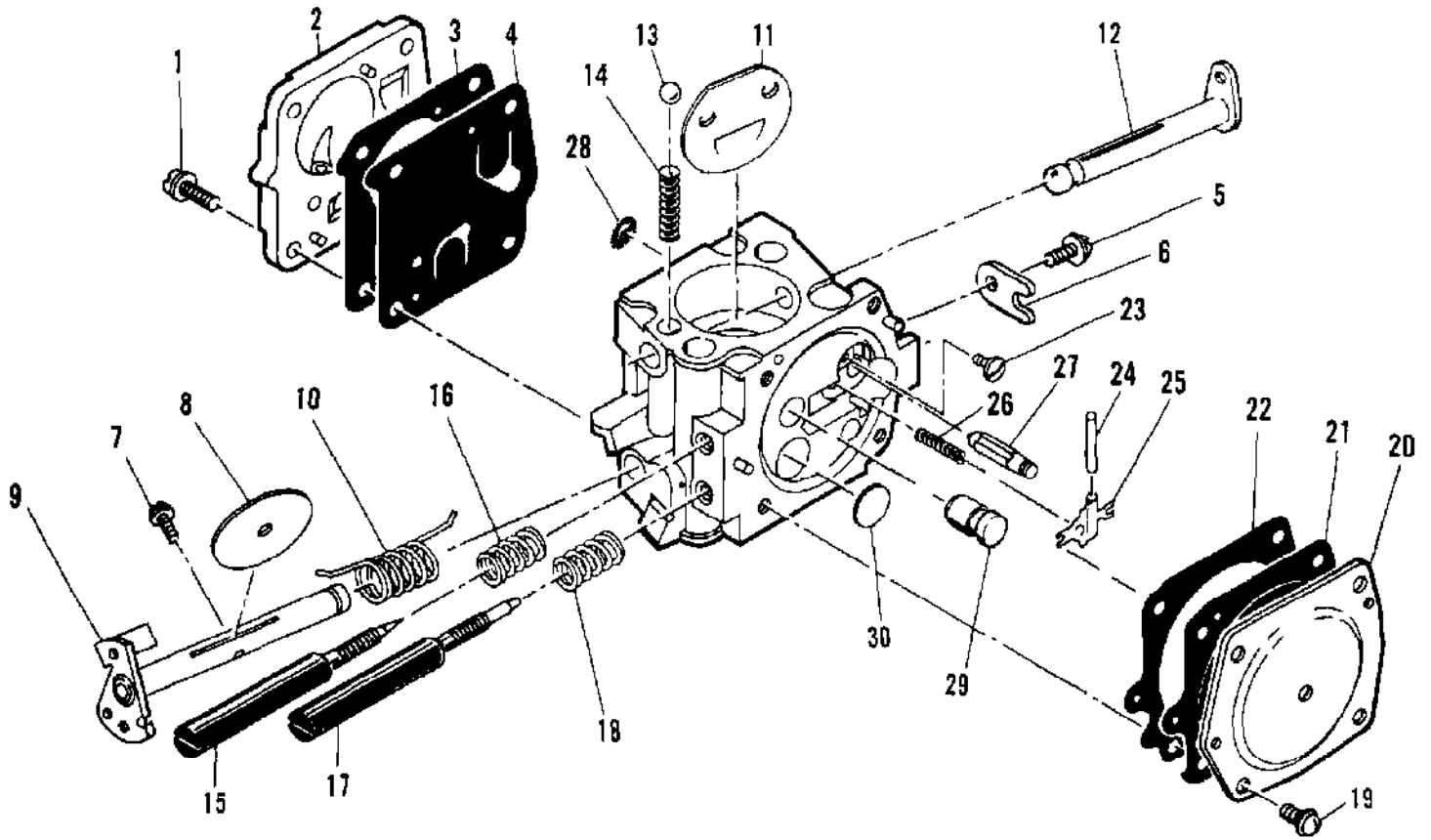
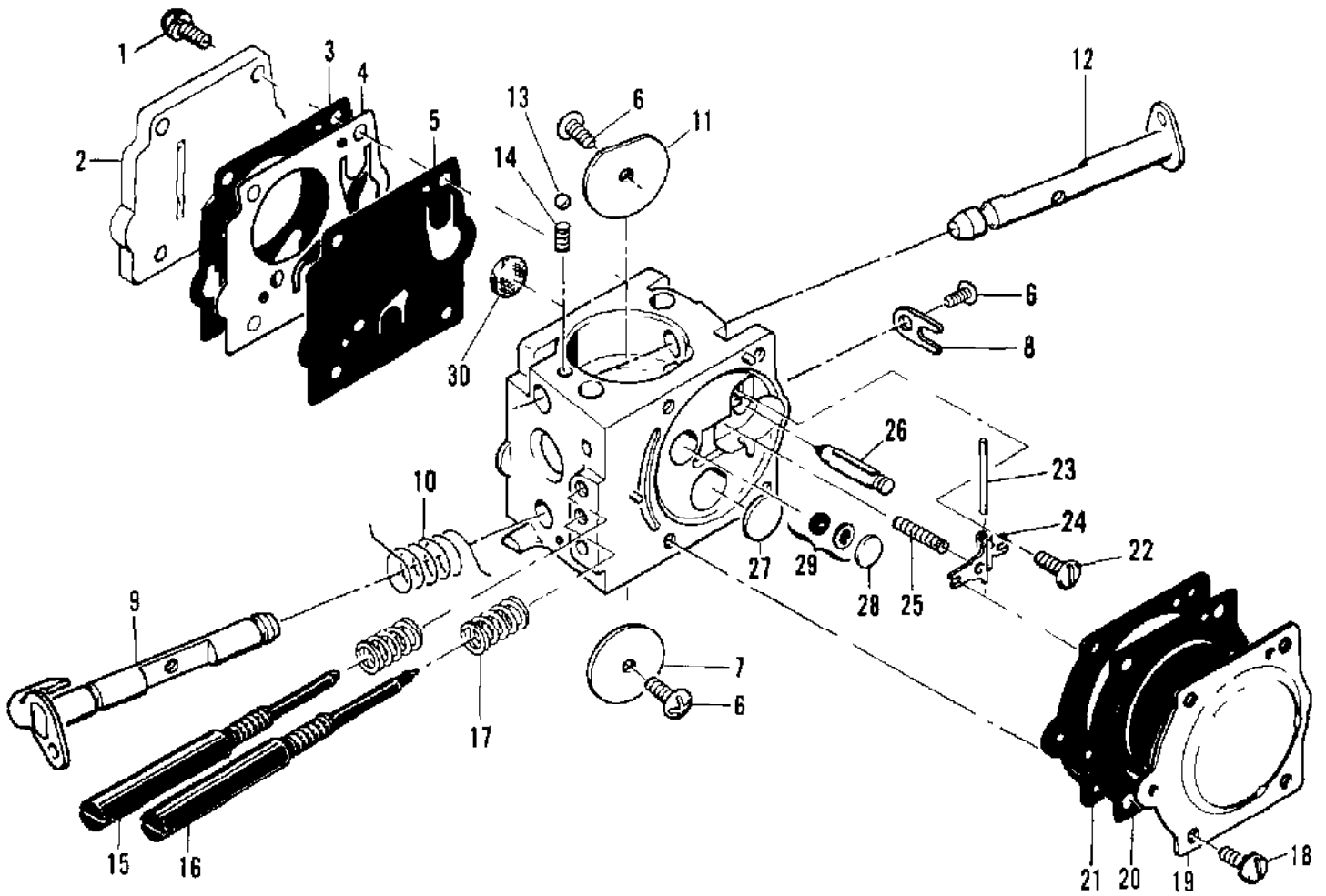


No  
Diagram  
Available  
  
Parts List  
Only

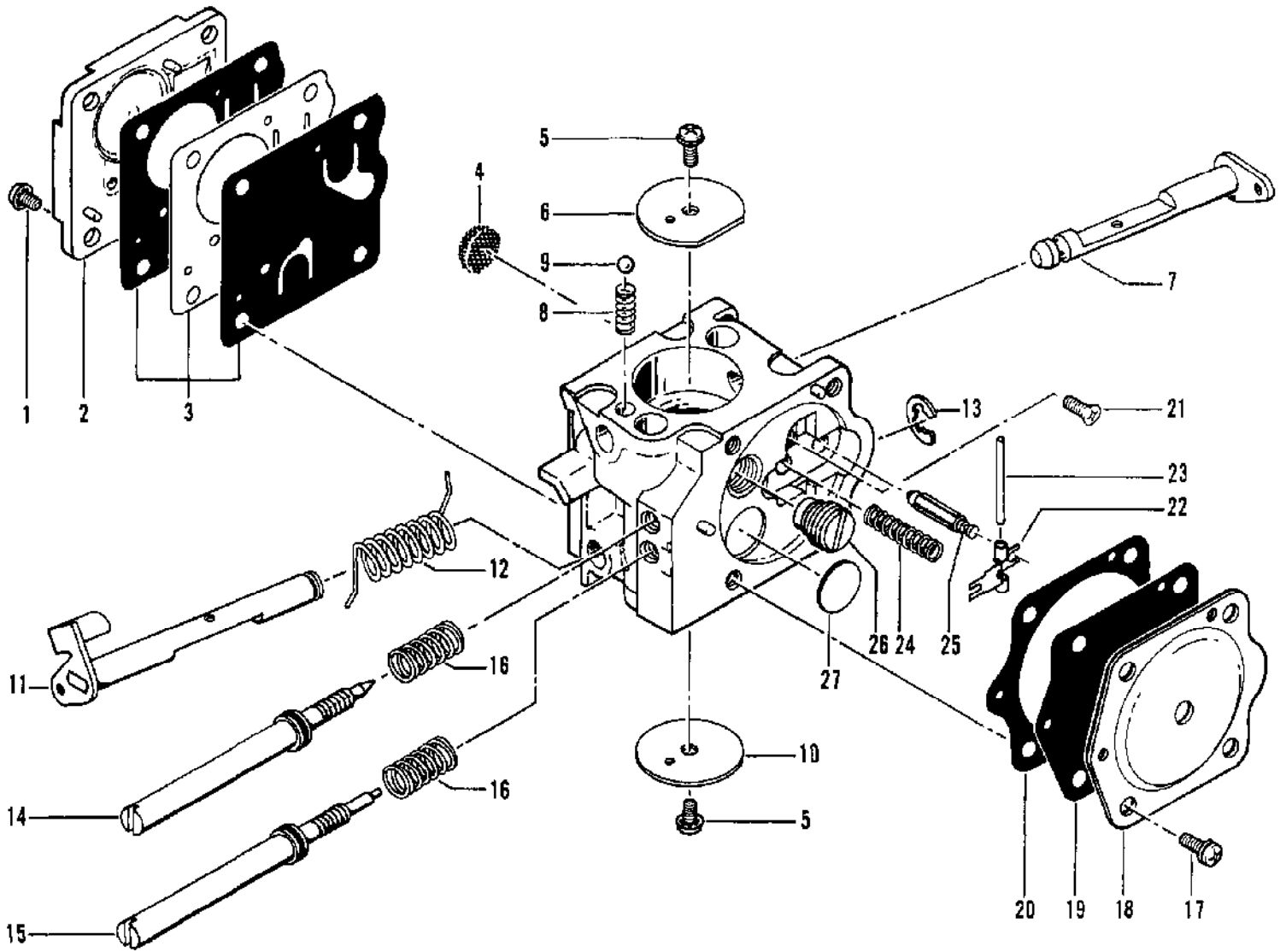
Ref #	Part Number	Qty	Description
	84453		Kit - Piston tool
	69191		Kit - Pressure test adaptor
	63097		Spark Plug (standard)
	63432		Spark Plug (cooler)
	62827		Wrench/Screwdriver
	83235		Scrench
	93014		Baffle - Spark Arrester
	91967		Kit - Spike
	102388		Screw - Hx hd 10-24 x 5/8
	24236		Washer - Special
	101191		Nut - Hx 10-24
	93886		Kit - Mount



Ref #	Part Number	Qty	Description
	85916	1	Carburetor Asy - HS 111A
1	52933	4	Screw - Pump cover
2	66628	1	Cover - Pump
3	66629	1	Gasket - Cover
4	66630	1	Diaphragm - Fuel pump
5	48780	1	Screw - Clip retainer
6	66646	1	Clip - Throttle shaft
7	48780	1	Screw - Plate
8	51720	1	Plate - Throttle
9	83546	1	Shaft Asy - Throttle
10	67136	1	Spring - Throttle return
11	65856	1	Plate - Choke
12	83725	1	Shaft Asy - Choke
13	100071	1	Ball - Choke friction
14	52930	1	Spring - Choke friction
15	86169	1	Needle - High speed
16	52936	1	Spring - High Speed needle
17	86170	1	Needle - Idle
18	67133	1	Spring - Idle needle
19	51721	4	Screw - Diaphragm cover
20	83724	1	Cover - Diaphragm
21	66632	1	Diaphragm - Metering
22	66633	1	Gasket - Diaphragm
23	83479	1	Screw - Lever pin
24	66636	1	Pin - Lever
25	66638	1	Lever - Metering
26	66404	1	Spring - Lever
27	66637	1	Valve - Needle
28	66623	1	Screen - Fuel inlet
29	83729	1	Check Valve - Nozzle
30	66622	1	Plug - Welch

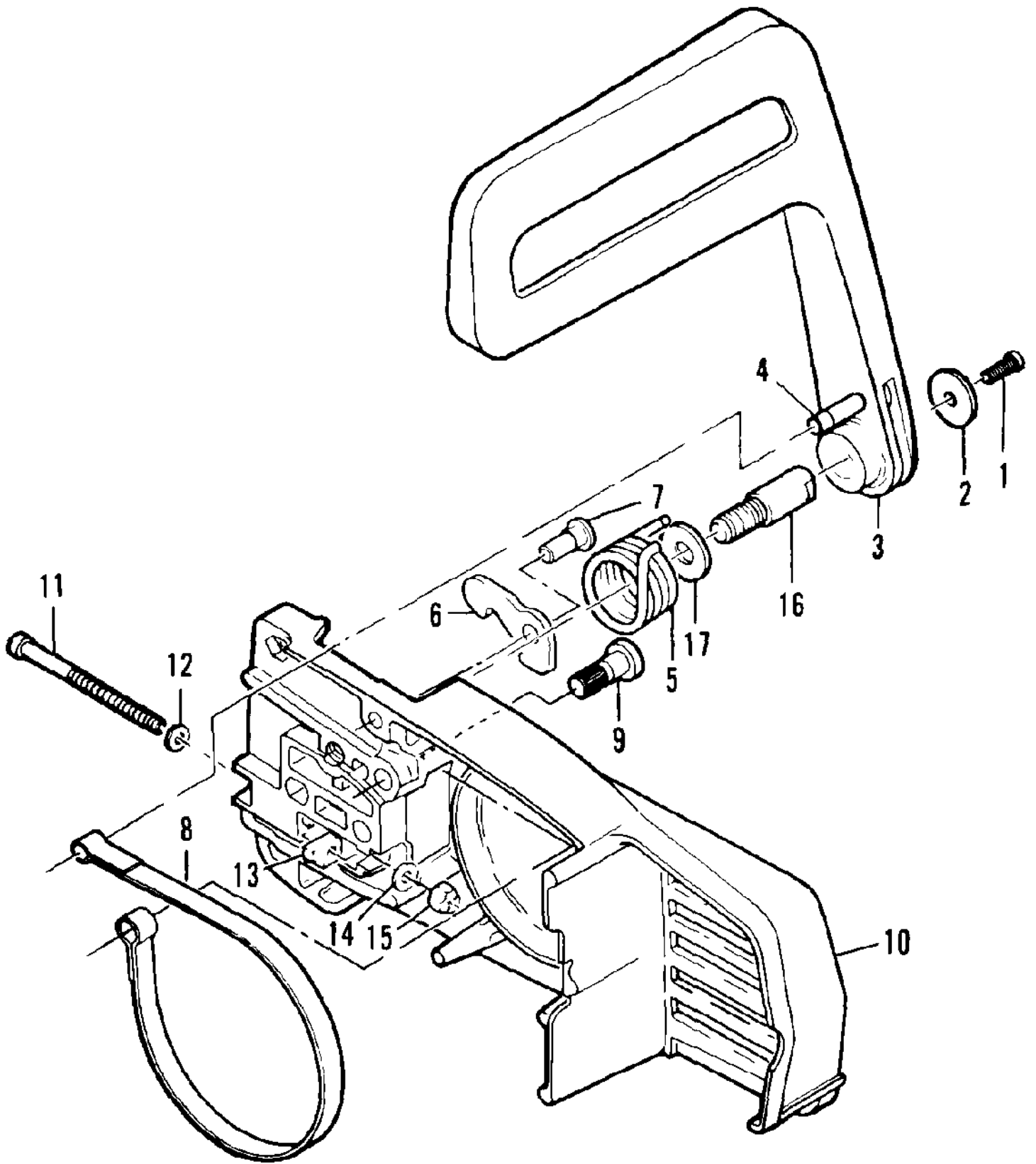


Ref #	Part Number	Qty	Description
	87821	1	Carburetor Asy - SDC 38A
1	67501	4	Screw - Pump cover
2	88731	1	Kit - Pump cover
3	88617	1	Gasket - Cover
4	67498	1	Diaphragm - Check valve
5	83114	1	Diaphragm - Fuel pump
6	47690	3	Screw - Plate
7	83762	1	Plate - Throttle
8	67489	1	Clip - Shaft
9	85980	1	Shaft Asy - Throttle
10	85981	1	Spring - Throttle return
11	67490	1	Plate - Choke
12	67488	1	Shaft Asy - Choke
13	100302	1	Ball - Choke friction
14	67504	1	Spring - Choke friction
15	85979	1	Needle - High Speed
16	85982	1	Needle - Idle
17	67502	2	Spring - Needle
18	70798	4	Screw - Diaphragm
19	83761	1	Cover - Diaphragm
20	67499	1	Diaphragm - Metering
21	67496	1	Gasket - Diaphragm
22	67500	1	Screw - Lever pin
23	67508	1	Pin - Lever
24	67509	1	Lever - Inlet
25	67503	1	Spring - Lever
26	67491	1	Valve - Needle
27	71690	1	Plug - 3/8
28	69506	1	Plug - 5/16
29	83758	1	Kit - Valve & Seat Asy
30	67507	1	Screen - Fuel
	67482		Gasket Kit
	85987		Repair Kit

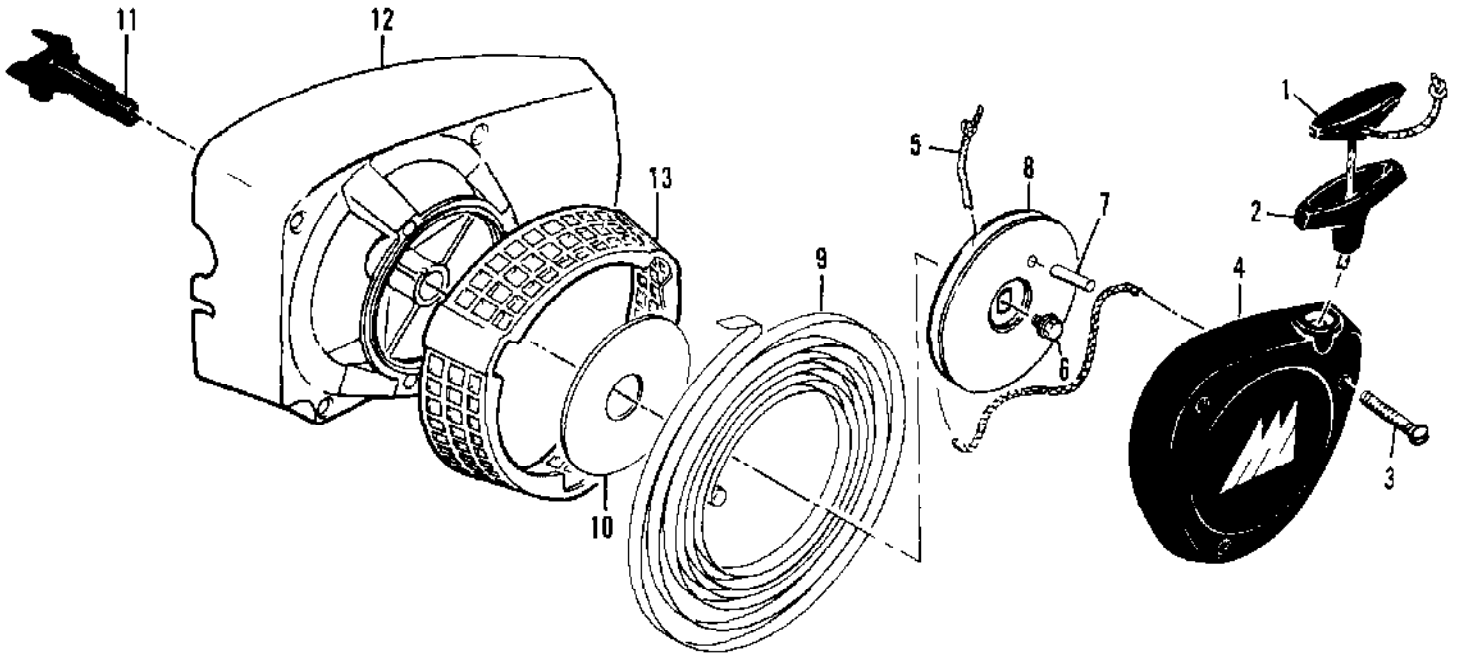


Ref #	Part Number	Qty	Description
	93789		Carburetor Asy (Zama C-2)
1	91809	4	Screw - Pump cover (m4)
2	93939	1	Cover - Fuel pump
3	93952	1	Kit - Pump diaphragm
4	91820	1	Screen - Filter
5	91804	2	Screw - Plate
6	93953	1	Valve - Choke
7	93954	1	Shaft Asy - Choke
8	93955	1	Spring - Choke shaft
9	93956	1	Ball - Choke friction
10	93937	1	Valve - Throttle
11	93935	1	Shaft Asy - Throttle
12	93936	1	Spring - Throttle return
13	93938	1	E - Ring
14	93946	1	Needle - High speed
15	93947	1	Needle - Idle
16	93948	2	Spring - Needle
17	93945	4	Screw - Diaphragm cover
18	93944	1	Cover - Diaphragm
19	93943	1	Diaphragm Asy - Main
20	93949	1	Gasket - Main
21	91814	1	Screw - Lever pin (m3)
22	93941	1	Lever - Inlet
23	93942	1	Pin - Lever
24	93940	1	Spring - Lever
25	91810	1	Valve - Needle
26	93950	1	Valve Asy - Main jet
27	93951	1	Plug - Welsh
	93957		Repair Kit

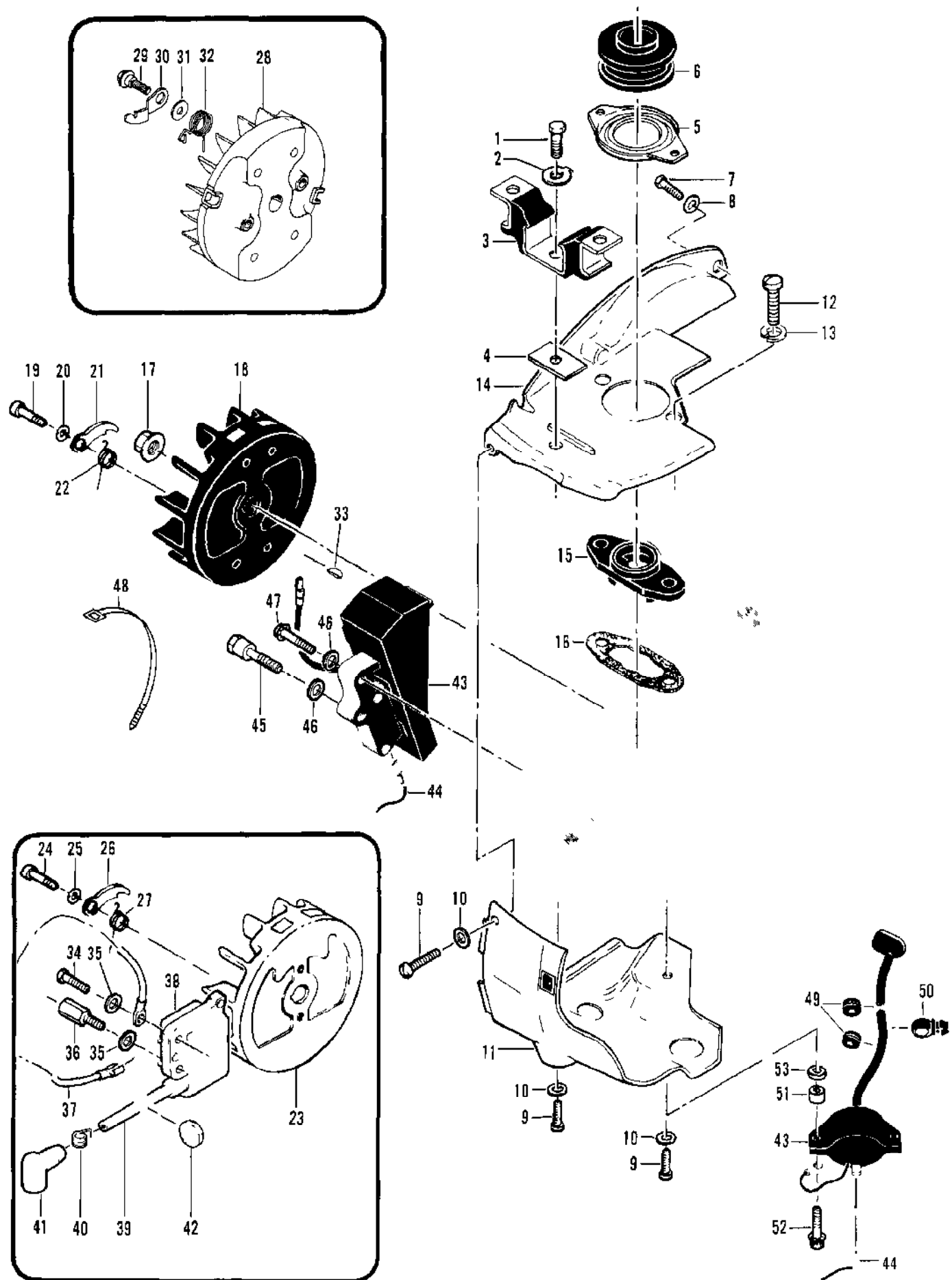




Ref #	Part Number	Qty	Description
	92988		CHAIN BRAKE Asy
1	102500	1	Screw - Pan hd 10-24 x 1/2
2	91273	1	Washer - Special
3	93076	1	Lever Asy
4	93077	1	Pin Asy - Roller
5	93085	1	Spring - Brake
6	93083	1	Latch
7	93669	1	Pivot - Latch
8	93081	1	Band - Brake
9	93082	1	Pin - Band Anchor
10	92987	1	Housing Asy - Brake
11	110527	1	Screw - Fil hd 10-24 x 2-3/4
12	110264	1	Washer - #10
13	61705	1	Nut - Bar adjusting
14	100002	1	Washer - #10
15	102067	1	Nut - Hx 10-24
16	91246	1	Pin - Lever pivot
17	91245	1	Washer - Thrust

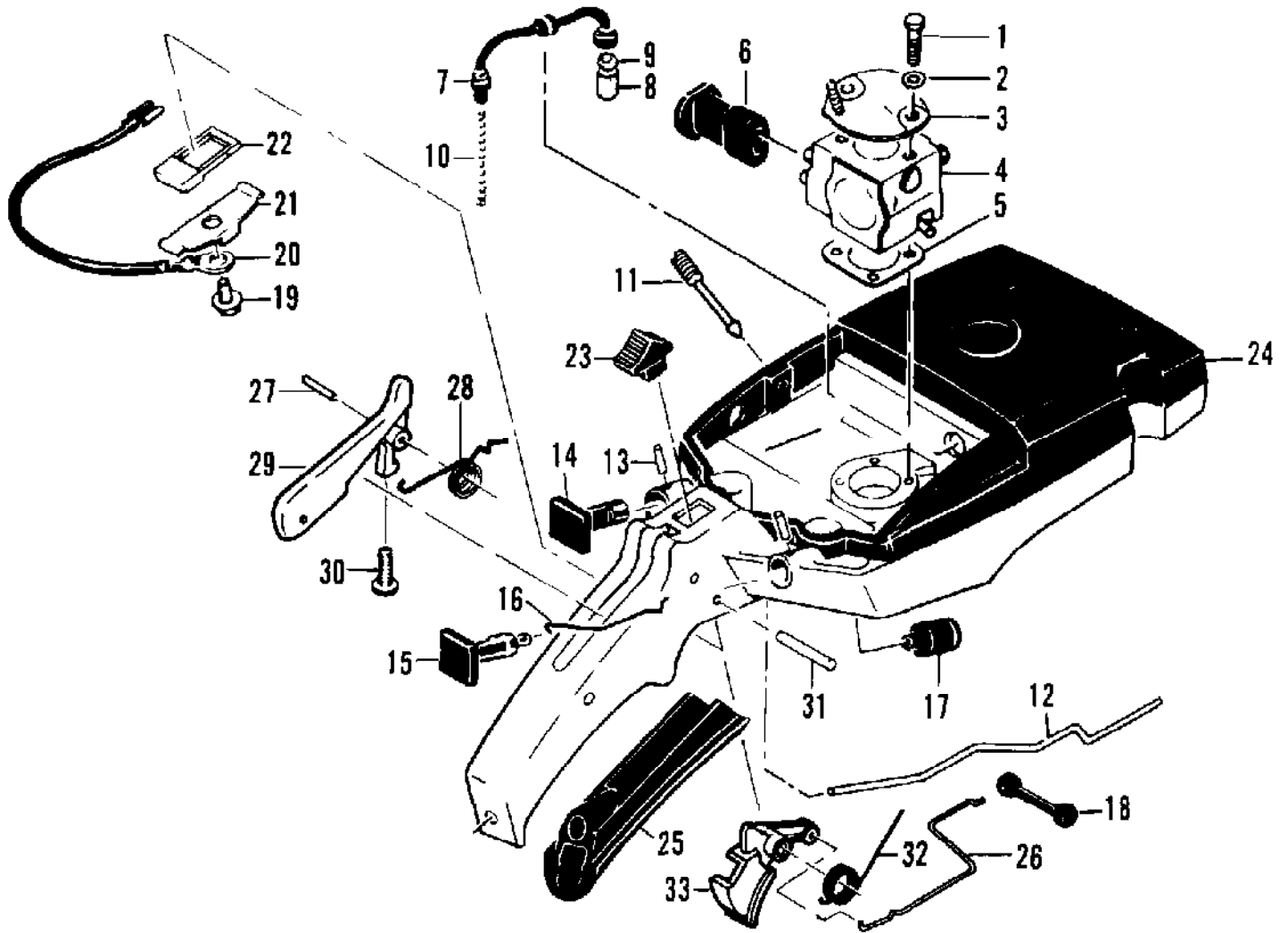


Ref #	Part Number	Qty	Description
	90921A	1	Fan Housing & Starter Asy
1	62191A	1	Insert - Starter
2	93137	1	Handle - Starter
3	110646	3	Screw - Oval hd 8-32 x 1-1/8
4	87672	1	Cover Asy - Starter
5	87670	1	Rope - Starter
6	110341	1	Screw - Hex hd 10-24 x 1/2
7	105841	1	Pin - Roll
8	87689	1	Drum - Starter
9	87680	1	Spring - Rewind
10	86053	1	Shield - Spring
11	83748	1	Shaft - Starter
12	87693	1	Kit - Fan housing
13	87674	1	Guard - Sawdust



Ref #	Part Number	Qty	Description
1	83811	1	Screw - Special
2	69924	1	Lockplate
3	91578A	1	Mount - Rear
3	93925	1	Mount - Rear
4	84619	1	Insulator
5	86175	1	Clamp Asy - Boot
6	88834A	1	Boot - Port
7	110776	1	Screw - Fil hd 8-32 x 3/8
8	100057	1	Lockwasher - #8
9	102500	AR	Screw - Pan hd 10-24 x 1/2
10	100002	AR	Washer - #10
11	92815	1	Shroud - Lower
11	86314A	1	Shroud - Lower
12	104396	2	Screw - Pan hd 10-24 x 3/4
13	101194	2	Lockwasher - #10
14	88835A	1	Shroud - Upper
15	87844	1	Insulator - Inlet
16	88740	1	Gasket - Insulator
17	110703	1	Nut - Hex 3/8-24
18	92886	1	Flywheel Asy (black)
19	88804	2	Screw - Special
20	83241	2	Washer - Special
21	67546	2	Pawl - Starter
22	67545	2	Spring - Pawl
23	86068	1	Flywheel Asy
24	88804	2	Screw - Special
25	83241	2	Washer - Special
26	67546	2	Pawl - Starter
27	67545	2	Spring - Pawl
28	86068A	1	Flywheel Asy
29	93464	2	Screw - Pawl
30	93198	2	Pawl - Starter
31	93469	2	Washer - Pawl
32	93197	2	Spring - Pawl
33	100106	1	Key - Woodruff
34	110127	1	Screw - Hx hd 10-24 x 7/8 (SEMS)
35	100002	2	Washer - #10
36	83512	1	Stud - Special
37	85798	1	Wire Asy - Ground
38	92785	1	Electronic Ignition Asy
39	92796	1	Wire Asy - Spark Plug
40	102556	1	Connector
41	95266	1	Boot
42	110995	1	Grommet
43	95237	1	Kit - Electronic ignition
44	92848	1	Wire Asy - Primary
	92889		Stud - Fan Housing
45		1	Mounting
46	100002	2	Washer - #10
47	103947	1	Screw - Hx 10-24 x 1.0
48	93273	1	Tie Cable
49	100268	2	Grommet
50	110973	1	Clip - Guide .375
51	92890	2	Spacer - Transformer
52	110749	2	Screw - Hx W 10-24 x 1-1/8

Ref #	Part Number	Qty	Description
53	100002	2	Washer - #10



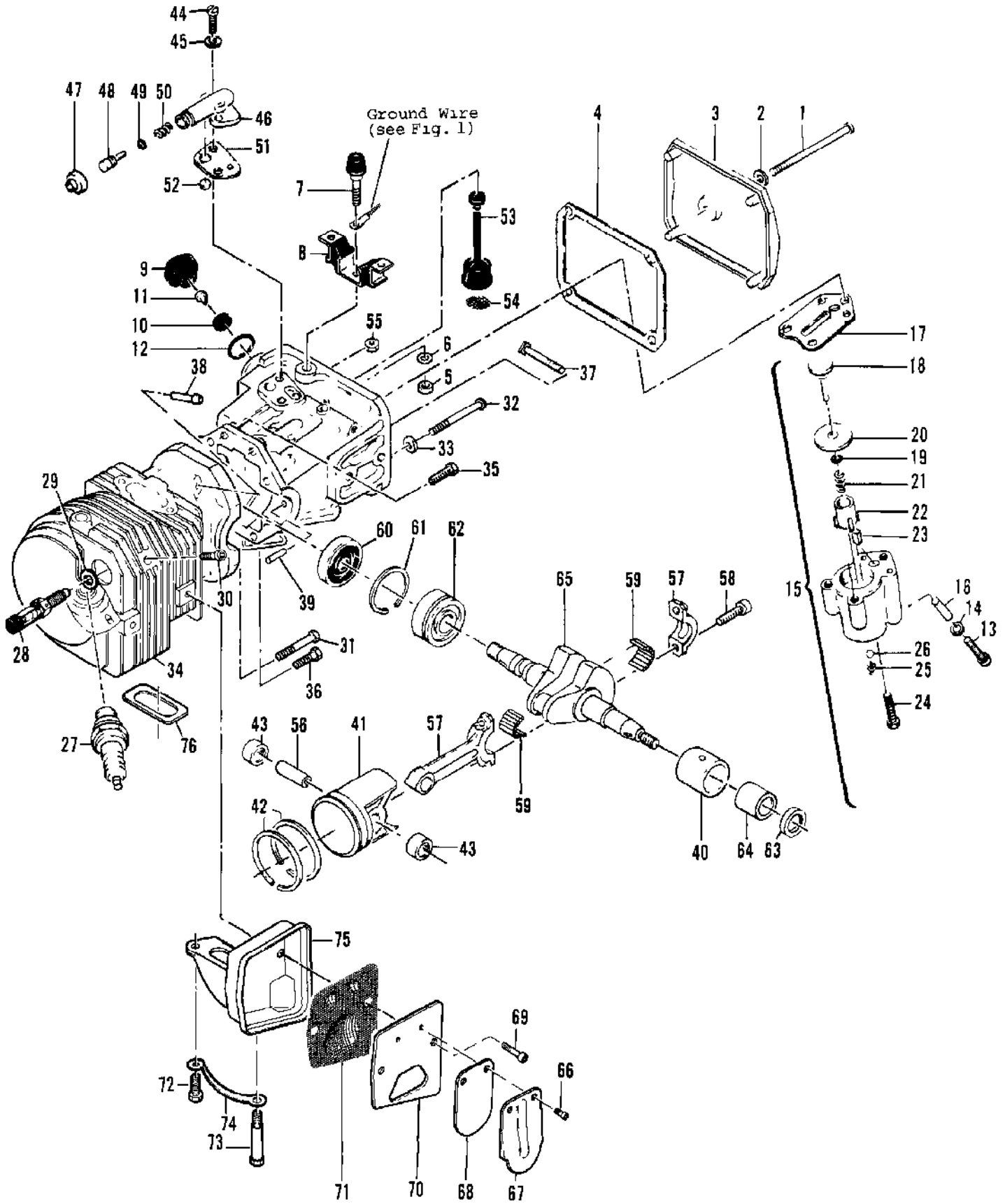


Ref #	Part Number	Qty	Description
1	110894	2	Screw - Hx hd 10-24 x 2-1/8
2	110964	2	Washer
3	69952	1	Bracket - Air Cleaner
4			Carburetor Asy See "Carburetor Assembly (Zama C-2)", "Carburetor Assembly (SDC 38A)" and "Carburetor Assembly (HS 111A)" illustration and parts list.
5	86189	1	Gasket - Carburetor
6	69629	1	Boot - Carburetor controls
6	85901	1	Boot - Carburetor controls
7	64848	1	Hose Assembly - Fuel
8	63932	1	Filter - Fuel
9	100440	1	Washer
10	67944	1	Spring - Hose
11	86273	1	Screw -Idle speed
12	92903	1	Rod - Oiler
13	105673	2	Pin - Roll 3/32 x 9/16
14	63044	1	Button - Oiler
15	69630	1	Button - Choke
16	69631	1	Rod - Choke
17	69597	2	Boot - Control rod
18	69043	1	Snubber - Rod
19	110706	1	Screw - Fil hd 8-18 x 1/2
20	83661	1	Wire Asy - Stop switch
20	92888	1	Wire Asy - Stop switch
21	62451	1	Contact - Switch
22	62950A	1	Base - Switch
23	68846	1	Button - Switch
24	94025	1	Tank/Control Asy
25	89320	1	Insert - Handle grip
26	92155	1	Rod - Throttle
27	105654	1	Pin - Roll 1/8 x 7/8
28	92154	1	Spring - Trigger release
29	94275	1	Release Asy - Trigger
30	111012	1	Screw - Pan hd 4-40 x 5/16
31	110378	1	Pin - Roll 3/16 x 15/16
32	92152	1	Spring - Trigger
33	92151A	1	Trigger - Throttle
	87821		Carburetor Asy
	93789		Carburetor Asy
	85916		Carburetor Asy



Ref #	Part Number	Qty	Description
1	110961	2	Nut - Hx 5/16-24
2			CHAIN BRAKE See "Chain Brake Assembly" illustration and parts list.
3	64325	1	Plate - Bar protector
4		1	Chain Asy
5		1	Bar Asy
6	86113	1	Nut - Hx 3/8-24 (L.H.)
7	87675	1	Clutch Asy
8	89438	1	Rotor - Clutch
9	67233	1	Kit - Clutch shoe
10	83223	2	Spring - Clutch
11	64583	2	Retainer - Clutch spring
12	95166	1	Kit - Drum & Sprocket 7 T .375P
13	86145	1	Sprocket
14	86958	1	Washer - Sprocket
15	110971	1	Bearing - Sprocket
16	84978A	1	Shield - Sawdust
17	93037	1	Screw - Frame Brace
18	102130	1	Screw - Hx 1/4-20 x 1-1/2
19	100153	1	Lockwasher - 1/4
20	63484	1	Clamp - Frame
21	104395	2	Screw - Pan 10-24 x 5/8
22	103353	2	Screw - Hx hd 10-24 x 1-1/2
23	93736	1	Clamp - Frame
24	101191	2	Nut - Hx Lock 10-24 x 5/8
25	83828A	1	Wire Asy - Ground
26	92701	1	Clamp - Bottom
27	92700	1	Clamp - Top
27	93932	1	Clamp - Top
28	93096	1	Screw - Shoulder
29	94114	1	Washer - 1/4
30	92703	1	Hub - Mount
31	92704	1	Mount
28	110679	1	Screw - Hx hd 1/4-20 x 2
29	110845	1	Washer - Plain
30	84661	1	Grommet
31	85898	1	Mount
32	92698	1	Frame & Grip Asy
33	92707	1	Frame & Grip Asy
34	92696	1	Brace - Frame
35	93032	1	Grommet - Frame Brace
36	89403	2	Bumper - Lower
37	85850A	1	Cover Asy - Air cleaner
38	110565	1	Ring - Retaining
39	68529	1	Knob - Cover
40	93170	1	Nameplate
41	85387	1	Filter - Air
42	110741	3	Screw - Pan hd 10-24 x 1/2
43	87871	3	Screw - Special
44	102762	1	Screw - Hx hd 10-24 x 1/2
45	69890	1	Lockplate
46			Fan Housing & Starter Asy See "Fan Housing & Starter Asys." illustration and parts list.
47	89322	1	Cap Asy - Fuel

Ref #	Part Number	Qty	Description
48	69767	1	Gasket
49	110746	2	Screw - Hx hd 10-24 x 1/2
50	102861	2	Screw - Hx hd 1/4-20 x 5/8
51	100153	2	Lockwasher - 1/4
52	100005	2	Washer - 1/4
53	110807	2	Screw - Pan hd 8-32 x 5/16
54			Fuel Tank Asy See "Fuel Tank Assembly" illustration and parts list.
55	87826	2	Clamp - Hose
56	69598	1	Line - Pulse
57	67944	1	Spring - Hose
58			Flywheel & Ignition System See "Flywheel & Ignition System" illustration and parts list.
59			Powerhead & Oiler Asys See "Powerhead & Oiler Assemblies" illustration and parts list.
60			Muffler Asy See "Powerhead & Oiler Assemblies" illustration and parts list.



Ref #	Part Number	Qty	Description
1	110291	1	Screw - Pan hd 10-24 x 2-5/8
2	110921	1	Washer - Sealing
3	86304	1	Cover - Oil tank
4	86306	1	Gasket - Cover
5	101143	1	Nut - Hx 1/4-20
6	102523	1	Washer - 1/4
7	69832	1	Bumper - Front
8	91582A	1	Mount - Front
8	93926	1	Mount - Front
9	87270	1	Cap - Oil tank
10	87269	1	Retainer - Valve
11	86402	1	Valve
12	101148	1	"O" Ring
13	110865	1	Screw - Skt hd 10-24 x 7/8
14	100003	1	Washer - #10
15	89115B	1	Pump Asy - Pulse
16	91774	1	Sleeve
17	92818		Seal - Pulse pump
18	60260B	1	Piston Asy - Pump
19	105603	1	"O" Ring
20	86182	1	Ring - Piston
21	60259	1	Spring - Piston
22	62227	1	Sleeve - Adjustment
23	91259	1	Pad - Oil pump
24	110386	1	Screw - Hx hd 8-32 x 1
25	92844	1	Spring - Outlet valve
26	102809	1	Ball - Outlet valve
27	63097	1	Spark Plug Used on models 600439A.
27	63432	1	Spark Plug Used on models 600439D, 600439F and 600439J.
27	93017	1	Spark Plug Used on models 600439B and 600439E.
28	94273	1	Valve - DSP
29	85505	1	Washer - Valve
30	110681	1	Screw - Skt hd 10-24 x 1/4
31	110644	1	Screw - Hx hd 8-32 x 1-1/2
32	62106	4	Screw Asy - Sealing
33	62842	4	Washer - Sealing
34	95167	1	Kit - Cyl., C' case, piston
35	110288	2	Screw - Hx hd 8-32 x 3/4
36	110963	1	Screw Hx hd 8-32 x 1W
37	62065	2	Bolt - Bar mounting
38	69600	1	Nipple - Pulse line
39	110851	1	Pin - Dowel
40	87152	1	Insert - Bearing
41	92518	1	Piston Asy "A"
	92519	1	Piston Asy "B"
	92520	1	Piston Asy "C"
42	87854	1	Ring Set - Piston
43	111021	2	Bearing - Needle
44	110338	2	Screw - Pan hd 8-32 x 1/2
45	110613	2	Washer - #8
46	84156	1	Housing - Pump
47	62262	1	Cap - Housing
48	92902	1	Plunger - Pump
49	105614	1	"O" Ring

Ref #	Part Number	Qty	Description
50	66687	1	Spring - Pump
51	91669	1	Gasket - Pump
52	91668	1	Valve - Pump
53	91672	1	Hose - Oil
54	51506	1	Screen - Hose
55	100955	1	Nut - Hex 8-32
56	69020	1	Pin - Piston
57	85237	1	Connecting Rod Asy
58	61627A	2	Screw - Special
59	85246	1	Roller - (set of 22)
60	61618	1	Seal - Oil
61	63464	1	Ring - Snap
62	63429B	1	Bearing - Ball
63	110260	1	Seal - Oil
64	104357	1	Bearing - Needle
65	92885	1	Crankshaft
66	110563	2	Screw - Skt hd 8-32 x 1/4
67	87193	1	Stop - Reed
68	85585A	1	Valve - Reed
69	101563	2	Screw - Skt 10-24 x 1-1/4
70	93016A	1	Cover - Spark Arrester
71	93014	1	Baffle - Spark Arrester (A)
72	110529	1	Screw - Hx hd 10-24 x 1/2
73	84578	1	Screw - Special
74	84579	1	Plate - Lock
75	93011	1	Body & Duct Asy
76	84577A	1	Gasket - Muffler
	87151		Needle Insert/Bearing Asy
	92519		Piston Assembly