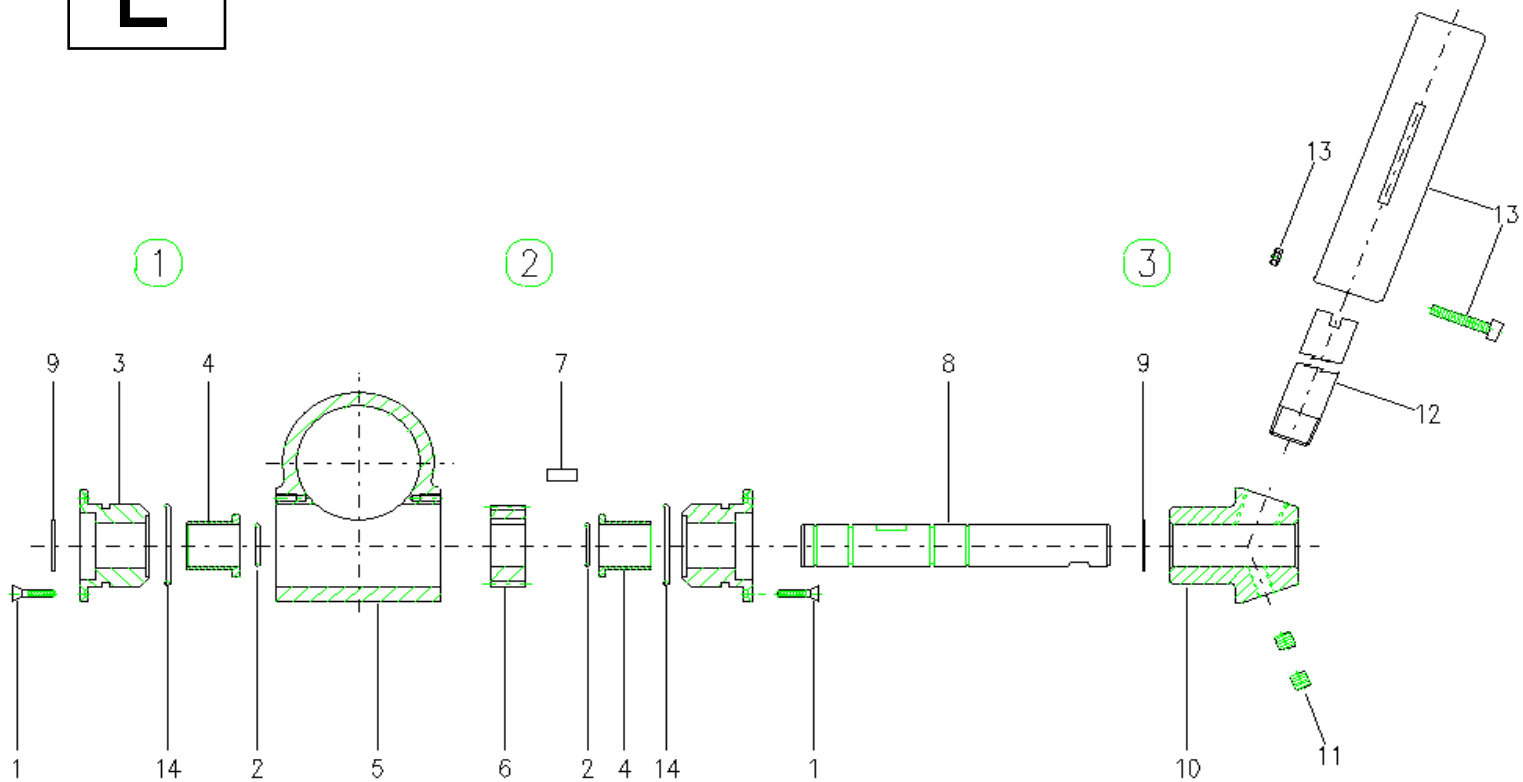
PARTS LIST

Item	Description	Part No	Quantity	Item	Description	Part No	Quantity
1	M4 SKT HEAD CAPSCREW	RD4728	4	8	DOUBLE SEALED SINGLE ROW BRG	RD4725	1
	M4 SHAKEPROOF WASHER	RD4069	4		62/28 RS N : 28mm W : 58mm C:16mm		
2	VERTICAL DRIVE SHAFT COVER	RD3716	1	9	M6X 20 C/SUNK CAP SCREW	RD4722	4
3	O'RING	RD4718	1	10	MOTOR MOUNTING FLANGE	RD3721	1
4	MAIN HOUSING	RD3700	1	11	M6 FLAT WASHERS	RD4095	4
5	COMBINED NEEDLE THRUST RACE	RD4714	1	12	M6 NYLOC NUT	RD4223	4
6	M6 STUD	RD4340	4	13	STHIL PETROL MOTOR	RD3726	1
7	INTERMEDIATE GEAR ASSEMBLY	RD3737	1				

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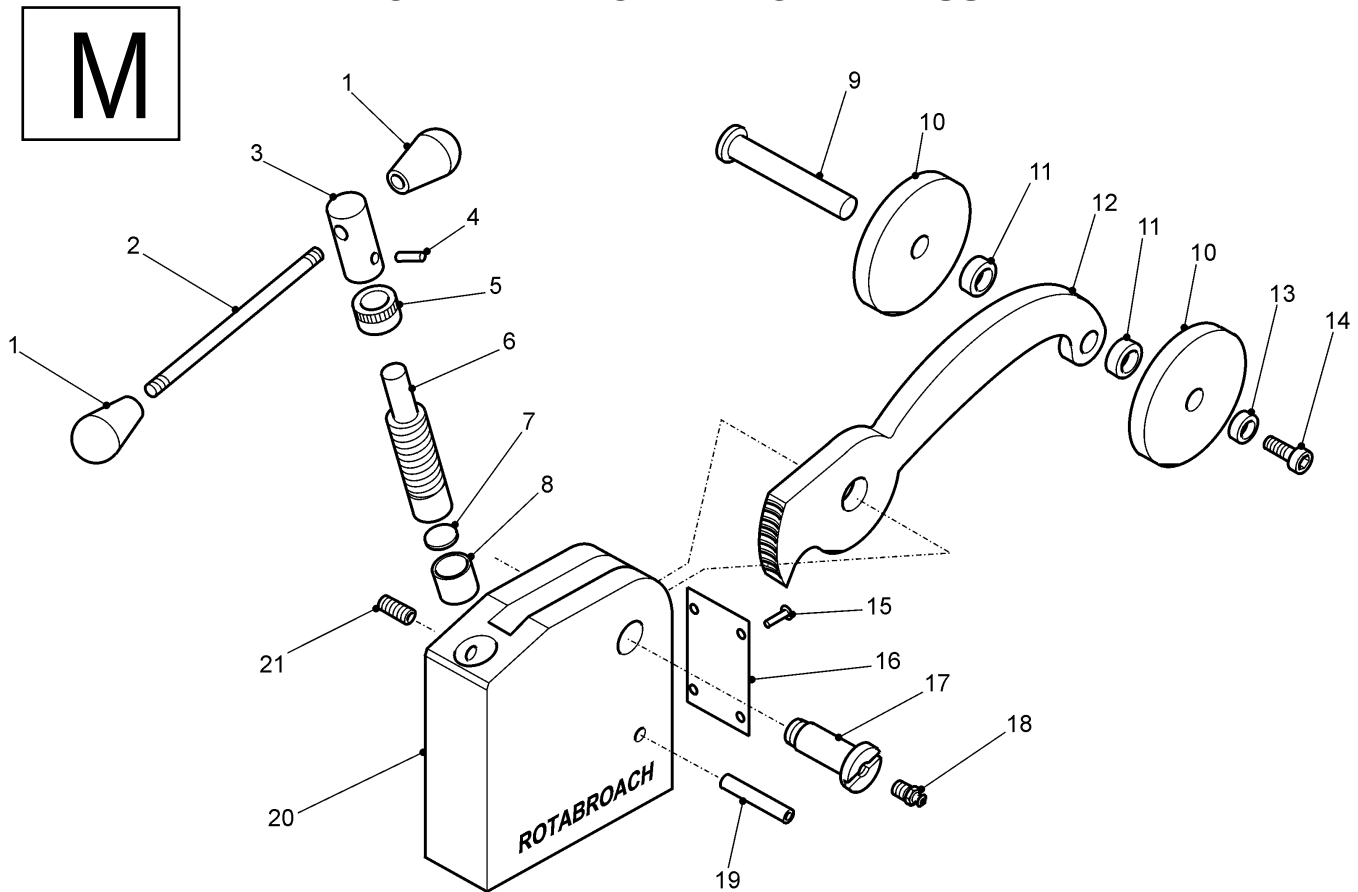
EXPLODED VIEW OF ARBOR/SPINDLE FEED



PARTS LIST

Item	Description	Part No	Quantity	Item	Description	Part No	Quantity
1	M4 CAPSCREW	RD4721	4	9	CIRCLIP	RD4730	2
2	O' RING	RD4726	2	10	CAPSTAN HUB	RD3725	1
3	CAPSTAN SPINDLE HOUSING	RD3712	2	11	M8 SOCKET SCREW	RD4066	2
4	FLANGED OILITE BUSH	RD4724	2	12	CAPSTAN ARM	RD3727	1
5	MAIN HOUSING	RD3700	1	13	CONTROL HANDLE OFF STIHL MOTOR		1
6	FEED GEAR	RD3705	1	14	O' RING	RD4727	2
7	FEED GEAR KEY	RD4708	1	15	TYRAP	RD4353	2
8	CAPSTAN SPINDLE	RD3711	1				

EXPLODED VIEW OF RAIL CLAMP ASSEMBLY



PARTS LIST FOR RAIL CLAMP ASSEMBLY

Item No	Description	Part No	Quantity
1	CAPSTAN KNOB	RY4060	2
2	CAPSTAN SPINDLE	RY4061	1
3	CAPSTAN	RY4062	1
4	PIN	RY4063	1
5	COLLAR	RY4064	1
6	WORM	RY4065	1
7	THRUST WASHER	RY4066	1
8	BEARING BUSH	RY4067	1
9	ROLLER PIN	RY4068	1
10	ROLLER	RY4069	2
11	DISTANCE PIECE	RY4070	2
12	CLAMP ARM	RY4071	1
13	COLLAR	RY4072	1
14	SCREW	RY4325	1
15	RIVET	RY4074	4
16	GUARD PLATE	RY4075	1
17	PIVOT PIN	RY4076	1
18	LUBRICATION NIPPLE	RY4077	1
19	ROLL PIN	RY4078	1
20	CLAMP BODY	RY4079	1
21	LOCK SCREW	RY4368	1