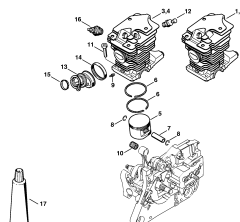
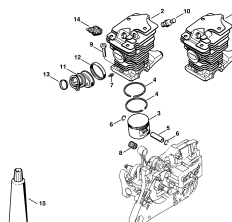


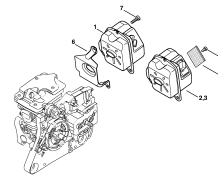
Crankcase



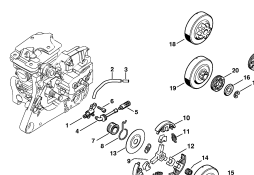
Cylinder MS 270



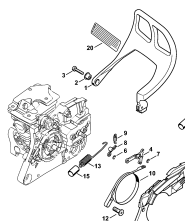
Cylinder MS 280



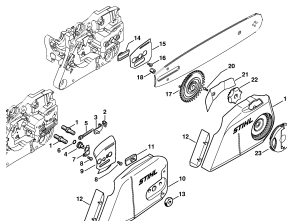
Muffler



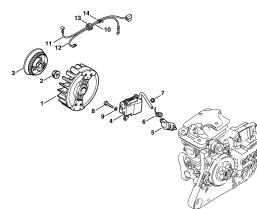
Oil pump, Clutch



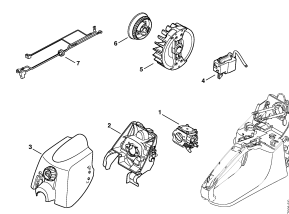
Chain brake



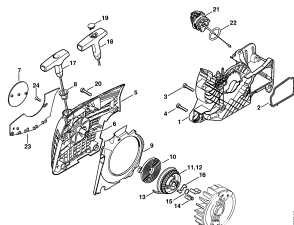
Chain tensioner



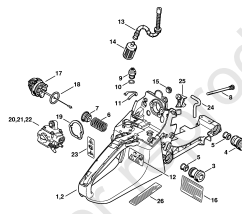
Ignition system



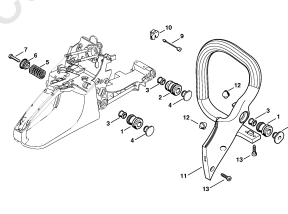
Ignition system (Intelligent Engine Management IEM)



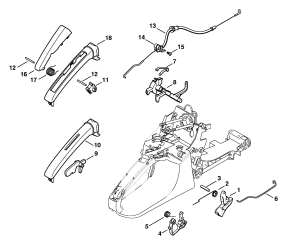
Fan housing with rewind starter



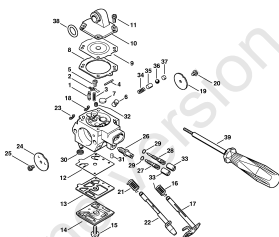
Tank housing



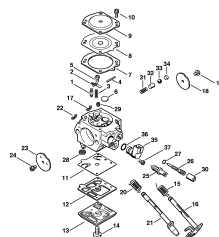
AV system, Handlebar



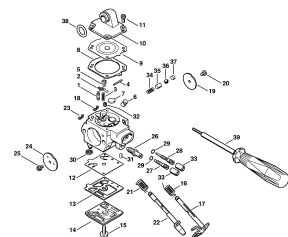
Throttle control



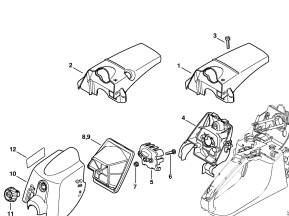
Carburetor HD-33



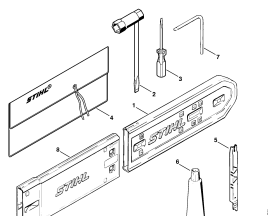
Carburetor HD-39



Carburetor HD-32
(49.2006)



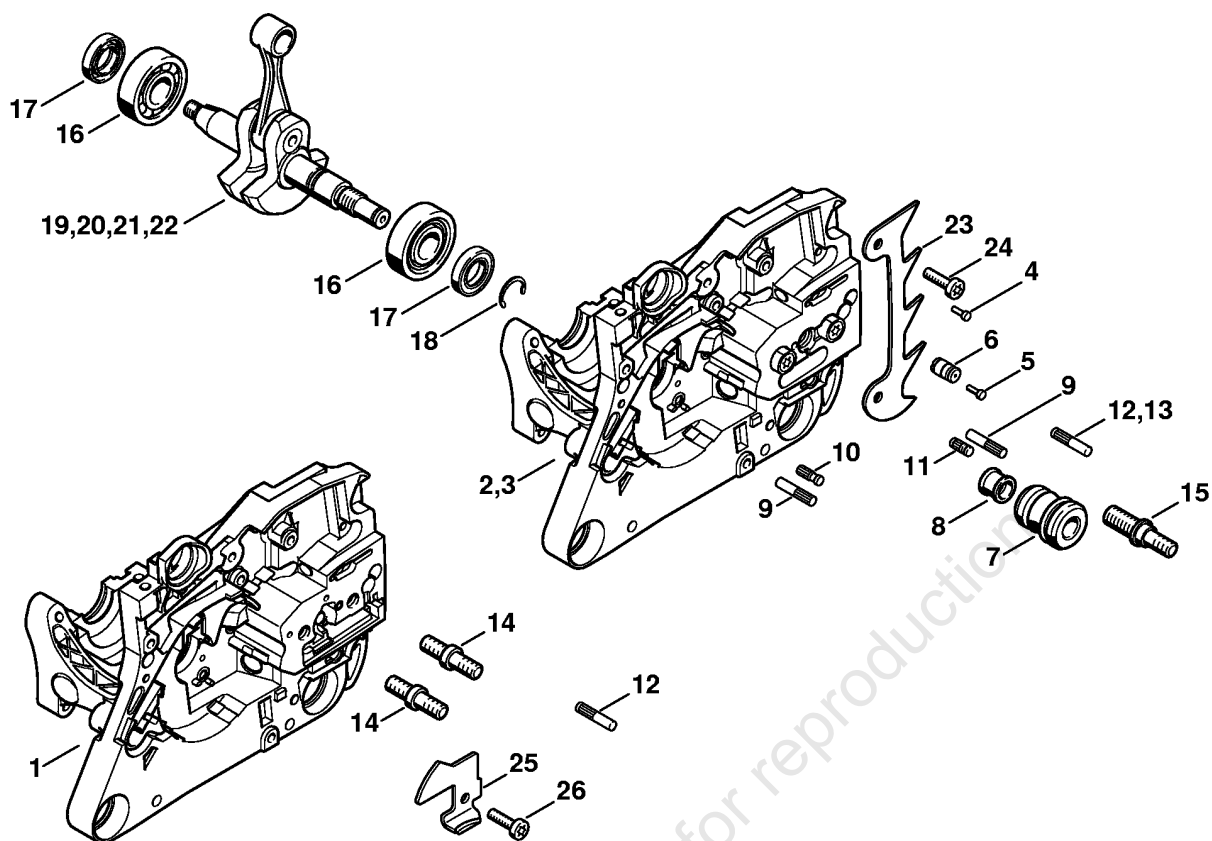
Shroud, Air filter



Tools, Extras

MS 270, MS 270 C, MS 280, MS 280 C

Description	Technical Information
Crankcase	
Cylinder MS 270	
Cylinder MS 280	
Muffler	
Oil pump, Clutch	
Chain brake	
Chain tensioner	
Ignition system	
Ignition system (Intelligent Engine Management IEM)	
Fan housing with rewind starter	
Tank housing	
AV system, Handlebar	
Throttle control	
Carburetor HD-33	
Carburetor HD-39	
Carburetor HD-32 (49.2006)	
Shroud, Air filter	
Tools, Extras	



146ET000 SC

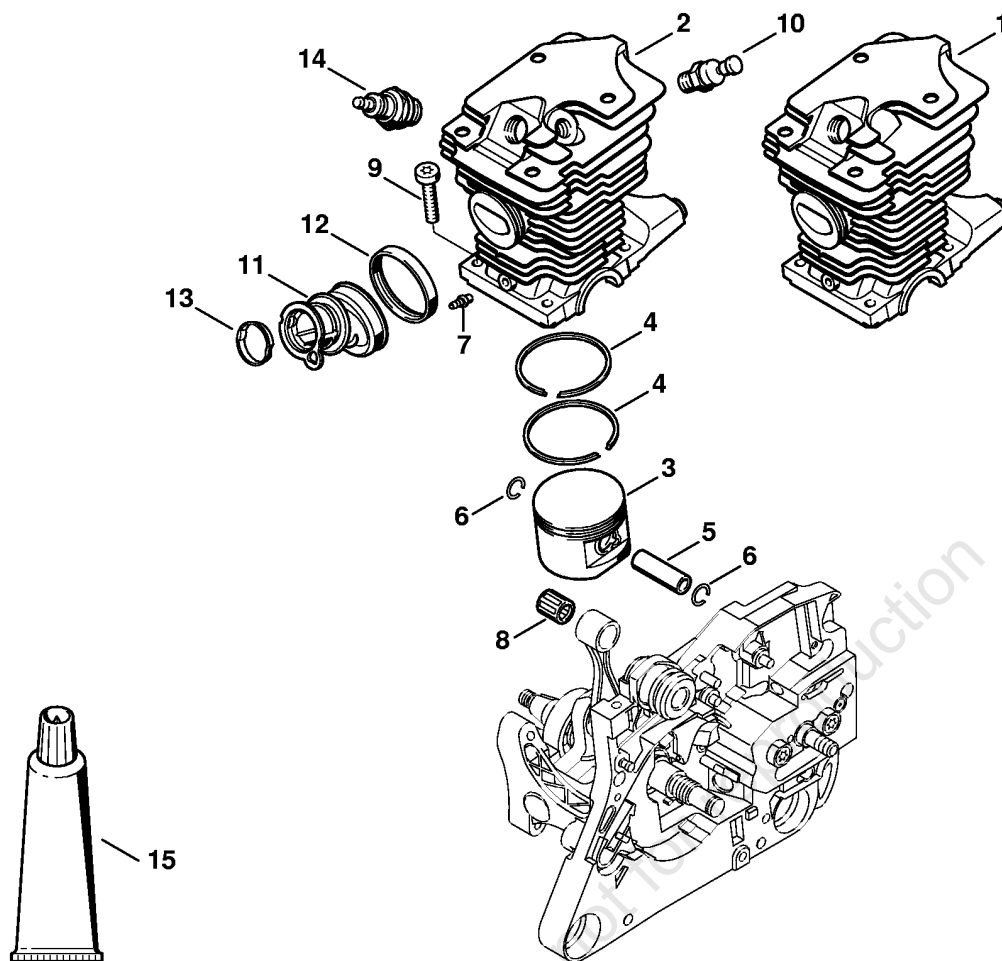
Crankcase

Reference	Item number	Qty	Description	Contains	Technical Information
1	1133 020 2100	1	Crankcase (1,5,6,10)	5 - 12, 14	
2	1133 020 2101	1	Crankcase (2,3,7)	5 - 12, 15	
3	1133 020 2102	1	Crankcase (4,8,9)	4 - 11, 13, 15	
4	0000 974 1200	1	Notched pin 2.6x8 (4,8,9)		
5	0000 974 1200	1	Notched pin 2.6x8		
6	1128 640 9100	1	Valve		
7	1132 791 2800	1	Annular buffer		
8	1123 791 7305	1	Plug		
9	1121 162 5205	2	Pin		
10	1120 162 5200	1	Pin		
11	1128 162 5200	1	Pin		
12	1121 162 5200	1	Pin (1,2,3,5,6,7,10)		
13	1125 162 5209	1	Pin (4,8,9)		
14	0000 953 6605	2	Collar screw M8 (1,5,6,10)		
15	0000 664 2405	1	Collar screw M8 (2,3,4,7,8,9)		
16	9523 003 4301	2	Grooved ball bearing 15x38x11		
17	9638 003 1581	2	Oil seal 15x25x5		
17	9639 003 1585	2	Oil seal 15x25x5		
18	9468 621 1520	1	Circlip 15x1		
19	1133 030 0400	1	Crankshaft (1,2,5)		25.2005
20	1133 030 0401	1	Crankshaft USA, CDN (3,4)		25.2005
21	1133 030 0402	1	Crankshaft (6,7,8,10)		25.2005
22	1133 030 0403	1	Crankshaft USA, CDN (9,10)		25.2005
23	1110 664 0501	1	Bumper spike		
24	9075 478 4085	2	Pan head self-tapping screw IS-D5x18		
25	1133 656 7700	1	Chain catcher		
26	9075 478 4085	1	Pan head self-tapping screw IS-D5x18		

Cylinder MS 270

Reference	Item number	Qty	Description	Contains
1	1133 020 1200	1	Cylinder with piston Ø 44 mm (1)	5 - 9
2	1133 020 1204	1	Cylinder with piston Ø 44 mm USA, AUS, NZ (3,5)	5 - 9
3	1133 020 1201	1	Cylinder with piston Ø 44 mm (2,4)	5 - 9
4	1133 020 1205	1	Cylinder with piston Ø 44 mm (C) USA, CDN (4)	5 - 9
5	1133 030 2000	1	Piston Ø 44 mm (1,2,3,4,5)	6 - 8
6	1133 034 3000	2	Piston ring Ø 44x1.2 mm (1,2,3,4,5)	
7	4119 034 1500	1	Piston pin 10x6.5x28 (1,2,3,4,5)	
8	9463 650 1000	2	Snap ring 10 (1,2,3,4,5)	
9	0000 988 5211	1	Connector (1,2,3,4,5)	
10	9512 003 2250	1	Needle cage 10x13x12.5 (1,2,3,4,5)	
11	9022 341 0900	4	Spline screw IS-M5x28 (1,2,3,4,5)	
12	1133 020 9400	1	Decompression valve (2)	
12	1133 020 9400	1	Decompression valve USA (4)	
13	1133 141 2202	1	Manifold (1,2,3,4,5)	
14	1133 148 7000	1	Tightening ring (1,2,3,4,5)	
15	1117 141 1800	1	Sleeve (1,2,3,4,5)	
16	0000 400 7000	1	Spark plug NGK BPMR7A (1,2,3,4,5)	
17	0783 830 2000	1	Tube of sealant HT red (1,2,3,4,5)	

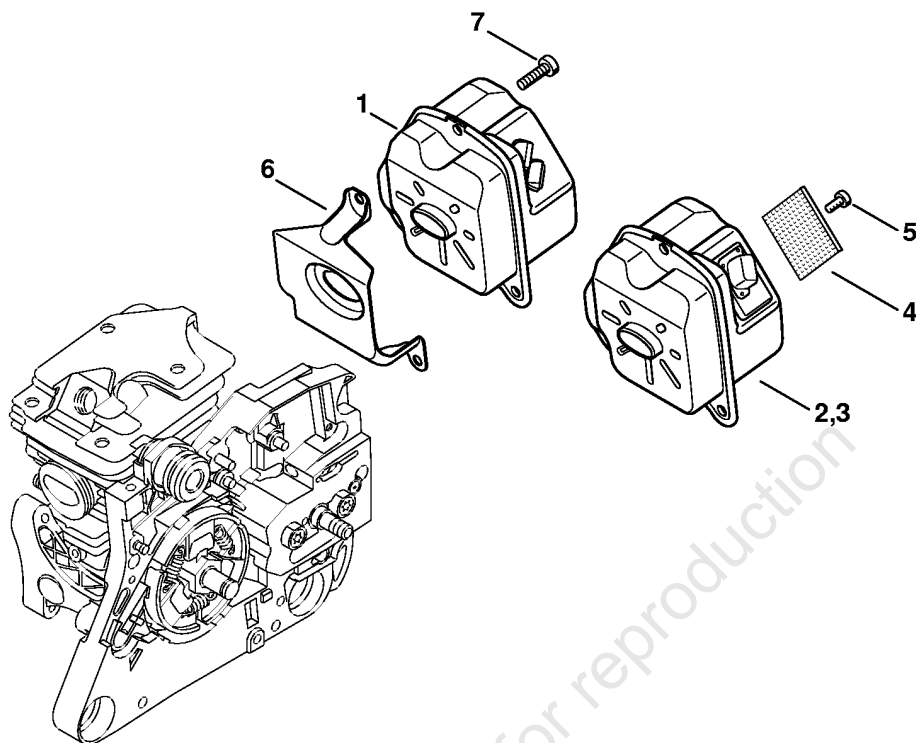
(1) MS 270, (2) MS 270 C-B, (3) MS 270 C-B Z, (4) MS 270 C-BQ Z, (5) MS 270-Z, (6) MS 280, (7) MS 280 C-B, (8) MS 280 C-BQ, (9) MS 280 C-BQ Z, (10) MS 280-Z



146ET001 SC

Cylinder MS 280

Reference	Item number	Qty	Description	Contains
1	1133 020 1202	1	Cylinder with piston Ø 46 mm (6,10)	3 - 7
1	1133 020 1202	1	Cylinder with piston Ø 46 mm USA (10)	3 - 7
2	1133 020 1203	1	Cylinder with piston Ø 46 mm (7,8,9,10)	3 - 7
3	1133 030 2001	1	Piston Ø 46 mm (6,7,8,9,10)	4 - 6
4	4116 034 3005	2	Piston ring Ø 46x1.2 mm (6,7,8,9,10)	
5	1110 034 1500	1	Piston pin 10x6x32 (6,7,8,9,10)	
6	9463 650 1000	2	Snap ring 10 (6,7,8,9,10)	
7	0000 988 5211	1	Connector (6,7,8,9,10)	
8	9512 003 2275	1	Needle cage 10x13x14.5 (6,7,8,9,10)	
9	9022 341 0900	4	Spline screw IS-M5x28 (6,7,8,9,10)	
10	1133 020 9400	1	Decompression valve (7,8,9)	
10	1133 020 9400	1	Decompression valve CDN, AUS, NZ (10)	
11	1133 141 2202	1	Manifold (6,7,8,9,10)	
12	1133 148 7000	1	Tightening ring (6,7,8,9,10)	
13	1117 141 1800	1	Sleeve (6,7,8,9,10)	
14	0000 400 7000	1	Spark plug NGK BPMR7A (6,7,8,9,10)	
14	1110 400 7005	1	Spark plug Bosch WSR 6 F (6,7,8,9,10)	
15	0783 830 2000	1	Tube of sealant HT red (6,7,8,9,10)	



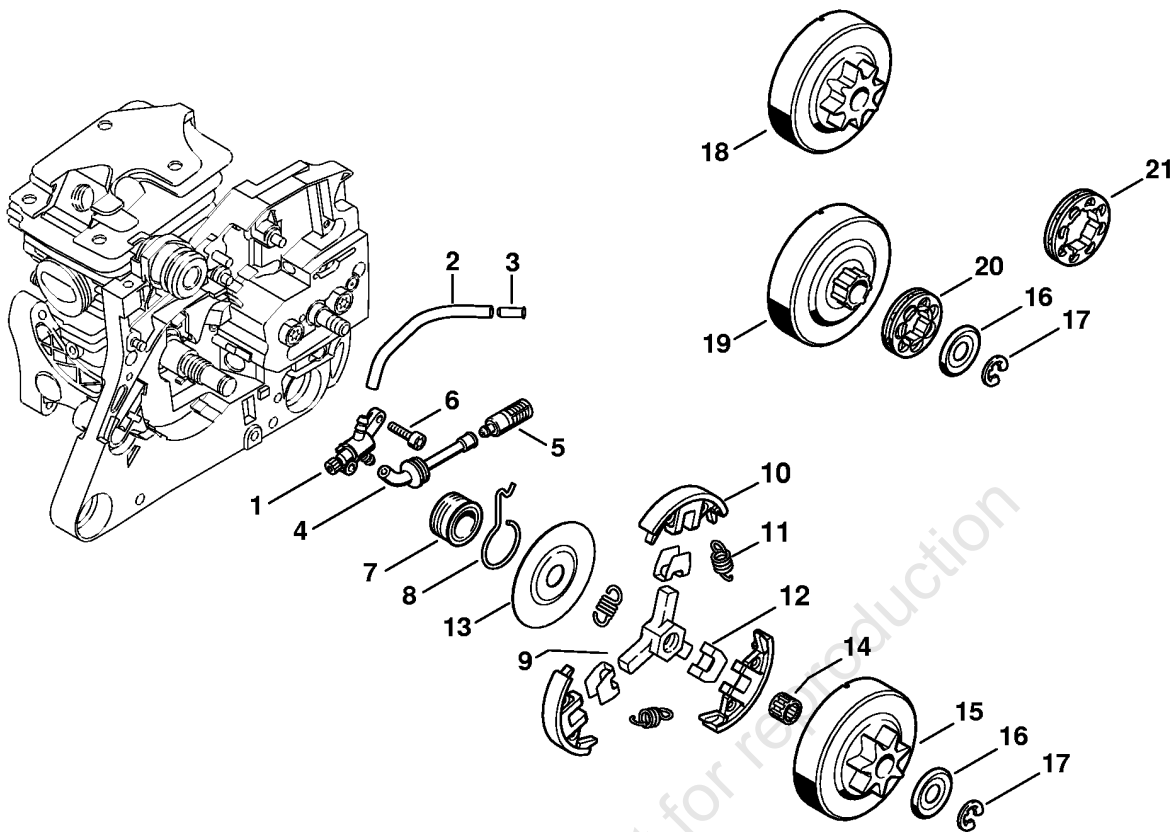
146ET014 SC

Muffler

Reference	Item number	Qty	Description	Contains
1	1133 140 0600	1	Muffler	
2	1133 140 0601	1	Muffler CDN, AUS, NZ	4, 5
3	1133 140 0606	1	Muffler USA	4, 5
4	1133 141 9000	1	Screen	
5	9039 448 0656	1	Self-tapping screw M4x9.6	
6	1133 141 3200	1	Cooling plate	
7	9075 478 4085	3	Pan head self-tapping screw IS-D5x18	

online version, not for reproduction

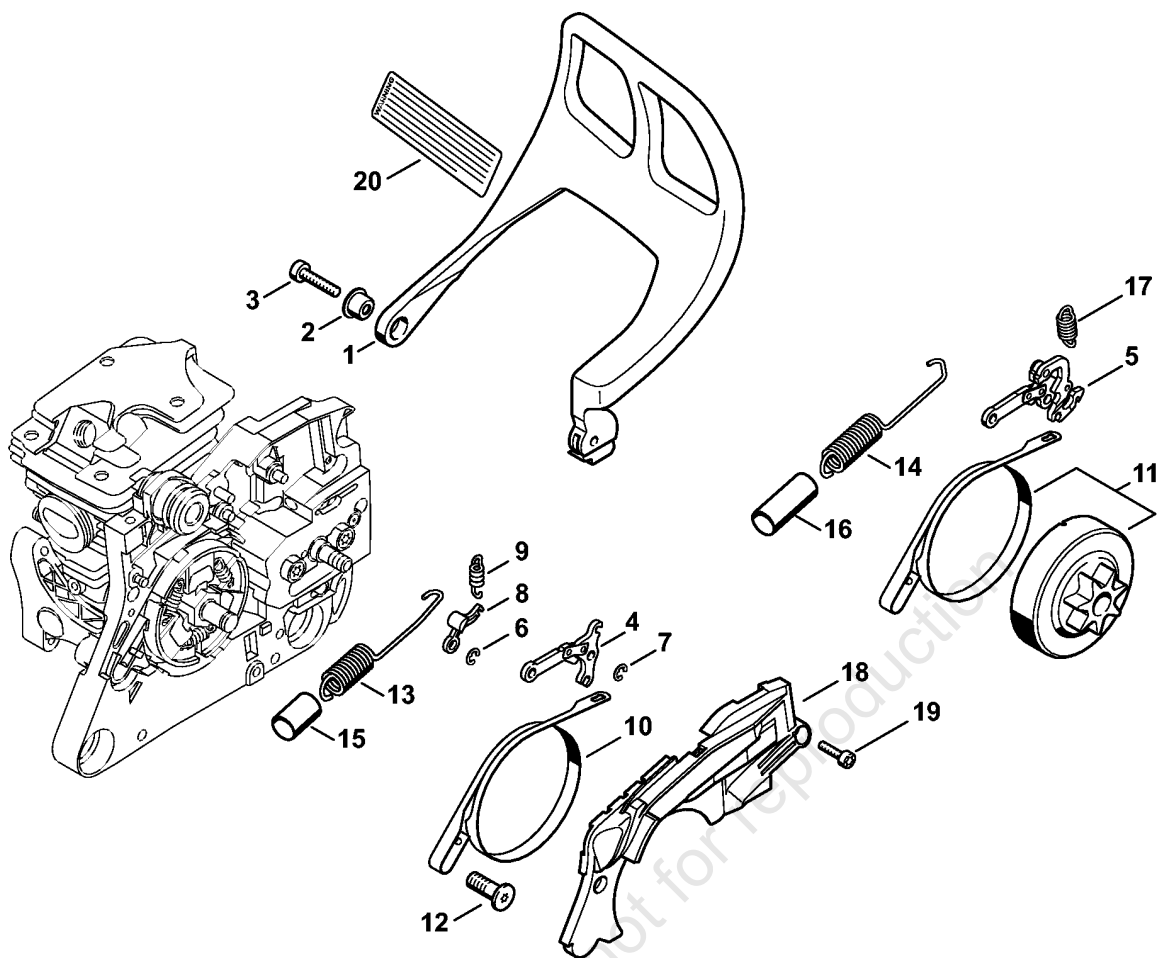
Oil pump, Clutch



146ET023 SC

Oil pump, Clutch

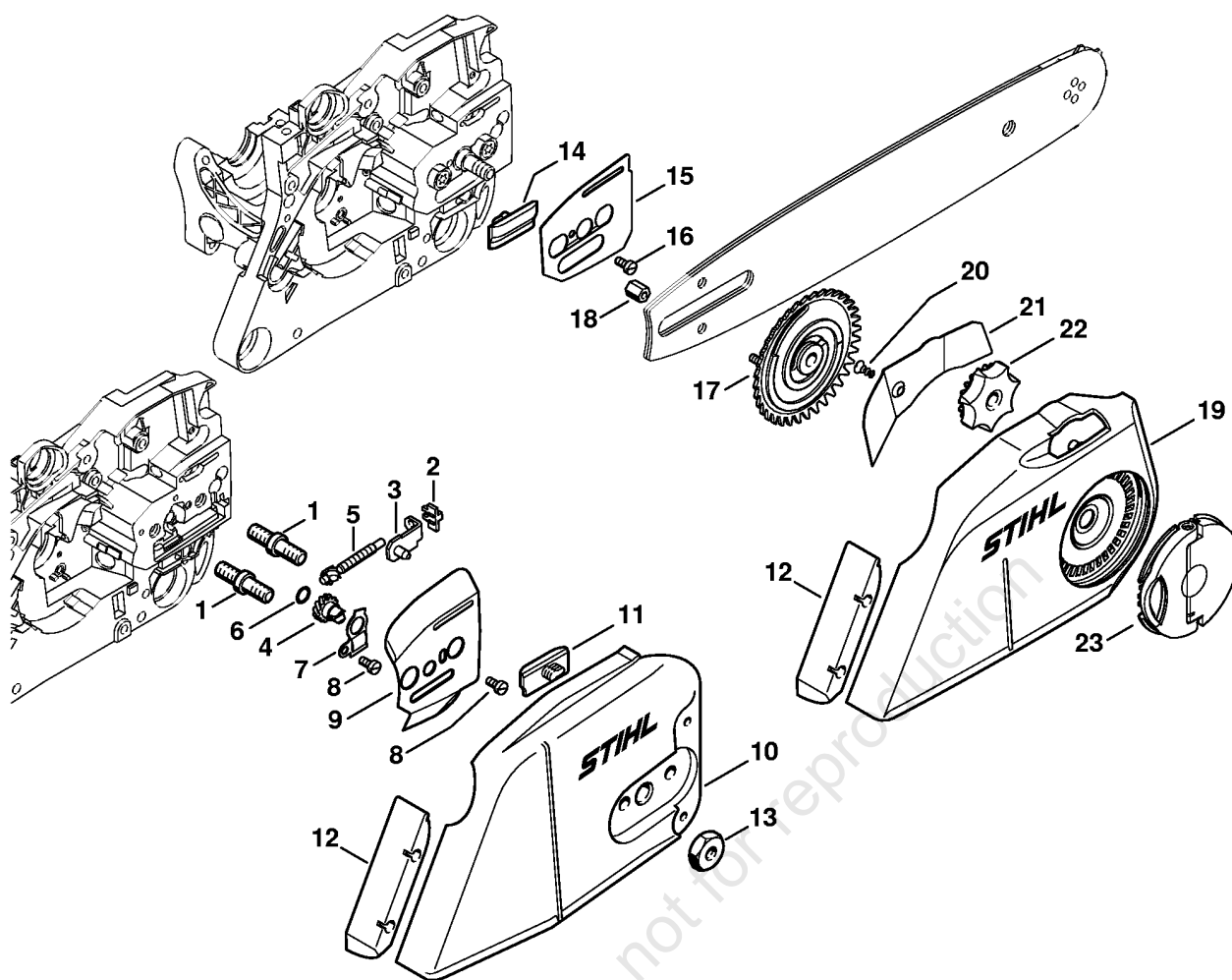
Reference	Item number	Qty	Description	Contains
1	1133 640 3200	1	Oil pump	2, 3
2	4116 358 0700	1	Hose	
3	1125 641 4900	1	Sleeve	
4	1133 647 9400	1	Hose	
5	1123 640 3800	1	Pickup body	
6	9075 478 3016	2	Pan head self-tapping screw IS-D4x16	
7	1133 640 7100	1	Worm	8
8	1133 647 2400	1	Spring	
	1121 160 2051	1	Clutch	9 - 13
9	1121 162 3201	1	Carrier	
10	1121 162 0802	3	Clutch shoe	
11	0000 997 5600	3	Tension spring	
12	1127 162 3000	3	Retainer	
13	1121 162 1001	1	Cover washer	
14	9512 933 2260	1	Needle cage 10x13x10	
15	1121 640 2004	1	Chain sprocket 0.325" 7T (1,2,3,5,6,7,10)	
16	0000 958 1022	1	Washer Ø 27 mm	
17	9460 624 0801	1	E-clip 8x1.3	
18	1121 640 2005	1	Chain sprocket 0.325" 8T (B) (1,2,3,5,6,7,10)	
	1121 007 1037	1	Rim sprocket kit 0.325" 7T (B) (1,2,3,5,6,7,10)	16, 17, 19, 20
	1121 007 1041	1	Rim sprocket kit 3/8" 7T (B) F (6,7,10)	16, 17, 19, 20
19		1	Clutch drum (B,D) (1,2,3,5,6,7,10)	
20	0000 642 1236	1	Rim sprocket 0.325" 7T (B) (1,2,3,5,6,7,10)	
20	* 0000 642 1231	1	Rim sprocket 3/8" 7T (B) F (6,7,10)	
	1121 007 1038	1	Rim sprocket kit 0.325" 8T (B) (1,2,3,5,6,7,10)	16, 17, 19, 21
21	0000 642 1234	1	Rim sprocket 0.325" 8T (B) (1,2,3,5,6,7,10)	



146ET029 SC

Chain brake

Reference	Item number	Qty	Description	Contains
1	1133 792 9101	1	Hand guard	
2	1133 791 7201	1	Sleeve	
3	9075 478 4155	1	Pan head self-tapping screw IS-D5x24	
4	1128 160 5000	1	Lever (1,2,3,5,6,7,10)	
5	1133 160 5000	1	Brake lever (4,8,9)	
6	9460 624 0400	1	E-clip 4	
7	9460 624 0400	1	E-clip 4 (1,2,3,5,6,7,10)	
8	1121 162 5010	1	Lever	
9	0000 997 0628	1	Spring	
10	1133 160 5400	1	Brake band (1,2,3,5,6,7,10)	
11	1133 160 5450	1	Brake band (4,8,9)	
12	1125 162 9300	1	Screw	
13	1121 160 5501	1	Tension spring (1,2,3,5,6,7,10)	15
14	1125 160 5501	1	Tension spring (4,8,9)	16
15	1121 162 8000	1	Hose 12x1x20 mm (1,2,3,5,6,7,10)	
16	1140 162 8001	1	Hose (4,8,9)	
17	1133 162 7901	1	Tension spring (4,8,9)	
18	1133 021 1100	1	Cover	
19	9075 478 3016	2	Pan head self-tapping screw IS-D4x16	
20	0000 967 3630	1	Instruction label USA	

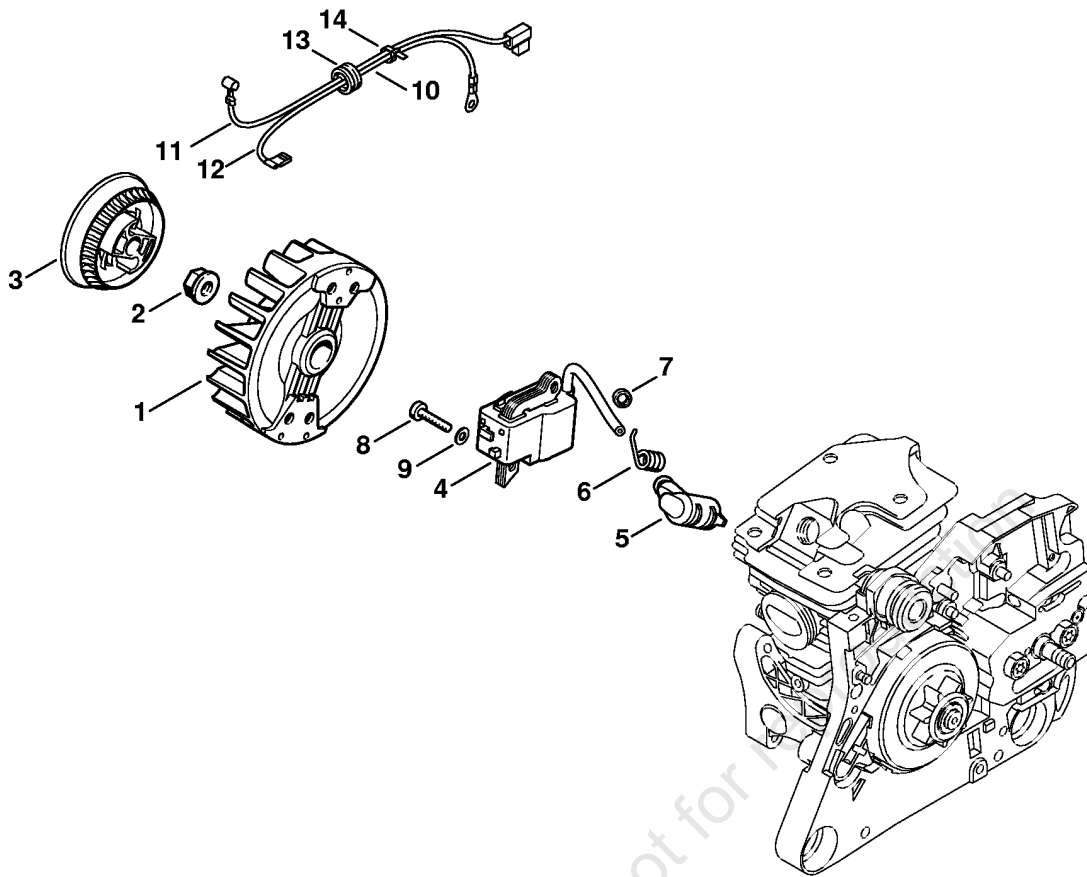


146ET005 SC

Chain tensioner

Reference	Item number	Qty	Description	Contains
1	0000 953 6605	2	Collar screw M8 (1,5,6,10)	
2	1125 664 1400	1	Thrust pad (1,5,6,10)	
3	1125 640 1900	1	Tensioner slide (1,5,6,10)	
	1125 007 1021	1	Spur gear / chain adjusting screw kit (1,5,6,10)	4 - 6
4		1	Spur gear (D) (1,5,6,10)	
5		1	Adjusting screw (D) (1,5,6,10)	
6	9646 945 0490	1	O-ring 7x1.5 (1,5,6,10)	
7	1122 664 2200	1	Cover plate (1,5,6,10)	
8	9041 216 0630	2	Pan head screw M4x8 (1,5,6,10)	
9	1122 664 1000	1	Inner side plate 0.5 mm (1,5,6,10)	
10	1128 640 1706	1	Chain sprocket cover (1,5,6,10)	11, 12
11	1121 648 6610	2	Bumper strip (1,5,6,10)	
12	1125 656 1501	1	Guard	
13	0000 955 0801	2	Hexagon nut M8 (1,5,6,10)	
14	1121 648 6610	1	Bumper strip (2,3,4,7,8,9)	
15	1121 664 1000	1	Inner side plate (2,3,4,7,8,9)	
16	9041 216 0630	1	Pan head screw M4x8 (2,3,4,7,8,9)	
17	1135 660 3000	1	Tensioning gear (2,3,4,7,8,9)	18
18	1121 664 7301	1	Nut M4 (2,3,4,7,8,9)	
19	1121 640 1700	1	Chain sprocket cover (2,3,4,7,8,9)	12, 20 - 22
20	9076 478 2996	1	Pan head self-tapping screw P4x12 (2,3,4,7,8,9)	
21	1121 648 3800	1	Cover plate (2,3,4,7,8,9)	
22	1121 648 2200	1	Adjusting wheel (2,3,4,7,8,9)	
23	1121 660 1000	1	Wing nut (2,3,4,7,8,9)	

Ignition system

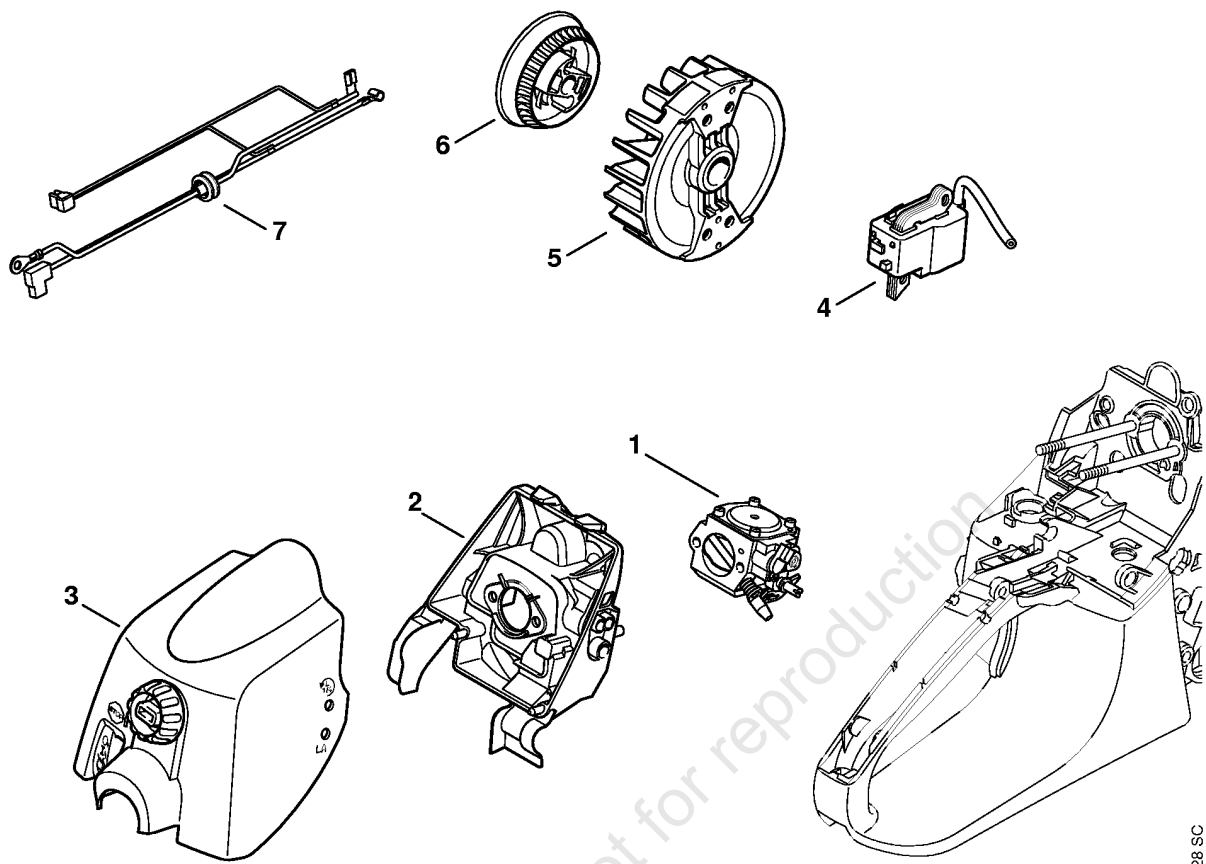


146ET024 SC

Ignition system

Reference	Item number	Qty	Description	Contains	Technical Information
1	1133 400 1204	1	Flywheel (1,2,3,4,5,6,7,8,9,10)		25.2005
2	0000 955 0802	1	Collar nut M8x1		
	* 1133 400 1250	1	Flywheel (1,2,3,4,5,6,7,8,9,10)	1, 3	21.2006 25.2005
3	1133 195 0401	1	Rope rotor		
4	1133 400 1350	1	Ignition module (1,2,3,4,5,6,7,8,9,10)	5 - 7	
5	1128 405 1000	1	Spark plug boot		
6	0000 998 0604	1	Spark plug contact spring		
7	1133 405 6600	1	Ring		
8	9075 478 3022	2	Pan head self-tapping screw IS-D4x20		
9	9291 021 0100	1	Washer 4.3		
10	1133 440 3001	1	Wiring harness (1,2,3,4,5,6,7,8,9,10)	11 - 14	
11		1	Short circuit wire (D) (1,2,3,4,5,6,7,8,9,10)		
12		1	Ground wire (D) (1,2,3,4,5,6,7,8,9,10)		
13		1	Grommet (D) (1,2,3,4,5,6,7,8,9,10)		
14		1	Hose tie (D) (1,2,3,4,5,6,7,8,9,10)		

Ignition system (Intelligent Engine Management IEM)

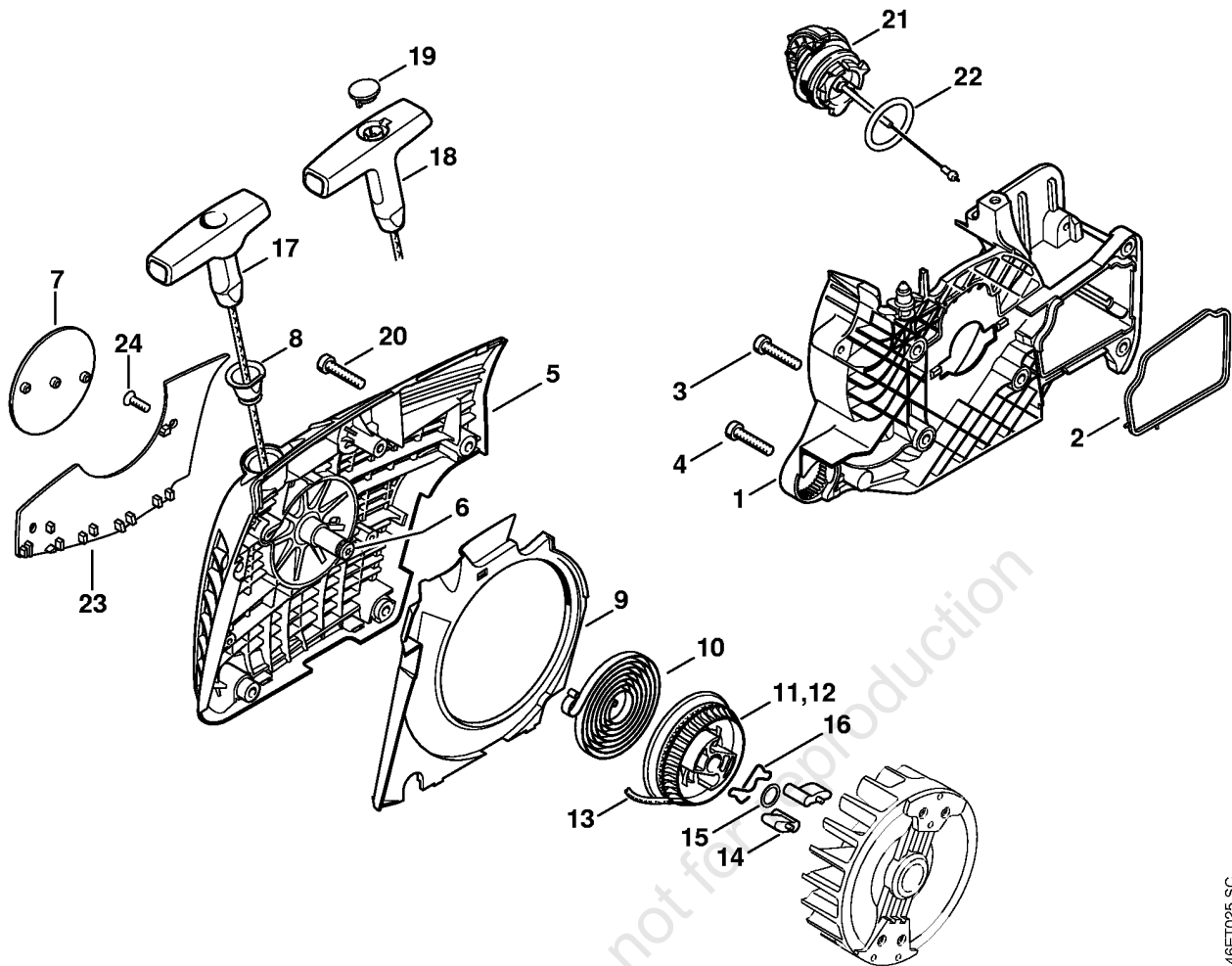


146ET028 SC

Ignition system (Intelligent Engine Management IEM)

Reference	Item number	Qty	Description	Contains	Technical Information
1	1133 120 0612	1	Carburetor HD-39 (6,7,8,9,10)		
2	1133 124 3401	1	Filter base (6,7,8,9,10)		
3	1133 140 1902	1	Carburetor box cover (6,7,8,9,10)		
4	1133 400 1353	1	Ignition module (6,7,8,9,10)		
5	1133 400 1205	1	Flywheel (6,7,8,9,10)		25.2005
	* 1133 400 1251	1	Flywheel (6,7,8,9,10)	5, 6	57.2006 25.2005
6	1133 195 0401	1	Rope rotor (6,7,8,9,10)		
7	1133 440 3002	1	Wiring harness (6,7,8,9,10)		

Fan housing with rewind starter



146ET025 SC

Fan housing with rewind starter

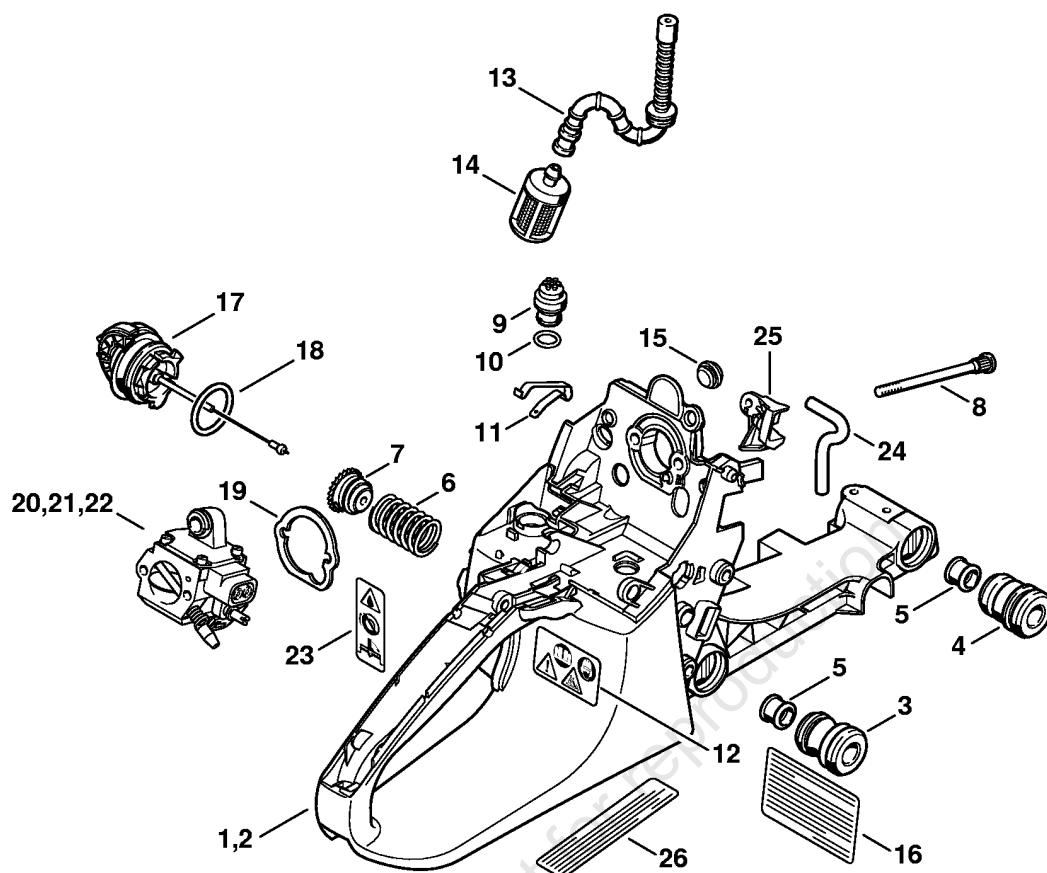
Reference	Item number	Qty	Description	Contains	Technical Information
1	1133 080 1802	1	Fan housing	2	
2	1133 029 0500	1	Gasket		
3	9075 478 4159	5	Pan head self-tapping screw IS-D5x24		
4	9075 478 4155	1	Pan head self-tapping screw IS-D5x24		
	1133 080 2807	1	Fan cover with rewind starter (1,3,5,6,10)	5 - 11, 13 - 17	
	* 1133 080 2800	1	Fan cover with rewind starter (1,3,5,6,10)	5 - 10, 12 - 17	57.2006 21.2006
	1133 080 2808	1	Fan cover with rewind starter (2,4,7,8,9)	5 - 11, 13 - 16, 18, 19	
	* 1133 080 2802	1	Fan cover with rewind starter (2,4,7,8,9)	5 - 10, 12 - 16, 18, 19	57.2006 21.2006
5	1133 080 3101	1	Fan cover	6, 8	
6		1	Screw (D)		
7	1133 967 1500	1	Model plate MS 270 (1,5)		
7	1133 967 1502	1	Model plate MS 270 C (2,3,4)		
7	1133 967 1501	1	Model plate MS 280 (6,10)		
7	1133 967 1503	1	Model plate MS 280 C (7,8,9)		
8	1110 084 9102	1	Bushing		
9	1133 084 7800	1	Segment		
10	1129 190 0601	1	Rewind spring		
11	1133 195 0401	1	Rope rotor		
12	* 1133 195 0400	1	Rope rotor		57.2006 21.2006
13	1113 195 8200	1	Starter rope Ø 3.5x960 mm		
	0000 930 2203	1	Starter rope Ø 3.5 mm x 30.5 m (A,B)		
	0000 930 2212	1	Starter rope Ø 3.5 mm x 60.8 m (A,B)		
14	1125 195 7200	2	Pawl		
15	0000 958 0923	1	Washer		
16	1128 195 3500	1	Spring		
17	1121 195 3400	1	Starter grip (1,3,5,6,10)		
18	0000 190 3401	1	Starter grip ElastoStart Ø 3.5 mm (2,4,7,8,9)	13, 19	
19	0000 195 7001	1	Cap (2,4,7,8,9)		
20	9075 478 4159	4	Pan head self-tapping screw IS-D5x24		
21	0000 350 0533	1	Filler cap	22	
22	9645 948 7734	1	O-ring 25x3.5		

(1) MS 270, (2) MS 270 C-B, (3) MS 270 C-B Z, (4) MS 270 C-BQ Z, (5) MS 270-Z, (6) MS 280, (7) MS 280 C-B, (8) MS 280 C-BQ, (9) MS 280 C-BQ Z, (10) MS 280-Z

Fan housing with rewind starter

Reference	Item number	Qty	Description	Contains	Technical Information
	1133 080 7500	1	Cover plate (B)	23, 24	
23	1133 084 8200	1	Cover plate (B)		
24	9099 021 2770	2	Self-tapping screw 3.9x13 (B)		

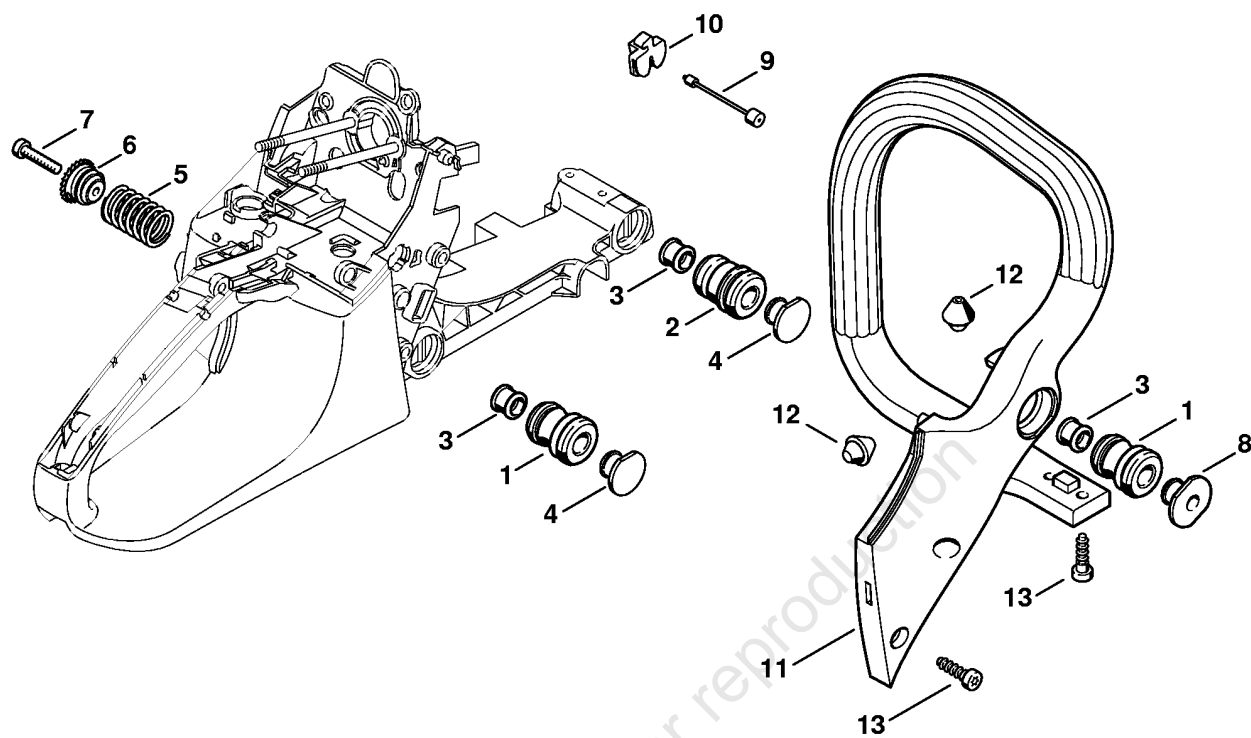
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146ET026 SC

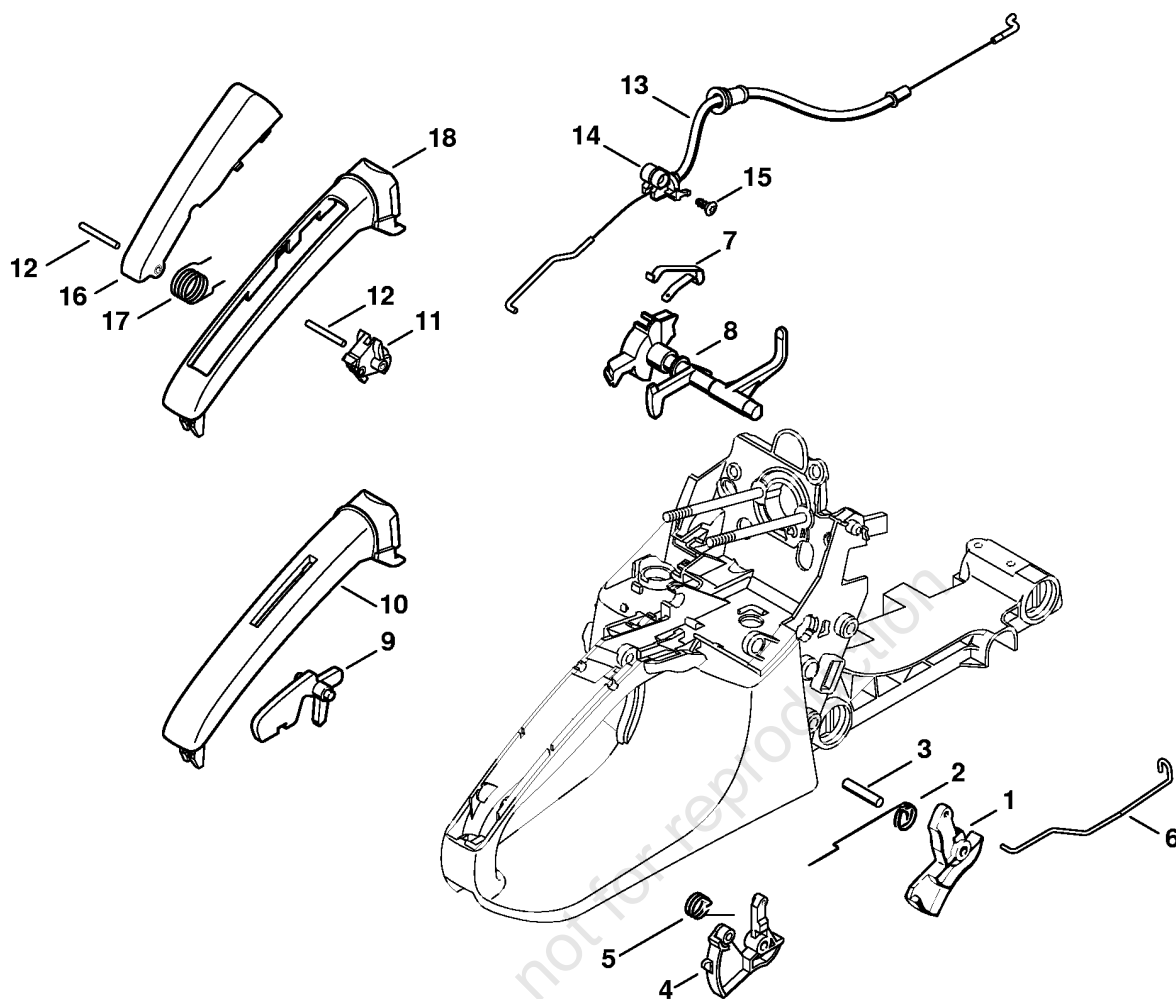
Tank housing

Reference	Item number	Qty	Description	Contains	Technical Information
1	1133 350 0802	1	Tank housing (1,2,3,5,6,7,10)	3 - 13	
2	1133 350 0813	1	Tank housing (4,8,9)	3 - 11, 13, 16	
3	1132 791 2800	1	Annular buffer		
4	1123 791 2800	1	Annular buffer		
5	1123 791 7305	2	Plug		
6	1133 791 3100	1	Spring		
7	1133 792 2900	1	AV mount		
8	1133 122 6600	2	Collar screw		
9	0000 350 5800	1	Tank vent	10	
10		1	O-ring (D)		
11	1133 442 1600	1	Contact spring		
12	0000 967 3662	1	Warning pictogram MS (1,2,3,5,6,7,10)		
13	1129 358 7702	1	Hose		
14	0000 350 3518	1	Pickup body		
15	1121 791 2800	1	Stop buffer		
16	1125 967 3419	1	Warning pictogram QS (4,8,9)		
17	0000 350 0533	1	Filler cap	18	
18	9645 948 7734	1	O-ring 25x3.5		
19	1119 121 8600	1	Washer		
20	1133 120 0604	1	Carburetor HD-33 (1,2,3,4,5)		
21	1133 120 0612	1	Carburetor HD-39 (6,7,8,9,10)		
22	* 1133 120 0607	1	Carburetor HD-32 (6,7,8,9,10)		49.2006
23	0000 967 3605	1	Warning pictogram Filler cap USA		
24		1	Hose 3.1x5.7x87 mm, R3 (D)		
	0000 930 2803	1	Hose 3.1x5.7 mm x 1 m, R3 (A,B)		
	0712 923 8004	1	Hose 3.1x5.7 mm x 10 m, R3 (A,B)		
25	1133 124 4400	1	Shutter		
26	0000 967 3500	1	Instruction label USA		



AV system, Handlebar

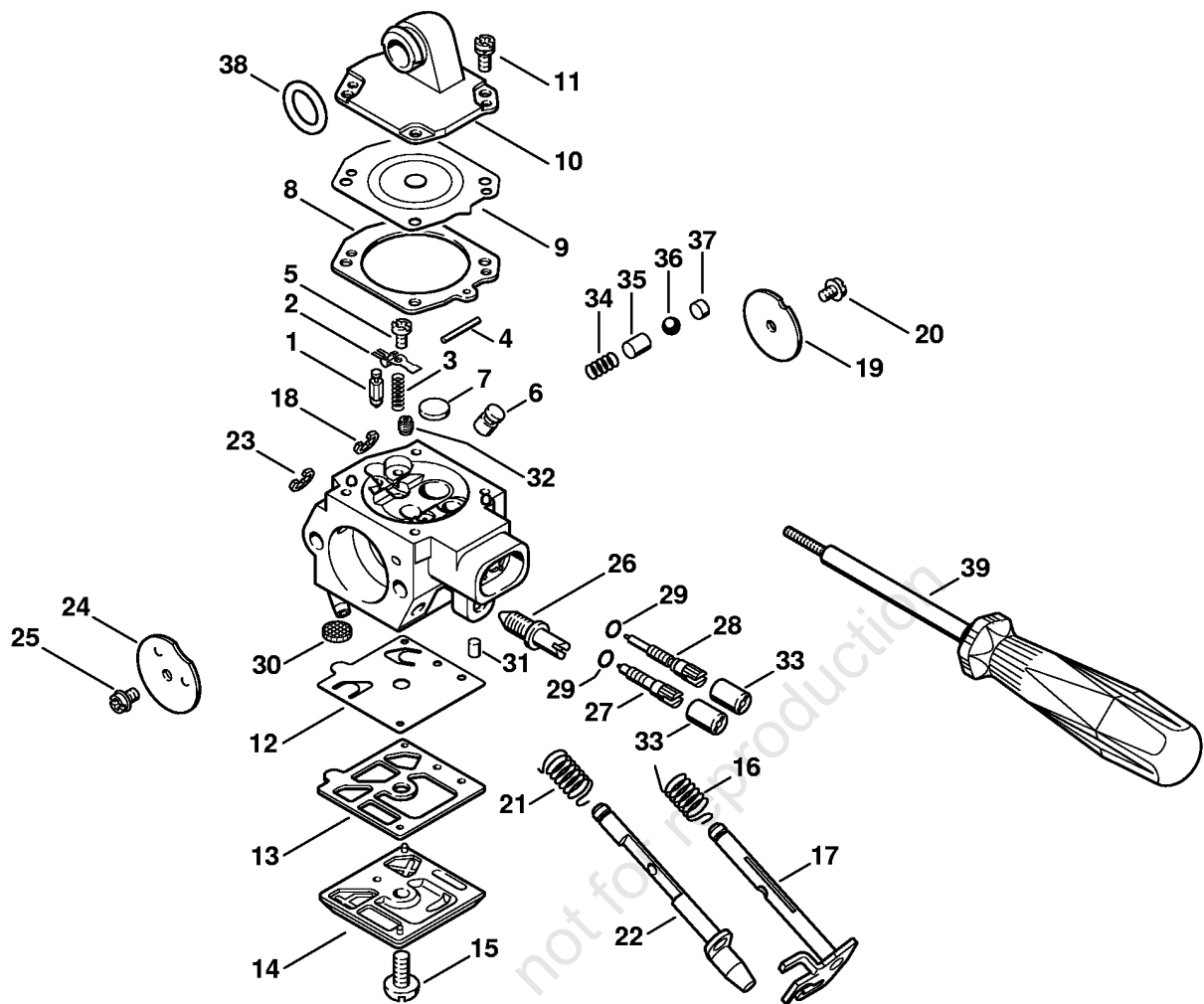
Reference	Item number	Qty	Description	Contains
1	1132 791 2800	2	Annular buffer	
2	1123 791 2800	1	Annular buffer	
3	1123 791 7305	3	Plug	
4	1123 791 7300	2	Plug	
5	1133 791 3100	1	Spring	
6	1133 792 2900	1	AV mount	
7	9075 478 4155	1	Pan head self-tapping screw IS-D5x24	
8	1133 791 7300	1	Plug	
9	1133 790 8100	1	Retainer	
10	1133 792 1600	1	Clip	
11	1133 790 1700	1	Handlebar	12
12	1133 791 5900	2	Stop buffer	
13	9074 478 4475	4	Pan head self-tapping screw IS-P6x21.5	



146ET010 SC

Throttle control

Reference	Item number	Qty	Description	Contains
1	1118 182 1006	1	Throttle trigger (1,2,3,5,6,7,10)	
2	1117 182 4500	1	Torsion spring (1,2,3,5,6,7,10)	
3	9371 470 2620	1	Cylindrical pin 5x20	
4	1125 180 1503	1	Throttle trigger (4,8,9)	
5	1125 182 4505	1	Torsion spring (4,8,9)	
6	1133 182 1501	1	Throttle rod	
7	1133 442 1600	1	Contact spring	
8	1133 182 0901	1	Switch shaft	
9	1133 182 0800	1	Lockout lever (1,2,3,5,6,7,10)	
10	1133 791 0600	1	Handle molding (1,2,3,5,6,7,10)	
11	1125 180 1405	1	Trigger switch (4,8,9)	
12	9517 003 0650	2	Cylindrical roller 3x25.8 (4,8,9)	
13	1133 160 2500	1	Brake cable (4,8,9)	14, 15
14	1133 182 1600	1	Support (4,8,9)	
15	9104 003 8710	1	Self-tapping screw P4x10 (4,8,9)	
16	1125 180 1703	1	Lockout lever (4,8,9)	17
17	1125 182 4502	1	Torsion spring (4,8,9)	
18	1133 791 0601	1	Handle molding (4,8,9)	



146ET011 SC

Carburetor HD-33

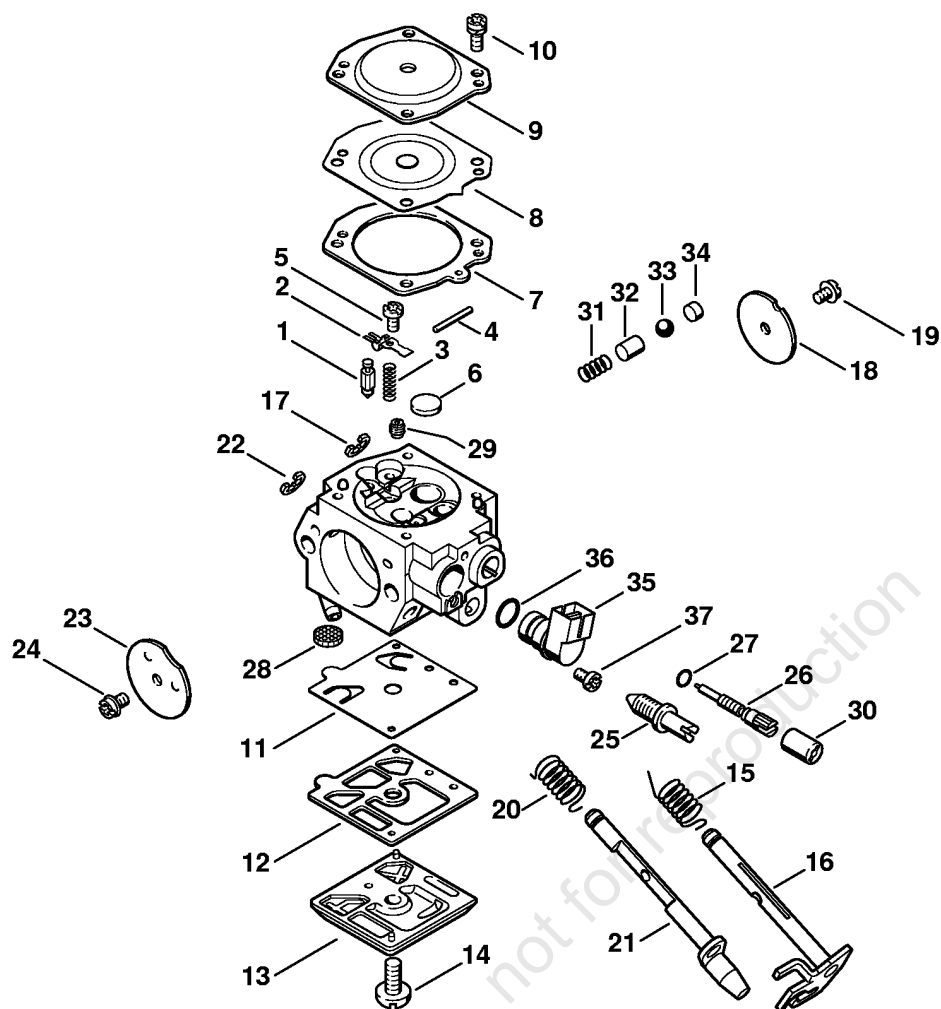
Reference	Item number	Qty	Description	Contains
	1133 120 0604	1	Carburetor HD-33 (1,2,3,4,5)	1 - 37
1	4116 121 5100	1	Inlet needle (1,2,3,4,5)	
2	4116 121 5000	1	Inlet control lever (1,2,3,4,5)	
3	1128 122 3002	1	Spring (1,2,3,4,5)	
4	1113 121 9200	1	Spindle (1,2,3,4,5)	
5	1114 122 7400	1	Round head screw (1,2,3,4,5)	
6	1133 121 5400	1	Valve jet (1,2,3,4,5)	
7	4117 122 9402	1	Plug (1,2,3,4,5)	
8	1128 129 0906	1	Gasket (1,2,3,4,5)	
9	4116 121 4700	1	Metering diaphragm (1,2,3,4,5)	
10	1133 121 0803	1	End cover (1,2,3,4,5)	
11	1121 122 7101	4	Screw (1,2,3,4,5)	
12	4116 121 4800	1	Pump diaphragm (1,2,3,4,5)	
13	4116 129 0902	1	Gasket (1,2,3,4,5)	
14	1133 121 0802	1	End cover (1,2,3,4,5)	
15	1114 122 7100	1	Screw (1,2,3,4,5)	
16	1127 122 3205	1	Torsion spring (1,2,3,4,5)	
17	1133 120 7101	1	Throttle shaft with lever (1,2,3,4,5)	
18	1117 122 9000	1	E-clip (1,2,3,4,5)	
19	1133 121 3300	1	Throttle shutter (1,2,3,4,5)	
20	1115 122 7400	1	Round head screw (1,2,3,4,5)	
21	1133 122 3200	1	Torsion spring (1,2,3,4,5)	
22	1133 120 7201	1	Choke shaft with lever (1,2,3,4,5)	
23	1123 122 9000	1	E-clip (1,2,3,4,5)	
24	1122 121 2900	1	Choke shutter (1,2,3,4,5)	
25	1110 122 7400	1	Round head screw (1,2,3,4,5)	
26	1133 122 6200	1	Idle speed screw (1,2,3,4,5)	
27	1128 122 6703	1	High speed screw (1,2,3,4,5)	29
28	1133 122 6800	1	Low speed screw (1,2,3,4,5)	29
29		1	Sealing ring (D) (1,2,3,4,5)	
30	1114 121 7800	1	Strainer (1,2,3,4,5)	
31	1122 121 7700	1	Clamp (1,2,3,4,5)	
32	1127 121 5602	1	Fixed jet 0.58 (1,2,3,4,5)	
33	4203 121 2700	1	Cap (1,2,3,4,5)	
	1133 120 9700	1	Pump piston kit (1,2,3,4,5)	34 - 37
34		1	Spring (D) (1,2,3,4,5)	
35		1	Pump piston (D) (1,2,3,4,5)	
36		1	Ball (D) (1,2,3,4,5)	

(1) MS 270, (2) MS 270 C-B, (3) MS 270 C-B Z, (4) MS 270 C-BQ Z, (5) MS 270-Z, (6) MS 280, (7) MS 280 C-B, (8) MS 280 C-BQ, (9) MS 280 C-BQ Z, (10) MS 280-Z

Carburetor HD-33

Reference	Item number	Qty	Description	Contains
37		1	Plug (D) (1,2,3,4,5)	
38	9645 945 7505	1	O-ring 10x2.5 (1,2,3,4,5)	
39	5910 890 4500	1	Puller (B) (1,2,3,4,5)	
	1128 007 1066	1	Set of carburetor parts (1,2,3,4,5)	1 - 3, 8, 9, 12, 13, 30

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146ET022 SC

Carburetor HD-39

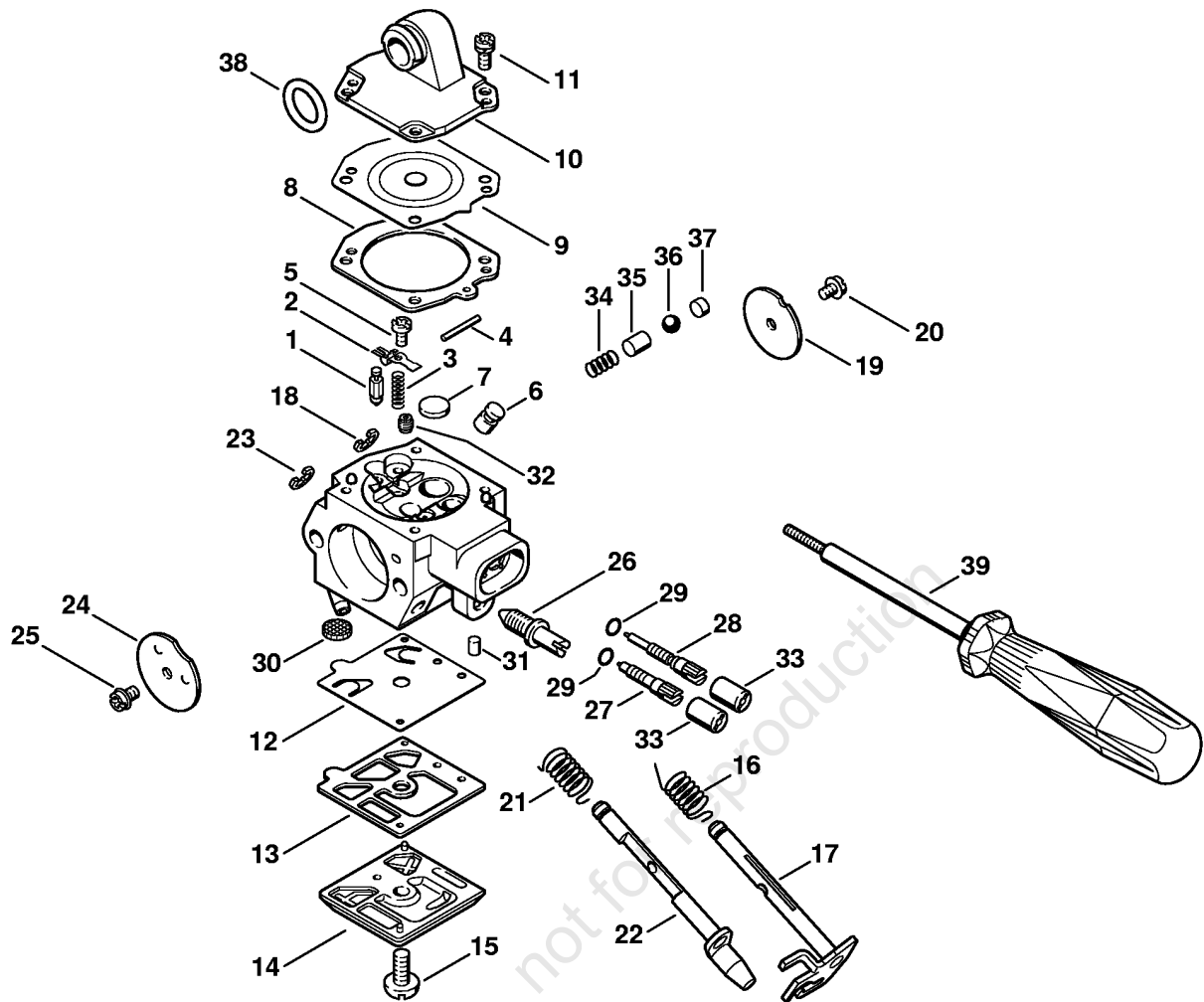
Reference	Item number	Qty	Description	Contains
	1133 120 0612	1	Carburetor HD-39 (6,7,8,9,10)	1 - 37
1	4116 121 5100	1	Inlet needle (6,7,8,9,10)	
2	4116 121 5000	1	Inlet control lever (6,7,8,9,10)	
3	1128 122 3002	1	Spring (6,7,8,9,10)	
4	1113 121 9200	1	Spindle (6,7,8,9,10)	
5	1114 122 7400	1	Round head screw (6,7,8,9,10)	
6	4117 122 9402	1	Plug (6,7,8,9,10)	
7	1128 129 0906	1	Gasket (6,7,8,9,10)	
8	4116 121 4700	1	Metering diaphragm (6,7,8,9,10)	
9	4116 121 0800	1	End cover (6,7,8,9,10)	
10	1106 122 7400	4	Round head screw (6,7,8,9,10)	
11	4116 121 4800	1	Pump diaphragm (6,7,8,9,10)	
12	4116 129 0902	1	Gasket (6,7,8,9,10)	
13	1133 121 0802	1	End cover (6,7,8,9,10)	
14	1114 122 7100	1	Screw (6,7,8,9,10)	
15	1127 122 3205	1	Torsion spring (6,7,8,9,10)	
16	1133 120 7101	1	Throttle shaft with lever (6,7,8,9,10)	
17	1117 122 9000	1	E-clip (6,7,8,9,10)	
18	1133 121 3301	1	Throttle shutter (6,7,8,9,10)	
19	1115 122 7400	1	Round head screw (6,7,8,9,10)	
20	1133 122 3200	1	Torsion spring (6,7,8,9,10)	
21	1133 120 7201	1	Choke shaft with lever (6,7,8,9,10)	
22	1123 122 9000	1	E-clip (6,7,8,9,10)	
23	1122 121 2900	1	Choke shutter (6,7,8,9,10)	
24	1121 122 7102	1	Round head screw (6,7,8,9,10)	
25	1133 122 6200	1	Idle speed screw (6,7,8,9,10)	
26	1133 122 6801	1	Low speed screw (6,7,8,9,10)	27
27		1	Sealing ring (D) (6,7,8,9,10)	
28	1114 121 7800	1	Strainer (6,7,8,9,10)	
29	1133 121 5600	1	Fixed jet 0.37 (6,7,8,9,10)	
30	4203 121 2700	1	Cap (6,7,8,9,10)	
	1133 120 9700	1	Pump piston kit (6,7,8,9,10)	31 - 34
31		1	Spring (D) (6,7,8,9,10)	
32		1	Pump piston (D) (6,7,8,9,10)	
33		1	Ball (D) (6,7,8,9,10)	
34		1	Plug (D) (6,7,8,9,10)	
35	0000 120 5100	1	Solenoid valve (6,7,8,9,10)	36
36	9645 945 3001	1	O-ring 7x0.8 (6,7,8,9,10)	

(1) MS 270, (2) MS 270 C-B, (3) MS 270 C-B Z, (4) MS 270 C-BQ Z, (5) MS 270-Z, (6) MS 280, (7) MS 280 C-B, (8) MS 280 C-BQ, (9) MS 280 C-BQ Z, (10) MS 280-Z

Carburetor HD-39

Reference	Item number	Qty	Description	Contains
37	1114 122 7400	1	Round head screw (6,7,8,9,10)	
	1128 007 1066	1	Set of carburetor parts (6,7,8,9,10)	1 - 3, 7, 8, 11, 12, 28

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146ET011 SC

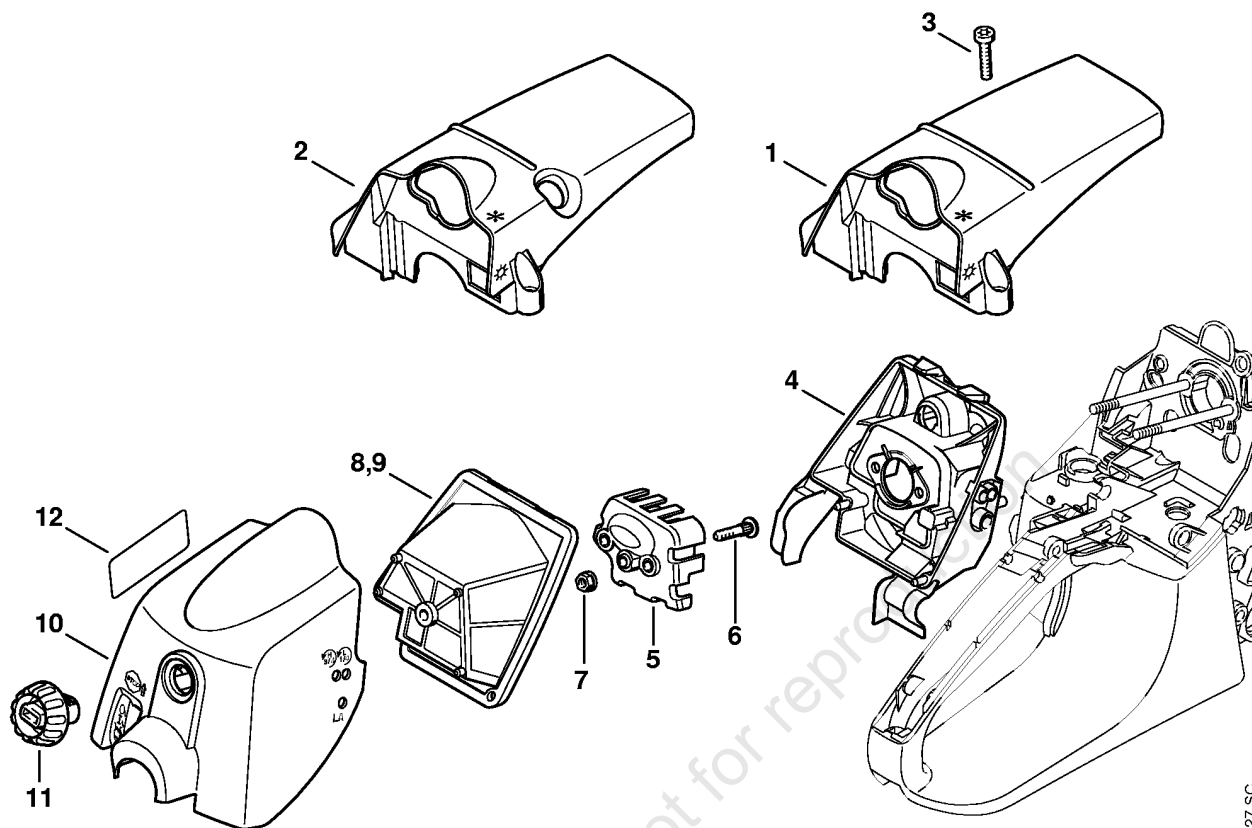
Carburetor HD-32 (49.2006)

Reference	Item number	Qty	Description	Contains	Technical Information
	* 1133 120 0607	1	Carburetor HD-32 (6,7,8,9,10)	1 - 37	49.2006
1	* 4116 121 5100	1	Inlet needle (6,7,8,9,10)		49.2006
2	* 4116 121 5000	1	Inlet control lever (6,7,8,9,10)		49.2006
3	* 1128 122 3002	1	Spring (6,7,8,9,10)		49.2006
4	* 1113 121 9200	1	Spindle (6,7,8,9,10)		49.2006
5	* 1114 122 7400	1	Round head screw (6,7,8,9,10)		49.2006
6	* 1133 121 5400	1	Valve jet (6,7,8,9,10)		49.2006
7	* 4117 122 9402	1	Plug (6,7,8,9,10)		49.2006
8	* 1128 129 0906	1	Gasket (6,7,8,9,10)		49.2006
9	* 4116 121 4700	1	Metering diaphragm (6,7,8,9,10)		49.2006
10	* 1133 121 0803	1	End cover (6,7,8,9,10)		49.2006
11	* 1121 122 7101	4	Screw (6,7,8,9,10)		49.2006
12	* 4116 121 4800	1	Pump diaphragm (6,7,8,9,10)		49.2006
13	* 4116 129 0902	1	Gasket (6,7,8,9,10)		49.2006
14	* 1133 121 0802	1	End cover (6,7,8,9,10)		49.2006
15	* 1114 122 7100	1	Screw (6,7,8,9,10)		49.2006
16	* 1127 122 3205	1	Torsion spring (6,7,8,9,10)		49.2006
17	* 1133 120 7101	1	Throttle shaft with lever (6,7,8,9,10)		49.2006
18	* 1117 122 9000	1	E-clip (6,7,8,9,10)		49.2006
19	* 1133 121 3301	1	Throttle shutter (6,7,8,9,10)		49.2006
20	* 1115 122 7400	1	Round head screw (6,7,8,9,10)		49.2006
21	* 1133 122 3200	1	Torsion spring (6,7,8,9,10)		49.2006
22	* 1133 120 7201	1	Choke shaft with lever (6,7,8,9,10)		49.2006
23	* 1123 122 9000	1	E-clip (6,7,8,9,10)		49.2006
24	* 1122 121 2900	1	Choke shutter (6,7,8,9,10)		49.2006
25	* 1110 122 7400	1	Round head screw (6,7,8,9,10)		49.2006
26	* 1133 122 6200	1	Idle speed screw (6,7,8,9,10)		49.2006
27	* 1128 122 6703	1	High speed screw (6,7,8,9,10)	29	49.2006
28	* 1133 122 6800	1	Low speed screw (6,7,8,9,10)	29	49.2006
29	*	1	Sealing ring (D) (6,7,8,9,10)		49.2006

(1) MS 270, (2) MS 270 C-B, (3) MS 270 C-B Z, (4) MS 270 C-BQ Z, (5) MS 270-Z, (6) MS 280, (7) MS 280 C-B, (8) MS 280 C-BQ, (9) MS 280 C-BQ Z, (10) MS 280-Z

Carburetor HD-32 (49.2006)

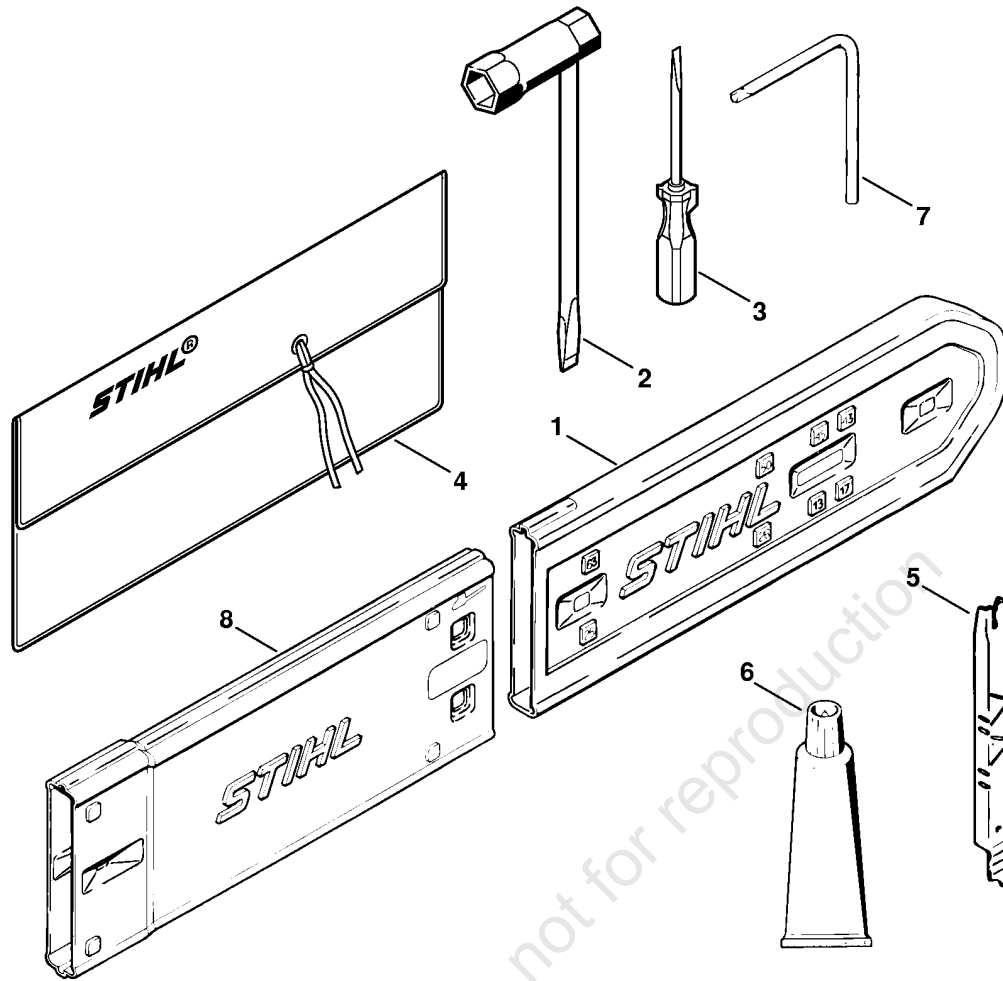
Reference		Item number	Qty	Description	Contains	Technical Information
30	*	1114 121 7800	1	Strainer (6,7,8,9,10)		49.2006
31	*	1122 121 7700	1	Clamp (6,7,8,9,10)		49.2006
32	*	1120 121 5600	1	Fixed jet 0.56 (6,7,8,9,10)		49.2006
33	*	4203 121 2700	1	Cap (6,7,8,9,10)		49.2006
	*	1133 120 9700	1	Pump piston kit (6,7,8,9,10)	34 - 37	49.2006
34	*		1	Spring (D) (6,7,8,9,10)		49.2006
35	*		1	Pump piston (D) (6,7,8,9,10)		49.2006
36	*		1	Ball (D) (6,7,8,9,10)		49.2006
37	*		1	Plug (D) (6,7,8,9,10)		49.2006
38	*	9645 945 7505	1	O-ring 10x2.5 (6,7,8,9,10)		49.2006
39	*	5910 890 4500	1	Puller (B) (6,7,8,9,10)		49.2006
	*	1128 007 1066	1	Set of carburetor parts (6,7,8,9,10)	1 - 3, 8, 9, 12, 13, 30	49.2006



146ET027 SC

Shroud, Air filter

Reference	Item number	Qty	Description	Contains
1	1133 084 0900	1	Shroud (1,3,5,6,10)	
2	1133 084 0901	1	Shroud (2,4,7,8,9,10)	
3	9075 478 4155	2	Pan head self-tapping screw IS-D5x24	
4	1133 124 3400	1	Filter base (1,2,3,4,5,6,7,8,9,10)	
5	1133 120 4100	1	Baffle	6
6	1128 122 6601	1	Collar screw	
7	9216 261 0700	2	Hexagon nut M5	
8	1133 120 1603	1	Air filter	
9	1133 120 1604	1	Air filter USA, CDN, AUS, NZ	
10	1133 140 1900	1	Carburetor box cover (1,2,3,4,5,6,7,8,9,10)	11
11	1124 140 9500	1	Twist lock (1,2,3,4,5,6,7,8,9,10)	
12	0000 967 3501	1	Instruction label (4,8,9)	



139ET039 GM

Tools, Extras

Reference	Item number	Qty	Description
1	0000 792 9129	1	Chain scabbard
2	1129 890 3401	1	Combination wrench
3	0000 890 2300	1	Screwdriver
4	0000 891 0810	1	Tool roll (B)
5	1110 893 4000	1	Filing gauge (B)
6	0783 830 2000	1	Tube of sealant HT red (B)
7	0812 370 1000	1	Screwdriver T27x120x70 (B)
8	0000 792 9132	1	Chain scabbard extension up to 63 cm (B,C)

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