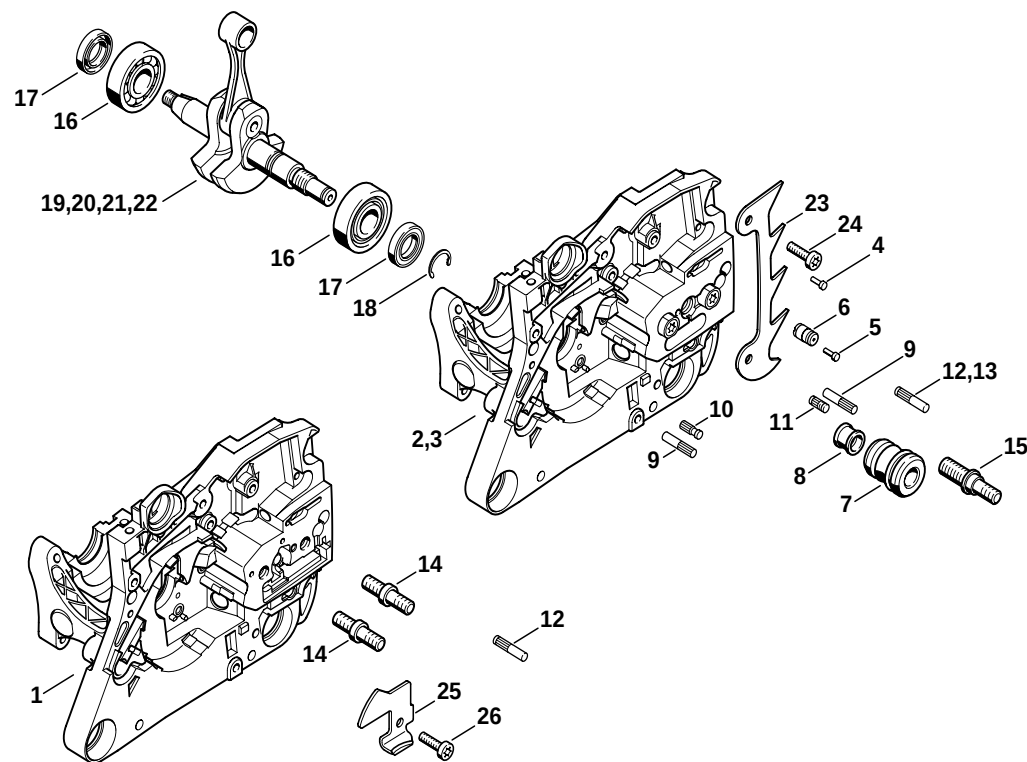

MS 270, 270 C, 280, 280 C (1133)

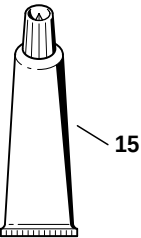
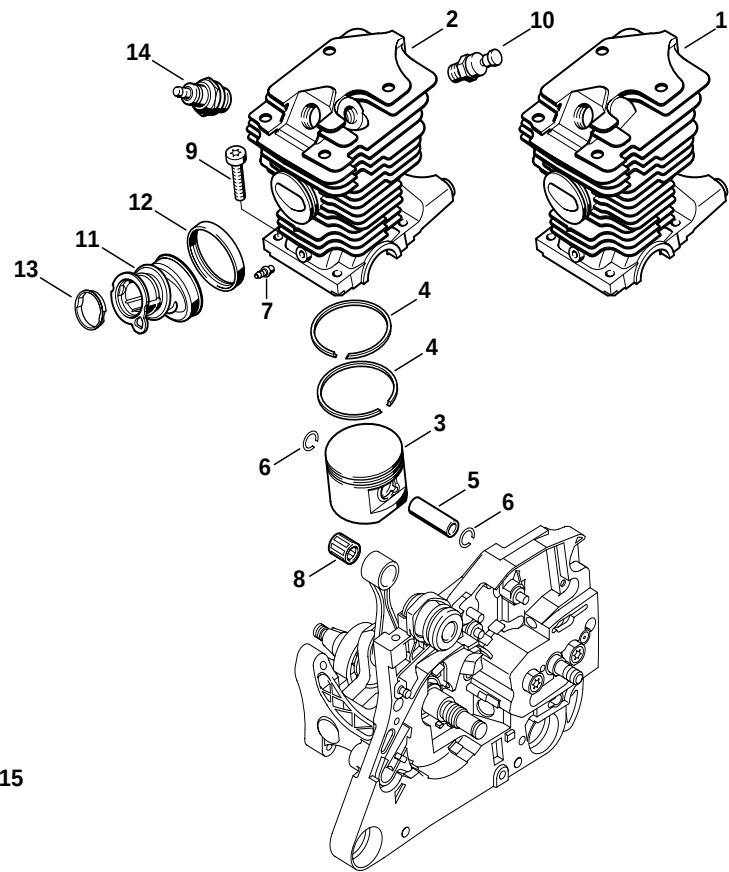
A	Crankcase	2
B	Cylinder MS 270	3
C	Cylinder MS 280	4
D	Muffler	5
E	Oil pump, Clutch	6
F	Chain brake	7
G	Chain tensioner	8
H	Ignition system	9
J	Fan housing with rewind starter	10
K	Tank housing	11
L	AV system, Handlebar	12
M	Throttle control	13
N	Carburetor HD-33	14
O	Carburetor HD-32	15
P	Shroud, Air filter	16
Q	Tools, Extras	17



146ET000 SC

Ref. ID	Part Number	Qty.	Part Name
1	1133 020 2100	1	Crankcase (1,4) □ 5 - 12, 14
2	1133 020 2101	1	Crankcase (2,5) □ 5 - 12, 15
3	1133 020 2102	1	Crankcase (3,6) □ 4 - 11, 13, 15
4	0000 974 1200	1	Notched pin 2.6x8 (3,6)
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 (1,2,4,5)
13	1125 162 5209	1	Pin (3,6)
14	0000 953 6605	2	Collar screw M8 (1,4)
15	0000 664 2405	1	Collar screw M8 (2,3,5,6)
16	9523 003 4300	2	Grooved ball bearing
17	9638 003 1581	2	Oil seal 15x25x5 (24.96)
17	9639 003 1585	2	Oil seal 15x25x5 (24.96)
18	9468 621 1520	1	Circlip 15x1
19	1133 030 0400	1	Crankshaft (1,2)
20	1133 030 0401	1	Crankshaft USA, CDN (1,2,3)
21	1133 030 0402	1	Crankshaft (4,5,6)
22	1133 030 0403	1	Crankshaft USA, CDN (4,5,6)
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

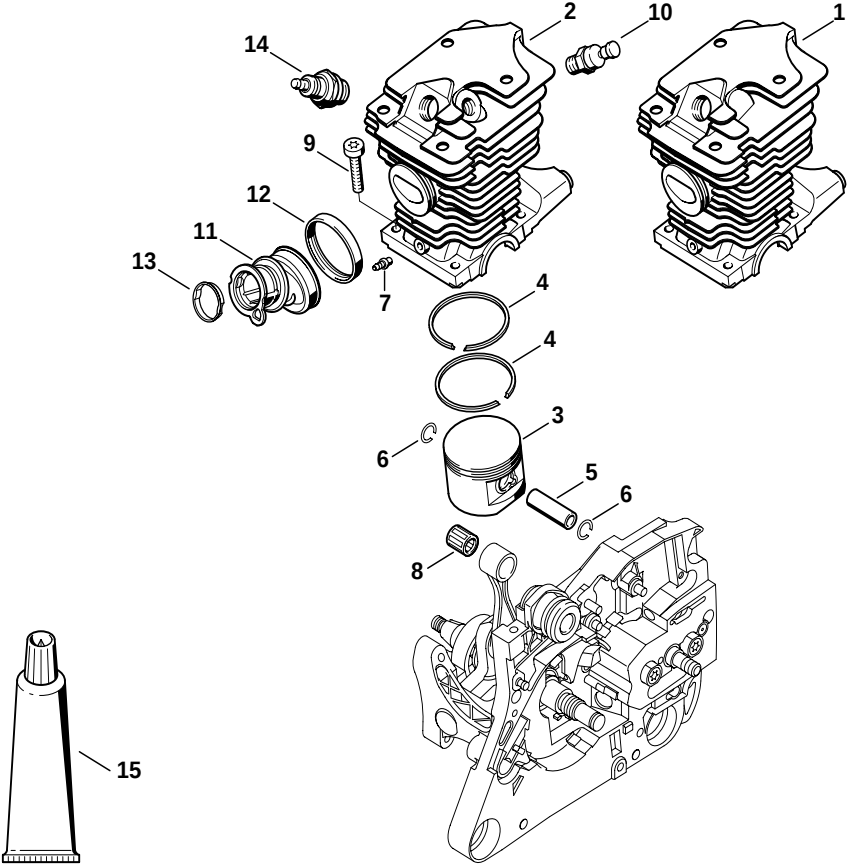
(1) MS 270, (2) MS 270 C, (3) MS 270 C QS,
(4) MS 280, (5) MS 280 C, (6) MS 280 C QS



Ref. ID	Part Number	Qty.	Part Name
1	1133 020 1200	1	Cylinder with piston Ø 44mm (1,2) □ 3 - 7
2	1133 020 1201	1	Cylinder with piston Ø 44mm (2,3) □ 3 - 7
3	1133 030 2000	1	Piston Ø 44mm (1,2,3) □ 4 - 6
4	1133 034 3000	2	Piston ring Ø 44mm (1,2,3)
5	4119 034 1500	1	Piston pin (1,2,3)
6	9463 650 1000	2	Snap ring 10 (1,2,3)
7	0000 988 5211	1	Connector (1,2,3)
8	9512 003 2250	1	Needle cage 10x13x12.5 (1,2,3)
9	9022 341 0900	4	Spline screw IS M5x28 (1,2,3)
10	1133 020 9400	1	Decompression valve (2,3)
11	1133 141 2202	1	Manifold (1,2,3)
12	1133 148 7000	1	Tightening ring (1,2,3)
13	1117 141 1800	1	Sleeve (1,2,3)
14	0000 400 7000	1	Spark plug NGK BPMR7A (1,2,3)
15	0783 830 2000	1	Tube of sealant Dirko HT red (1,2,3)

(1) MS 270, (2) MS 270 C, (3) MS 270 C QS,
(4) MS 280, (5) MS 280 C, (6) MS 280 C QS

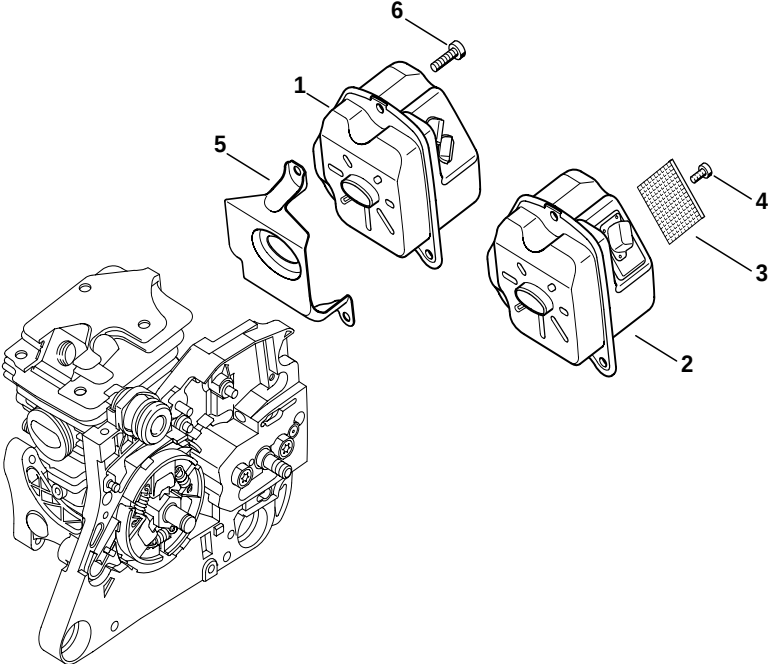
146ET001 SC



Ref. ID	Part Number	Qty.	Part Name
1	1133 020 1202	1	Cylinder with piston Ø 46mm (4) □ 3 - 7
2	1133 020 1203	1	Cylinder with piston Ø 46mm (5,6) □ 3 - 7
3	1133 030 2001	1	Piston Ø 46mm (4,5,6) □ 4 - 6
4	4116 034 3005	2	Piston ring Ø 46x1.2mm (4,5,6)
5	1110 034 1500	1	Piston pin 10x32 (4,5,6)
6	9463 650 1000	2	Snap ring 10 (4,5,6)
7	0000 988 5211	1	Connector (4,5,6)
8	9512 003 2275	1	Needle cage 10x13x14.5 (4,5,6)
9	9022 341 0900	4	Spline screw IS M5x28 (4,5,6)
10	1133 020 9400	1	Decompression valve (5,6)
11	1133 141 2202	1	Manifold (4,5,6)
12	1133 148 7000	1	Tightening ring (4,5,6)
13	1117 141 1800	1	Sleeve (4,5,6)
14	0000 400 7000	1	Spark plug NGK BPMR7A (4,5,6)
15	0783 830 2000	1	Tube of sealant Dirko HT red (4,5,6)

(1) MS 270, (2) MS 270 C, (3) MS 270 C QS,
(4) MS 280, (5) MS 280 C, (6) MS 280 C QS

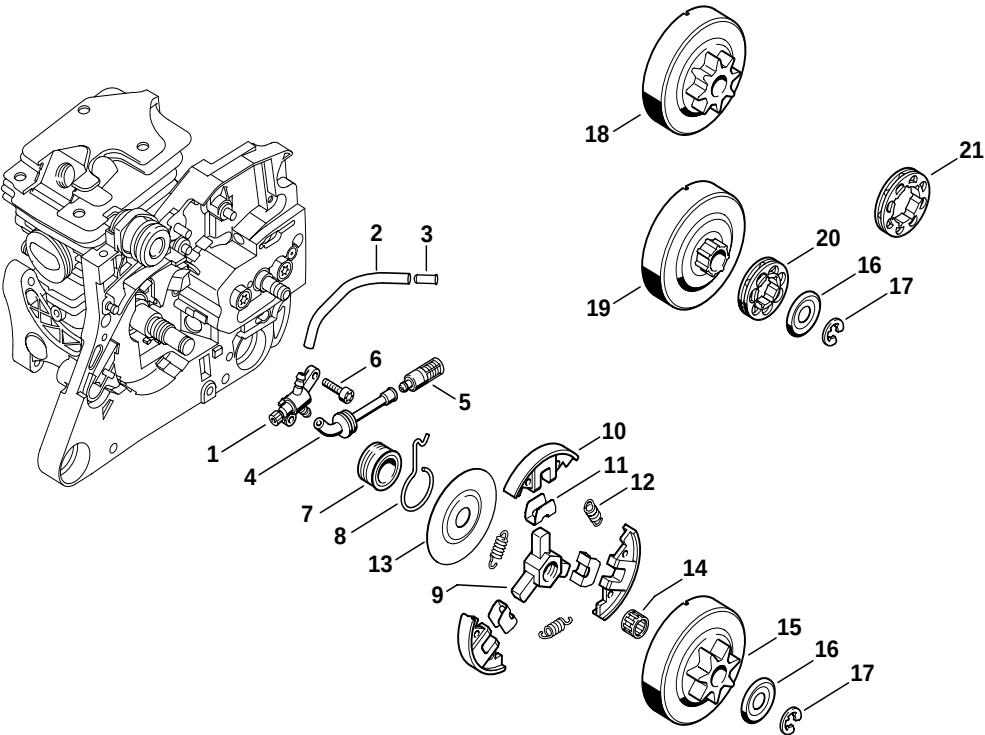
146ET001 SC



Ref. ID	Part Number			Qty.	Part Name
1	1133	140	0600	1	Muffler
2	1133	140	0601	1	Muffler USA, CDN, AUS, NZ □ 3, 4
3	1133	141	9000	1	Screen
4	9039	488	0656	1	Self-tapping screw M4x9.5
5	1133	141	3200	1	Cooling plate
6	9075	478	4085	3	Pan head self-tapping screw IS D5x18

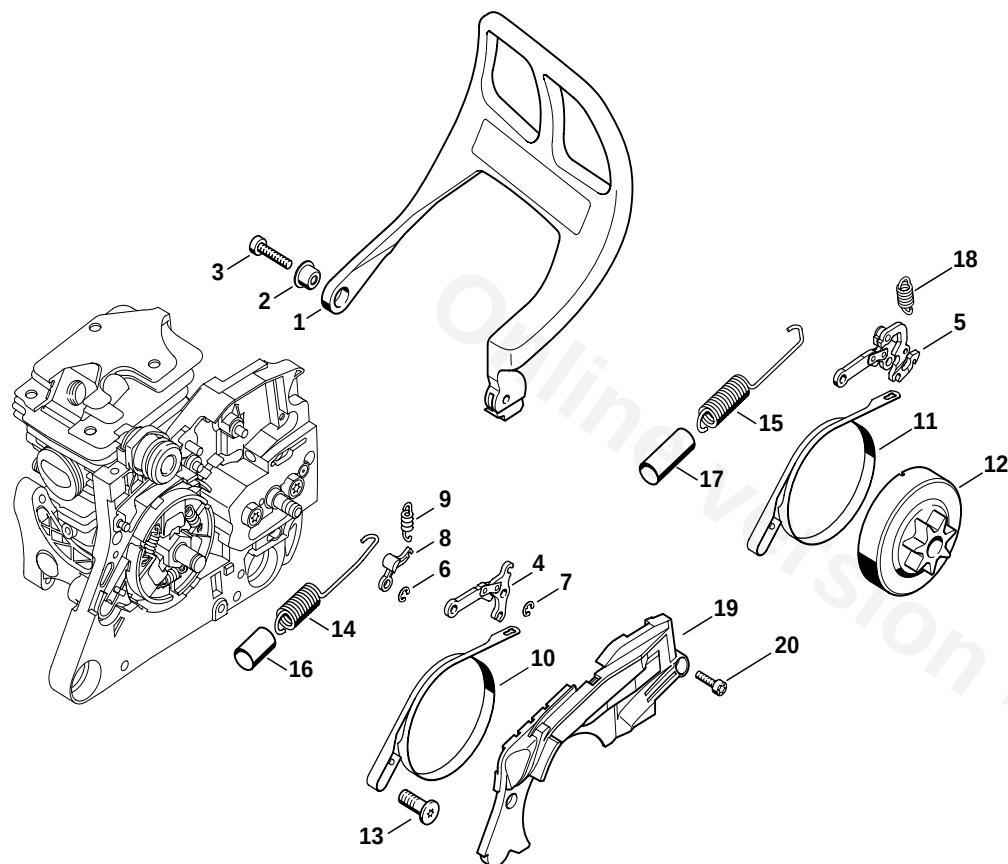
146ET003 SC

not for reprint



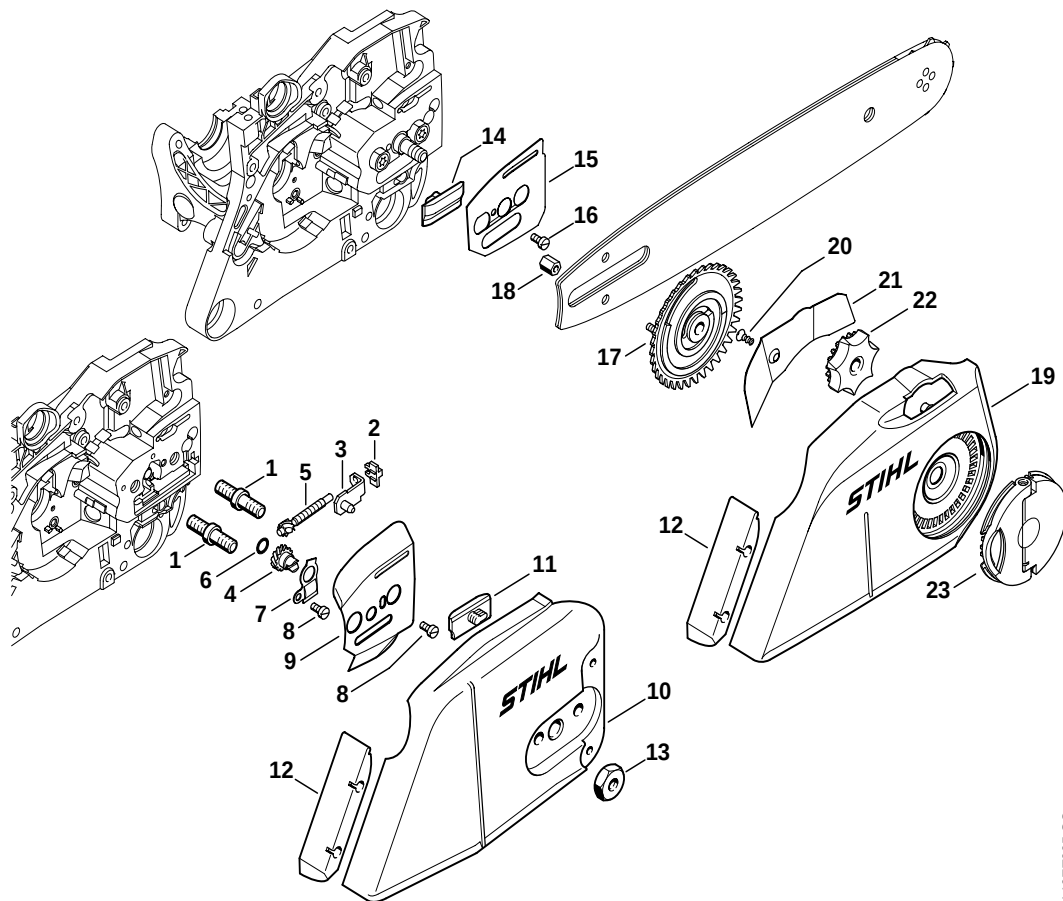
146ET002 SC

Ref. ID	Part Number			Qty.	Part Name
1	1133	640	3200	1	Oil pump
				□ 2	
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
	1133	160	2050	1	Clutch
				□ 9 - 13	
9	1121	162	3201	1	Carrier
10	1121	162	0801	3	Clutch shoe
11	1127	162	3000	3	Retainer
12	0000	997	5600	3	Tension spring
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
16	0000	958	1022	1	Washer Ø 27mm
17	9460	624	0801	1	E-clip 8x1.3
18	1121	640	2005	1	Chain sprocket 0.325" 8T (B)
	1121	007	1037	1	Rim sprocket kit 0.325" 7T (B)
				□ 16, 17, 19, 20	
19				1	Clutch drum (B,D)
20	0000	642	1236	1	Rim sprocket 0.325" 7T (B)
	1121	007	1038	1	Rim sprocket kit 0.325" 8T (B)
				□ 16, 17, 19, 21	
21	0000	642	1234	1	Rim sprocket 0.325" 8T (B)



Ref. ID	Part Number	Qty.	Part Name
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 (1,2,4,5)
5	1133 160 5000	1	Brake lever (3,6)
6	9460 624 0400	1	E-clip 4
7	9460 624 0400	1	E-clip 4 (1,2,4,5)
8	1121 162 5010	1	Lever
9	0000 997 0628	1	Spring
10	1133 160 5400	1	Brake band (1,2,4,5)
11	1133 160 5450	1	Brake band (3,6)
12			□ 12
12		1	Chain sprocket (D) (3,6)
13	1125 162 9300	1	Screw
14	1121 160 5501	1	Tension spring (1,2,4,5)
15			□ 16
15	1125 160 5501	1	Tension spring (3,6)
16			□ 17
16	1121 162 8000	1	Hose 12x1x20mm (1,2,4,5)
17	1125 162 8001	1	Hose 32mm / 1 3/16" (3,6)
18	1133 162 7901	1	Tension spring (3,6)
19	1133 021 1100	1	Cover
20	9075 478 3016	2	Pan head self-tapping screw IS D4x16

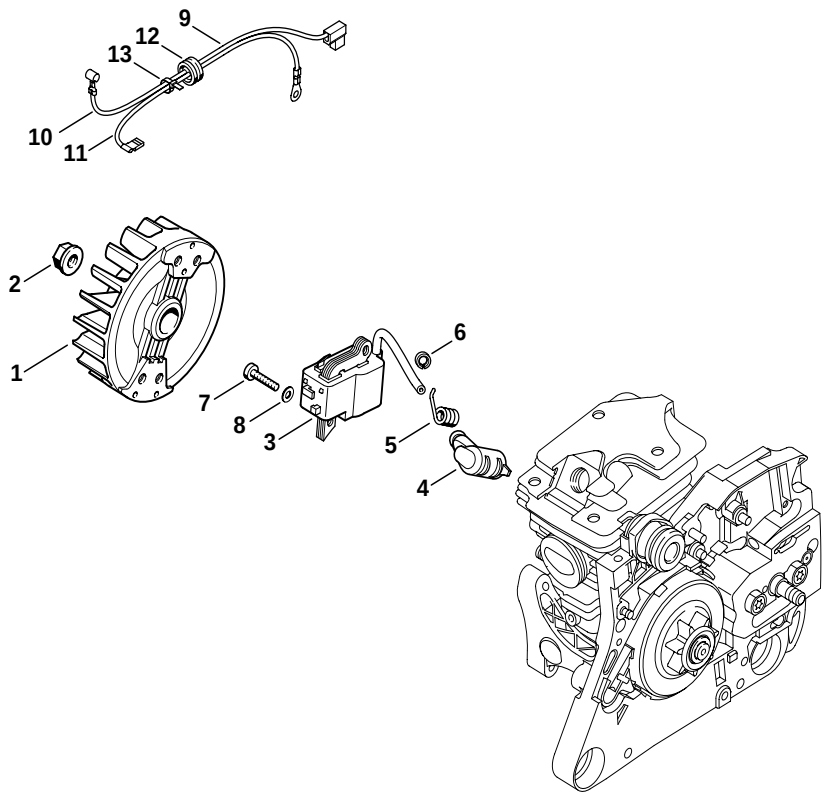
(1) MS 270, (2) MS 270 C, (3) MS 270 C QS,
(4) MS 280, (5) MS 280 C, (6) MS 280 C QS



146ET005 SC

Ref. ID	Part Number	Qty.	Part Name
1	0000 953 6605	2	Collar screw M8 (1,4)
2	1125 664 1400	1	Thrust pad (1,4)
3	1125 640 1900	1	Tensioner slide (1,4)
	1125 007 1021	1	Spur gear / chain adjusting screw kit (1,4) □ 4 - 6
4		1	Spur gear (D) (1,4)
5		1	Adjusting screw (D) (1,4)
6	9646 945 0490	1	O-ring 7x1.5 (1,4)
7	1122 664 2200	1	Cover plate (1,4)
8	9041 216 0630	2	Pan head screw M4x8 (1,4)
9	1122 664 1000	1	Inner side plate (1,4)
10	1125 640 1701	1	Chain sprocket cover (1,4) □ 11, 12
11	1121 648 6610	2	Bumper strip (1,4)
12	1125 656 1501	1	Guard
13	0000 955 0801	2	Collar nut M8 (1,4)
14	1121 648 6610	1	Bumper strip (2,3,5,6)
15	1121 664 1000	1	Inner side plate (2,3,5,6)
16	9041 216 0630	1	Pan head screw M4x8 (2,3,5,6)
17	1121 660 3000	1	Tensioning gear (2,3,5,6) □ 18
18	1121 664 7301	1	Nut M4 (2,3,5,6)
19	1121 640 1700	1	Chain sprocket cover (2,3,5,6) □ 12, 20 - 22
20	9076 478 2996	1	Pan head self-tapping screw P4x12 (2,3,5,6)
21	1121 648 3800	1	Cover plate (2,3,5,6)
22	1121 648 2200	1	Adjusting wheel (2,3,5,6)
23	1121 660 1000	1	Wing nut (2,3,5,6)

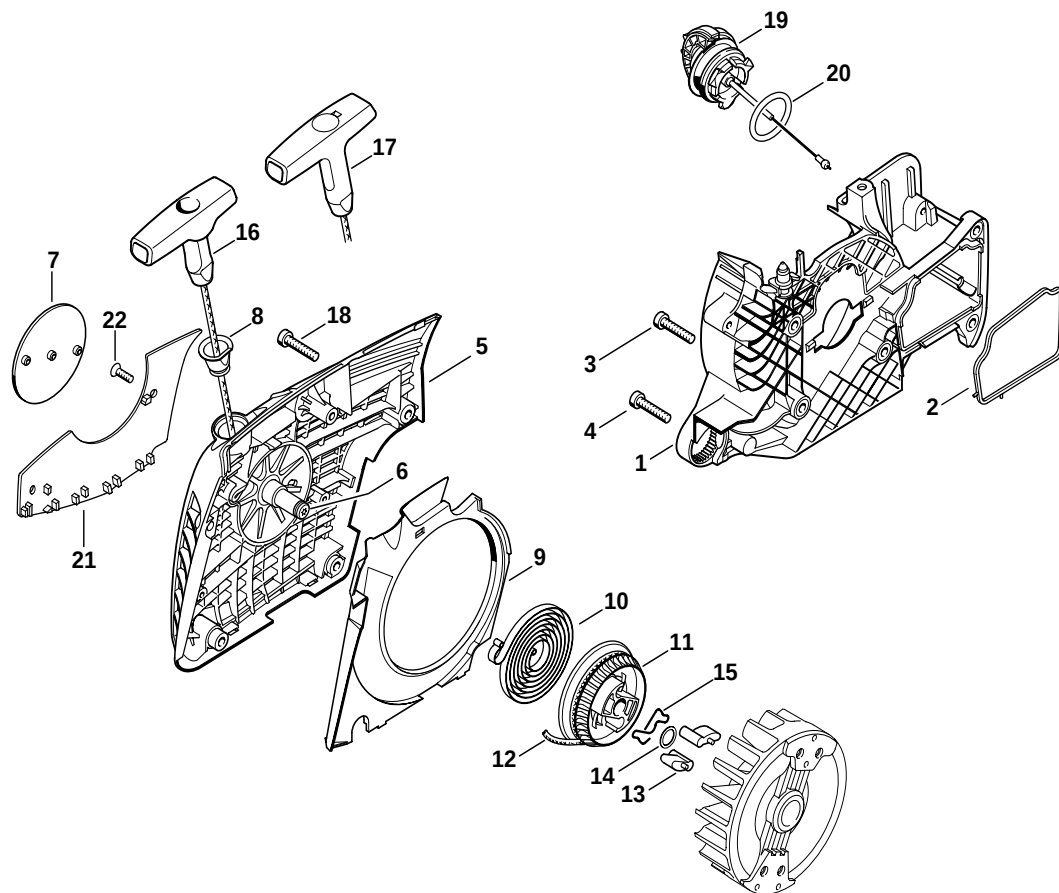
(1) MS 270, (2) MS 270 C, (3) MS 270 C QS,
(4) MS 280, (5) MS 280 C, (6) MS 280 C QS



Ref. ID	Part Number			Qty.	Part Name
1	1133	400	1202	1	Flywheel
2	0000	955	0802	1	Collar nut M8x1
3	1133	400	1350	1	Ignition module
				□ 4 - 6	
4	1128	405	1000	1	Spark plug boot
5	0000	998	0604	1	Torsion spring
6	1133	405	6600	1	Ring
7	9075	478	3022	2	Pan head self-tapping screw IS D4x20
8	9291	021	0100	1	Washer 4.3
9	1133	440	3001	1	Wiring harness
				□ 10 - 13	
10	1133	440	1100	1	Short circuit wire
11	1133	440	2200	1	Ground wire
12	0000	989	0814	1	Grommet
13	0000	903	1506	1	Hose tie

146ET006 SC

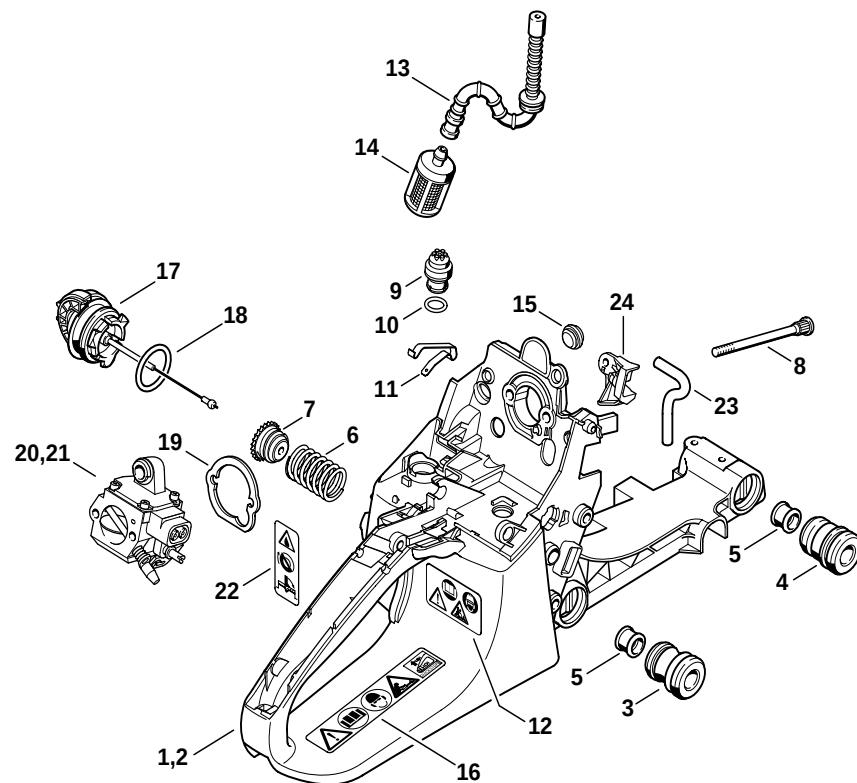
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146ET007 SC

Ref. ID	Part Number	Qty.	Part Name
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 2800	1	Fan cover with rewind starter (1,2,4) □ 5 - 16
	1133 080 2802	1	Fan cover with rewind starter (2,3,5,6) □ 5 - 15, 17
5	1133 080 3101	1	Fan cover □ 6
6		1	Screw (D)
7	1133 967 1500	1	Model plate MS 270 (1)
7	1133 967 1502	1	Model plate MS 270 C (2)
7	1133 967 1501	1	Model plate MS 280 (4)
7	1133 967 1503	1	Model plate MS 280 C (5)
8	1110 084 9102	1	Bushing
9	1133 084 7800	1	Segment
10	1129 190 0601	1	Rewind spring
11	1133 195 0400	1	Rope rotor
12	1113 195 8200	1	Starter rope Ø 3.5x960mm
13	1125 195 7200	2	Pawl
14	0000 958 0923	1	Washer
15	1128 195 3500	1	Spring
16	1121 195 3400	1	Starter grip (1,2,4)
17	0000 190 3401	1	Starter grip ElastoStart (2,3,5,6)
18	9075 478 4159	4	Pan head self-tapping screw IS D5x24
19	0000 350 0525	1	Filler cap □ 20
20	9645 948 7734	1	O-ring 25x3.5
	1133 080 7500	1	Cover plate (B) □ 21, 22
21	1133 084 8200	1	Cover plate (B)
22	9099 021 2770	2	Self-tapping screw 3.9x13 (B)

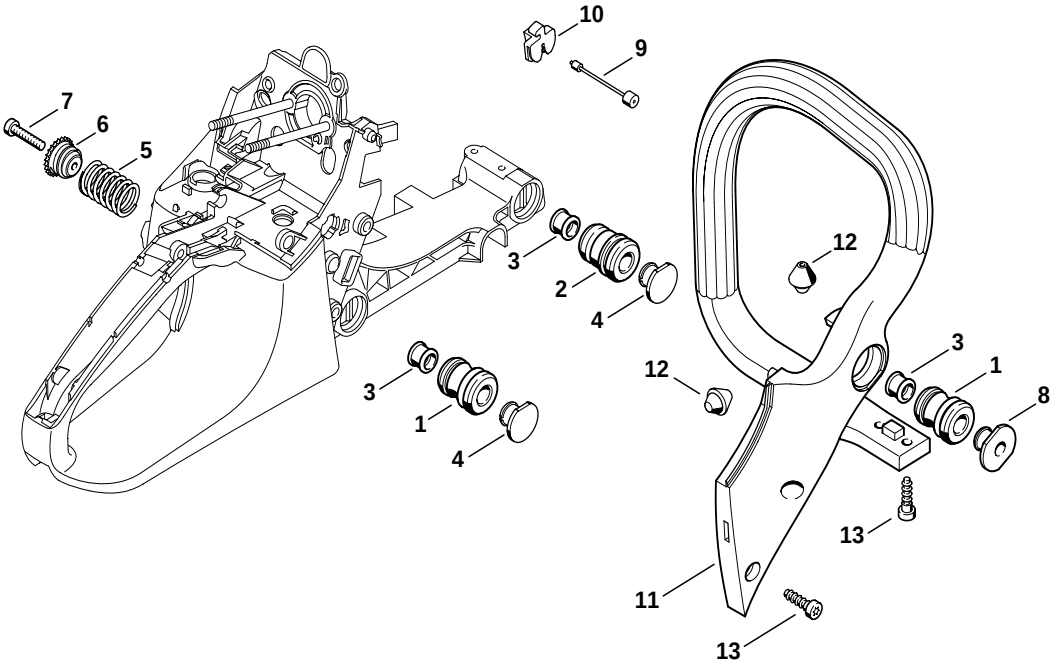
(1) MS 270, (2) MS 270 C, (3) MS 270 C QS,
(4) MS 280, (5) MS 280 C, (6) MS 280 C QS



Ref. ID	Part Number	Qty.	Part Name
1	1133 350 0802	1	Tank housing (1,2,4,5) □ 3 - 13
2	1133 350 0813	1	Tank housing (3,6) □ 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	Bearing plug
8	1133 122 6600	2	Collar screw
9	0000 350 5800	1	Tank vent □ 10
10	9645 948 7514	1	O-ring 10x2.1
11	1133 442 1600	1	Contact spring
12	0000 967 3662	1	Instruction label (1,2,4,5)
13	1129 358 7702	1	Hose
14	0000 350 3504	1	Pickup body
15	1121 791 2800	1	Stop buffer
16	1125 967 3419	1	Instruction label (3,6)
17	0000 350 0525	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)
21	1133 120 0607	1	Carburetor HD 32 (4,5,6)
22	0000 967 3605	1	Instruction label USA
23	1128 122 6500	1	Hose
24	1133 124 4400	1	Shutter

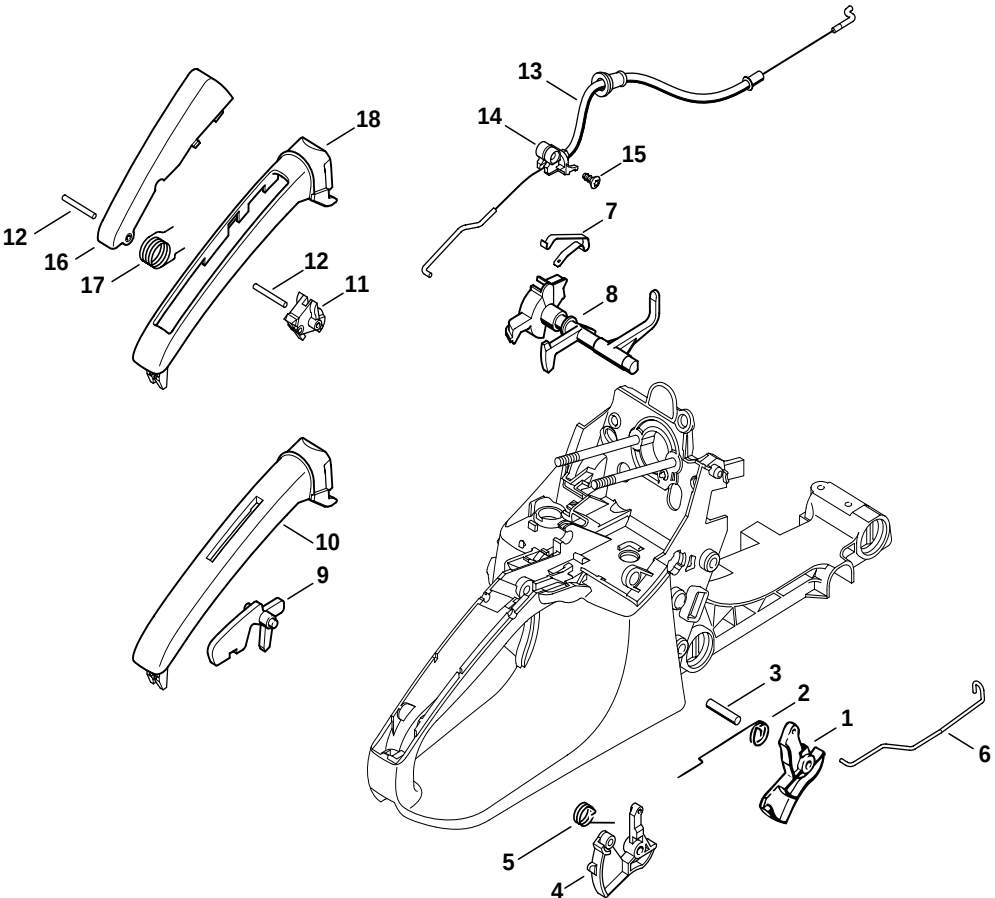
146ET008 SC

(1) MS 270, (2) MS 270 C, (3) MS 270 C QS,
(4) MS 280, (5) MS 280 C, (6) MS 280 C QS



146ET009 SC

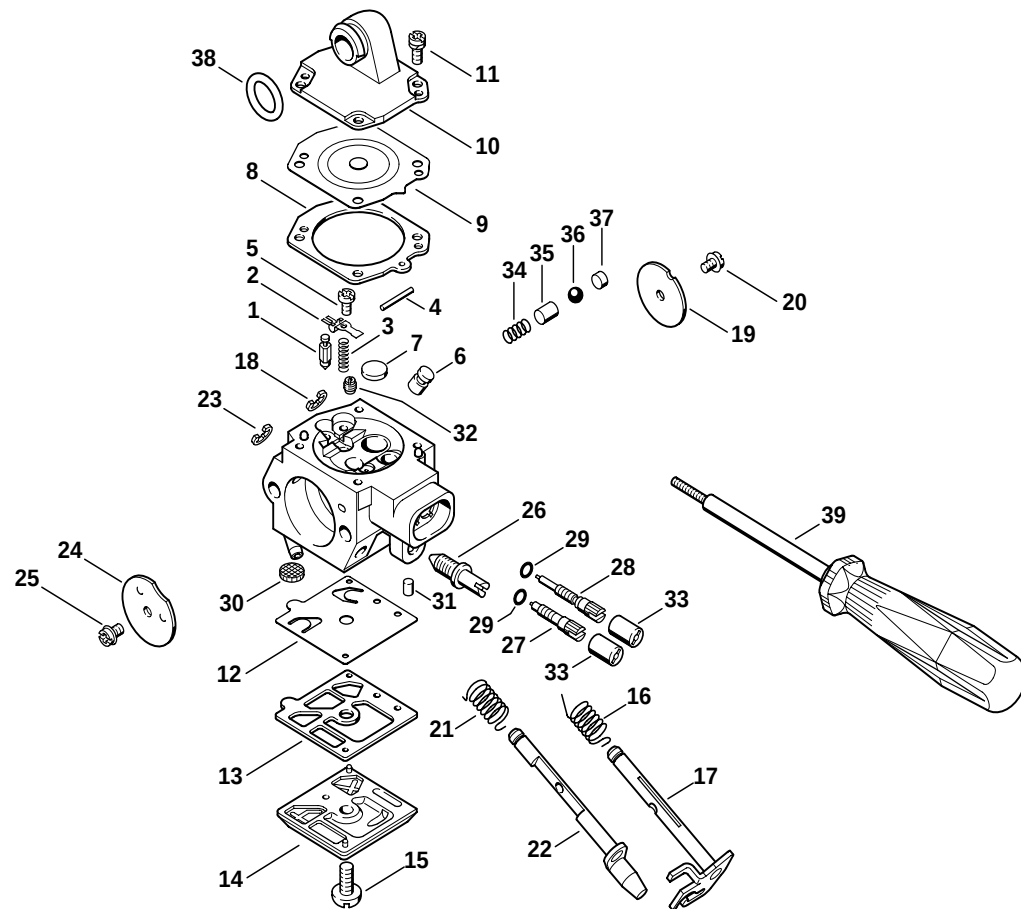
Ref. ID	Part Number		Qty.	Part Name
1	1132	791 2800	2	Annular buffer
2	1123	791 2800	1	Annular buffer
3	1123	791 7305	3	Plug
4	1123	791 7300	2	Plug
5	1133	791 3100	1	Spring
6	1133	792 2900	1	Bearing plug
7	9075	478 4155	1	Pan head self-tapping screw IS D5x24
8	1133	791 7300	1	Plug
9	1133	790 8100	1	Retainer
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



Ref. ID	Part Number			Qty.	Part Name
1	1118	182	1006	1	Throttle trigger (1,2,4,5)
2	1117	182	4500	1	Torsion spring (1,2,4,5)
3	9371	470	2620	1	Cylindrical pin 5x20
	1125	180	1551	1	Throttle trigger (3,6)
					□ 4, 5
4	1125	180	1503	1	Throttle trigger (3,6)
5	1125	182	4505	1	Torsion spring (3,6)
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	Trigger interlock (1,2,4,5)
10	1133	791	0600	1	Handle molding (1,2,4,5)
11	1125	180	1405	1	Switch lever (3,6)
12	9517	003	0650	2	Cylindrical roller 3x25.8 (3,6)
13	1133	160	2500	1	Brake cable (3,6)
					□ 14, 15
14	1133	182	1600	1	Support (3,6)
15	9104	003	8710	1	Self-tapping screw P4x10 (3,6)
16	1125	180	1703	1	Trigger interlock (3,6)
					□ 17
17	1125	182	4502	1	Torsion spring (3,6)
18	1133	791	0601	1	Handle molding (3,6)

(1) MS 270, (2) MS 270 C, (3) MS 270 C QS,
(4) MS 280, (5) MS 280 C, (6) MS 280 C QS

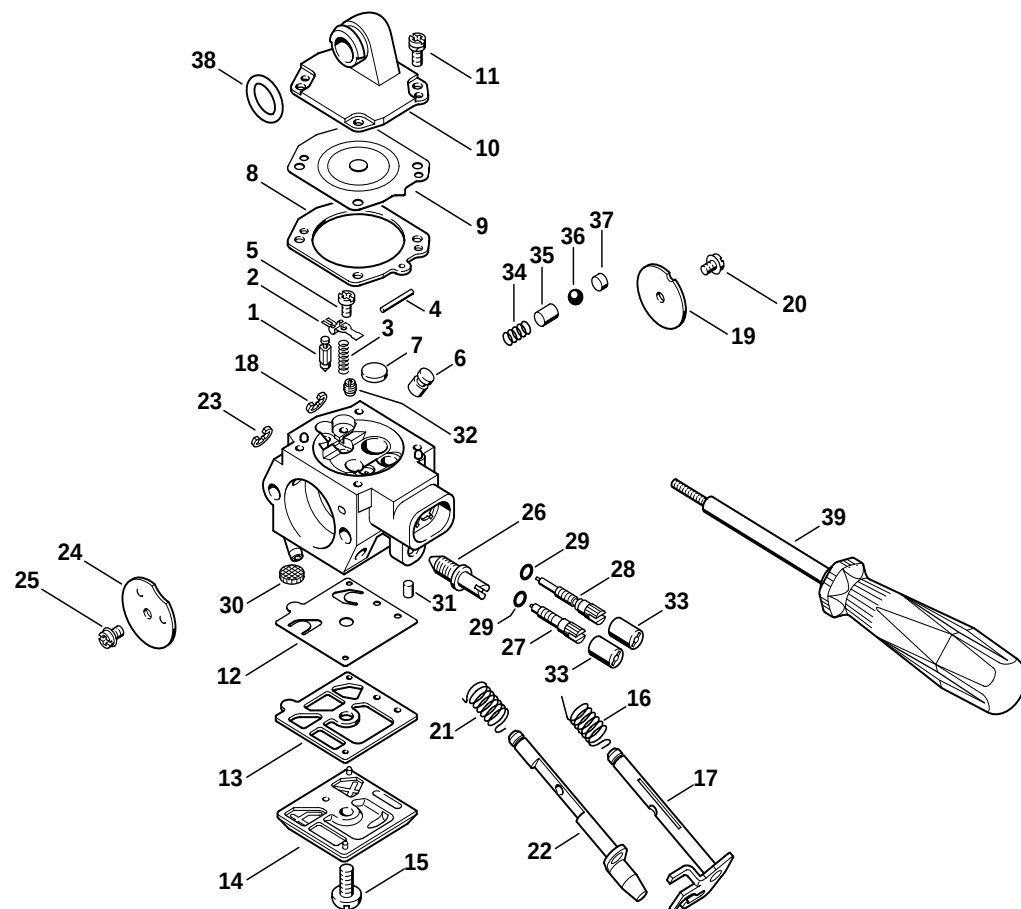
146ET010 SC



146ET011 SC

Ref. ID	Part Number	Qty.	Part Name
	1133 120 0604	1	Carburetor HD 33 (1,2,3) □ 1 - 38
1	4116 121 5100	1	Inlet needle (1,2,3)
2	4116 121 5000	1	Inlet control lever (1,2,3)
3	1128 122 3002	1	Spring (1,2,3)
4	1113 121 9200	1	Spindle (1,2,3)
5	1114 122 7400	1	Round head screw (1,2,3)
6	1133 121 5400	1	Valve jet (1,2,3)
7	4117 122 9402	1	Plug (1,2,3)
8	1128 129 0906	1	Gasket (1,2,3)
9	4116 121 4700	1	Metering diaphragm (1,2,3)
10	1133 121 0803	1	End cover (1,2,3)
11	1115 122 7100	4	Screw (1,2,3)
12	4116 121 4800	1	Pump diaphragm (1,2,3)
13	4116 129 0902	1	Gasket (1,2,3)
14	1133 121 0802	1	End cover (1,2,3)
15	1114 122 7100	1	Screw (1,2,3)
16	1133 122 3200	1	Torsion spring (1,2,3)
17	1133 120 7101	1	Throme shaft with lever (1,2,3)
18	1117 122 9000	1	E-clip (1,2,3)
19	1133 121 3300	1	Throttle shutter (1,2,3)
20	1115 122 7400	1	Round head screw (1,2,3)
21	1127 122 3205	1	Torsion spring (1,2,3)
22	1133 120 7201	1	Choke shaft (1,2,3)
23	1123 122 9000	1	E-clip (1,2,3)
24	1122 121 2900	1	Choke shutter (1,2,3)
25	1110 122 7400	1	Round head screw (1,2,3)
26	1133 122 6200	1	Idle speed adjustment screw (1,2,3)
27	1128 122 6703	1	High speed adjustment screw (1,2,3) □ 29
28	1133 122 6800	1	Low speed adjustment screw (1,2,3) □ 29
29	4203 122 3600	2	Sealing ring (1,2,3)
30	1114 121 7800	1	Strainer (1,2,3)
31	1122 121 7700	1	Clamp (1,2,3)
32	1127 121 5602	1	Fixed jet 0.58 (1,2,3)
33	4203 121 2700	1	Cap (1,2,3)
34	1132 122 3000	1	Spring (1,2,3)
35	1133 121 5800	1	Pump piston (1,2,3)
36	1133 122 4200	1	Ball (1,2,3)
37	1133 122 9400	1	Plug (1,2,3)
38	9645 945 7505	1	O-ring 10x2.5 (1,2,3)
39	5910 890 4500	1	Puller (B) (1,2,3)
	1128 007 1066	1	Set of carburetor parts (1,2,3) □ 1 - 3, 8, 9, 12, 13, 30

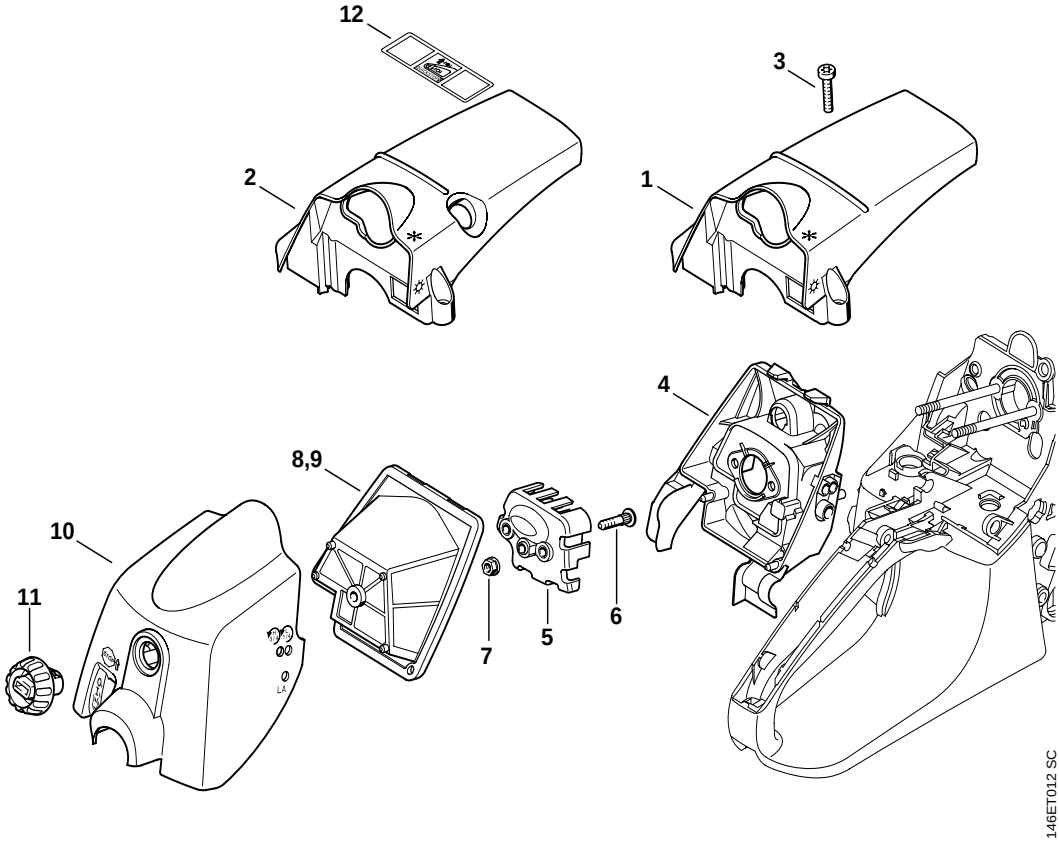
(1) MS 270, (2) MS 270 C, (3) MS 270 C QS,
(4) MS 280, (5) MS 280 C, (6) MS 280 C QS



146ET011 SC

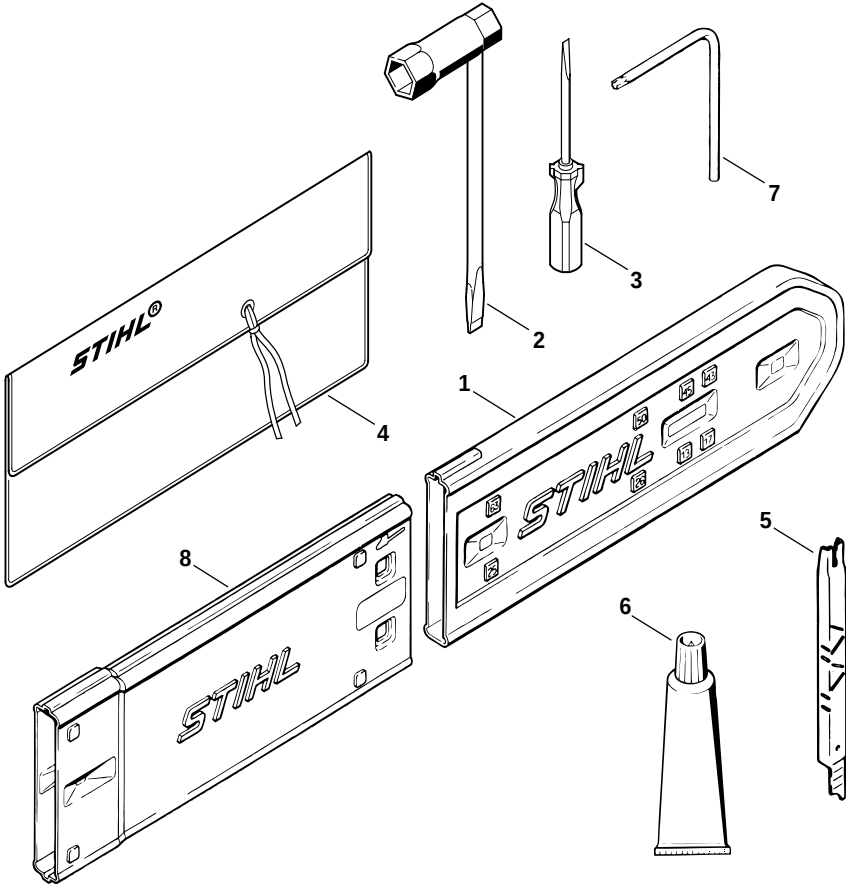
Ref. ID	Part Number	Qty.	Part Name
	1133 120 0607	1	Carburetor HD 32 (4,5,6) □ 1 - 38
1	4116 121 5100	1	Inlet needle (4,5,6)
2	4116 121 5000	1	Inlet control lever (4,5,6)
3	1128 122 3002	1	Spring (4,5,6)
4	1113 121 9200	1	Spindle (4,5,6)
5	1114 122 7400	1	Round head screw (4,5,6)
6	1133 121 5400	1	Valve jet (4,5,6)
7	4117 122 9402	1	Plug (4,5,6)
8	1128 129 0906	1	Gasket (4,5,6)
9	4116 121 4700	1	Metering diaphragm (4,5,6)
10	1133 121 0803	1	End cover (4,5,6)
11	1115 122 7100	4	Screw (4,5,6)
12	4116 121 4800	1	Pump diaphragm (4,5,6)
13	4116 129 0902	1	Gasket (4,5,6)
14	1133 121 0802	1	End cover (4,5,6)
15	1114 122 7100	1	Screw (4,5,6)
16	1133 122 3200	1	Torsion spring (4,5,6)
17	1133 120 7101	1	Throme shaft with lever (4,5,6)
18	1117 122 9000	1	E-clip (4,5,6)
19	1133 121 3301	1	Throttle shutter (4,5,6)
20	1115 122 7400	1	Round head screw (4,5,6)
21	1127 122 3205	1	Torsion spring (4,5,6)
22	1133 120 7201	1	Choke shaft (4,5,6)
23	1123 122 9000	1	E-clip (4,5,6)
24	1122 121 2900	1	Choke shutter (4,5,6)
25	1110 122 7400	1	Round head screw (4,5,6)
26	1133 122 6200	1	Idle speed adjustment screw (4,5,6)
27	1128 122 6703	1	High speed adjustment screw (4,5,6) □ 29
28	1133 122 6800	1	Low speed adjustment screw (4,5,6) □ 29
29	4203 122 3600	2	Sealing ring (4,5,6)
30	1114 121 7800	1	Strainer (4,5,6)
31	1122 121 7700	1	Clamp (4,5,6)
32	1120 121 5600	1	Fixed jet 0.56 (4,5,6)
33	4203 121 2700	1	Cap (4,5,6)
34	1132 122 3000	1	Spring (4,5,6)
35	1133 121 5800	1	Pump piston (4,5,6)
36	1133 122 4200	1	Ball (4,5,6)
37	1133 122 9400	1	Plug (4,5,6)
38	9645 945 7505	1	O-ring 10x2.5 (4,5,6)
39	5910 890 4500	1	Puller (B) (4,5,6)
	1128 007 1066	1	Set of carburetor parts (4,5,6) □ 1 - 3, 8, 9, 12, 13, 30

(1) MS 270, (2) MS 270 C, (3) MS 270 C QS,
(4) MS 280, (5) MS 280 C, (6) MS 280 C QS



Ref. ID	Part Number	Qty.	Part Name
1	1133 084 0900	1	Shroud (1,4)
2	1133 084 0901	1	Shroud (2,3,5,6)
3	9075 478 4155	2	Pan head self-tapping screw IS D5x24
4	1133 124 3400	1	Filter base
5	1133 120 4100	1	Baffle
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
11	1124 140 9500	1	Twist lock
12	0000 967 4934	1	Instruction label (3,6)

(1) MS 270, (2) MS 270 C, (3) MS 270 C QS,
(4) MS 280, (5) MS 280 C, (6) MS 280 C QS



Ref. ID	Part Number			Qty.	Part Name
1	0000	792	9129	1	Chain scabbard
2	1129	890	3401	1	Combination wrench
3	0000	890	2300	1	Screwdriver
Extras:					
3	0000	890	2305	1	Screwdriver available in Brazil only
4	0000	891	0801	1	Tool roll
5	1110	893	4000	1	Filing gauge
6	0783	830	2000	1	Tube of sealant Dirko HT red
7	0812	370	1000	1	Screwdriver T27x120x70
8	0000	792	9132	1	Chain scabbard extension up to 63 cm
	1133	900	5000	1	STIHL repair kit (A)

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