

Models	Serial number prefix
600435	11-, 12-
600435A	13-, 14-
600435B	13-, 14-
600435C	13-, 14-
600435D	13-, 14-
600435J	13-, 14-
600435S	13-, 14-

SP 80 CHAIN SAW

ILLUSTRATED PARTS LIST

SP 80 chain saws are identified by a model number (600435) followed by a suffix letter (A, B, C, etc.) stamped on the identification plate attached to the saw. Suffix letters denote variations in parts or assemblies in manufacture of the saw.

Part numbers listed in this I. P. L. and followed by a suffix letter, indicate the part is used on the model identified by that letter.

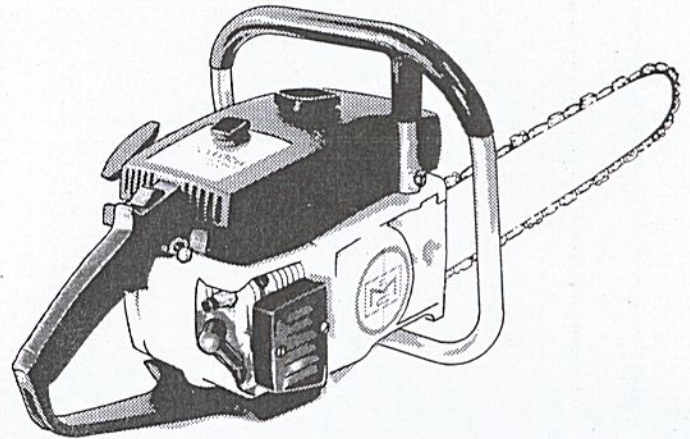
Example: P/N 85968, Guard - Hand (S)
(The guard in this example is used only on the Model 600435S)

Example: P/N 84603, Cover - Spark arrester (B, D, A,)
(The cover in this example is used on Models 600435B, 600435D and 600435A only)

Part numbers listed without suffix letter or letters apply to all models of the SP 80 saw.

The policy of McCulloch Corporation is one of continual improvement in design, manufacturing and engineering advancements wherever possible to assure still finer two-cycle power tools. Hence, specifications, equipment, colors, design and manufacturer's suggested list prices are subject to change without notice and McCulloch Corporation reserves the right to make such changes without prior notification or obligation to backfit or supply backfit components for units previously shipped from the factory.

I. P. L. 88118 supersedes and cancels I. P. L. 87257



AUGUST 1972

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88118

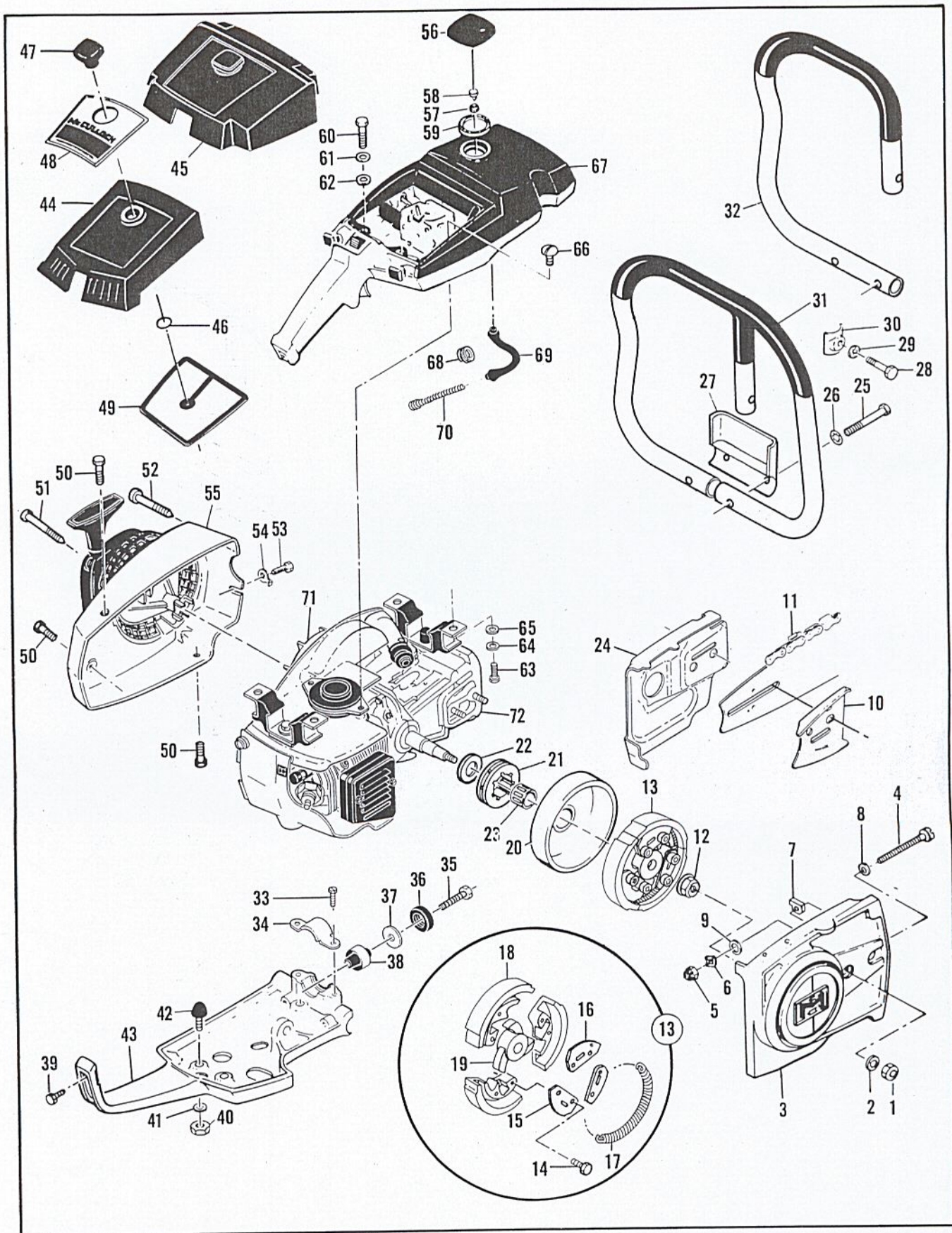


Figure 1. General

Figure 1. General

Item No.	Part Number	Description	Units Per Assy	Item No.	Part Number	Description	Units Per Assy
1	110454	Nut - Hex 5/16-24	2	38	85898	Mount - Lower	1
2	100440	Washer - 5/16	2	39	101977	Screw - Fil hd 1/4-20 x 3/4	1
3	84530	Clutch Guard Assy	1	40	105367	Nut - Hex 10-24	2
4	102144	. Screw - Bar adjusting	1	41	100240	Lockwasher - #10	2
5	102067	. Nut - Hex 10-24	1	42	83111	Bumper	2
6	110387	. Washer - Wavey	1	43	86075	Brace - Frame	1
7	100002	. Washer - #10	1	44	85850	Cover Assy - Air cleaner (A, B, C, D, J)	1
8	61705	. Nut - Bar adjusting	1	45	84700	Cover Assy - Air cleaner (S)	1
9	110264	. Washer - 3/16	1	46	110565	. Ring - Retaining	1
10	64325	Plate - Bar protector	1	47	68529	. Knob - Cover	1
11		Bar & Chain Assy	1	48	86014	Nameplate	1
12	* 110594	Nut - Hex 3/8-24 (R.H.)	1	49	85387	Filter - Air	1
	86113	Nut - Hex 3/8-24 (L.H.)	1	50	110741	Screw - Pan hd 10-24 x 1/2	3
13	86464	Clutch Assy	1	51	62978	Screw - Special	2
14	110850	. Screw - Hex hd 8-32 x 1/2	6	52	85242	Screw - Special	1
15	85363	. Plate - Retainer	2	53	102762	Screw - Hex hd 10-24 x 1/2	1
16	86409	. Plate Assy - Retainer	1	54	69890	Lockplate	1
17	86079	. Spring - Clutch	1	55		Fan Housing & Starter Assys (See Figure 2)	
18	86465	. Shoe - Clutch	3	56	86451	Cap Assy - Fuel	1
19	85397	. Rotor - Clutch	1	57	86453	. Plug	1
20	86394	Drum - Clutch		58	53766A	. Valve	1
21	-86344	Sprocket (7-T .375) (B,C,D,J,S)		59	69767	. Gasket	1
	-86144	Sprocket (7-T .404) (A)		60	102388	Screw - Hex hd 10-24 x 5/8	2
22	86395	Washer - Sprocket	1	61	101194	Lockwasher - #10	2
23	110330	Bearing - Sprocket	1	62	100002	Washer - #10	2
24	84978	Shield - Sawdust	1	63	102861	Screw - Hex hd 1/4-20 x 5/8	2
25	102433	Screw - Hex hd 10-24 x 1-5/8	2	64	100153	Lockwasher - 1/4	2
26	101194	Lockwasher - #10	2	65	100005	Washer - 1/4	2
27	84798	Clamp - Frame	1	66	110807	Screw - Pan hd 8-32 x 5/16	2
28	102130	Screw - Hex hd 1/4-20 x 1-1/2	1	67		Fuel Tank Assy (See Figure 3)	
29	100153	Lockwasher - 1/4	1	68	-87826	Clamp - Hose	1
30	63484	Clamp - Frame	1	69	69598	Line - Pulse	1
31	84571	Frame & Grip Assy (C,D,A)	1	70	67944	Spring - Pulse line	1
32	-87733	Frame & Grip Assy (B,J,S)	1	71		Flywheel & Ignition System (See Figure 6)	
33	104950	Screw - Hex hd 10-24 x 5/8 (SEMS)	2	72		Powerhead & Oiler Assys (See Figure 7)	
34	83819	Clamp - Lower mount	1				
35	110679	Screw - Hex hd 1/4-20 x 2	1				
36	84661	Grommet	1				
37	110845	Washer - 1/4	1				

* Right-hand thread nut for use with Crankshaft, P/N 83792,
on engines with serial numbers prefixed 11-.

Part numbers which have changed since the
previous printing of the illustrated parts list
covering these saws, are indicated by a dash
(-) preceding the new part number.

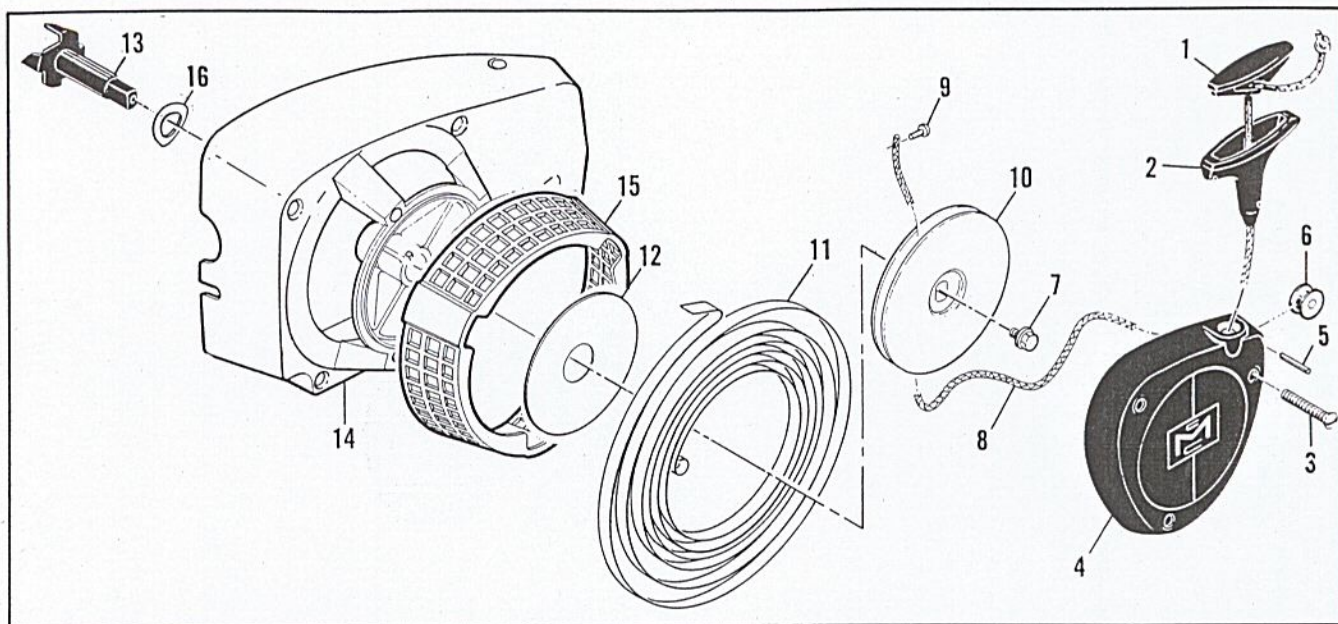


Figure 2. Fan Housing and Starter Assembly.

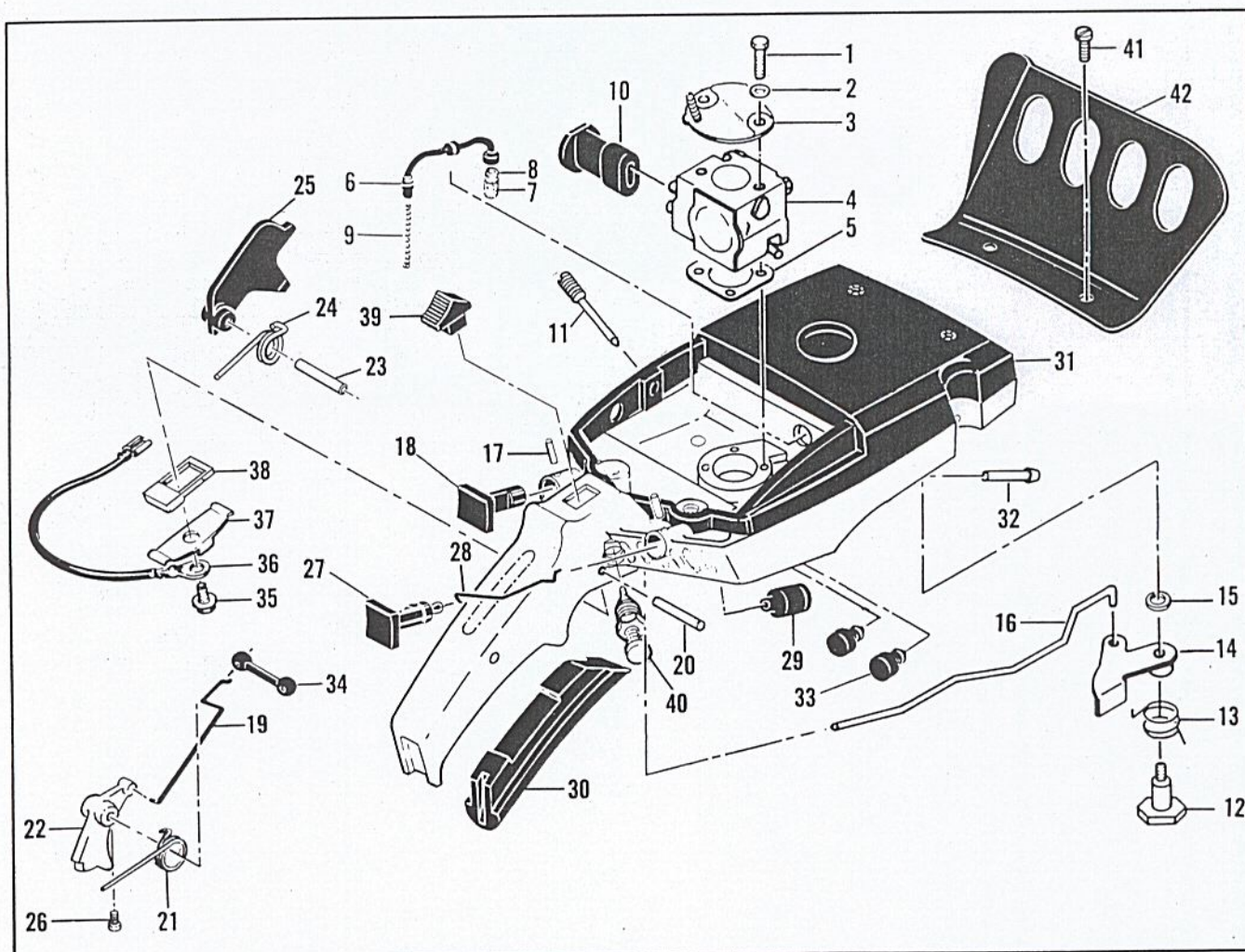


Figure 3. Fuel Tank Assembly

Figure 2. Fan Housing and Starter Assemblies

Item No.	Part Number	Description	Units Per Assy
1	62191A	Insert - Starter handle	1
2	62190A	Handle - Starter	1
3	110646	Screw - Oval hd 8-32 x 1-1/8	3
4	-87672	Cover Assy - Starter	1
5	① 110657	Pin - Roll	1
6	① 84051	Pulley - Rope	1
7	110341	Screw - Hex hd 10-24 x 1/2	1

Item No.	Part Number	Description	Units Per Assy
8	-68162	Rope - Starter	1
9	110470	Rivet - Rope	1
10	86405	Drum - Starter	1
11	-87680	Spring - Rewind	1
12	86053	Shield - Spring	1
13	83748	Shaft - Starter	1
14	-87693	Kit - Fan housing	1
15	-87674	. Guard - Sawdust	1
16	① 86052	Washer - Special	1

① Used on models with serial number prefixes 11-, 12- and 13-.

Figure 3. Fuel Tank Assembly

Item No.	Part Number	Description	Units Per Assy
1	110551	Screw - Hex hd 10-24 x 2-1/8	2
2	101194	Lockwasher - #10	2
3	83204	Bracket Assy	1
4		Carburetor Assy (See Figures 4 and 5)	
5	86189	Gasket - Carburetor	1
6	64848	Hose Assy - Fuel	1
7	63932	. Filter - Fuel	1
8	100440	. Washer	1
9	67944	Spring - Hose stiffener	1
10	69629	Boot - Carburetor needle (B, C, D, J, A)	1
	85901	Boot - Carburetor needle (S)	1
11	86273	Screw - Idle speed adjustment	1
12	69594	Pivot - Oiler lever	1
13	69781	Spring - Oiler lever	1
14	69825	Lever Assy - Oiler	1
15	105048	Washer - 3/16	1
16	69802	Rod - Oiler	1
17	105673	Pin - Roll 3/32 x 9/16	2
18	63044	Button - Oiler	1
19	69632	Rod - Throttle	1
20	110378	Pin - Roll 3/16 x 15/16	1

Item No.	Part Number	Description	Units Per Assy
21	87178	Spring - Throttle return	1
22	86450	Trigger	1
23	103818	Pin - Roll (S)	1
24	85937	Spring - Safety trigger (S)	1
25	-87753	Trigger - Safety (S)	1
26	110537	Screw - Fil hd 8-36 x 1/2	1
27	69630	Button - Choke	1
28	69631	Rod - Choke	1
29	69597	Boot - Control rod	2
30	-87883	Grip - Handle	1
31	85846	Tank Assy - Fuel (B, C, D, J, A)	1
	86369	Tank Assy - Fuel (S)	1
32	69600	. Nipple - Pulse line	1
33	84272	Bumper - Mount	2
34	69043	Snubber - Rod	1
35	103672	Screw - Fil hd 8-32 x 1/2 (SEMS)	1
36	83661	Wire Assy - Stop switch	1
37	62451	Contact - Switch	1
38	62950A	Base - Switch	1
39	68846	Button - Switch	1
40	85451	Latch Assy - Throttle	1
41	110741	Screw - Pan hd 10-24 x 1/2 (S)	2
42	87245	Guard - Hand (S)	1

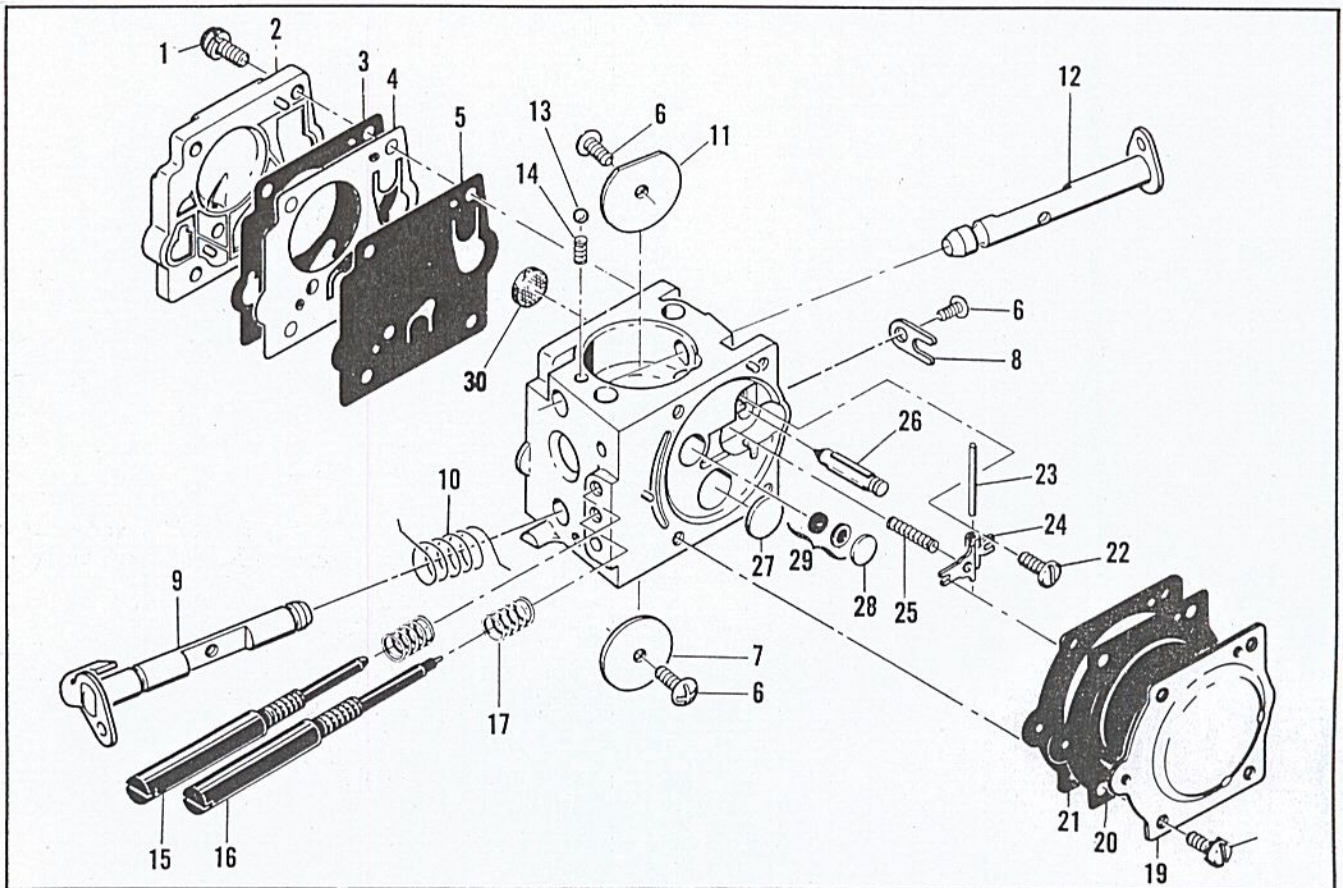


Figure 4. Carburetor Assembly

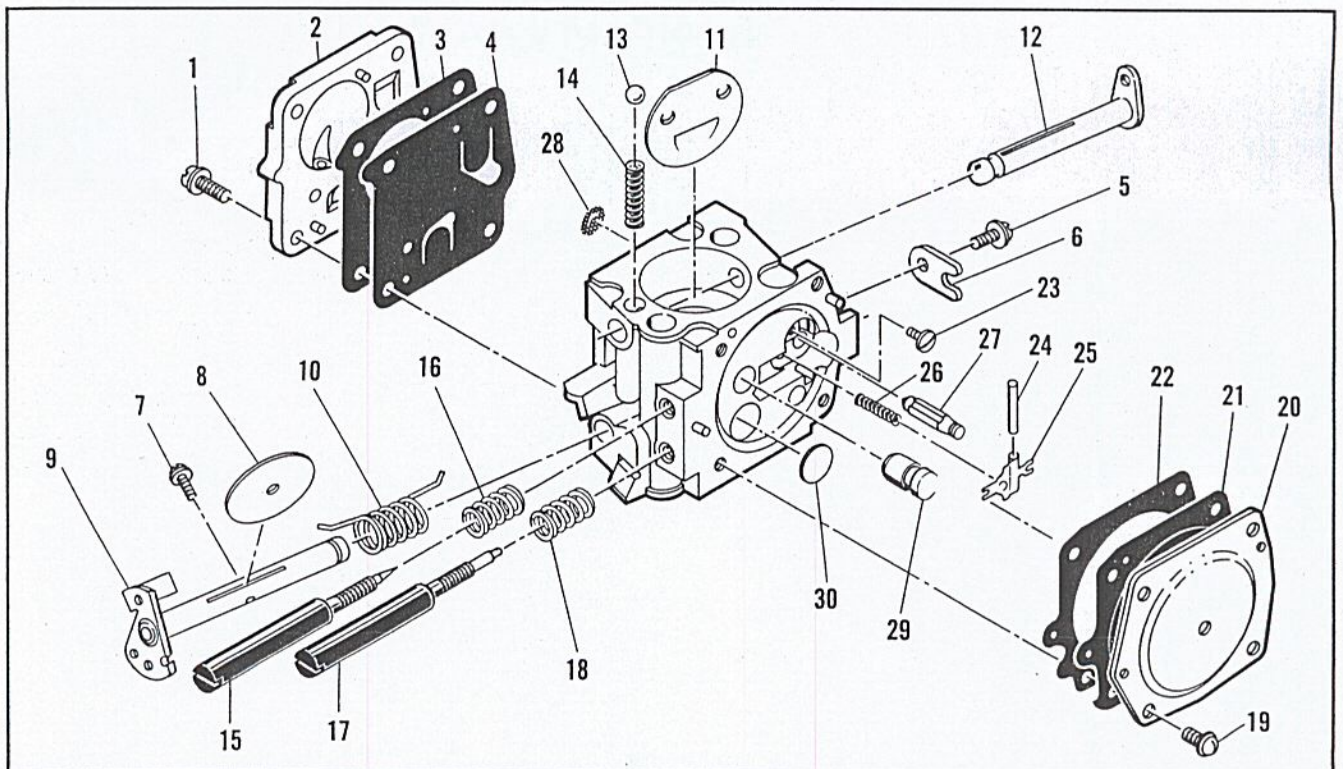


Figure 5. Carburetor Assembly

Figure 4. Carburetor Assembly.

Item No.	Part Number	Description	Units Per Assy
	-87821	Carburetor Assy (B,C,D,J,A)	1
1	67501	. Screw - Pump cover	4
2	83760	. Cover - Pump	1
3	*67495	. Gasket - Cover	1
4	*67498	. Diaphragm - Check valve	1
5	*83114	. Diaphragm - Fuel pump	1
6	*47690	. Screw - Plate	3
7	83762	. Plate - Throttle	1
8	67489	. Clip - Shaft	1
9	85980	. Shaft Assy - Throttle	1
10	85981	. Spring - Throttle return	1
11	67490	. Plate - Choke	1
12	67488	. Shaft Assy - Choke	1
13	*100302	. Ball - Choke friction	1
14	*67504	. Spring - Choke friction	1
15	*85979	. Needle - High speed	1
16	*85982	. Needle - Idle	1

Item No.	Part Number	Description	Units Per Assy
17	*67502	. Spring - Needle	2
18	*70798	. Screw - Diaphragm	4
19	83761	. Cover - Diaphragm	1
20	*67499	. Diaphragm - Metering	1
21	*67496	. Gasket - Diaphragm	1
22	*67500	. Screw - Lever pin	1
23	*67508	. Pin - Lever	1
24	*67509	. Lever - Inlet	1
25	*67503	. Spring - Lever	1
26	*67491	. Valve - Needle	1
27	*71690	. Plug - 3/8	1
28	*69506	. Plug - 5/16	1
29	83758	. Kit - Valve & Seat Assy	1
30	*67507	. Screen - Fuel	1
	*67482	Gasket Set	
	85987	Repair Kit	

*Indicates parts included in Repair Kit, P/N 85987

Figure 5. Carburetor Assembly

Item No.	Part Number	Description	Units Per Assy
	85916	Carburetor Assy (S)	1
1	52933	. Screw - Pump cover	4
2	66628	. Cover - Pump	1
3	66629	. Gasket - Cover	1
4	66630	. Diaphragm - Fuel pump	1
5	48780	. Screw - Clip retainer	1
6	66646	. Clip - Throttle shaft	1
7	48780	. Screw - Plate	1
8	51720	. Plate - Throttle	1
9	83546	. Shaft Assy - Throttle	1
10	67136	. Spring - Throttle return	1
11	65856	. Plate - Choke	1
12	83725	. Shaft Assy - Choke	1
13	100071	. Ball - Choke friction	1
14	52930	. Spring - Choke friction	1
15	86169	. Needle - High speed	1

Item No.	Part Number	Description	Units Per Assy
16	52936	. Spring - High speed needle	1
17	86170	. Needle - Idle	1
18	67133	. Spring - Idle needle	1
19	51721	. Screw - Diaphragm cover	4
20	83724	. Cover - Diaphragm	1
21	66632	. Diaphragm - Metering	1
22	66633	. Gasket - Diaphragm	1
23	83479	. Screw - Lever pin	1
24	66636	. Pin - Lever	1
25	66638	. Lever - Metering	1
26	66404	. Spring - Lever	1
27	66637	. Valve - Needle	1
28	66623	. Screen - Fuel inlet	1
29	83729	. Check Valve - Nozzle	1
30	66622	. Plug - Welch	1

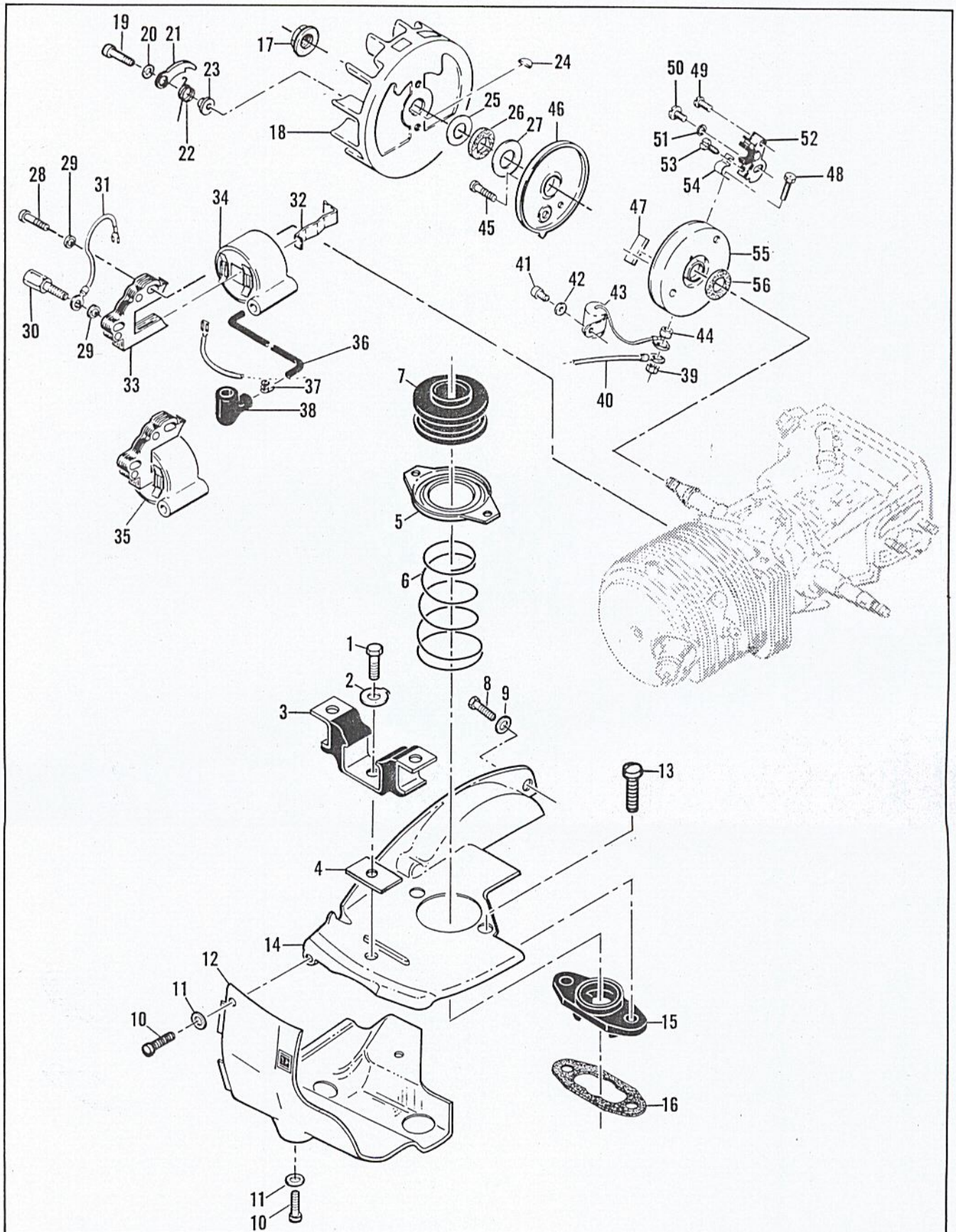


Figure 6. Flywheel and Ignition System

Figure 6. Flywheel and Ignition System

Item No.	Part Number	Description	Units Per Assy	Item No.	Part Number	Description	Units Per Assy
1	83811	Screw - Special	1	30	83512	Stud - Special	1
2	69924	Lockplate	1	31	85798	Wire Assy - Ground	1
3	85794	Mount - Rear	1	32	* 51253	Retainer - Coil	1
4	84619	Insulator	1	33	* 85138	Lamination Assy	1
5	86175	Clamp Assy - Boot	1	34	* 84972	Kit - Coil & Terminal	1
6	86190	Spring - Ground	1	35	87246	Coil & Lamination Assy (B, C, D, J, S, A)	1
7	-87843	Boot - Third port	1	36	50120	Wire Assy - Spark plug	1
8	110776	Screw - Fil hd 8-32 x 3/8	1	37	55061	Connector	1
9	100057	Lockwasher - #8	1	38	-85758	Boot	1
10	102500	Screw - Pan hd 10-24 x 1/2	3	39	100298	Nut - Hex 6-32	1
11	100002	Washer - #10	3	40	85796	Wire Assy - Primary	1
12	86314	Shroud - Lower	1	41	103672	Screw - Fil hd 8-32 x 1/2 (SEMS)	1
13	104396	Screw - Pan hd 10-24 x 3/4	2	42	100080	Washer - #8	1
14	85281	Shroud - Upper	1	43	85358	Condenser	1
15	-87844	Insulator - Inlet	1	44	62365	Spacer - Breaker box	1
16	85136	Gasket - Insulator	1	45	110584	Screw - Pan hd 8-32 x 3/4	1
17	110703	Nut - Hex 3/8-24	1	46	62362	Cover - Breaker box	1
18	86068	Flywheel Assy	1	47	54184	Wiper - Cam	1
19	110713	Screw - Skt hd 10-24 x 7/8	2	48	110346	Screw - Hex hd 6-32 x 3/4	1
20	83241	Washer - Special	2	49	110811	Screw - Pan hd 8-32 x 3/8	1
21	67546	Pawl - Starter	2	50	110445	Screw - Truss hd 8-32 x 3/8	1
22	67545	Spring - Pawl	2	51	105976	Washer - #8	1
23	67547	Pivot - Pawl	2	52	66231	Breaker Assy	1
24	103879	Key - Woodruff	1	53	110706	Screw - Pan hd 6-32 x 7/16 s/t	1
25	67057	Washer - Thrust	1	54	83126	Strap - Conduction	1
26	67056	Seal - Breaker box cover	1	55	84329	Box - Breaker	1
27	67054	Washer - Thrust	1	56	67051	Seal - Breaker box	1
28	103947	Screw - Hex hd 10-24 x 1 (SEMS)	1				
29	100002	Washer - #10	2				

*Used on engines with serial numbers prefixed 11- and 12-.

Accessories.

Part Number	Description
84597	Baffle - Spark arrester
-86218	Kit - Preheater
86330	Kit - Spike
-86419	Guide - Timing
63746	Scrench
63097	Spark Plug - AC CS 45T
65778	Spark Plug - AC CS 41T
62827	Wrench - Screwdriver (C, D, J, S)
-83235	Wrench - Screwdriver (B)
-85968	Guard - Hand
-87839	Adapter - Bar mounting
85726	Manual - Owner's (A, C, D)
200779	Manual - Owner's (B, S)

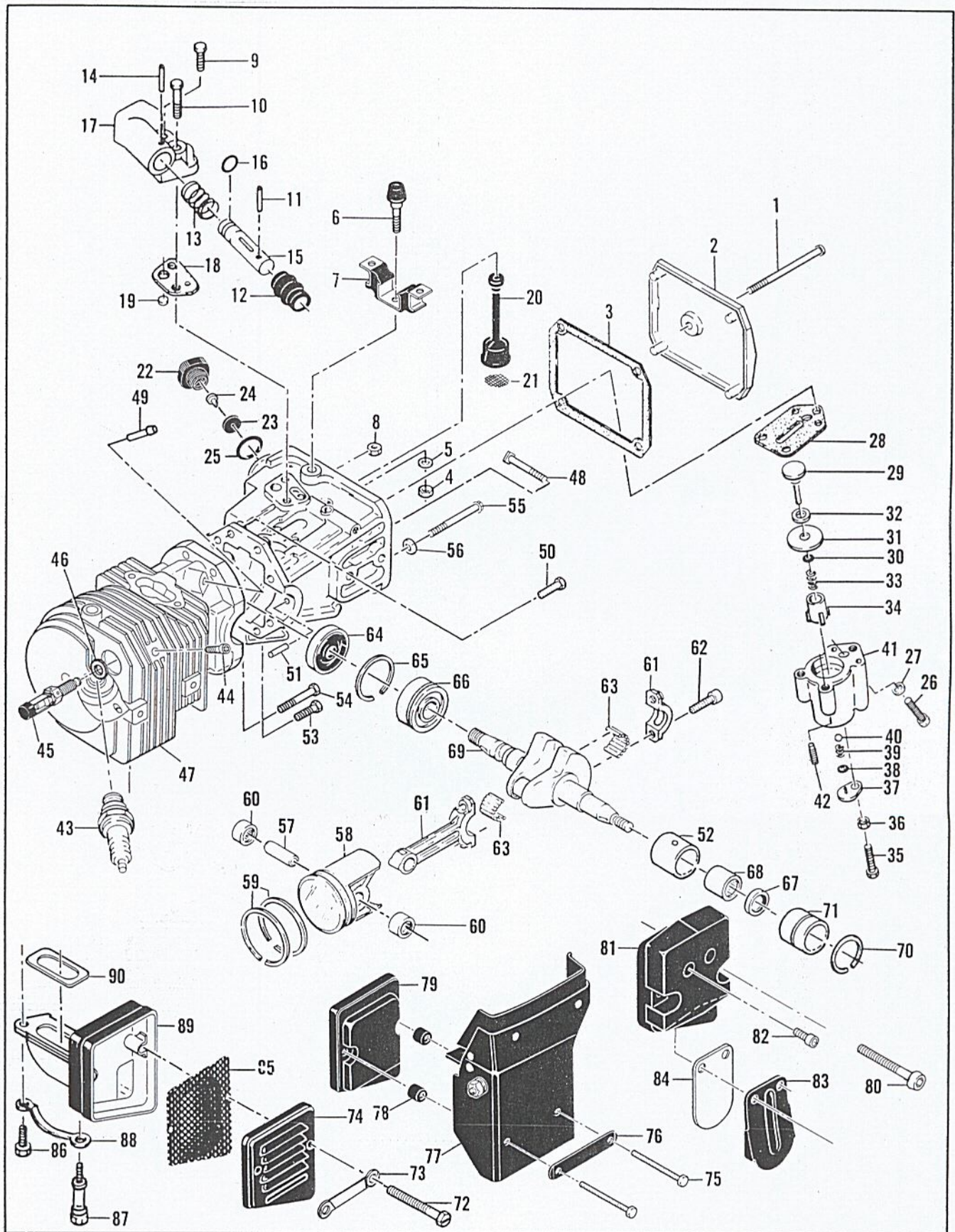


Figure 7. Powerhead and Oiler Assemblies

Figure 7. Powerhead and Oiler Assemblies

Item No.	Part Number	Description	Units Per Assy	Item No.	Part Number	Description	Units Per Assy
1	110291	Screw - Pan hd 10-24 x 2-5/8	1	47	87296	Crankcase Assy	1
2	86304	Cover - Oil tank	1	48	62065	. Bolt - Bar mounting	2
3	86306	Gasket - Cover	1	49	69600	. Nipple - Pulse line	1
4	101143	Nut - Hex 1/4-20	1	50	110288	. Screw - Hex hd 8-32 x 3/4	2
5	102523	Washer - 1/4	1	51	110851	. Pin - Dowel	1
6	69832	Bumper - Front	1	52	87152	. Insert - Bearing	1
7	-87813	Mount - Front	1	53	110288	Screw - Hex hd 8-32 x 3/4	1
8	100955	Nut - Hex 8-32	1	54	110644	Screw - Hex hd 8-32 x 1-1/2	1
9	110623	Screw - Fil hd 8-32 x 1/2	1	55	62105	Screw Assy - Sealing	4
10	105245	Screw - Fil hd 8-32 x 1 (SEMS)	1	56	62842	. Washer - Sealing	4
11	105673	Pin - Roll 3/32 x 9/16	1	57	69020	Pin - Piston	1
12	69586	Boot - Plunger	1	58	85244	Piston Assy	1
13	69585	Spring - Plunger	1	58	-87791	Piston Assy	1
14	101556	Pin - Roll 1/8 x 5/8	1	59	85245	. Ring Set - Piston	1
15	69584	Plunger - Pump	1	59	-87854	. Ring Set - Piston	1
16	101056	"O" Ring	1	60	110590	. Bearing - Needle	2
17	69582	Body - Oil pump	1	61	85237	Connecting Rod Assy	1
18	62230	Gasket - Oil pump	1	62	61627A	. Screw - Special	2
19	62909	Valve - Oiler	1	63	85246	. Roller - (Set of 22)	1
20	62123B	Hose Assy - Oil	1	64	61618	Seal - Oil	1
21	50506	. Screen - Hose	1	65	63464	Ring - Snap	1
22	87270	Cap - Oil tank	1	66	63429B	Bearing - Ball	1
23	87269	. Retainer - Valve	1	67	110260	Seal - Oil	1
24	86402	. Valve	1	68	104357	Bearing - Needle	1
25	101148	"O" Ring	1	69	86193	Crankshaft	1
26	110713	Screw - Skt hd 10-24 x 7/8	1	70	63699	Ring - Bearing insert	1
27	24236	Washer - Special	1	71	63701	Insert - Bearing	1
28	86188	Gasket - Pump	1	72	103353	Screw - Hex hd 10-24 x 1-1/2 (B, C, D, A)	2
	83786	Pump Assy - Pulse	1	73	86050	Lockplate (B, C, D, A)	1
29	60260A	. Piston Assy - Pump	1	74	84603	Cover - Muffler (B, D, A)	1
30	104001	. "O" Ring	1	75	103355	Screw - Hex hd 10-24 x 1-7/8 (S)	2
31	86182	. Ring - Piston	1	76	84644	Lockplate (S)	1
32	60937	. Washer - Teflon	1	77	86209	Duct, Valve & Guard Assy (S)	1
33	60259	. Spring - Piston	1	78	84642	Spacer - Preheater (S)	2
34	62227	. Sleeve - Adjustment	1	79	85233	Cover Assy - Muffler (C, S)	1
35	110386	. Screw - Hex hd 8-32 x 1	1	80	110861	Screw - Skt hd 10-24 x 1-1/2 (J)	2
36	100251	. Nut - Hex 8-32	1	81	84581	Kit - Cover & Valve Assy (J)	1
37	62407	. Cover - Outlet valve	1	82	110472	. Screw - Skt hd 8-32 x 5/16 (J)	2
38	106104	. "O" Ring	1	83	87193	. Stop - Reed (J)	1
39	62885A	. Spring - Outlet valve	1	84	85585	. Valve - Reed (J)	1
40	102809	. Ball - Outlet valve	1	85	84580	Baffle - Muffler	1
41	83787	. Body Assy - Pump	1	86	110529	Screw - Hex hd 10-24 x 1/2	1
42	110643	. Screw - Set 8-32 x 7/16	1	87	84578	Screw - Special	1
43	63432	Spark Plug - AC CS 42T (B, C, D, J, S)	1	88	84579	Lockplate	1
	65408	Spark Plug - Ch CJ8 (A)	1	89	84572	Body & Duct Assy	1
44	110681	Screw - Skt hd 10-24 x 1/4	1	90	84577	Gasket - Muffler	1
45	-87866'	Valve - DSP	1				
46	85505	Washer - Valve	1				

① Used on engines with serial numbers prefixed 11-, 12-, and 13-.

② Used on engines with serial numbers prefixed 14-.

③ Used on engines with serial numbers prefixed 11- and 12-.