

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

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.

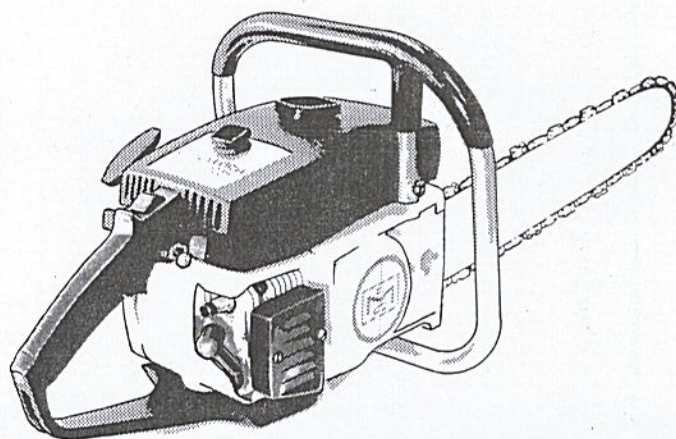
Example: P/N 85968, Guard - Hand (S)
(The guard in this example is used only on the Model 600435S)

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. 87257 supersedes and cancels I. P. L. 86400



APRIL 1972

	Page
Figure 1. General	2
Figure 2. Fan housing and Starter Assemblies . .	4
Figure 3. Fuel Tank Assembly . .	4
Figure 4. Carburetor Assembly . .	6
Figure 5. Carburetor Assembly . .	6
Figure 6. Flywheel and Ignition System . . .	8
Figure 7. Powerhead and Oiler Assemblies . .	10



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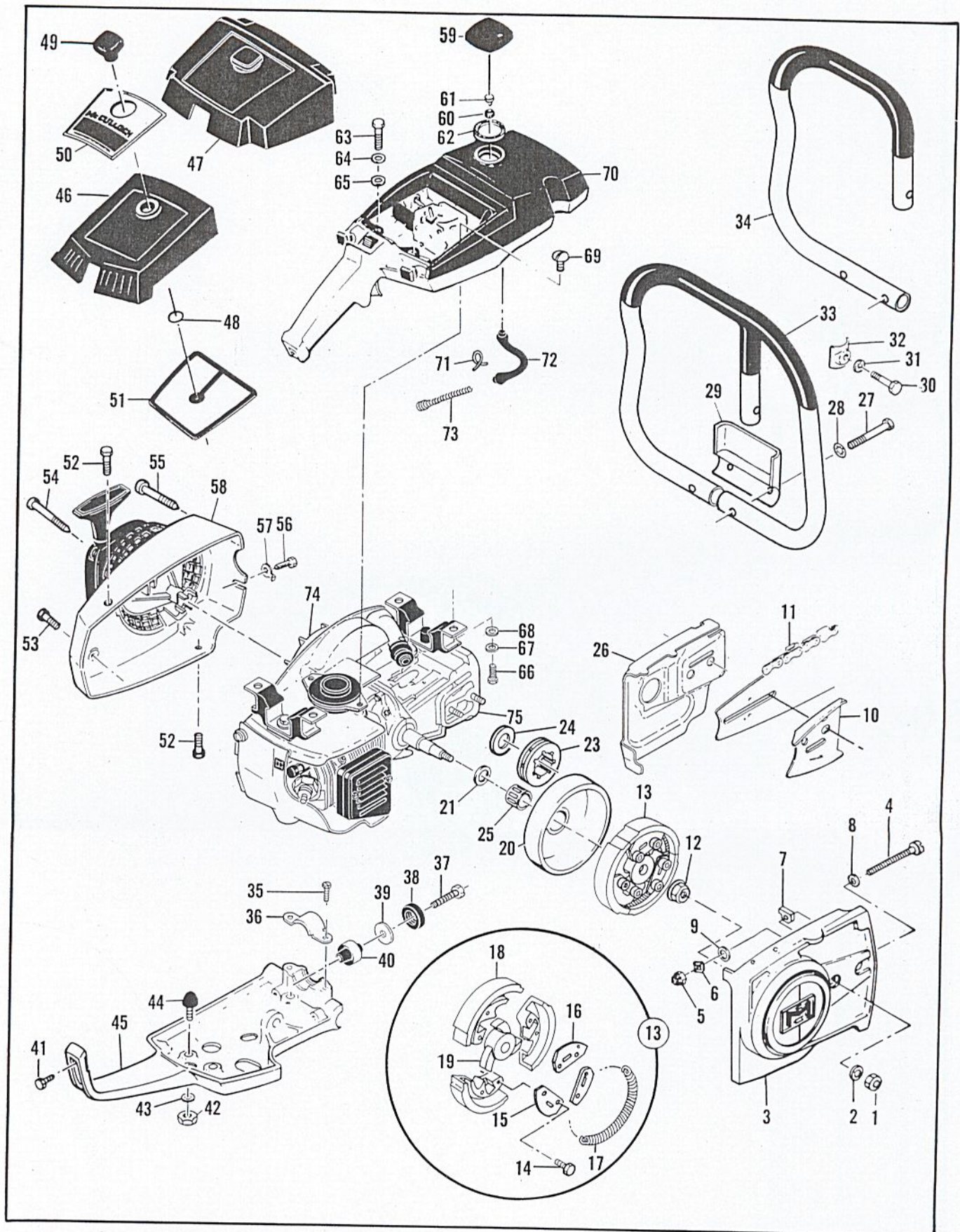


Figure 1. General

Figure 1. General

Item No.	Part Number	Description	Units Per Assy
1	110454	Nut - Hex 5/16-24	2
2	100440	Washer - 5/16	2
3	84530	Clutch Guard Assy	1
4	102144	. Screw - Bar adjusting	1
5	102067	. Nut - Hex 10-24	1
6	110387	. Washer - Wavey	1
7	100002	. Washer - #10	1
8	61705	. Nut - Bar adjusting	1
9	110264	. Washer - 3/16	1
10	64325	Plate - Bar protector	1
11		Bar & Chain Assy	1
12	* 110594	Nut - Hex 3/8-24 (R. H.)	1
	** 86113	Nut - Hex 3/8-24 (L. H.)	1
13	-86464	Clutch Assy	1
14	-110850	. Screw - Hex hd 8-32 x 1/2	6
15	85363	. Plate - Retainer	2
16	86409	. Plate Assy - Retainer	1
17	-86079	. Spring - Clutch	1
18	-86465	. Shoe - Clutch	3
19	85397	. Rotor - Clutch	1
20	-86008	Sprocket & Drum Assy (7-T .354) (B, D, J, S)	1
21	61693	. Shim (B, D, J, S)	1
22	-86394	Drum - Clutch (C, A)	1
23	-86145	Sprocket (7-T 3/8) (C, A)	1
24	-86395	Washer - Sprocket (C, A)	1
25	110330	Bearing - Sprocket	1
26	84978	Shield - Sawdust	1
27	102433	Screw - Hex hd 10-24 x 1-5/8	2
28	101194	Lockwasher - #10	2
29	84798	Clamp - Frame	1
30	102130	Screw - Hex hd 1/4-20 x 1-1/2	1
31	100153	Lockwasher - 1/4	1
32	63484	Clamp - Frame	1
33	84571	Frame & Grip Assy (C, D, A)	1
34	-85962	Frame & Grip Assy (B, J, S)	1
35	104950	Screw - Hex hd 10-24 x 5/8 (SEMS)	2
36	83819	Clamp - Lower mount	1
37	110679	Screw - Hex hd 1/4-20 x 2	1
38	84661	Grommet	1
39	-110845	Washer - 1/4	1
40	-85898	Mount - Lower	1

Item No.	Part Number	Description	Units Per Assy
41	101977	Screw - Fil hd 1/4-20 x 3/4	1
42	105367	Nut - Hex 10-24	2
43	100240	Lockwasher - #10	2
44	83111	Bumper	2
45	86075	Brace - Frame	1
46	85850	Cover Assy - Air cleaner (B, D, J, A)	1
47	-84700	Cover Assy - Air cleaner (C, S)	1
48	110565	. Ring - Retaining	1
49	68529	. Knob - Cover	1
50	86014	Nameplate	1
51	85387	Filter - Air	1
52	110684	Screw - Pan hd 10-24 x 3/8	2
53	-110741	Screw - Pan hd 10-24 x 1/2	1
54	62978	Screw - Special	2
55	85242	Screw - Special	1
56	102762	Screw - Hex hd 10-24 x 1/2	1
57	69890	Lockplate	1
58		Fan Housing & Starter Assys (See Figure 2)	
59	-86451	Cap Assy - Fuel	1
60	-86453	. Plug	1
61	-53766A	. Valve	1
62	69767	. Gasket	1
63	102388	Screw - Hex hd 10-24 x 5/8	2
64	101194	Lockwasher - #10	2
65	100002	Washer - #10	2
66	102861	Screw - Hex hd 1/4-20 x 5/8	2
67	100153	Lockwasher - 1/4	2
68	100005	Washer - 1/4	2
69	-110807	Screw - Pan hd 8-32 x 5/16	2
70		Fuel Tank Assy (See Figure 3)	
71	-110860	Clamp - Hose	1
72	69598	Line - Pulse	1
73	67944	Spring - Pulse line	1
74		Flywheel & Ignition System (See Figure)	
75		Powerhead & Oiler Assys (See Figure)	

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

** Left-hand thread nut for use with Crankshaft, P/N 86193, on engines with serial numbers prefixed 12- and 13-.

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.

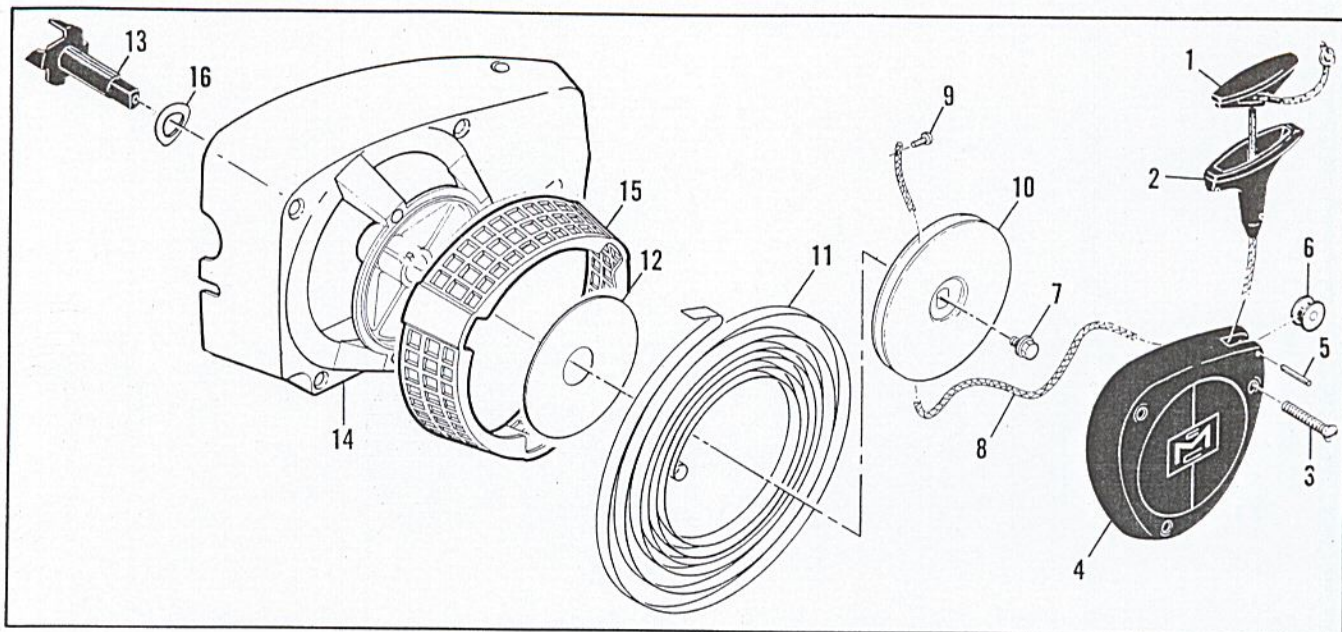


Figure 2. Fan Housing and Starter Assembly.

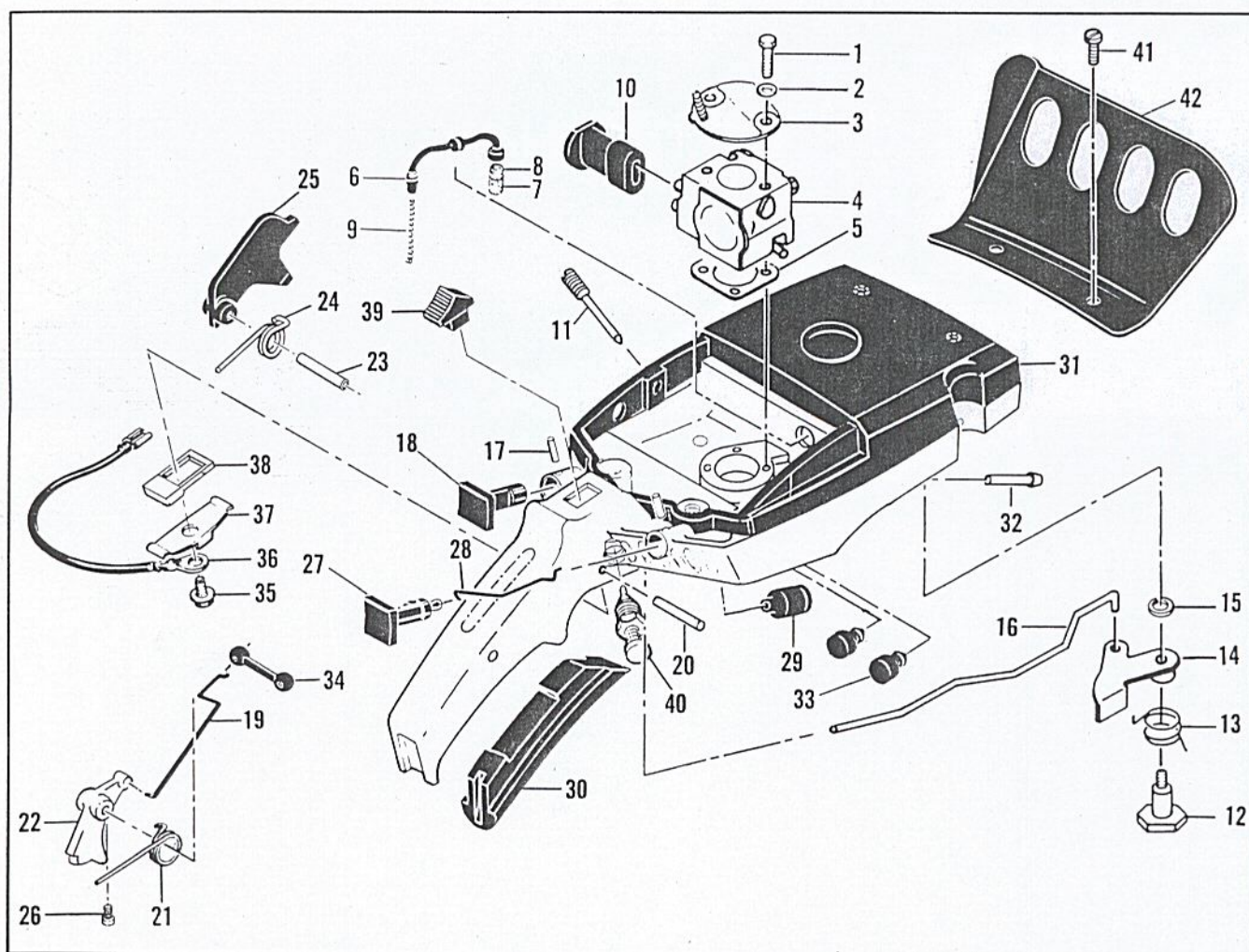


Figure 3. Fuel Tank Assembly

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	85729	Cover Assy - Starter	1
5	110657	. Pin - Roll	1
6	84051	. Pulley - Rope	1
7	-110341	Screw - Hex hd 10-24 x 1/2	1

Item No.	Part Number	Description	Units Per Assy
8	69964	Rope - Starter	1
9	110470	Rivet - Rope	1
10	86405	Drum - Starter	1
11	83334	Spring - Rewind	1
12	86053	Shield - Spring	1
13	83748	Shaft - Starter	1
14	86051	Kit - Fan housing	1
15	85676	. Guard - Sawdust	1
16	86052	Washer - Special	1

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	-85936	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	64872	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

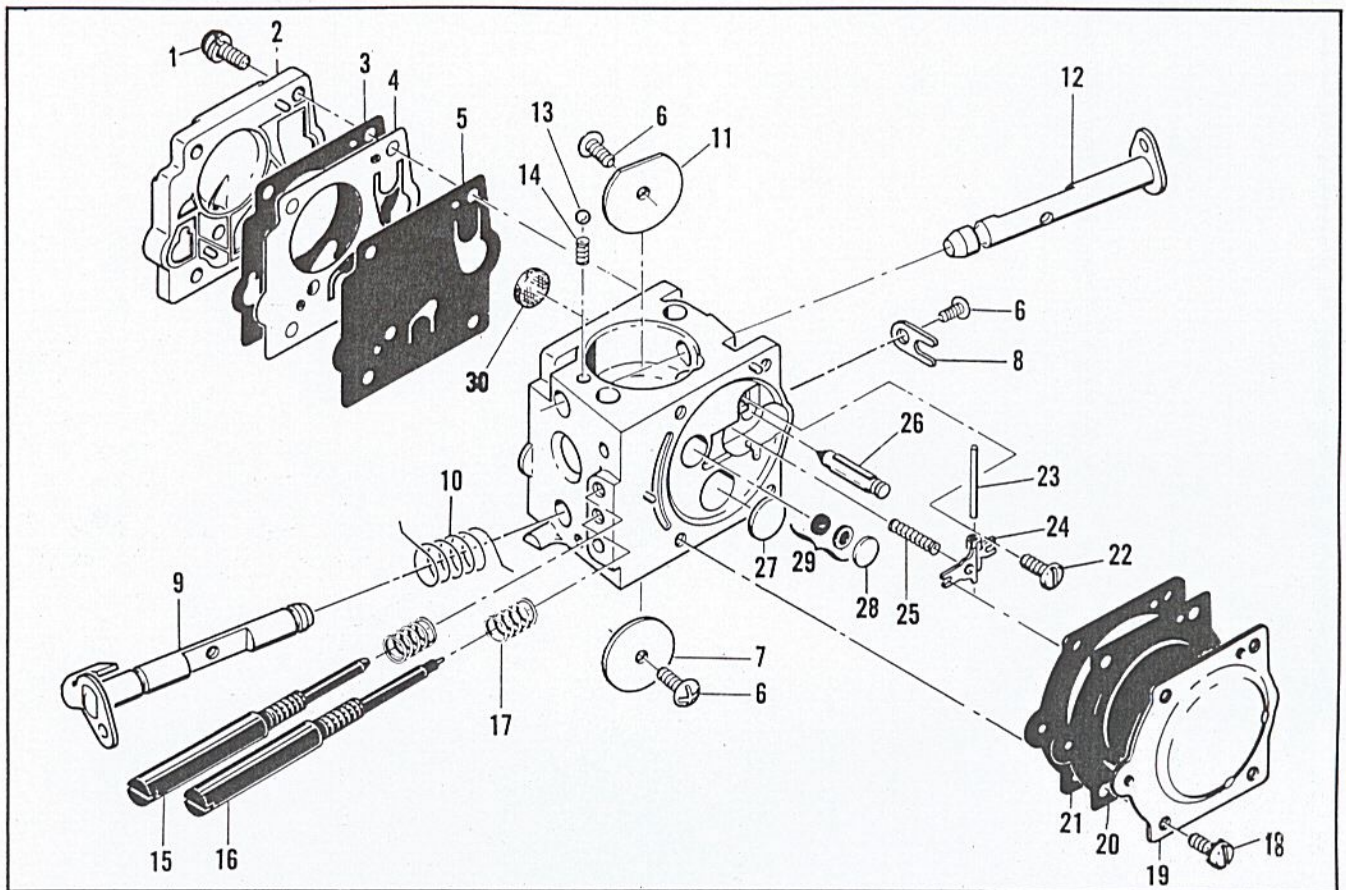


Figure 4. Carburetor Assembly

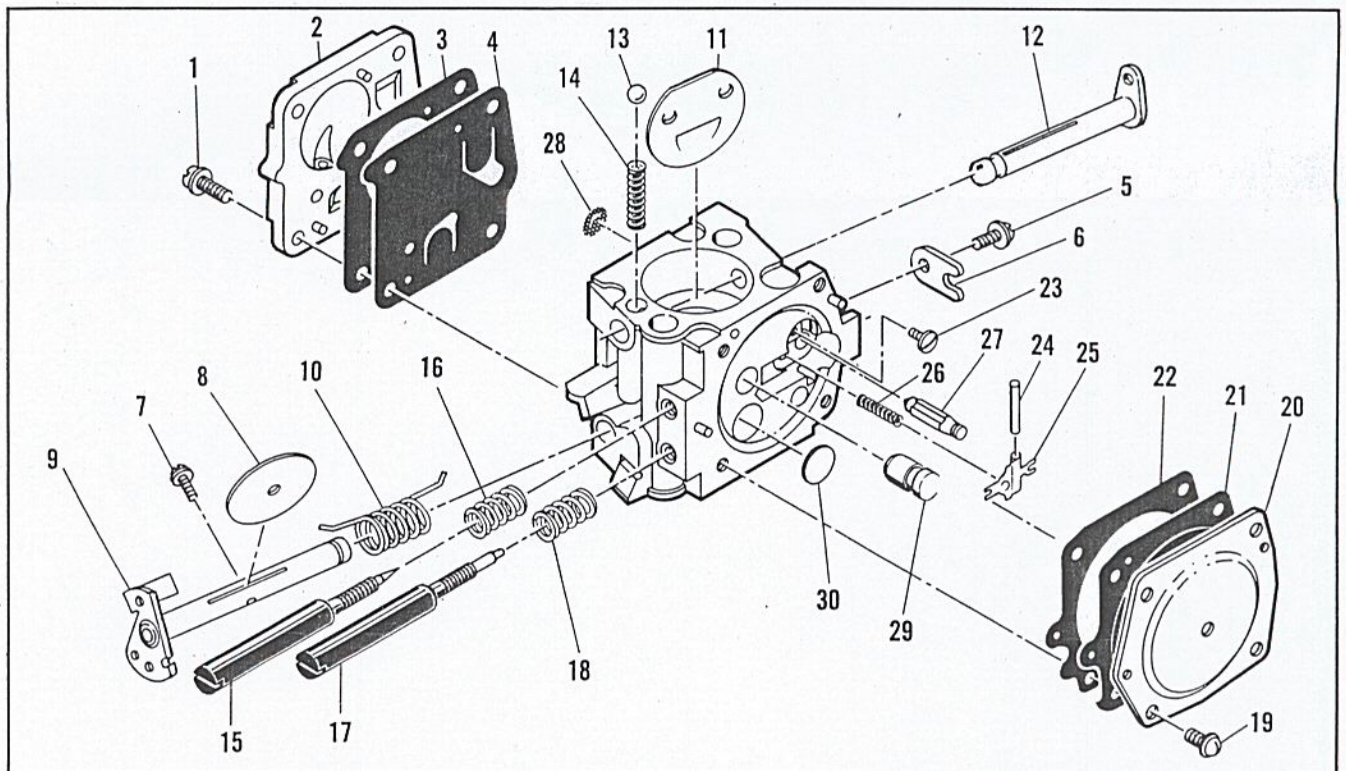


Figure 5. Carburetor Assembly

Figure 4. Carburetor Assembly.

Item No.	Part Number	Description	Units Per Assy
	85849	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

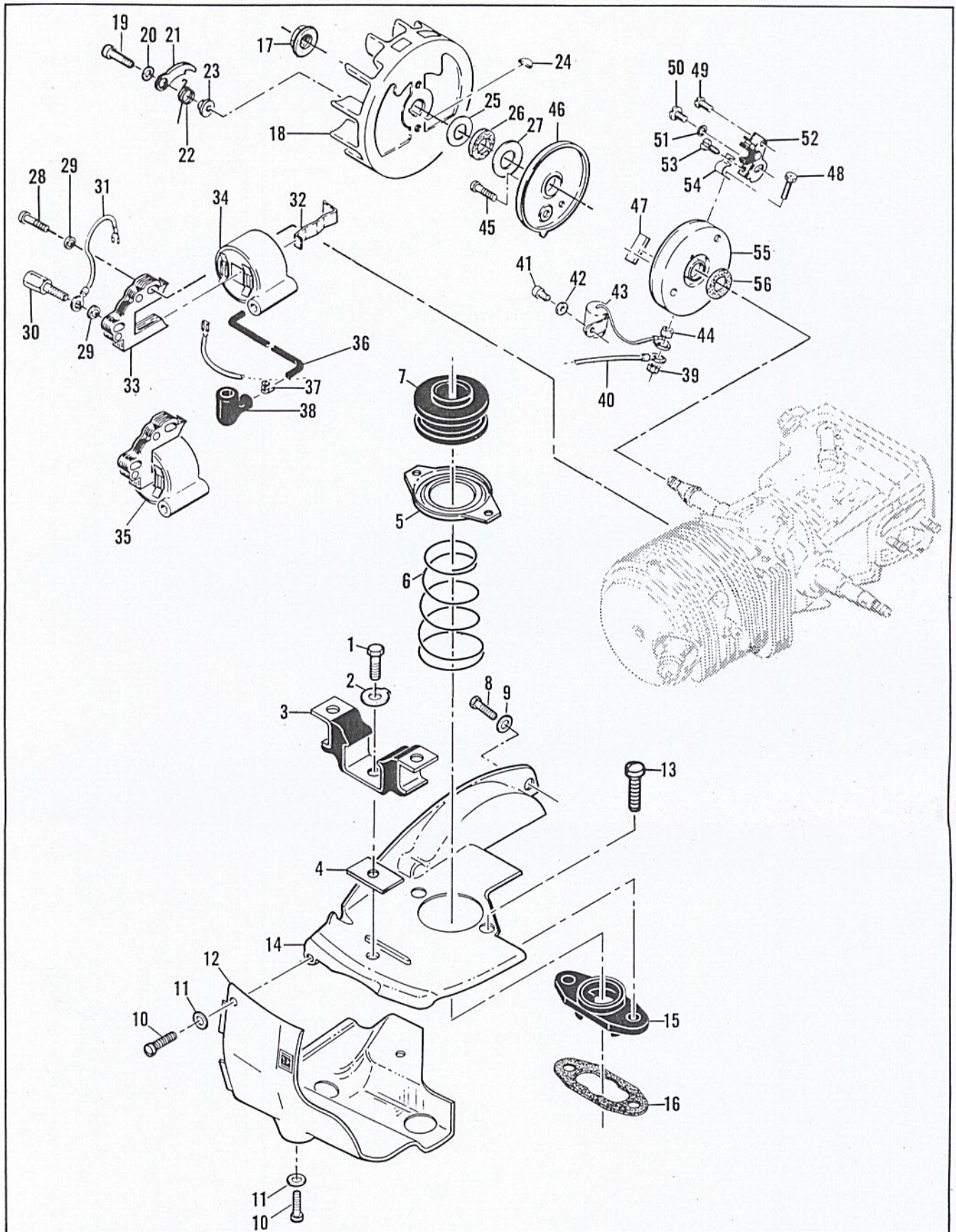


Figure 6. Flywheel and Ignition System

Figure 6. Flywheel and Ignition System

Item No.	Part Number	Description	Units Per Assy
1	83811	Screw - Special	1
2	69924	Lockplate	1
3	85794	Mount - Rear	1
4	84619	Insulator	1
5	86175	Clamp Assy - Boot	1
6	86190	Spring - Ground	1
7	84619	Boot - Third port	1
8	-110776	Screw - Fil hd 8-32 x 3/8	1
9	100057	Lockwasher - #8	1
10	102500	Screw - Pan hd 10-24 x 1/2	3
11	100002	Washer - #10	3
12	86314	Shroud - Lower	1
13	104396	Screw - Pan hd 10-24 x 3/4	2
14	85281	Shroud - Upper	1
15	-86455	Insulator - Inlet	1
16	85136	Gasket - Insulator	1
17	110703	Nut - Hex 3/8-24	1
18	86068	Flywheel Assy	1
19	110713	Screw - Skt hd 10-24 x 7/8	2
20	83241	Washer - Special	2
21	67546	Pawl - Starter	2
22	67545	Spring - Pawl	2
23	67547	Pivot - Pawl	2
24	103879	Key - Woodruff	1
25	67057	Washer - Thrust	1
26	67056	Seal - Breaker box cover	1
27	67054	Washer - Thrust	1
28	103947	Screw - Hex hd 10-24 x 1 (SEMS)	1
29	-100002	Washer - #10	2

Item No.	Part Number	Description	Units Per Assy
30	83512	Stud - Special	1
31	85798	Wire Assy - Ground	1
32	* 51253	Retainer - Coil	1
33	* 85138	Lamination Assy	1
34	* 84972	Kit - Coil & Terminal	1
35	-87246	Coil & Lamination Assy (B, C, D, J, S, A)	1
36	50120	. Wire Assy - Spark plug	1
37	55061	. . Connector	1
38	55060	. . Boot	1
39	100298	Nut - Hex 6-32	1
40	85796	Wire Assy - Primary	1
41	103672	Screw - Fil hd 8-32 x 1/2 (SEMS)	1
42	100080	Washer - #8	1
43	85358	Condenser	1
44	62365	Spacer - Breaker box	1
45	110584	Screw - Pan hd 8-32 x 3/4	1
46	62362	Cover - Breaker box	1
47	54184	Wiper - Cam	1
48	110346	Screw - Hex hd 6-32 x 3/4	1
49	-110811	Screw - Pan hd 8-32 x 3/8	1
50	110445	Screw - Truss hd 8-32 x 3/8	1
51	105976	Washer - #8	1
52	66231	Breaker Assy	1
53	110706	Screw - Pan hd 6-32 x 7/16 s/t	1
54	83126	Strap - Conduction	1
55	84329	Box - Breaker	1
56	67051	Seal - Breaker box	1

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

Accessories.

Part Number	Description
-85962	Frame & Grip Assy - Flushcut
84597	Baffle - Spark arrester
85234	Kit - Preheater
86330	Kit - Spike
65712	Guide - Timing
63746	Scrench
63097	Spark Plug - AC CS45T
65778	Spark Plug - AC CS41T
62827	Wrench - Screwdriver
85726	Owner's Manual

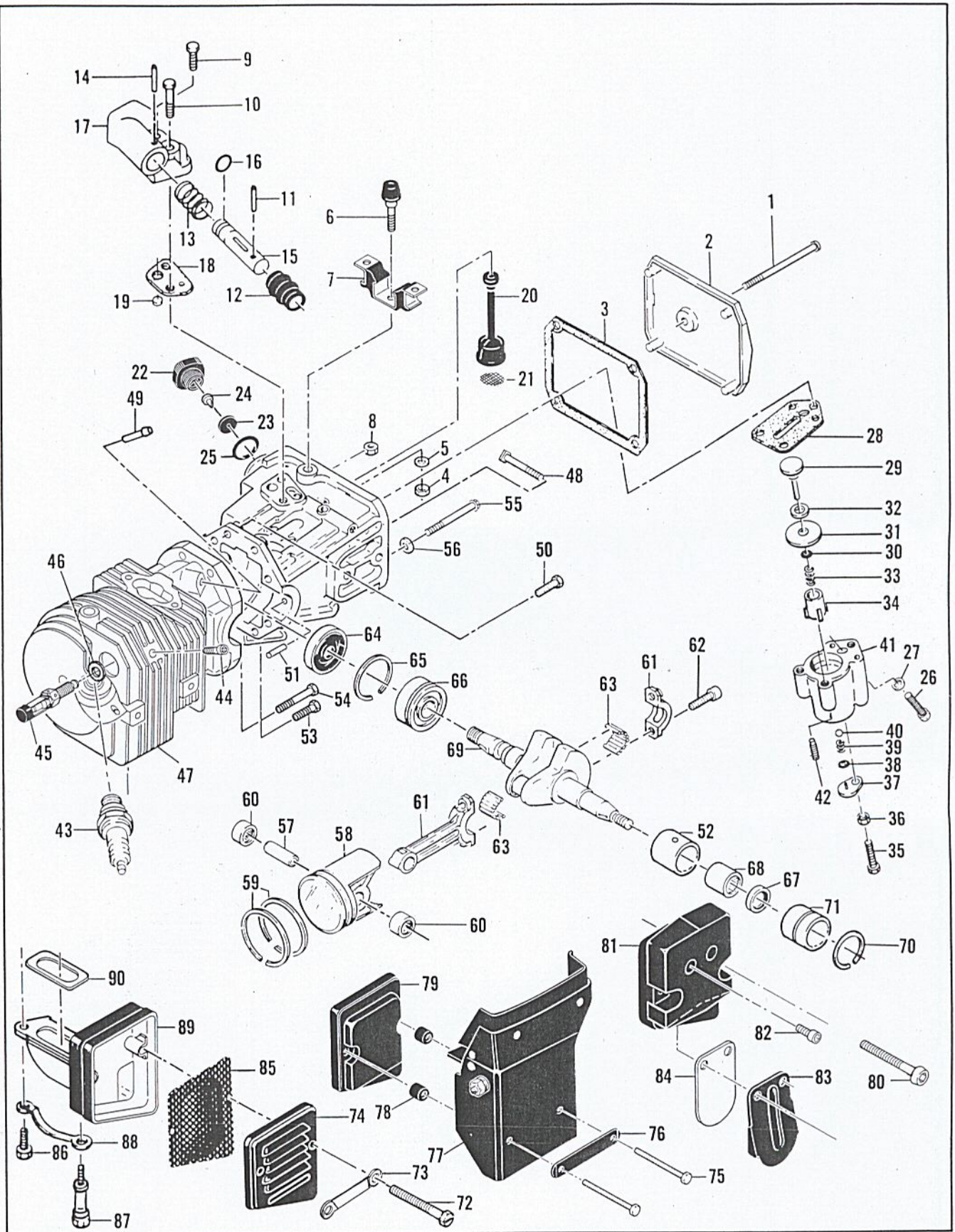


Figure 7. Powerhead and Oiler Assemblies

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	85793	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	59	85245	. Ring Set - Piston	1
14	101556	Pin - Roll 1/8 x 5/8	1	60	110590	. Bearing - Needle	2
15	69584	Plunger - Pump	1	61	85237	Connecting Rod Assy	1
16	101056	"O" Ring	1	62	61627A	. Screw - Special	2
17	69582	Body - Oil pump	1	63	85246	. Roller - (Set of 22)	1
18	62230	Gasket - Oil pump	1	64	61618	Seal - Oil	1
19	62909	Valve - Oiler	1	65	63464	Ring - Snap	1
20	62123B	Hose Assy - Oil	1	66	63429B	Bearing - Ball	1
21	50506	. Screen - Hose	1	67	110260	Seal - Oil	1
22	-87270	Cap - Oil tank	1	68	104357	Bearing - Needle	1
23	-87269	. Retainer - Valve	1	69	86193	Crankshaft	1
24	-86402	. Valve	1	70	* 63699	Ring - Bearing insert	
25	101148	"O" Ring	1	71	* 63701	Insert - Bearing	
26	110713	Screw - Skt hd 10-24 x 7/8	1	72	103353	Screw - Hex hd 10-24 x 1-1/2 (B, C, D, A)	2
27	24236	Washer - Special	1	73	86050	Lockplate (B, C, D, A)	1
28	-86188	Gasket - Pump	1	74	84603	Cover - Muffler (B, D, A)	1
	83786	Pump Assy - Pulse	1	75	103355	Screw - Hex hd 10-24 x 1-7/8 (S)	2
29	60260A	. Piston Assy - Pump	1	76	84644	Lockplate (S)	1
30	104001	. "O" Ring	1	77	86209	Duct, Valve & Guard Assy (S)	1
31	-86182	. Ring - Piston	1	78	84642	Spacer - Preheater (S)	2
32	60937	. Washer - Teflon	1	79	85233	Cover Assy - Muffler (C, S)	1
33	60259	. Spring - Piston	1	80	110861	Screw - Skt hd 10-24 x 1-1/2 (J)	2
34	62227	. Sleeve - Adjustment	1	81	84581	Kit - Cover & Valve Assy (J)	1
35	110386	. Screw - Hex hd 8-32 x 1	1	82	110472	. Screw - Skt hd 8-32 x 5/16 (J)	2
36	100251	. Nut - Hex 8-32	1	83	87193	. Stop - Reed (J)	1
37	62407	. Cover - Outlet valve	1	84	85585	. Valve - Reed (J)	1
38	106104	. "O" Ring	1	85	84580	Baffle - Muffler	1
39	62885A	. Spring - Outlet valve	1	86	110529	Screw - Hex hd 10-24 x 1/2	1
40	102809	. Ball - Outlet valve	1	87	84578	Screw - Special	1
41	83787	. Body Assy - Pump	1	88	84579	Lockplate	1
42	110643	. Screw - Set 8-32 x 7/16	1	89	84572	Body & Duct Assy	1
43	63432	Spark Plug - AC CS 42T (B, C, D, J, S)	1	90	94577	Gasket - Muffler	1
	65408	Spark Plug - Ch CJ8 (A)	1				
44	110681	Screw - Skt hd 10-24 x 1/4	1				
45	84785	Valve - DSP	1				
46	85505	Washer - Valve	1				

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