



AVAILABLE ATTACHMENTS & ACCESSORIES

Accessories

99944200002	i-Start Kit
99946400020	Power Pruner 5' Orange Extension

Attachments

99946400040	Hedger Accessory
99946400050	Power Pruner Circle Saw Accessory
99946400060	Hedge Clipper Attachment
99946400065	Articulating Hedge Clipper Attachment

Guide Bars

1080373301	Guide Bar - 8"
1100373901	Guide Bar - 10" -- Narrow
1101373901	Guide Bar - 10" -- Regular
1102373901	Guide Bar - 10" -- Intenz
1120374401	Guide Bar - 12" -- Narrow
1121374401	Guide Bar - 12" -- Regular
1122374401	Guide Bar - 10" -- Intenz

Sawing Chains

1907039	Chain - 10" (90SQ-39C) -- Narrow
1907044	Chain - 12" (90SGQ-44C) -- Narrow
1917033	Chain - 8" (91VSQ-33C)
1917039	Chain - 10" (91VSQ-39C)
1917044	Chain - 12" (91VSQ-44C)

Maintenance and Repair Kits

90090	Driveshaft and Rear Handle Assembly
90093	Gear Case/Oiler Assembly

PARTS CATALOG

PPT-230 POWER PRUNER

22.8cc

MODEL: SERIAL NUMBERS

PPT-230: S/N 04001001 - 04999999

ECHO, INCORPORATED

400 Oakwood Road Lake Zurich, Illinois 60047 USA

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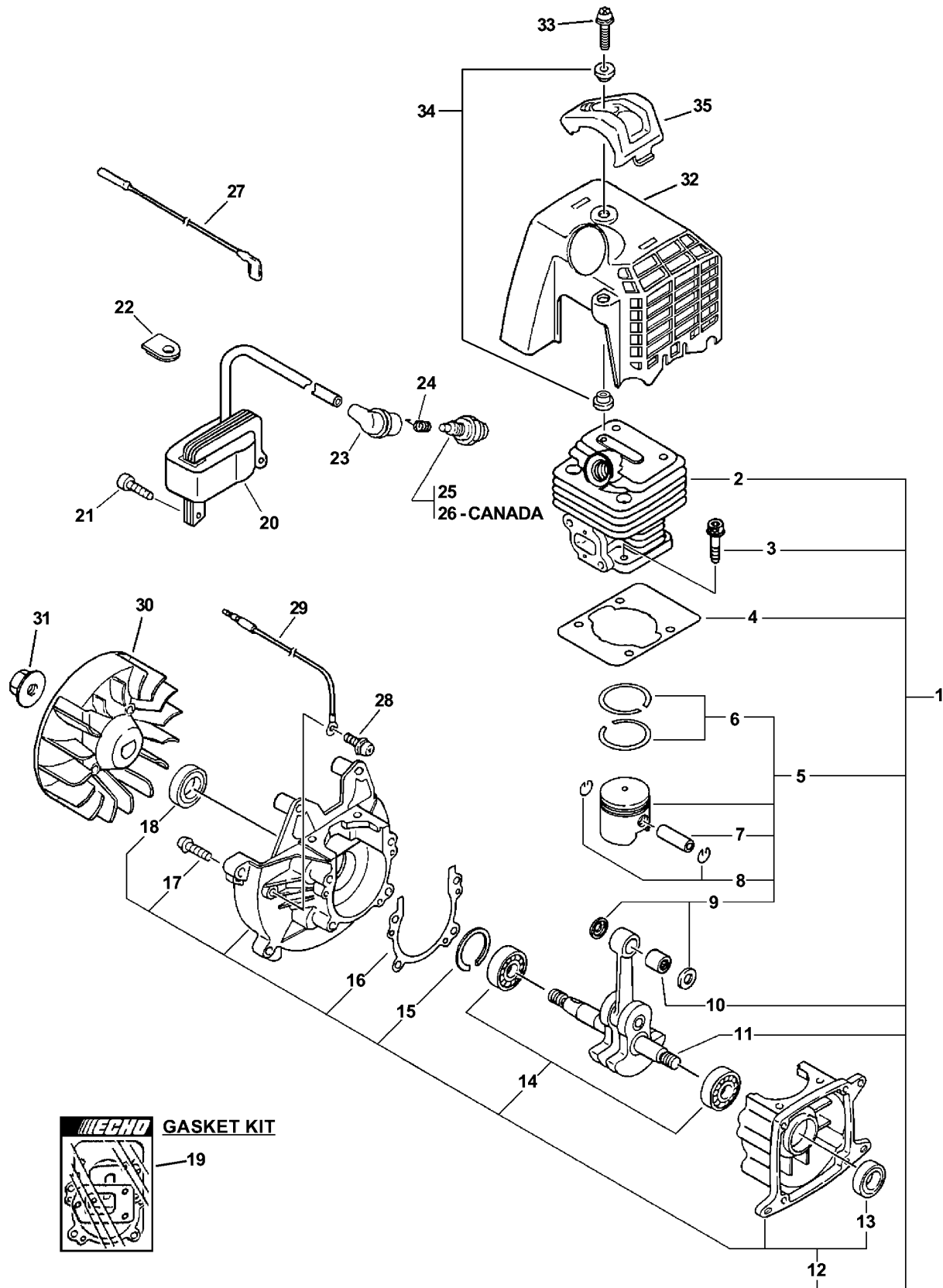
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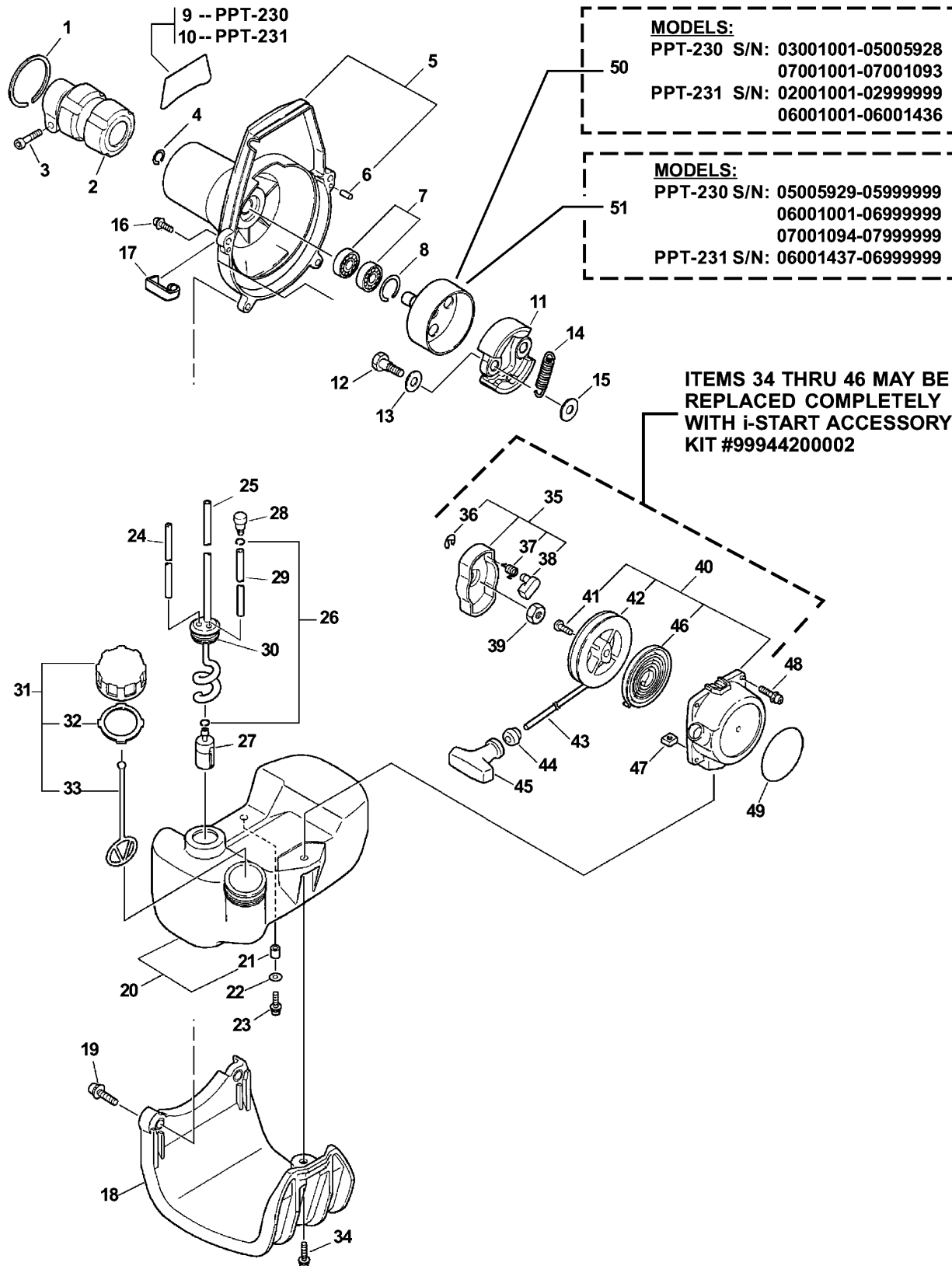
PPT-230 POWER PRUNER

Engine, Short Block, Ignition, Cylinder Cover

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	SB1045	1	SHORT BLOCK	INCLUDES ITEMS 2-18
2	A130000074	1	CYLINDER	
3	90016205022	4	BOLT 5X22	
4	V100000010	1	GASKET, CYLINDER ¹	
5	P021000930	1	PISTON KIT	INCLUDES ITEMS 6-9
6	A101000000	2	RING, PISTON	
7	10001311520	1	PIN, PISTON	
8	10001504630	2	CIRCLIP, PISTON PIN	
9	10001411520	2	SPACER, PISTON PIN	
10	V553000010	1	BEARING, NEEDLE	
11	A011000042	1	CRANKSHAFT ASY	
12	P021000940	1	CRANKCASE KIT	INCLUDES ITEMS 13-18
13	10021305530	1	OIL SEAL	
14	90080036001	2	BEARING, BALL	
15	90070200028	1	CIRCLIP 28	
16	10024255930	1	GASKET, CRANKCASE ¹	
17	90016205025	4	BOLT 5X25	
18	10021228230	1	OIL SEAL	
19	P021002351	1	GASKET KIT	
20	A411000010	1	COIL, IGNITION	
21	90016205016	2	BOLT 5X16	
22	15611240630	1	GROMMET	
23	15901203433	1	CAP, SPARK PLUG	
24	15901103432	1	TERMINAL, SPARK PLUG CAP	
25	99944500071	1	SPARK PLUG -- BPM-7Y	
26	15901010230	1	SPARK PLUG -- BPMR-7A	CANADA MODELS
27	16201056430	1	LEAD, GROUND	
28	90024205010	1	SCREW 5X10	
29	16201452930	1	LEAD, GROUND	
30	A409000020	1	FLYWHEEL	
31	90051500008	1	FLANGE NUT 8	
32	A160000060	1	COVER, CYLINDER	
33	9111005016	1	BOLT 5X16	
34	V353000020	1	COLLAR 5	
35	A162000000	1	GUARD, TOP	

Footnotes

1: Also Included In GASKET KIT



PPT-230 POWER PRUNER

Fancase, Clutch, Fuel System, Starter

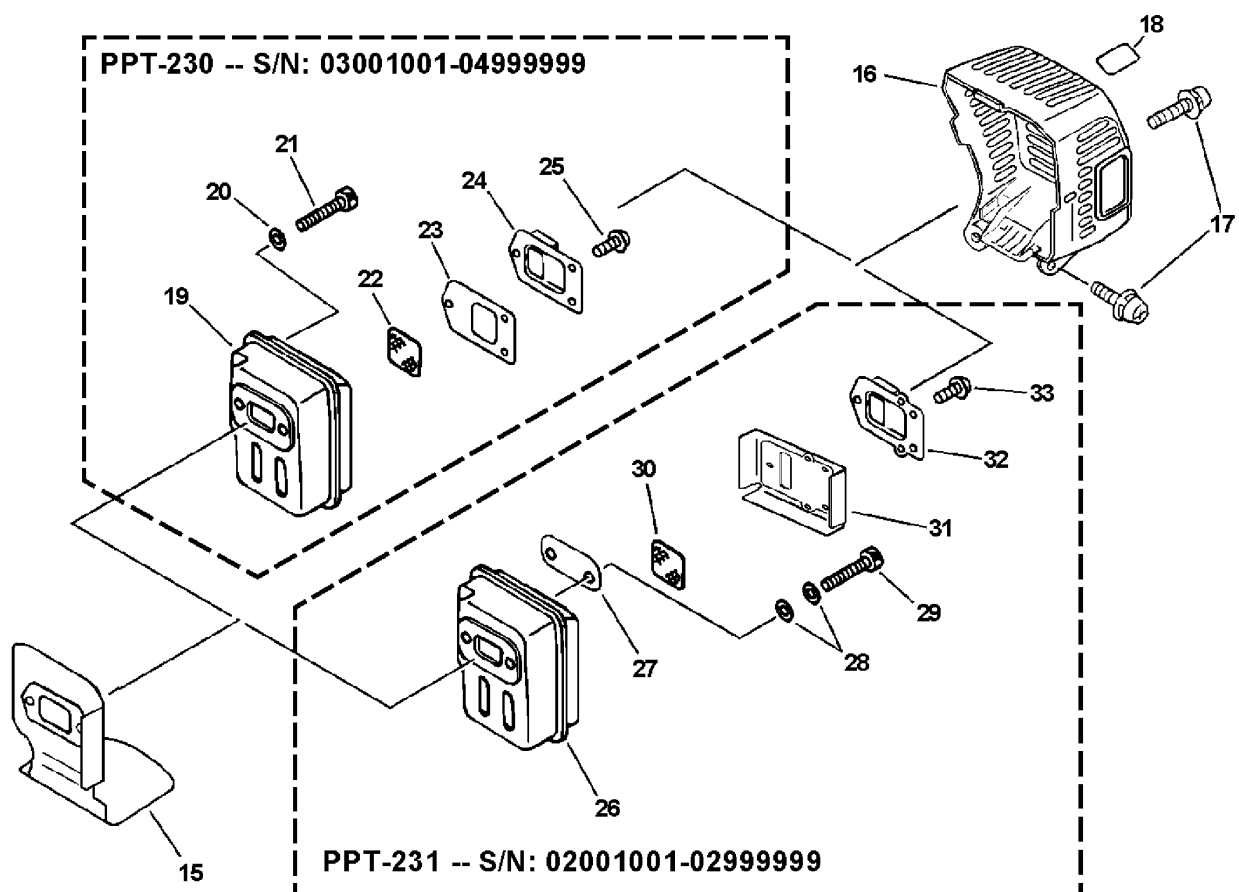
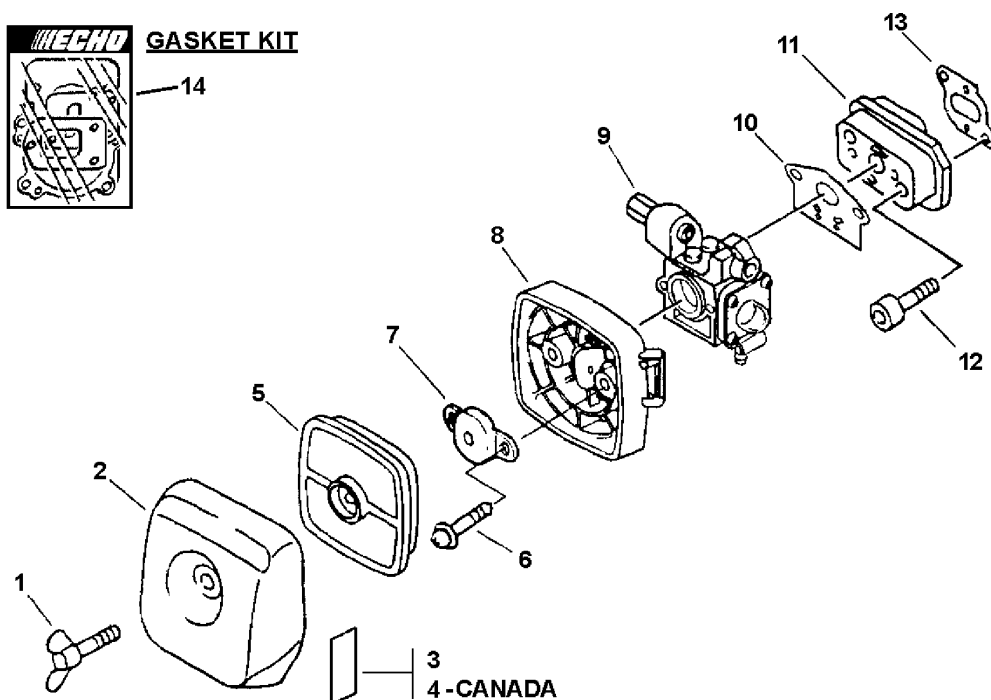
ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	90070200042	1	CIRCLIP 42	
2	61092255931	1	FIXTURE, MAIN PIPE	
3	90016205028	1	BOLT 5X28	
4	90070100012	1	CIRCLIP 12	
5	A172000120	1	COVER, FAN	INCLUDES ITEM 6
6	10021503930	2	DOWEL PIN	
7	90080796001	2	BEARING, BALL 6001	
8	90070200028	1	CIRCLIP 28	
9	X503000980	1	LABEL, MODEL -- PPT-230	
10	X503001680	1	LABEL, MODEL -- PPT-231	
11	A553000010	2	SHOE, CLUTCH	
12	17504656030	2	SHAFT, CLUTCH	
13	17504956030	2	WAVE, WASHER	
14	V451000090	1	SPRING, CLUTCH	
15	17504805530	2	WASHER	
16	90016205018	2	BOLT 5X18	
17	17811106230	1	CLIP	
18	30511057733	1	STAND	
19	90016205022	2	BOLT 5X22	
20	A350000111	1	TANK, FUEL	INCLUDES ITEM 21
21	13104528230	2	SPACER	
22	90060300005	2	WASHER 5	
23	90016205016	2	BOLT 5X16	
24	13201256030	1	PIPE, RETURN - 3X6X80mm ¹	
25	13201052030	1	PIPE, FUEL - 3X6X170mm ²	
26	13201326630	2	CLIP	
27	13120519830	1	FILTER, FUEL	
28	A356000030	1	VALVE, CHECK	
29	V471000110	1	PIPE, VENT - 3X6X115mm ²	
30	13211555930	1	GROMMET, FUEL	
31	13100455530	1	FUEL TANK CAP ASY	INCLUDES ITEM 32-33
32	13101655830	1	GASKET, FUEL CAP	
33	13105156030	1	CONNECTOR, FUEL CAP	
34	90024405020	1	SCREW	
35	17720240630	1	STARTER PAWL ASY	INCLUDES ITEMS 36-38
36	90070000004	1	E-RING 4	
37	17723440630	1	SPRING, RETURN	
38	17721840630	1	PAWL, STARTER	
39	90050200008	1	NUT 8	
40	17720055931	1	STARTER ASY	INCLUDES ITEMS 41-46
41	17723644330	1	SCREW	
42	17721540630	1	DRUM, STARTER	
43	17722603930	1	ROPE, STARTER-3.5X850mm ³	
44	17722742030	1	GUIDE, ROPE	
45	17722827030	1	GRIP, STARTER	
46	17722040630	1	SPRING, REWIND	
47	90056500005	1	NUT	
48	9112604012	4	BOLT 4X12	
49	X502000190	1	LABEL, ECHO	
50	A556000030	1	DRUM, CLUTCH	
51	A556000280	1	DRUM, CLUTCH	

Footnotes

1: BULK OPTION: 90017

2: BULK OPTION: 90015

3: BULK OPTION: 99944445000



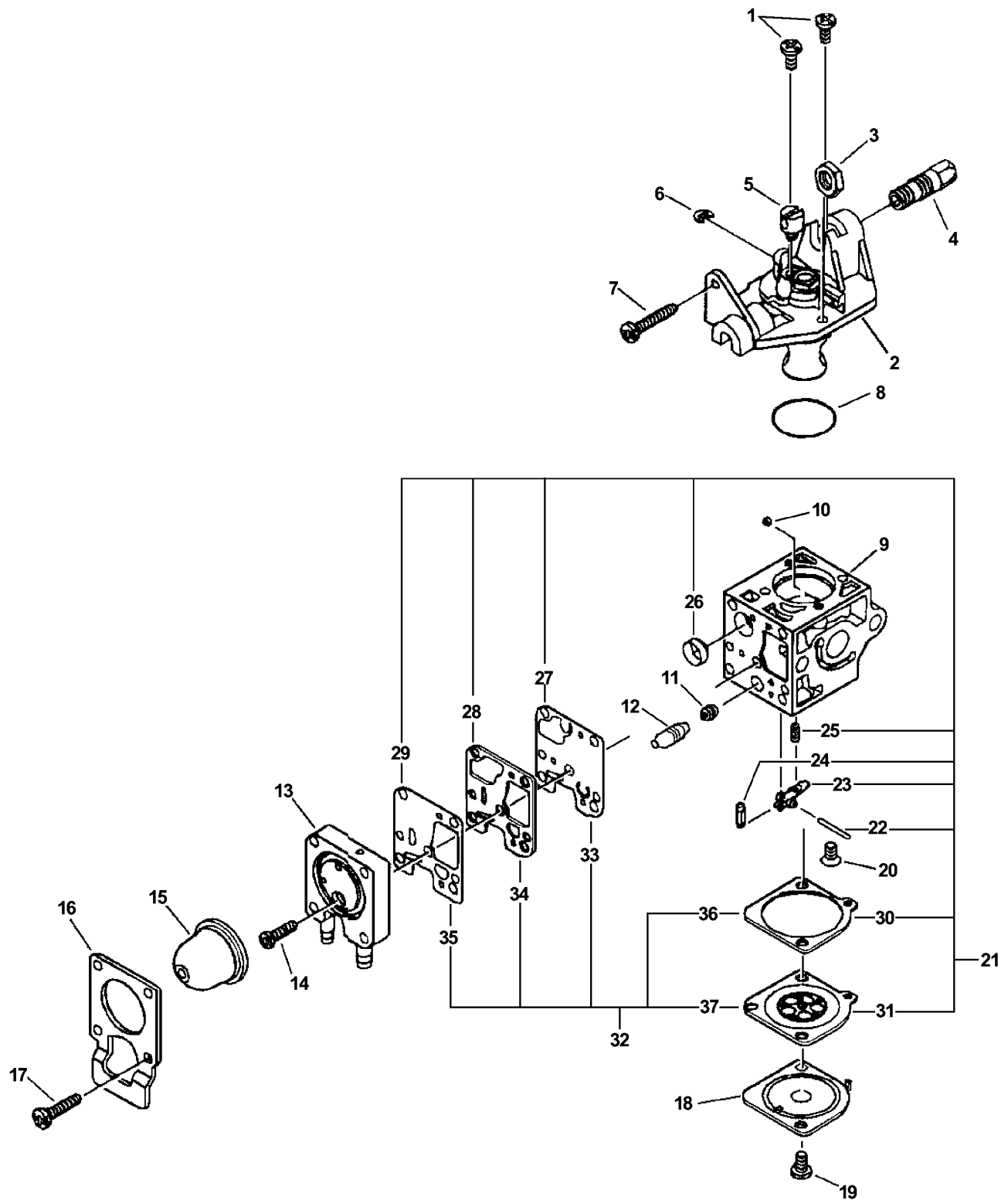
PPT-230 POWER PRUNER

Intake, Exhaust

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	21041752730	1	BOLT, WING	
2	13031305863	1	LID, AIR CLEANER	
3	89012152730	1	LABEL, CHOKE	
4	89033252730	1	LABEL, CHOKE	CANADA MODELS
5	13031054130	1	FILTER, AIR	
6	90024205060	2	SCREW 5X60	
7	12901152730	1	PLATE, PREVENT	
8	P021004480	1	CASE, AIR CLEANER	
9	A021000061	1	CARBURETOR -- RB-K57B	
10	13001013410	1	GASKET, INTAKE ¹	
11	13001756431	1	INSULATOR	
12	90016205025	2	BOLT 5X25	
13	13001055930	1	GASKET, INTAKE ¹	
14	P021002351	1	GASKET KIT	
15	V104000061	1	SHIELD, EXHAUST ¹	
16	A320000001	1	COVER, MUFFLER	
17	90010605012	2	BOLT 5X12	
18	89016006361	1	LABEL, HOT	
19	14580642030	1	MUFFLER	
20	90060000005	2	WASHER 5	
21	90010505055	2	BOLT 5X55	
22	14586240630	1	SCREEN, MUFFLER	
23	V104000002	1	GASKET, EXHAUST ¹	
24	A313000160	1	GUIDE, EXHAUST	
25	9136704010	3	SCREW	
26	A300000141	1	MUFFLER	
27	V150000371	1	PLATE, EYE	
28	V347000000	4	WASHER, CONICAL	
29	90010505055	2	BOLT 5X55	
30	14586240630	1	SCREEN, MUFFLER	
31	V104000360	1	GASKET, EXHAUST	
32	A313000130	1	GUIDE, EXHAUST	
33	136704010	5	SCREW	

Footnotes

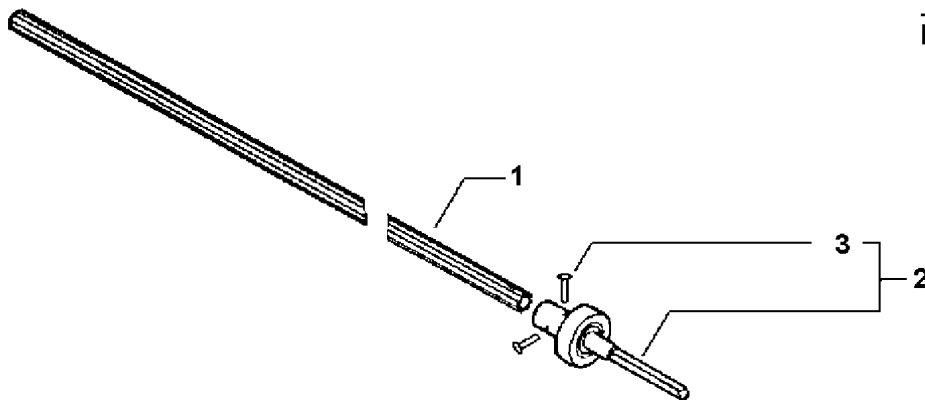
1: Also Included In GASKET KIT



ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
	A021000062	1	CARBURETOR -- RB-K57B	
1	12534413931	2	SCREW, ROTOR COVER ASY	
2	P005000360	1	ROTOR COVER ASY	
3	P005000120	1	NUT, CABLE	
4	P005000110	1	SCREW, ADJUST	
5	P005000180	1	SWIVEL	
6	P005000190	1	E-RING	
7	P005000100	1	SCREW, THROTTLE ADJUST	
8	P005000280	1	O-RING	
9	-----	1	BODY, CARBURETOR ¹	
10	P005000290	1	ROLLER, GUIDE	
11	P005000380	1	JET	
12	P005000370	1	PLUG KIT	
13	P005000240	1	PRIMER BASE ASY	
14	P005000270	1	SCREW, PRIMER BASE ASY	
15	12538108660	1	PUMP, PRIMING	
16	P005000250	1	RETAINER, PRIMING PUMP	
17	P005000260	4	SCREW, PRIMING PUMP RETAINER	
18	12534252130	1	COVER, DIAPHRAGM	
19	12534452130	2	SCREW, DIAPHRAGM COVER	
20	P005000020	1	SCREW, METERING LEVER PIN	
21	P005000350	1	REPAIR KIT	INCLUDES ITEMS 22-31
22	-----	1	PIN, METERING LEVER	
23	-----	1	LEVER, METERING	
24	-----	1	VALVE, INLET NEEDLE	
25	-----	1	SPRING, METERING LEVER	
26	-----	1	STRAINER	
27	-----	1	DIAPHRAGM, PUMP	
28	-----	1	GASKET, PUMP	
29	-----	1	SURGE, DIAPHRAGM	
30	-----	1	GASKET, METERING	
31	-----	1	DIAPHRAGM, METERING	
32	P005000340	1	DIAPHRAGM/GASKET KIT	INCLUDES ITEMS 33-37
33	-----	1	DIAPHRAGM, PUMP	
34	-----	1	GASKET, PUMP	
35	-----	1	SURGE, DIAPHRAGM	
36	-----	1	GASKET, METERING	
37	-----	1	DIAPHRAGM, METERING	

Footnotes

1: NOT AVAILABLE SEPARATELY



PPT-230 S/N: 03001001-05005928

07001001-07001093

PPT-231 S/N: 02001001-02999999

06001001-06001436

PPT0007 00000

PPT-230 POWER PRUNER**Driveshaft, Connector**

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	C504000260	1	DRIVESHAFT	
2	P021006340	1	SHAFT CONNECTOR KIT	INCLUDES ITEM 3; SEE SB 04-22
3	V620000000	2	PIN	

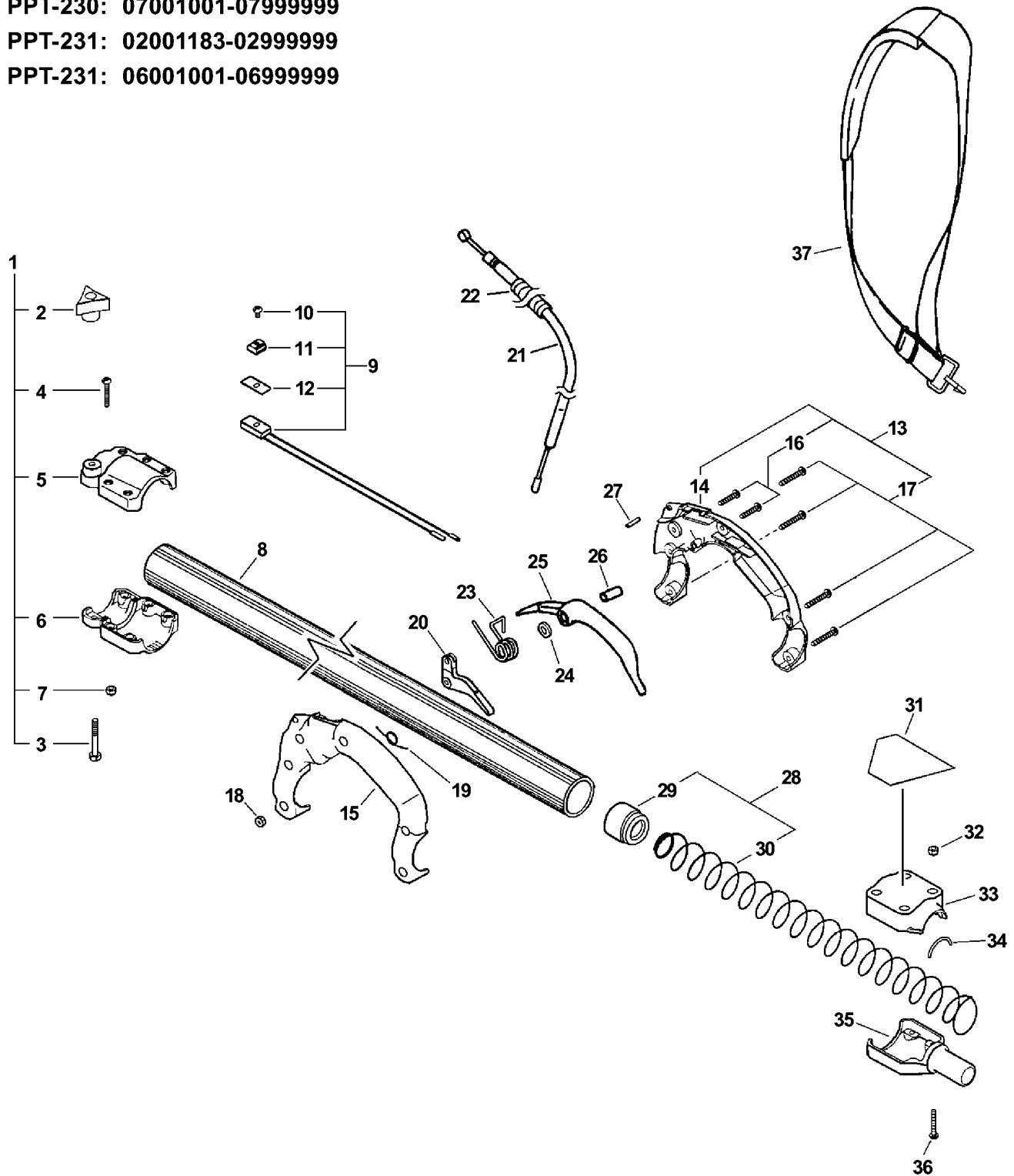
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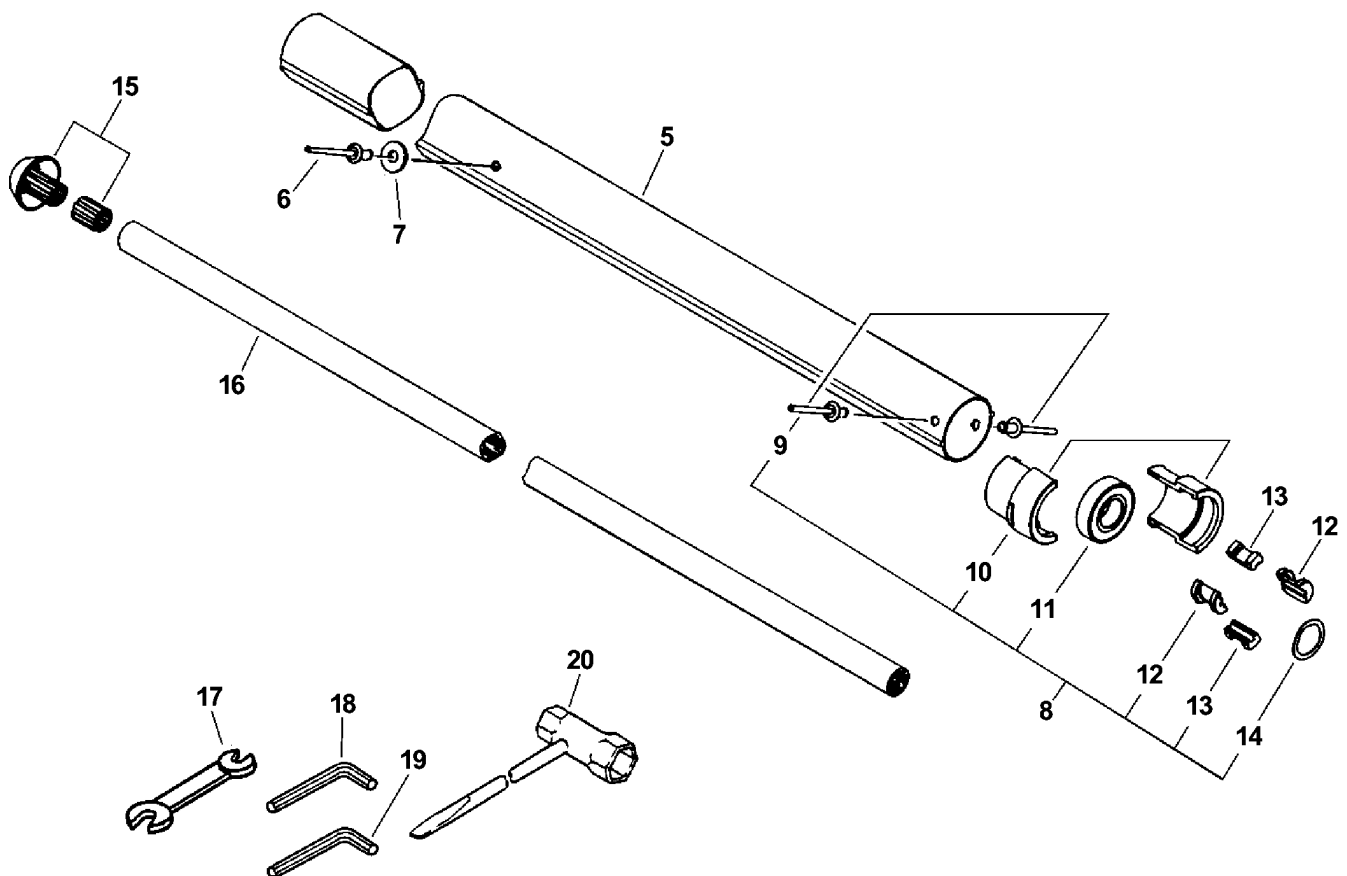
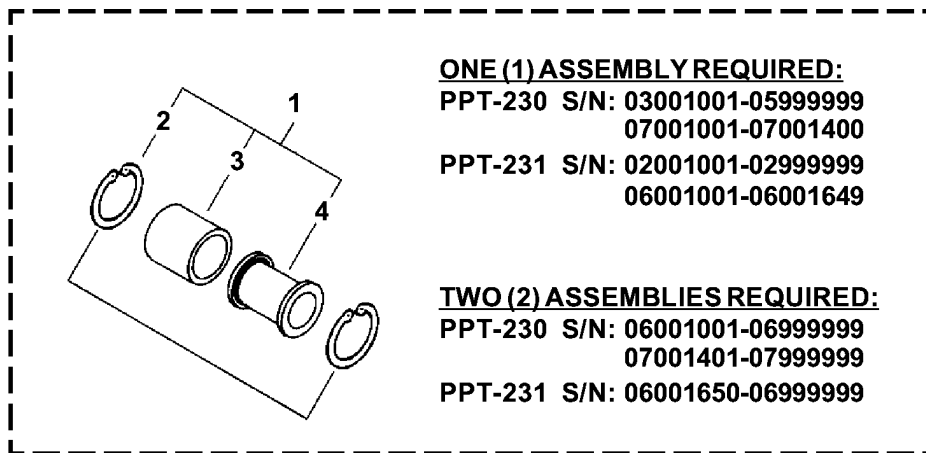
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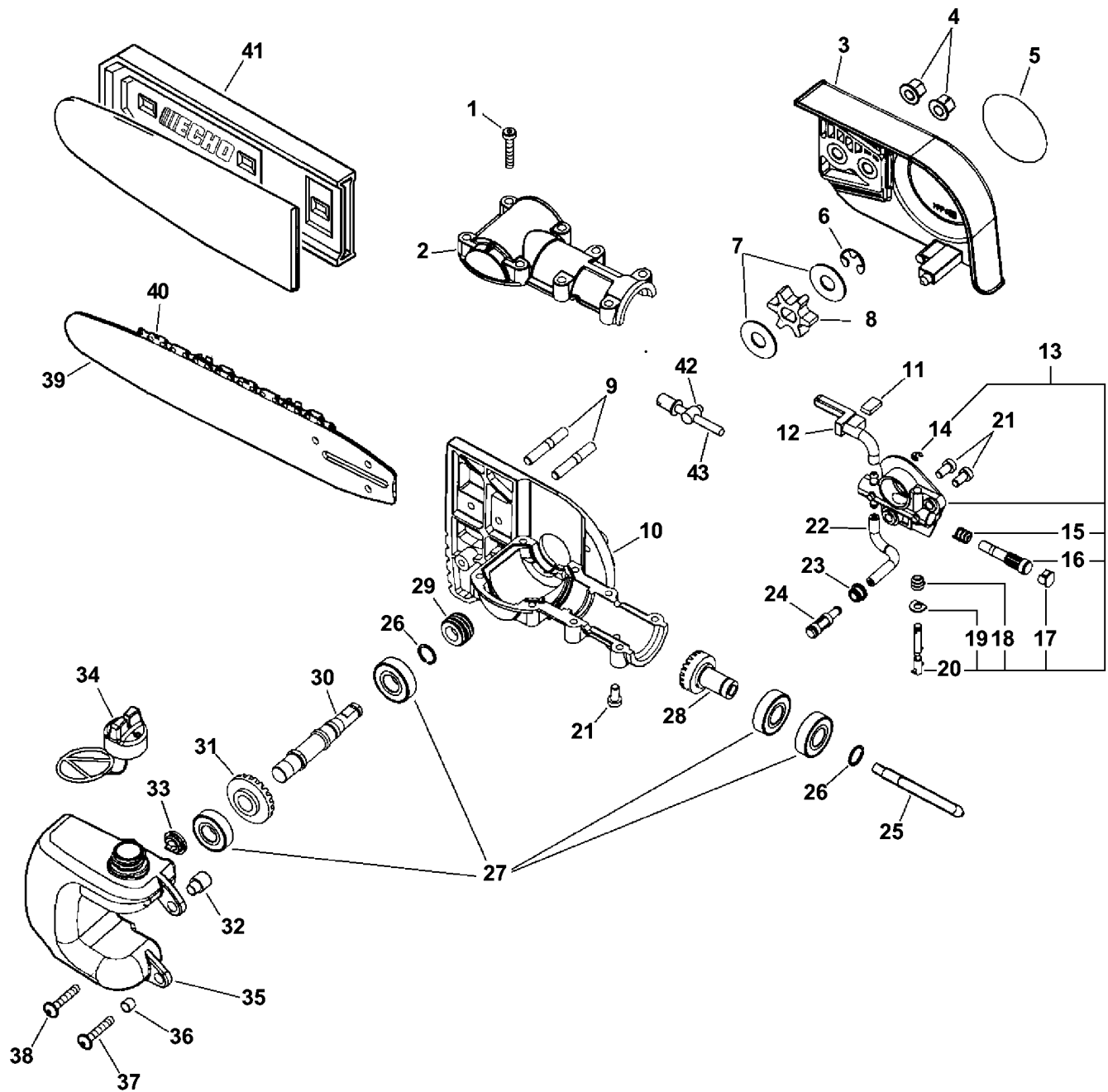


ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	61029522360	1	COMPRESSION CLAMP ASY	INCLUDES ITEMS 2-7
2	13040622360	1	KNOB, FASTNER	INCLUDES ITEM 3
3	V204000090	1	SCREW	
4	90005300400	5	SCREW	
5	61028222460	1	COLLAR, MAIN PIPE - UPPER	
6	61028222360	1	COLLAR, MAIN PIPE - LOWER	
7	90003150100	5	LOCKNUT	
8	61022224660	1	PIPE, MAIN	
9	A440000280	1	SWITCH, IGNITION	INCLUDES ITEMS 10-12
10	9154503010	1	SCREW 3X10	
11	16341049231	1	KNOB, SWITCH	
12	89015712330	1	COVER, SWITCH	
13	35110022362	1	REAR HANDLE ASY	INCLUDES ITEMS 14-18
14	C410000090	1	HANDLE, REAR - LEFT	
15	35111022562	1	HANDLE, REAR - RIGHT	
16	90005300400	2	SCREW	
17	90005300500	4	SCREW	
18	90003150100	6	LOCKNUT	
19	17804322360	1	SPRING, THROTTLE TRIGGER	
20	17801022560	1	TRIGGER, THROTTLE	
21	V430000720	1	CABLE, THROTTLE	
22	V475001290	1	TUBE	
23	17804322562	1	SPRING, THROTTLE TRIGGER LOCKOUT	
24	90060300005	1	WASHER	
25	17809022560	1	LOCKOUT, THROTTLE CONTROL	
26	61085022560	1	COLLAR 5	
27	88996022660	1	STRAIGHT PIN 3	
28	43330722460	1	FLOATING BUSHING ASY	INCLUDES ITEMS 29-30
29	43334522660	1	BUSHING, FLOATING	
30	10494022560	1	SPRING, FLOATING BUSHING	
31	89016022660	1	LABEL, CAUTION	
32	90003150100	4	LOCKNUT	
33	C525000000	1	CAP, LOWER SHAFT TUBE ADAPTER	
34	10491022460	1	O-RING(HALF)	
35	C510000060	1	ADAPTER, LOWER SHAFT TUBE	
36	90005300500	4	SCREW	
37	30100022060	1	SHOULDER HARNESS ASY	



PPT-230 POWER PRUNER
Upper Pipe, Upper Drive Shaft

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	43330822360	1	UPPER DRIVESHAFT GUIDE ASY	INCLUDES ITEMS 2-4 (SEE DIAGRAM)
2	61033522460	2	RING, RETAINING	
3	10429322360	1	PAD, FOAM	
4	43334522361	1	GUIDE, SHAFT	
5	61021022361	1	SHAFT, UPPER	
6	89001122460	1	RIVET, ALUMINUM	
7	40011122360	1	WASHER, FLAT 5	
8	61010522360	1	BEARING HOLDER ASY	INCLUDES ITEMS 9-14
9	89001122360	2	RIVET, STEEL	
10	61011122360	2	HOLDER, BEARING	
11	90080206002	1	BEARING, BALL	
12	43334522560	2	HOLDER, INNER BEARING - LARGE	
13	43334522460	2	HOLDER, INNER BEARING - SMALL	
14	17812922360	1	WASHER, WAVE	
15	61029822360	1	ADAPTER, DRIVESHAFT - UPPER	
16	61001122360	1	DRIVESHAFT - UPPER	
17	89511200330	1	SPANNER, 8X10	
18	89561203430	1	L-WRENCH - 3mm	
19	89561000130	1	L-WRENCH - 4mm	
20	89541039130	1	WRENCH W/SCREWDRIVER	



PPT-230 POWER PRUNER

Gear Case, Bar, Chain

ITEM	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	V253000000	8	SCREW 5	
2	C531000030	1	CASE, GEAR - UPPER	
3	C300000001	1	GUARD, SPROCKET	
4	43301903933	2	FLANGE NUT 6	
5	89011849130	1	LABEL, ECHO	
6	V583000010	1	RING, RETAINING	
7	17501439130	2	WASHER, CLUTCH	
8	C580000070	1	SPROCKET, DRIVE	
9	V224000000	2	STUD BOLT 6	
10	C531000040	1	CASE, GEAR - LOWER	
11	43724439130	1	PAD, FORM	
12	V470000180	1	PIPE, OIL APPLICATOR	
13	43700239130	1	AUTO-OILER ASY	INCLUDES ITEMS 14-20
14	12312715030	1	RING	
15	43701938330	1	SPRING	
16	43702437330	1	PLUNGER	
17	43706237330	1	CAP, OIL PUMP	
18	43701537330	1	SPRING	
19	43702937330	1	WASHER	
20	43701639130	1	NEEDLE, ADJUST	
21	V253000010	3	SCREW 5X10	
22	13011014330	1	PIPE, IMPULSE	
23	13211501461	1	GROMMET, FUEL	
24	43620502832	1	FILTER, OIL	
25	61002522360	1	CONNECTOR, SHAFT	
26	90070600012	2	CIRCLIP 12	
27	9404206001	4	BEARING BALL	
28	V651000041	1	GEAR, BEVEL	
29	43706338330	1	GEAR, WORM	
30	C534000020	1	SHAFT, GEAR	
31	61031122061	1	GEAR, BEVEL	
32	V354000010	1	COLLAR 6	
33	13131406320	1	VALVE, CHECK	
34	P021000950	1	OIL CAP ASY	
35	C200000000	1	TANK, OIL	
36	13104528230	2	COLLAR 6	
37	V253000030	2	SCREW 5X16	
38	V253000020	1	SCREW 5X16	
39	1102373901	1	GUIDE BAR - 10" INTENZ -- REGULAR	
40	1917039	1	CHAIN - 10" (91-VS) -- REGULAR	
41	X490000060	1	COVER, GUIDE BAR	
42	43301403931	1	TENSIONER ¹	
43	43301639131	1	BOLT, TENSIONER ¹	

Footnotes

1: FOR USE WITH STANDARD GUIDE BAR (INTENZ GUIDE BAR NOT USED)



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10001504630	5	43330722460	15	9404206001	19	V471000110	7
10021228230	5	43330822360	17	99944500071	5	V475001290	15
10021305530	5	43334522361	17	A011000042	5	V553000010	5
10021503930	7	43334522460	17	A021000061	9	V583000010	19
10024255930	5	43334522560	17	A021000062	11	V620000000	13
10429322360	17	43334522660	15	A101000000	5	V651000041	19
10491022460	15	43620502832	19	A130000074	5	X490000060	19
10494022560	15	43700239130	19	A160000060	5	X502000190	7
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