



OPTIONAL ATTACHMENTS & ACCESSORIES

Guide Bars

10A0CD3739	Guide Bar - 10" (.050" Ga)
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10A4CD3739	Guide Bar - 10" (.043" Ga)
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12A0CD3744	Guide Bar - 12" (.050" Ga)
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12A4CD3744	Guide Bar - 12" (.043" Ga)
------------	----------------------------

Sawing Chains

90SG39CQ	Sawing Chain - 10" (.043" Ga)
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90SG44CQ	Sawing Chain - 12" (.043" Ga)
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91VX39CQ	Sawing Chain - 10" (.050" Ga)
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91VX44CQ	Sawing Chain - 12" (.050" Ga)
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M91VX39CQ	Sawing Chain - 10" (.050" Ga)
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M91VX44CQ	Sawing Chain - 12" (.050" Ga)
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PARTS CATALOG

PPT-235ES Power Pruner

21.2cc

SERIAL NUMBERS

S/N: S07037001001 - S07037999999

ECHO, INCORPORATED

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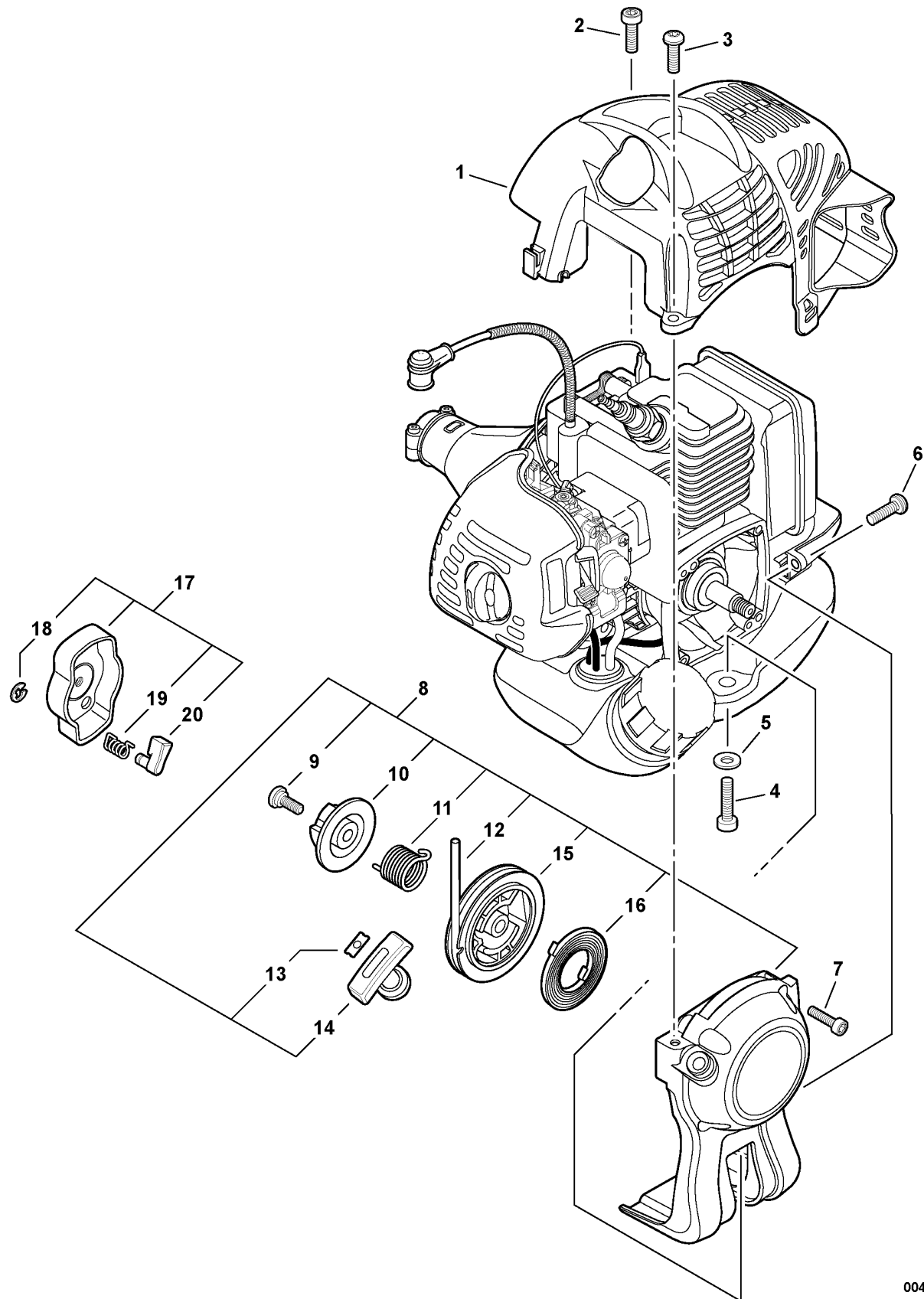
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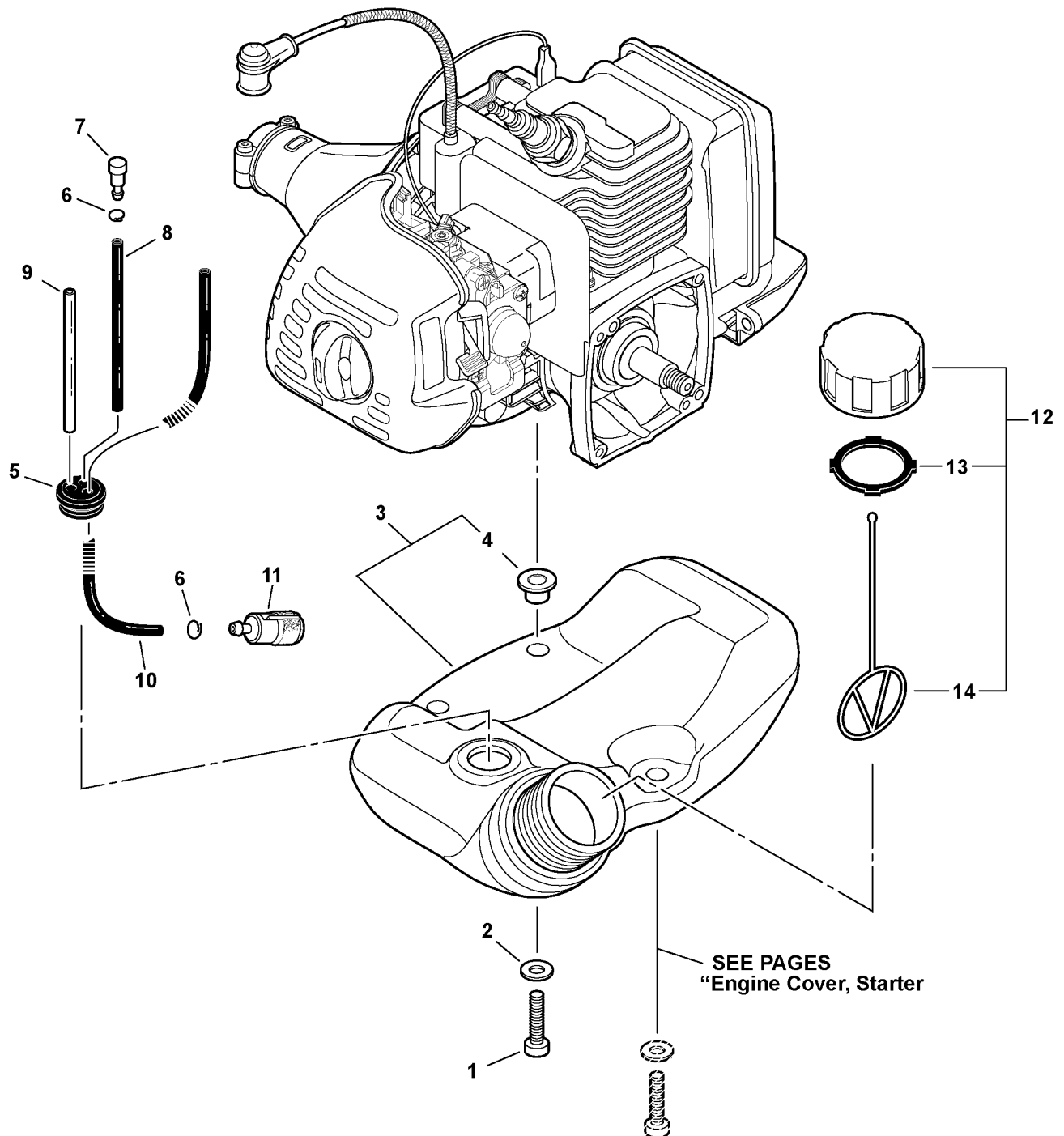
This Section Lists Important Service Publications Relating To The Models Included In This Manual.

No publications associated with any models in this manual.



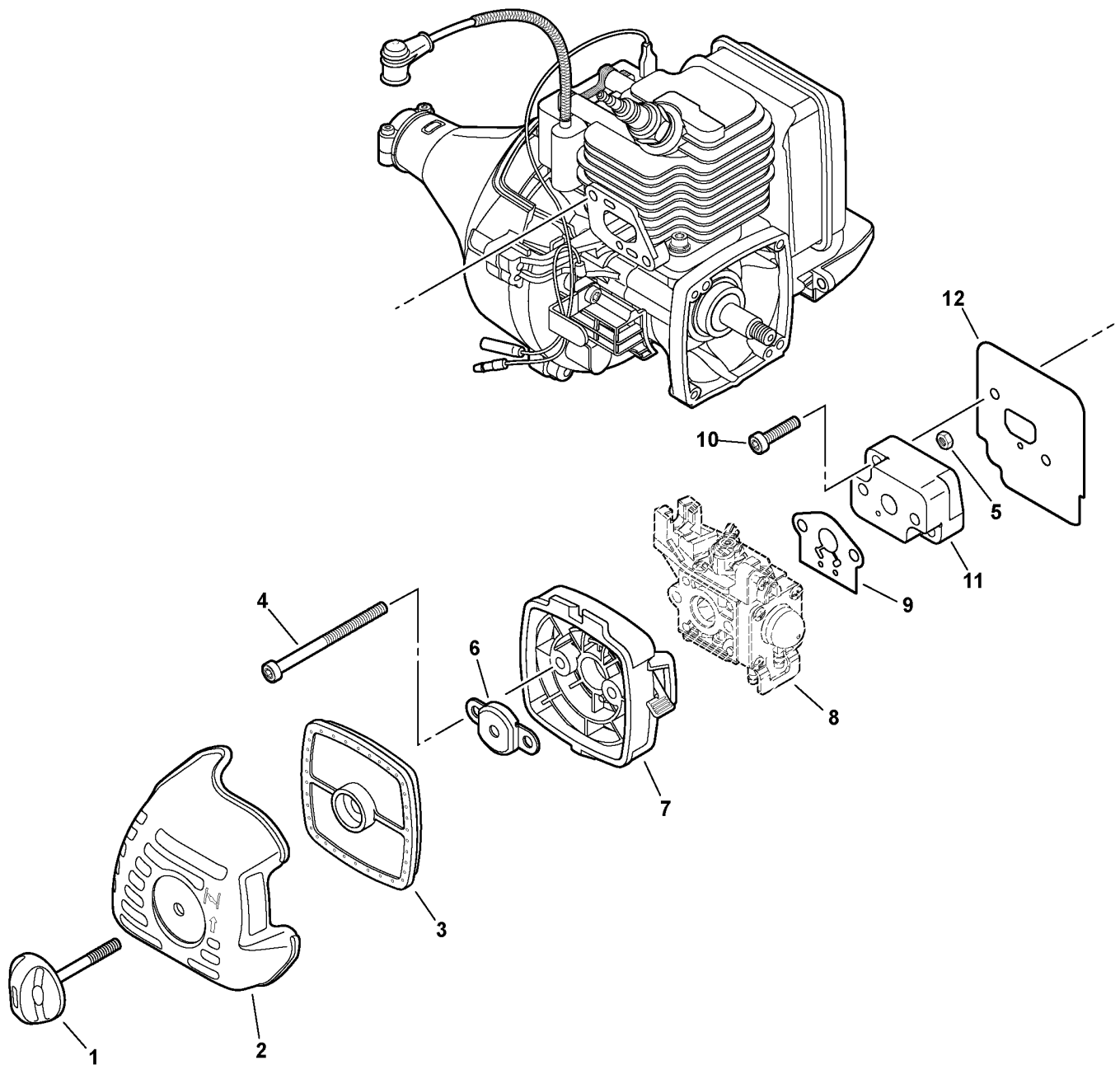
004 0039 0EU

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	A160001090	1	COVER, ENGINE	
2	V805000150	1	SCREW 5X16	
3	V805000000	1	SCREW 5X16 - TAPPING	
4	V805000160	1	SCREW 5X20	
5	90060300005	1	WASHER	
6	V805000000	1	SCREW 5X16 - TAPPING	
7	V804000060	4	SCREW 4X16	
8	A051001311	1	RECOIL STARTER ASY	INCLUDES ITEMS 9-16
9	17723661830	1	SCREW	
10	P022008280	1	PLATE, CAM	
11	P022008270	1	SPRING, DAMPER	
12	P022019990	1	ROPE, STARTER - 3X700mm	
13	17724611120	1	STOPPER, ROPE	
14	17722827030	1	GRIP, STARTER	
15	P022006830	1	DRUM	
16	P022019680	1	SPRING, REWIND	
17	A052000180	1	STARTER PAWL ASY	INCLUDES ITEMS 18-20
18	P022002100	2	E-RING	
19	17723412220	2	SPRING, RETURN	
20	P022006850	2	PAWL, STARTER	



002 0042 0EU

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	V805000160	3	SCREW 5X20	
2	90060300005	3	WASHER 5	
3	A350000780	1	TANK, FUEL	INCLUDES ITEM 4
4	V353000231	3	COLLAR	
5	V137000030	1	GROMMET, FUEL	
6	13201309820	2	CLIP	
7	A356000030	1	VENT ASY	
8	V471001210	1	PIPE, VENT - 3X5X90mm	
9	13201256030	1	PIPE, RETURN - 3X6X80mm	
10	V470000840	1	PIPE, FUEL - 3X5X180mm	
11	13120507320	1	FILTER, FUEL	
12	P021012210	1	CAP ASY	INCLUDES ITEMS 13-14
13	13101655830	1	GASKET, CAP	
14	A365000060	1	CONNECTOR, CAP	



005 0041 0EU

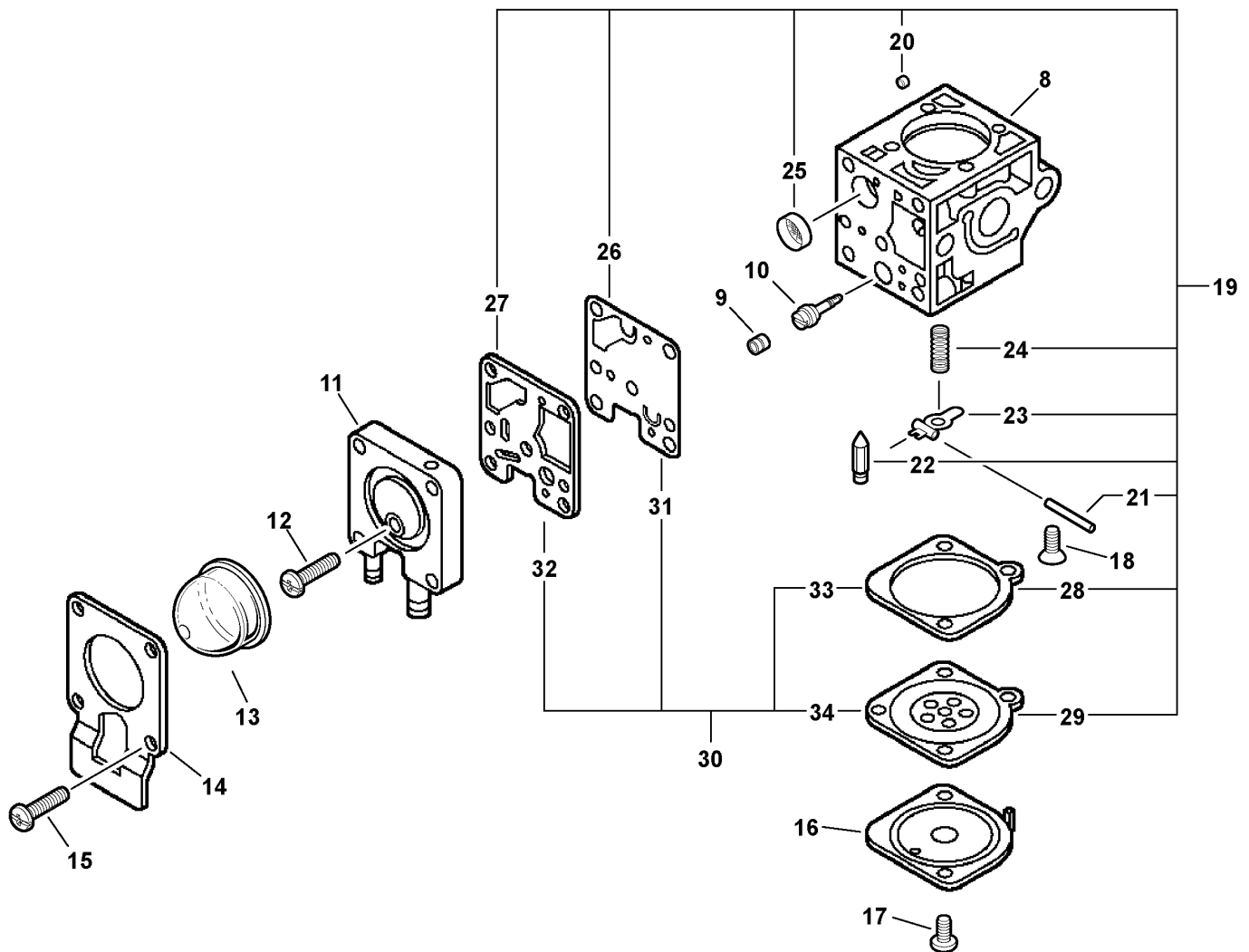
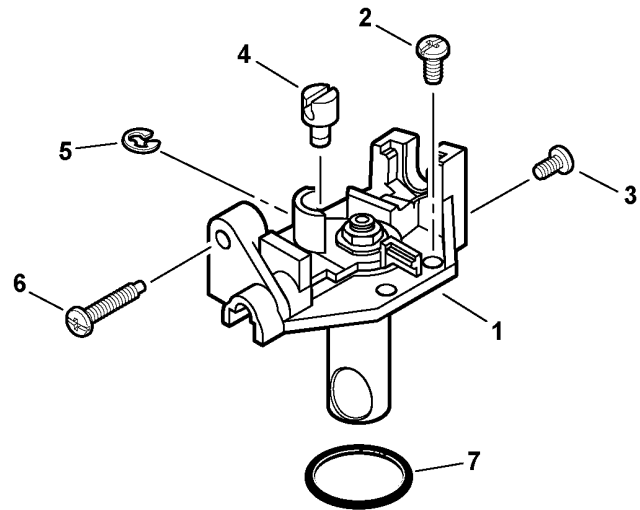
PPT-235ES Power Pruner

Intake

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	V299000250	1	THUMB SCREW	
2	A232000480	1	LID, AIR CLEANER	
3	13031054130	1	FILTER, AIR	
4	V805000100	2	SCREW 5X65	
5	90050000005	2	NUT	
6	12901152730	1	PLATE, PREVENT	
7	P021012870	1	CASE, AIR CLEANER	
8	-----	1	CARBURETOR	See Carburetor Diagram For Additional Information
9	V103000480	1	GASKET, INTAKE ¹	
10	V805000160	2	SCREW 5X20	
11	13001744331	1	INSULATOR, INTAKE	
12	V103000490	1	SHIELD, INTAKE ¹	

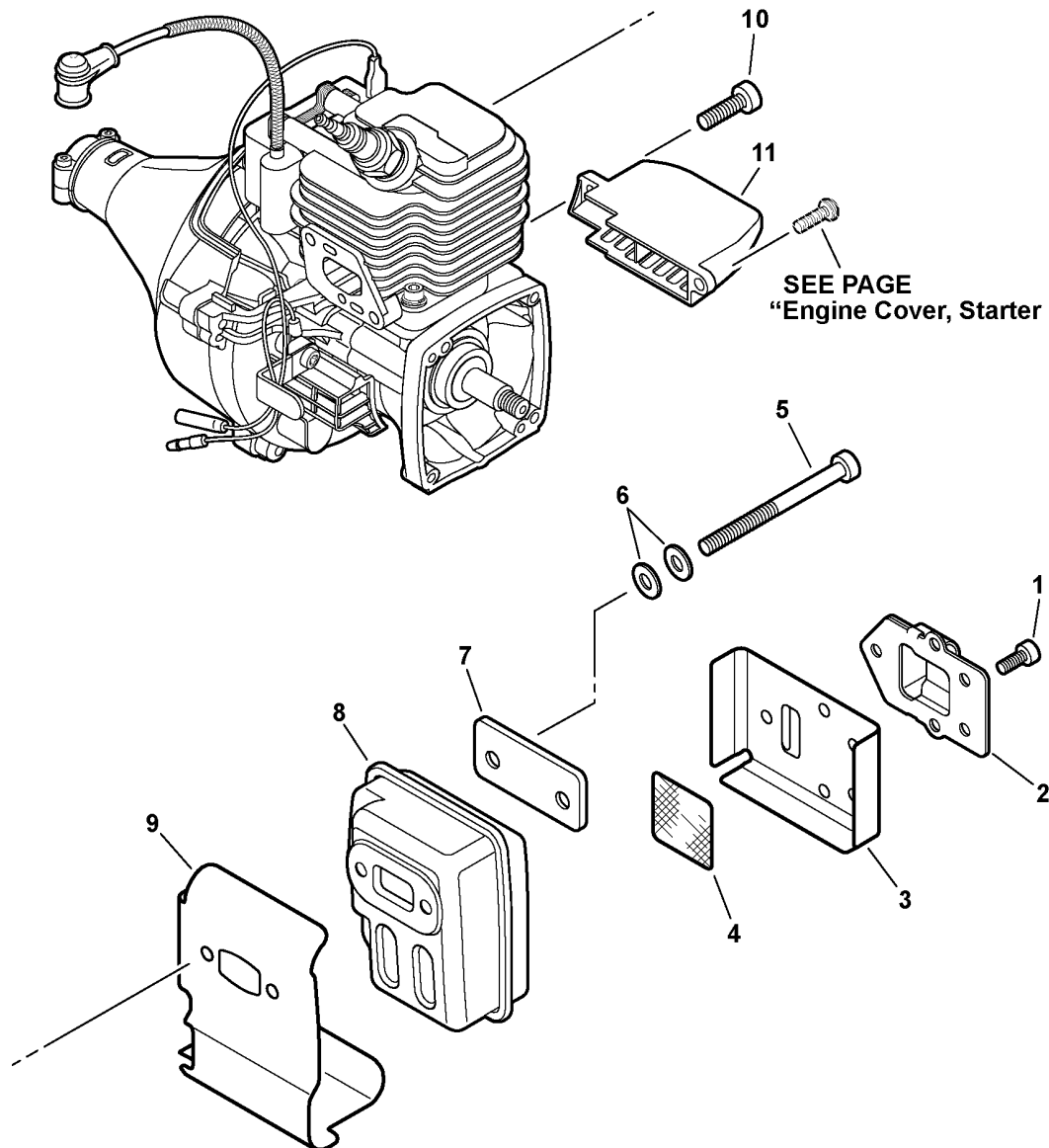
Footnotes

1: Also Included In GASKET KIT



RBK93 0000 000

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
	A021001690	1	CARBURETOR -- RB-K93	
1	P005002050	1	ROTOR COVER ASY	
2	12534413931	3	SCREW, ROTOR COVER ASY	
3	12534452130	1	SCREW, ROTOR COVER	
4	P005001240	1	SWIVEL	
5	P005000190	1	E-RING	
6	P005000100	1	SCREW, THROTTLE ADJUST	
7	P005000280	1	O-RING	
8	-----	1	BODY, CARBURETOR	NOT AVAILABLE SEPARATELY
9	P005001270	1	CAP, LIMITER	
10	P005001260	1	NEEDLE - HIGH SPEED	
11	P005001890	1	PURGE BASE ASY	
12	P005000270	1	SCREW, PURGE BASE ASY	
13	12538108660	1	BULB, PURGE	
14	P005000250	1	RETAINER, PURGE BULB	
15	P005001900	4	SCREW, PURGE BULB RETAINER	
16	12534252130	1	COVER, DIAPHRAGM	
17	12534452130	2	SCREW, DIAPHRAGM COVER	
18	12533942030	1	SCREW, METERING LEVER PIN	
19	P005001670	1	REPAIR KIT	INCLUDES ITEMS 20-29
20	P005001000	1	ROLLER, GUIDE	
21	-----	1	PIN, METERING LEVER	
22	-----	1	VALVE, INLET NEEDLE	
23	-----	1	LEVER, METERING	
24	-----	1	SPRING, METERING LEVER	
25	-----	1	STRAINER	
26	-----	1	DIAPHRAGM, PUMP	
27	-----	1	GASKET, PUMP	
28	-----	1	GASKET, METERING	
29	-----	1	DIAPHRAGM, METERING	
30	P005001660	1	DIAPHRAGM/GASKET KIT	INCLUDES ITEMS 31-34
31	-----	1	DIAPHRAGM, PUMP	
32	-----	1	GASKET, PUMP	
33	-----	1	GASKET, METERING	
34	-----	1	DIAPHRAGM, METERING	



006 0048 00B

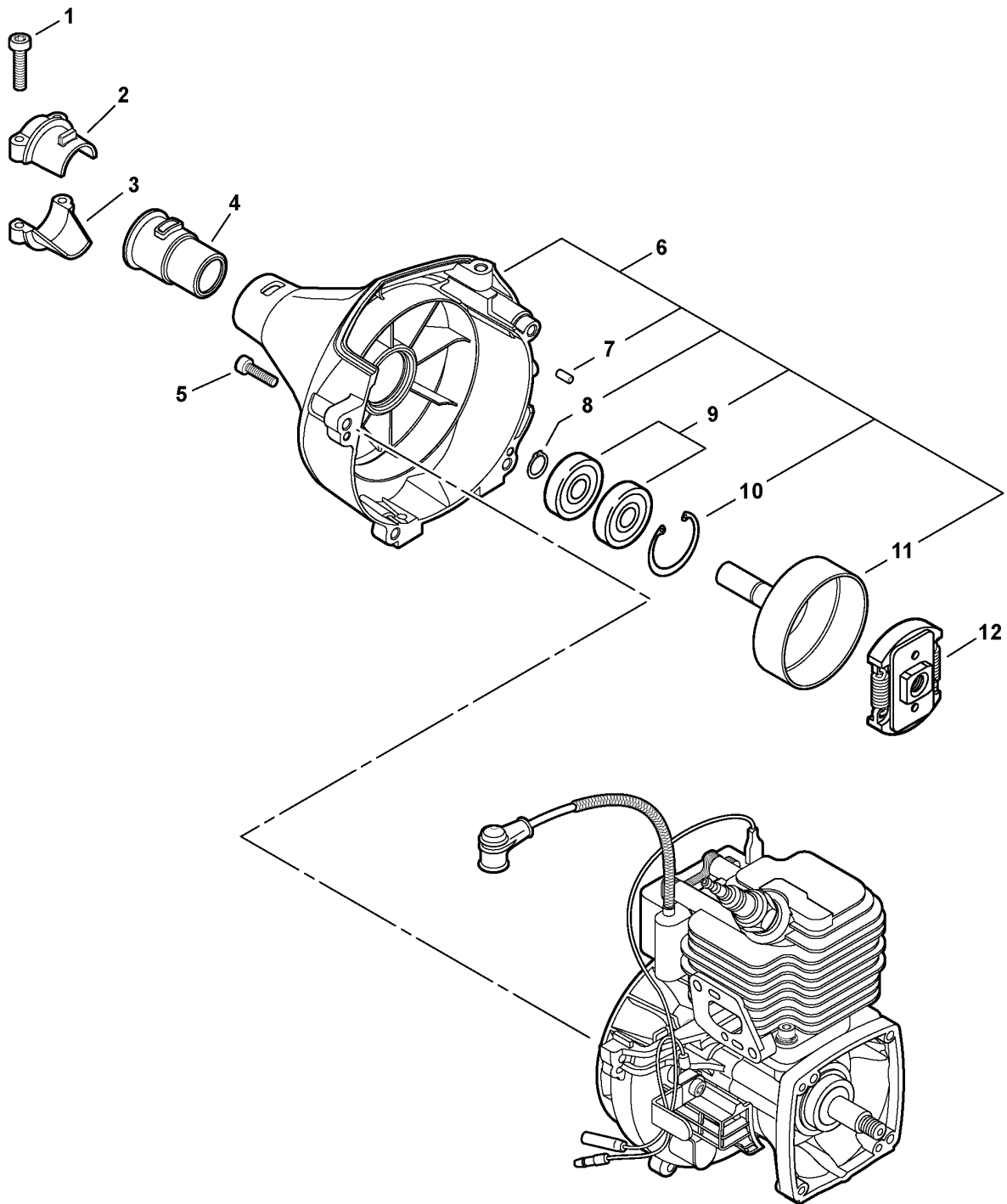
PPT-235ES Power Pruner

Exhaust

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	V804000080	5	SCREW 4X8	
2	A313000600	1	GUIDE, EXHAUST	
3	V104000360	1	GASKET, EXHAUST ¹	
4	14586240630	1	SCREEN, MUFFLER	
5	V805000190	2	SCREW 5X55	
6	V347000000	4	CONICAL WASHER	
7	V150000371	1	EYE PLATE	
8	A300000790	1	MUFFLER	
9	V104000850	1	SHIELD, EXHAUST ¹	
10	V805000150	1	SCREW 5X16	
11	A320000480	1	DUCT, AIR	

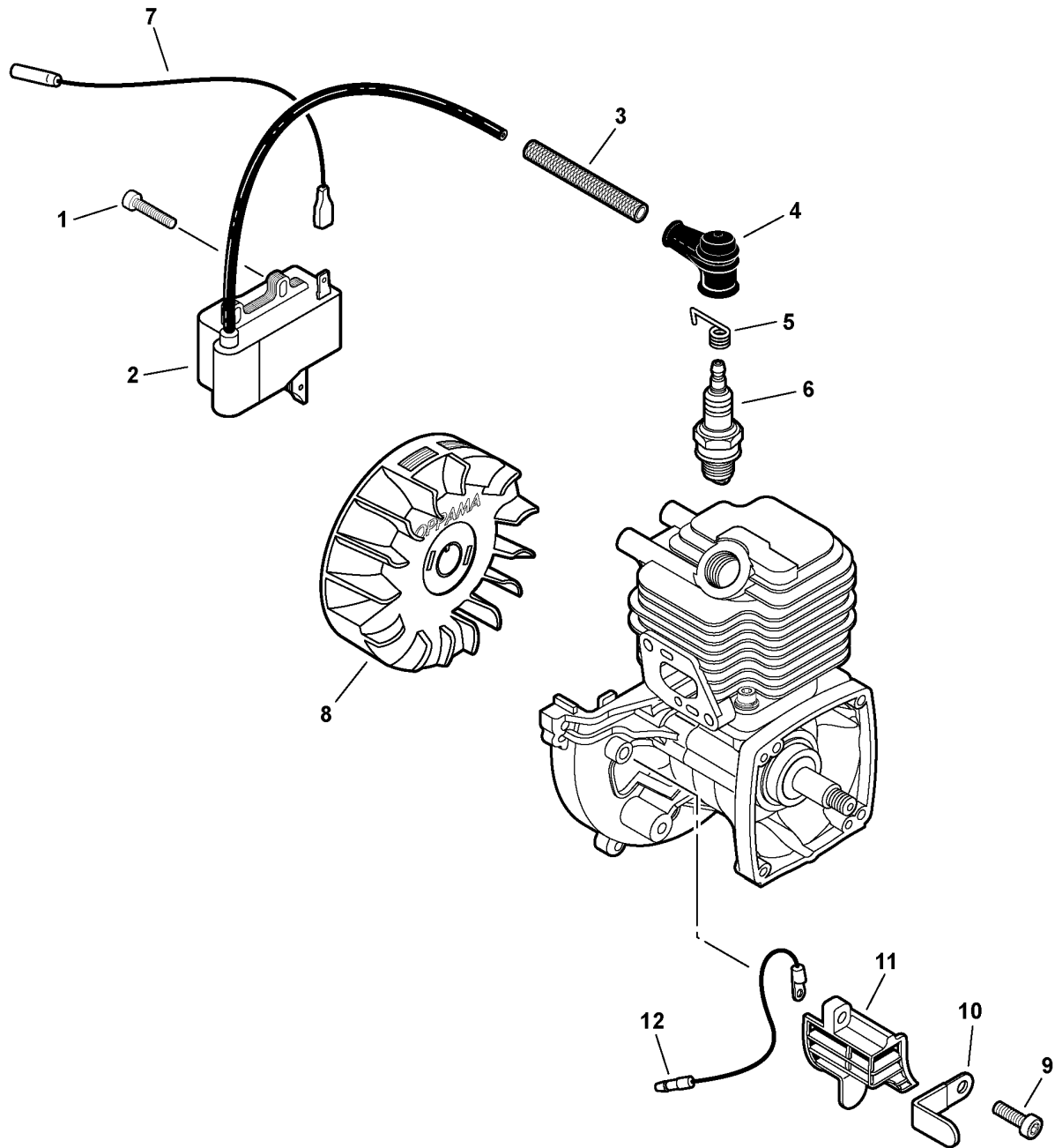
Footnotes

1: Also Included In GASKET KIT



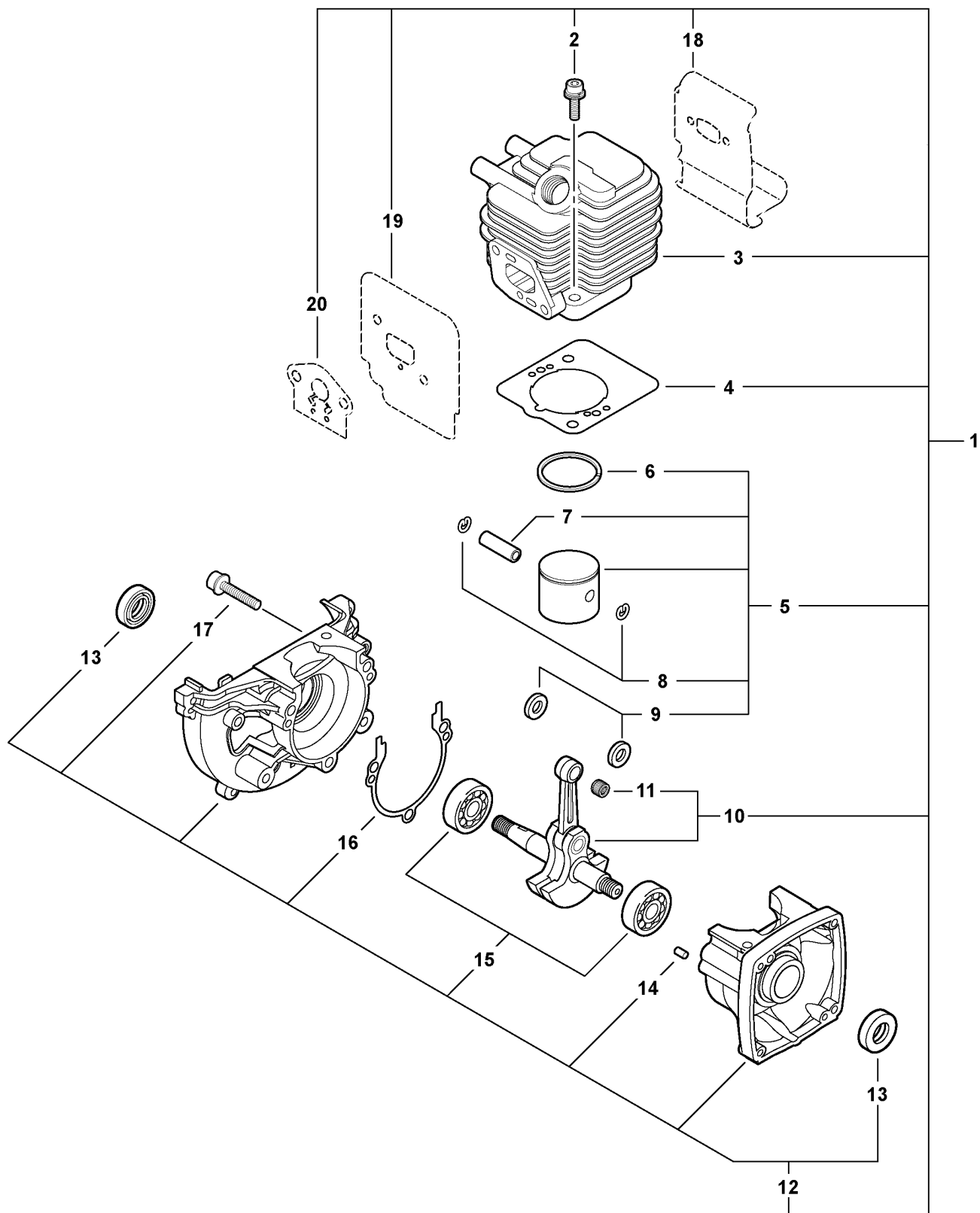
003 0019 00C

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	V805000160	2	SCREW 5X20	
2	61092227432	1	HOLDER -- UPPER	
3	A575000100	1	HOLDER - LOWER	
4	61091055230	1	CUSHION	
5	V804000060	4	SCREW 4X16	
6	P021033780	1	FAN COVER ASY	INCLUDES ITEMS 7-11
7	V622000020	2	DOWEL PIN - 4X7.8mm	
8	90070100012	1	CIRCLIP 12	
9	90080796001	2	BEARING, BALL - 6001	
10	90070200028	1	CIRCLIP 28	
11	A556000590	1	DRUM, CLUTCH	
12	A056000230	1	CLUTCH ASY	



007 0015 0EU

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	V804000070	2	SCREW 4X20	
2	A411000130	1	COIL, IGNITION	
3	V475004160	1	TUBE, INSULATOR	
4	A427000013	1	CAP, SPARK PLUG	
5	A426000010	1	TERMINAL, SPARK PLUG CAP	
6	A425000000	1	SPARK PLUG -- BPMR-8Y	
7	V485001120	1	LEAD, IGNITION	
8	A409000210	1	FLYWHEEL	
9	V805000150	1	SCREW 5X16	
10	15911621231	1	CLAMP	
11	A127000160	1	COVER, DEBRIS	
12	16201427230	1	LEAD, GROUND	

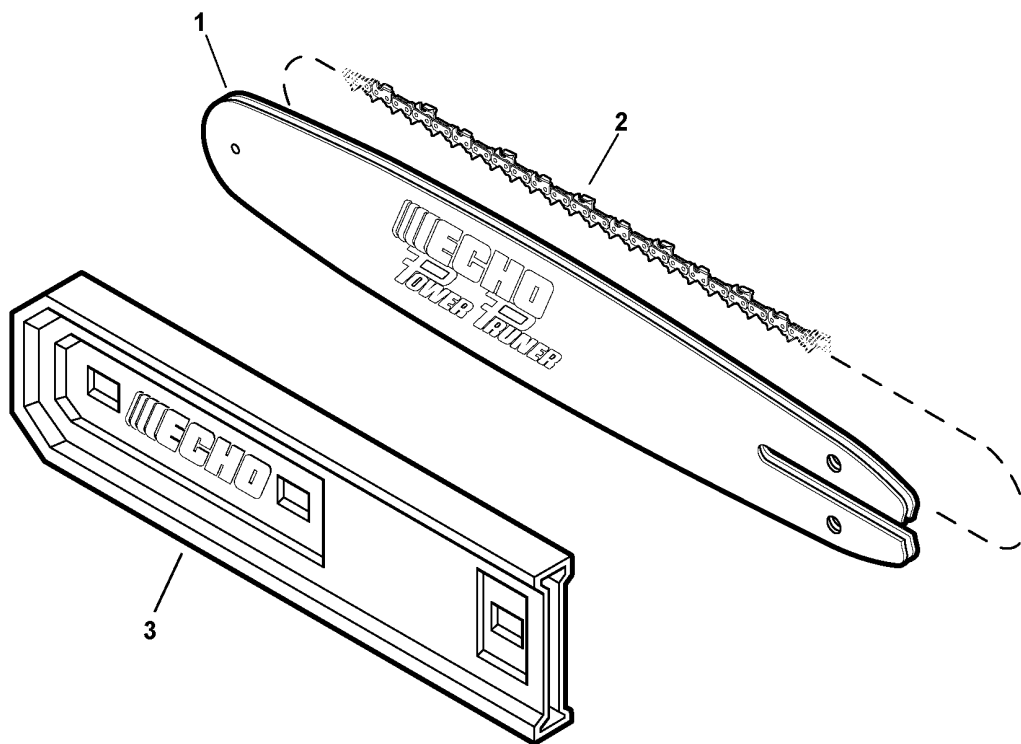


SB1096 0000 000

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	SB1096	1	SHORT BLOCK	INCLUDES ITEM 2-20
2	90016205022	2	SCREW 5X22	
3	A130000540	1	CYLINDER	
4	V100000160	1	GASKET, CYLINDER ¹	
5	P021007712	1	PISTON KIT	INCLUDES ITEMS 6-9
6	A101000090	1	RING, PISTON	
7	10001311520	1	PIN, PISTON	
8	10001504630	2	CIRCLIP, PISTON PIN	
9	10001411520	2	SPACER, PISTON PIN	
10	A011000101	1	CRANKSHAFT ASY	INCLUDES ITEM 11
11	V553000060	1	BEARING, NEEDLE	
12	10020452132	1	CRANKCASE KIT	INCLUDES ITEMS 13-17
13	10021242031	2	OIL SEAL	
14	V622000020	2	DOWEL PIN - 4X7.8mm	
15	9403536201	2	BEARING, BALL - 6201	
16	10024242030	1	GASKET, CRANKCASE ¹	
17	90016205028	3	SCREW 5X28	
18	-----	1	SHIELD, EXHAUST ¹	See Pages "EXHAUST"
19	-----	1	SHIELD, INTAKE ¹	See Pages "INTAKE"
20	-----	1	GASKET, INTAKE ¹	See Pages "INTAKE"

Footnotes

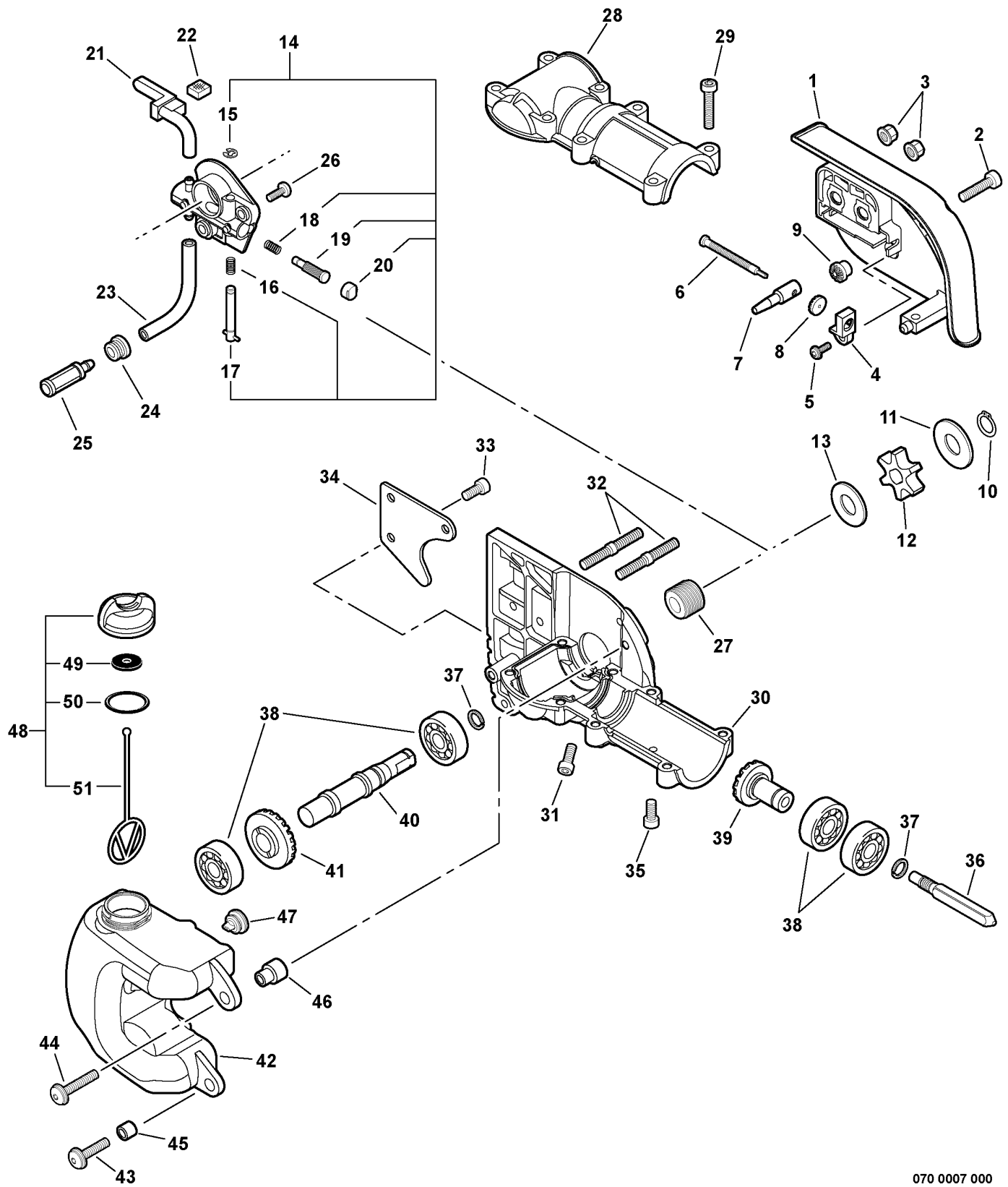
1: Also Included In GASKET KIT



016 0013 000

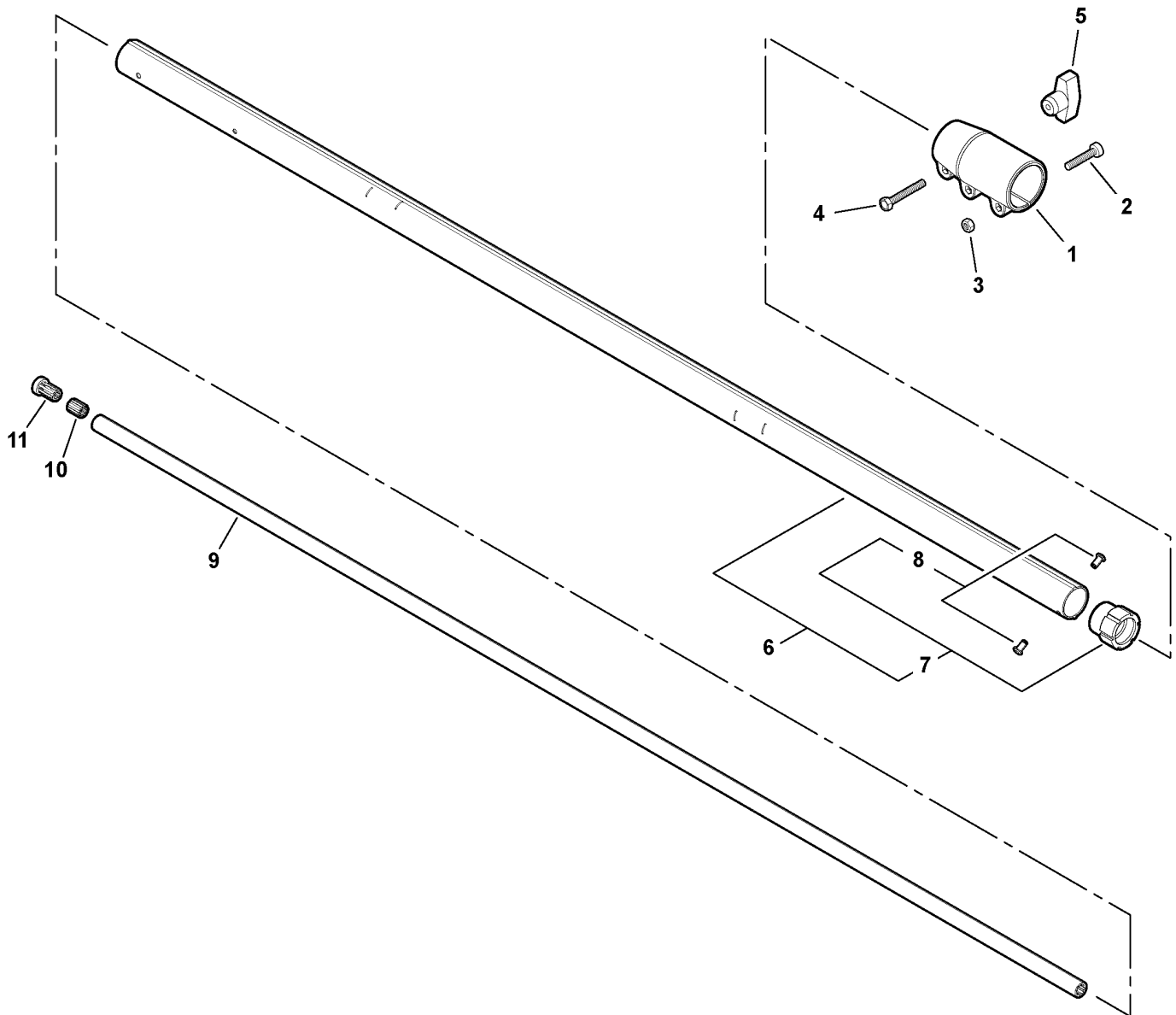
PPT-235ES Power Pruner**Guide Bar, Sawing Chain, Guide Bar Cover**

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	10A0CD3739	1	GUIDE BAR - 10" -- Double Guard 91	
2	91VX39CQ	1	SAWING CHAIN	GAUGE: .050"
3	X490000060	1	COVER, GUIDE BAR	



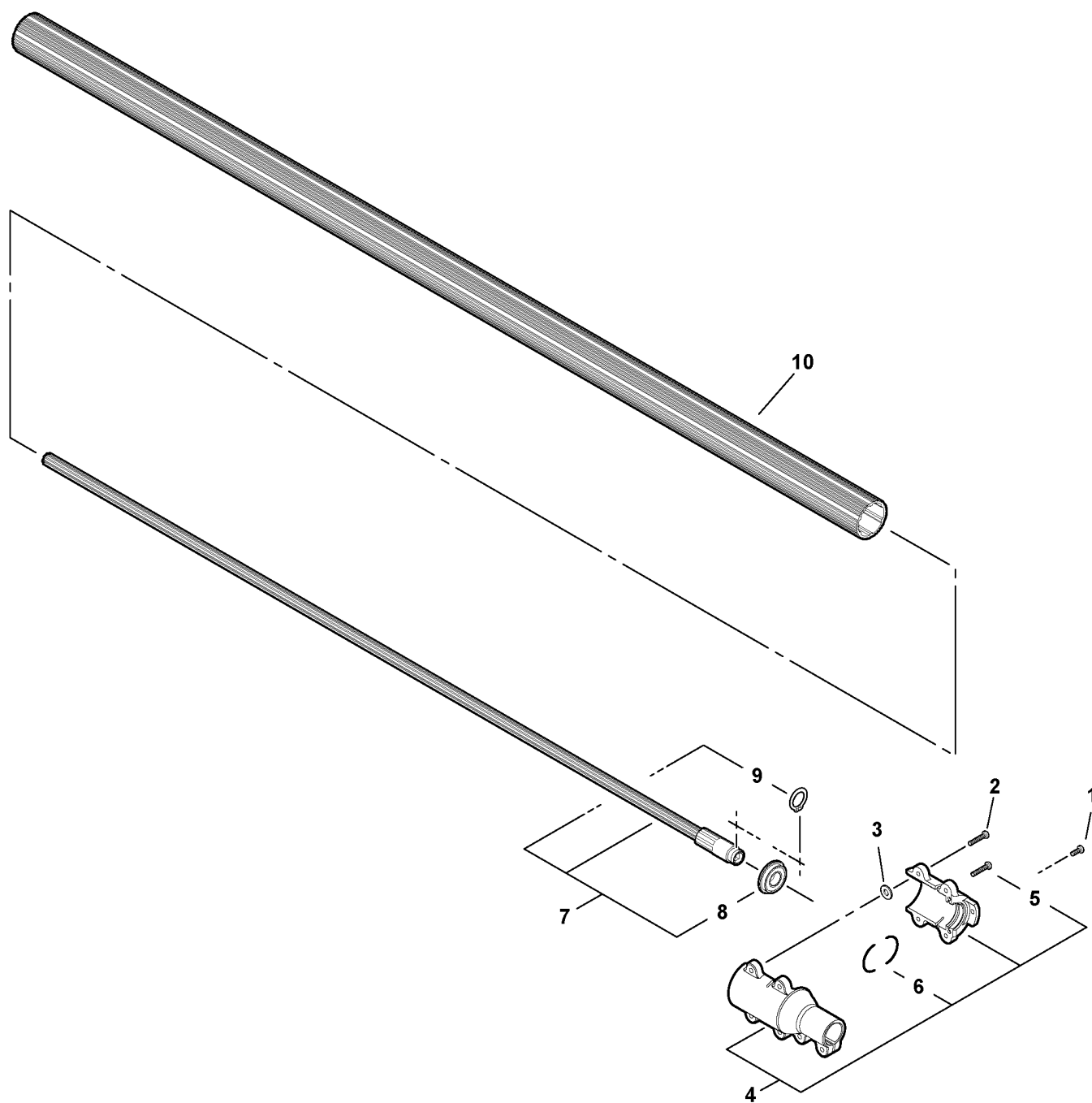
070 0007 000

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	C300000361	1	GUARD, SPROCKET	
2	V253000180	1	SCREW 5X20	
3	43301903933	2	FLANGE NUT 6	
4	V355000140	1	COLLAR	
5	V252000040	1	SCREW 4X8	
6	V203000041	1	BOLT	
7	C309000030	1	TENSIONER	
8	V651000310	1	GEAR - 14 TOOTH	
9	V651000320	1	GEAR - 14 TOOTH	
10	V583000090	1	CIRCLIP	
11	V307000160	1	WASHER	
12	C580000070	1	SPROCKET, DRIVE	
13	17501439131	1	WASHER	
14	C022000010	1	AUTO-OILER ASY	INCLUDES ITEMS 15-20
15	12532715130	1	CIRCLIP	
16	P022010670	1	SPRING	
17	P022010680	1	NEEDLE, ADJUST	
18	P022010660	1	SPRING	
19	P022010650	1	PLUNGER	
20	P022010640	1	CAP, OIL PUMP	
21	V470000180	1	PIPE, OIL OUTLET	
22	43724439130	1	PAD, FOAM	
23	13011014330	1	PIPE, OIL - 3X6X75mm	REPOWER BULK OPTION: 90015
24	13211501461	1	GROMMET	
25	43620502832	1	FILTER, OIL	
26	V253000200	2	SCREW 5X10	
27	43706338330	1	GEAR, WORM	
28	C531000030	1	CASE, GEAR - UPPER	
29	V253000240	8	SCREW 5X25	
30	C531000430	1	CASE, GEAR - LOWER	
31	V253000200	1	SCREW 5X10	
32	V224000040	2	THREADED STUD 6	
33	V253000200	3	SCREW 5X10	
34	C649000140	1	HOOK	
35	V253000200	1	SCREW 5X10	
36	61002522361	1	CONNECTOR, SHAFT	
37	90070600012	2	CIRCLIP 12	
38	9404206001	4	BEARING BALL	
39	V651000210	1	GEAR, BEVEL - 15 TOOTH	
40	C534000430	1	SHAFT, GEAR	
41	V651000201	1	GEAR, BEVEL - 23 TOOTH	
42	C200000080	1	TANK, OIL	
43	V253000230	2	SCREW 5X20	
44	V253000240	1	SCREW 5X25	
45	13104528230	2	COLLAR	
46	V354000010	1	SPACER	
47	13131406320	1	VENT ASY	
48	P021014940	1	CAP ASY - ORANGE	INCLUDES ITEMS 49-51
49	43601237830	1	WASHER - RUBBER	
50	90072000018	1	O RING	
51	A365000050	1	CONNECTOR, CAP	



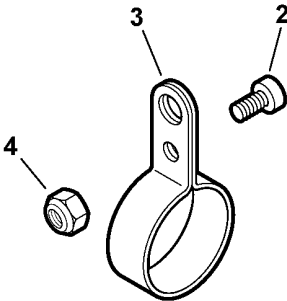
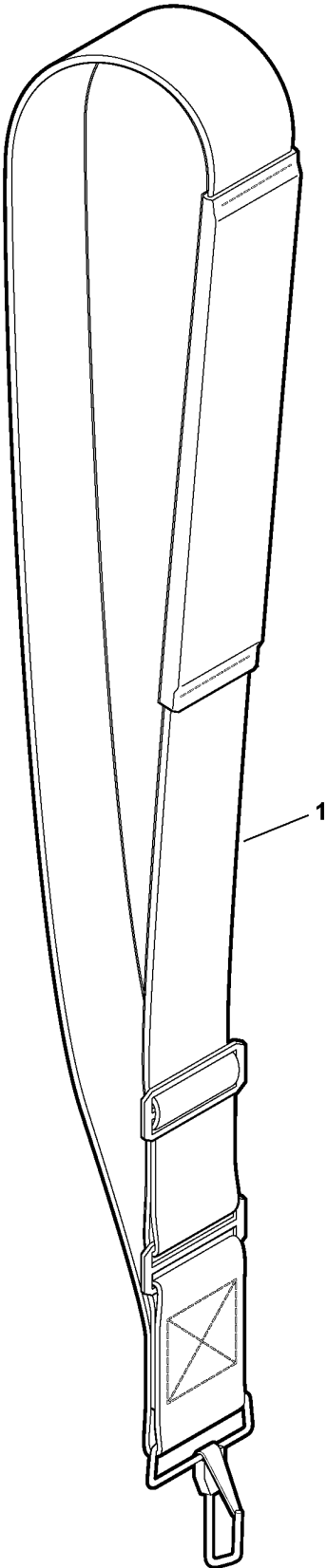
073 0001 000

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	C510000170	1	COUPLING	
2	V253000230	2	SCREW 5X20	
3	90050000005	2	NUT	
4	90010006025	1	BOLT 6X25	
5	V299000321	1	KNOB	
6	C050000760	1	MAIN PIPE ASY - BLACK	INCLUDES ITEMS 7-8
7	C503000080	1	BEARING HOLDER ASY	INCLUDES ITEM 8
8	89001122360	2	RIVET	
9	C504000360	1	DRIVESHAFT - UPPER	
10	C509000090	1	SOCKET - INNER	
11	C509000080	1	SOCKET - OUTER	



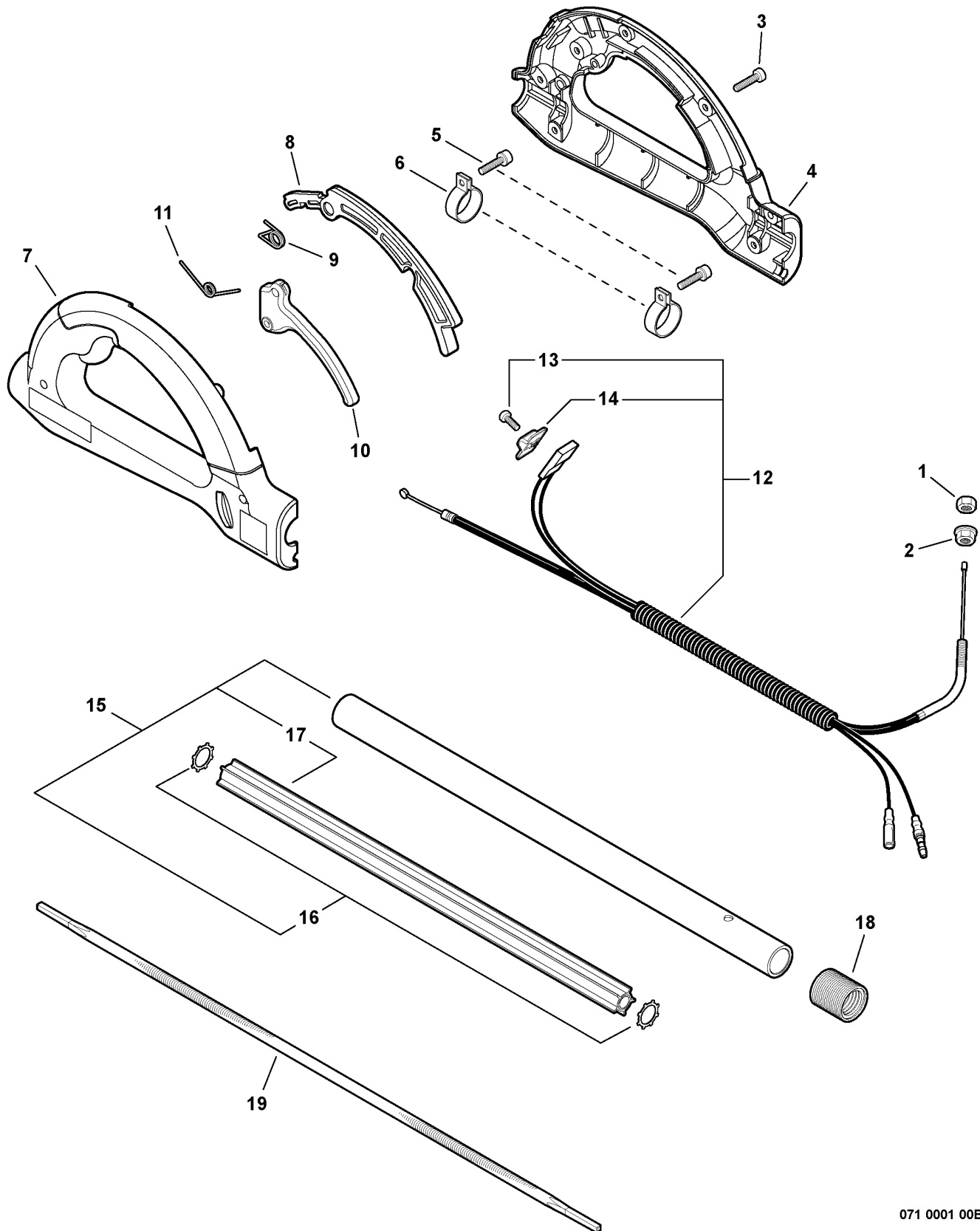
072 0001 00E

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	90010505014	1	SCREW 5X14	
2	V253000230	4	SCREW 5X20	
3	V303000071	2	WASHER	
4	C510000191	1	COUPLING ASY	INCLUDES ITEM 5-6
5	V805000160	2	SCREW 5X20	
6	V420001810	2	CUSHION	
7	C504000372	1	DRIVESHAFT ASY - LOWER	INCLUDES ITEMS 8-9
8	9405736002	1	BEARING, BALL	
9	10022922460	1	RETAINING RING	
10	C500000270	1	PIPE, MAIN - ORANGE	



700 0007 000

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	30100022060	1	STRAP, SHOULDER	
2	V805000130	1	SCREW	
3	30061022061	1	CLAMP	
4	90056000005	1	LOCKNUT	

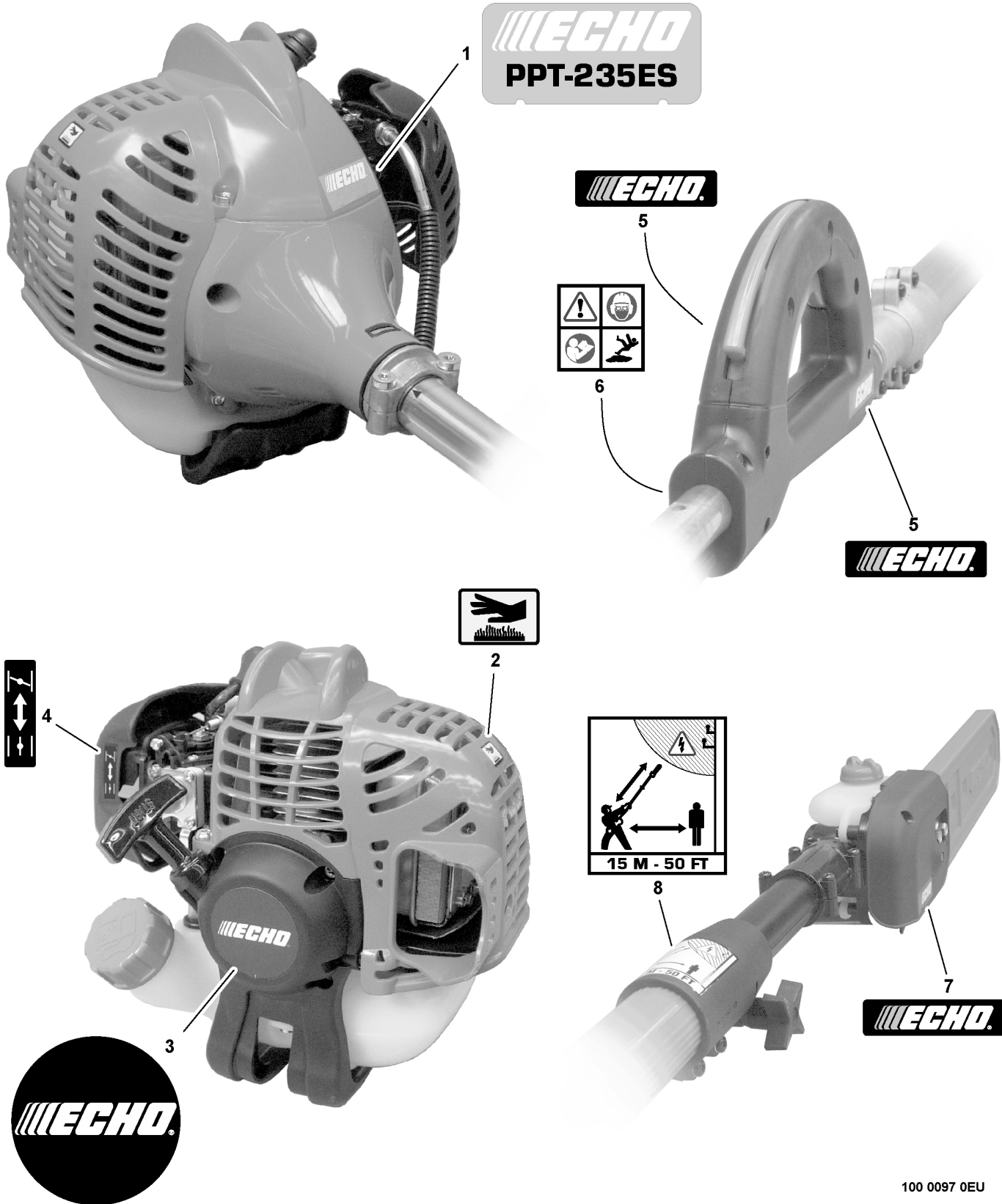


071 0001 00B

PPT-235ES Power Pruner

Control Handle

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	90050200006	1	NUT	
2	90051500006	1	FLANGE NUT	
3	V253000210	7	SCREW 5X18	
4	C041000000	1	HANDLE - RIGHT	
5	V253000220	2	SCREW 5X20	
6	V495000680	2	CLAMP	
7	C041000011	1	HANDLE - LEFT	
8	C460000100	1	LOCKOUT, TRIGGER	
9	V452000340	1	SPRING, TRIGGER LOCKOUT	
10	C450000260	1	TRIGGER	
11	V452000330	1	SPRING, TRIGGER	
12	P021033760	1	CONTROL CABLE ASY	INCLUDES ITEMS 13-14
13	9154503010	1	SCREW 3X10	
14	A444000020	1	KNOB, SWITCH	
15	C050000770	1	PIPE ASY	INCLUDES ITEMS 16-17
16	V583000110	2	WASHER	
17	C507000160	1	LINER	
18	V475004000	1	COVER - CORRUGATED	
19	C506000140	1	DRIVESHAFT - FLEXIBLE	



100 0097 0EU

PPT-235ES Power Pruner**Labels**

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	X547001630	1	LABEL - MODEL -- PPT-235ES	
2	X505002310	1	LABEL - CAUTION -- HOT	
3	X502000330	1	LABEL - ECHO	
4	89033252730	1	LABEL - CHOKE	
5	X502000610	1	LABEL - ECHO	
6	X505002361	1	LABEL - CAUTION	
7	X502000600	1	LABEL - ECHO	
8	X505002371	1	LABEL - WARNING	

Use Gasket Kit	Contains:	Service Number	Description
P021015980		10024242030	GASKET, CRANKCASE
		14586642031	GASKET, EXHAUST
		V100000160	GASKET, CYLINDER
		V103000480	GASKET, INTAKE
		V103000490	GASKET, INTAKE
		V104000360	GASKET, EXHAUST
		V104000850	SHIELD, EXHAUST

300 0043 000

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	P021015980	1	GASKET KIT	

SOCKET WRENCH W/SCREWDRIVER (Also Removes Spark Plugs)

1 - 89541010630 -- 17X19mm

2 - X602000020 -- 17X19mm

3 - 89541039131 -- 10X19mm

4 - 89541006960 -- 13X19mm

SOCKET WRENCH

5 - X602000031 -- 17X14.5mm

LOCKING ROD

6 - 89751801131 -- 5X120mm

OPEN END WRENCH

7 - 89511200330 -- 8X10mm

8 - 89512220960 -- 17X19mm

9 - 89501505260 -- 10mm

HEX BAR

10 - 89541220960 -- 10mm

HEX KEY

11 - 89561203430 -- 3mm

12 - 89561000130 -- 4mm

13 - 89561100330 -- 5mm

TORX KEY

14 - X605000060 -- T27

SCREWDRIVER

15 - 89581100130 -- 125mm SLOTTED

16 - 89581203930 -- 50mm PHILLIPS

CHUCK KEY

17 - 89757005560

Consult Your Operators Manual For The Tools Used With Your Model

200 0002 000

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	89541010630	1	SOCKET WRENCH/SCREWDRIVER	17X19mm
2	X602000020	1	SOCKET WRENCH/SCREWDRIVER	17X19mm
3	89541039131	1	SOCKET WRENCH/SCREWDRIVER	10X19mm
4	89541006960	1	SOCKET WRENCH/SCREWDRIVER	13X19mm
5	X602000031	1	SOCKET WRENCH	17X14.5mm
6	89751801131	1	LOCKING ROD	5X120mm
7	89511200330	1	OPEN END WRENCH	8X10mm
8	89512220960	1	OPEN END WRENCH	17X19mm
9	89501505260	1	OPEN END WRENCH	10mm
10	89541220960	1	HEX BAR	10mm
11	89561203430	1	HEX KEY	3mm
12	89561000130	1	HEX KEY	4mm
13	89561100330	1	HEX KEY	5mm
14	X605000060	1	TORX KEY	T27
15	89581100130	1	SCREWDRIVER	125mm SLOT HEAD
16	89581203930	1	SCREWDRIVER	50mm CROSS HEAD
17	89757005560	1	CHUCK KEY	



Part Number Index

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NOTES



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