

ILLUSTRATED PARTS LIST

MODELS	SERIAL NUMBER PREFIX	MODELS	SERIAL NUMBER PREFIX
600018B	11-, 13-, 14-	600018H	14-, 15-
600018C	11-, 13-, 14-	600018K	11-, 12-, 13-, 14-, 15-, 16-
600018D	15-	600018P	11-, 13-, 14-, 15-
600018E	11-, 13-, 14-	600018U	11-, 13-, 14-, 15-, 16-
600018F	11-, 13-, 14-		
600018G	14-, 15-, 16-		

McCulloch chain saws are identified by a model number (in this instance, 600018) 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 the manufacture of the saw.

Part numbers listed in this IPL which have a suffix letter or letters following the description, indicate the part is used only on the model(s) identified by the letter or letters.

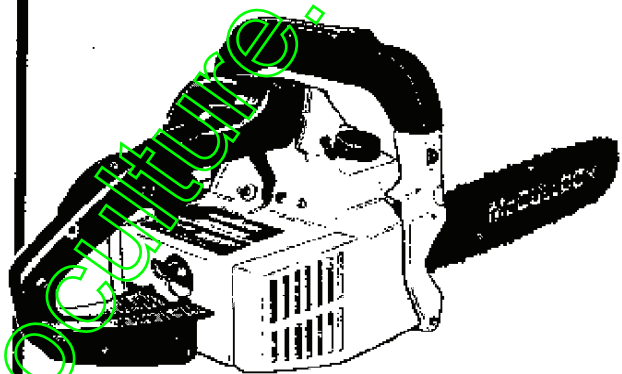
Part numbers and descriptions without suffix letter or letters apply to all versions of the chain saw model.

Part numbers which have one or more dots (.) preceding their descriptions may be ordered individually, but they are also included in the kit or assembly whose description begins directly above the dot(s).

Part numbers in this IPL which were not in the previous IPL covering these saws, are indicated by a dash (-) preceding the new part number.

The policy of McCulloch Corporation is one of continual improvement in design, manufacturing and engineering advancement 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.

Pro Mac 510 Chain Saw



September 1982

- CONTENTS -

	PAGE
Figure 1. General.....	2
Figure 2. CHAIN BRAKE Assembly.....	4
Figure 3. Handle & Frame Assembly.....	4
Figure 4. Starter Assembly.....	6
Figure 5. Powerhead Assembly.....	8
Figure 6. Carburetor.....	10
Figure 7. Carburetor.....	10
Bar & Chain Combinations.....	3
Tools & Accessories.....	7
Service Specifications.....	7


McCULLOCH

215288-E

(This IPL supersedes & replaces IPL, P/N 95811)

Pro Mac 510

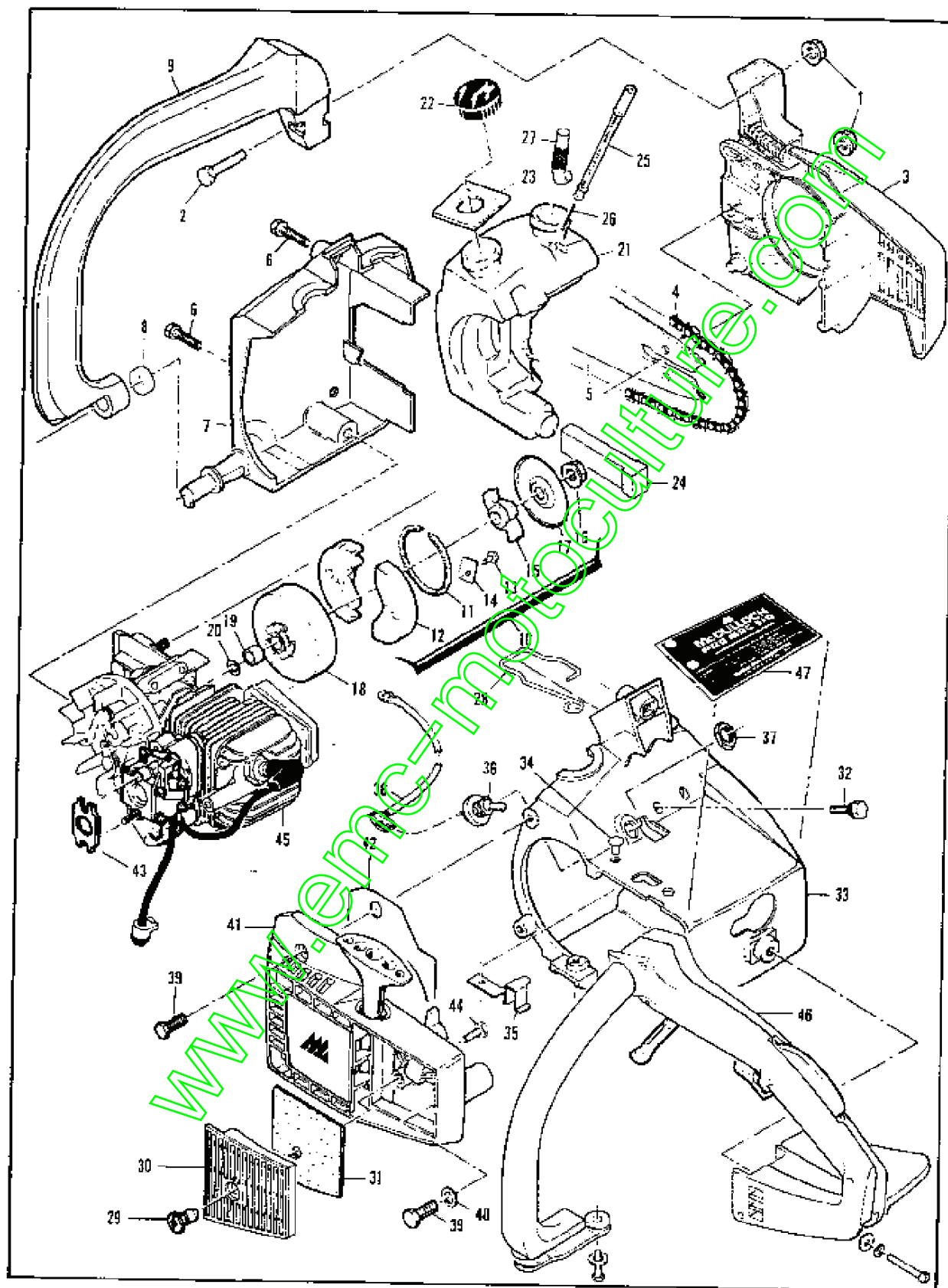


Figure 1. General

Pro Mac 510

Figure 1. General

ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.	ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.
1	110676	Nut-Hx 1/4-28	2	23	91148	. Seal-Fuel vent	1
2	110972	Screw-Hx 1/4-28 x 3/4	1	24	84956	. Pickup-Fuel	1
3		CHAIN BRAKE ASY (Figure 2)		25	83900A	. Piston-Pulse Oiler	1
4		Chain Asy (Below)	1	26	83946	. Spring-Piston	1
5		Bar (Below)	1	27	85557	. Body-Oiler	1
6	110639	Screw-Hx hd 12-24x1	2	28	93295	Rod-Oiler	1
7	214718	Cover-Fuel & Oil tank	1	29	89070	Nut-Air cleaner cover	1
8	93194A	Washer-Rubber	1	30	89069	Cover-Air cleaner	1
9	92480	Lever-Handguard	1	31	214346	Filter-Air	1
10	213278 ①	Clutch Kit	1	32	110953	Screw-Hx hd 12-24 x 5/8	3
11	93608	. . Spring Asy	1	33	213822 ④	Shroud/Latch Asy	1
12		. . Shoe-Clutch	2	34	111007 ④	. Rivet	1
13	110957	. . Rivet	2	35	93912 ④	. Spring-Throttle latch	1
14	85064	. . Plate	2	36	92649	Kit-Ignition switch	1
15	94242 ②	. . Rotor	1	37	104810	. Nut-Hx 15/32-32	1
15	94247 ①	. . Rotor Kit	1	38	69344	Wire Asy-Ignition	1
16	94244 ③	. . Nut-Clutch	1	39	110953	Screw-Hx hd 12-24 x 5/8	3
17	94243 ②	. . Plate-Dust	1	40	110432	Washer	1
19	67650	Bearing-Spkt (B,C,F,K,P,U)	1	41		Starter Asy (Fig. 4)	
18	95646	Drum/Spkt/Brg Asy - . 375P (E, G)	1	42	93236	Deflector-Air	1
19	91222	. Kit-Needle brng (E, G)	1	42	94342	Gasket-Starter housing	1
20	67303	Washer-Sprocket (B,C,F,K,P,U)	1	44	102762 ⑤	Screw-Hx hd 10-24 x 1/2	2
21	217761	Tank Kit-Fuel & Oil	1	45		Powerhead Asy (Fig. 5)	
22	216668	. Cap-Fuel & Oil (unvented)	2	46		Handle & Frame Asy (Fig. 3)	
				47	93383 ②	Plate-Name	1
				47	95204 ④	Plate-Name	1
				47	93908	Plate-Name, French (E)	1

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

② Used on models with serial number prefix 14- and 15-.

③ Used on models with serial number prefix 11-.

④ Used on models with serial number prefix 12-, 13-, 14-, 15- and 16-.

⑤ Used on models with serial number prefix 13-, 14-, 15- and 16-.

Bar & Chain Combinations

91663	Bar - 14" Mini Pro (B)
92625N	Chain - SM250GL (B)
-214345	Bar - 16" Mini Pro (C, F, K, P, U)
-214239N	Chain - SM250GL (C, F, K, P, U)
-214236	Bar - 16" Mini Pro (G)
-214241	Chain - MP370G (G)

Pro Mac 510

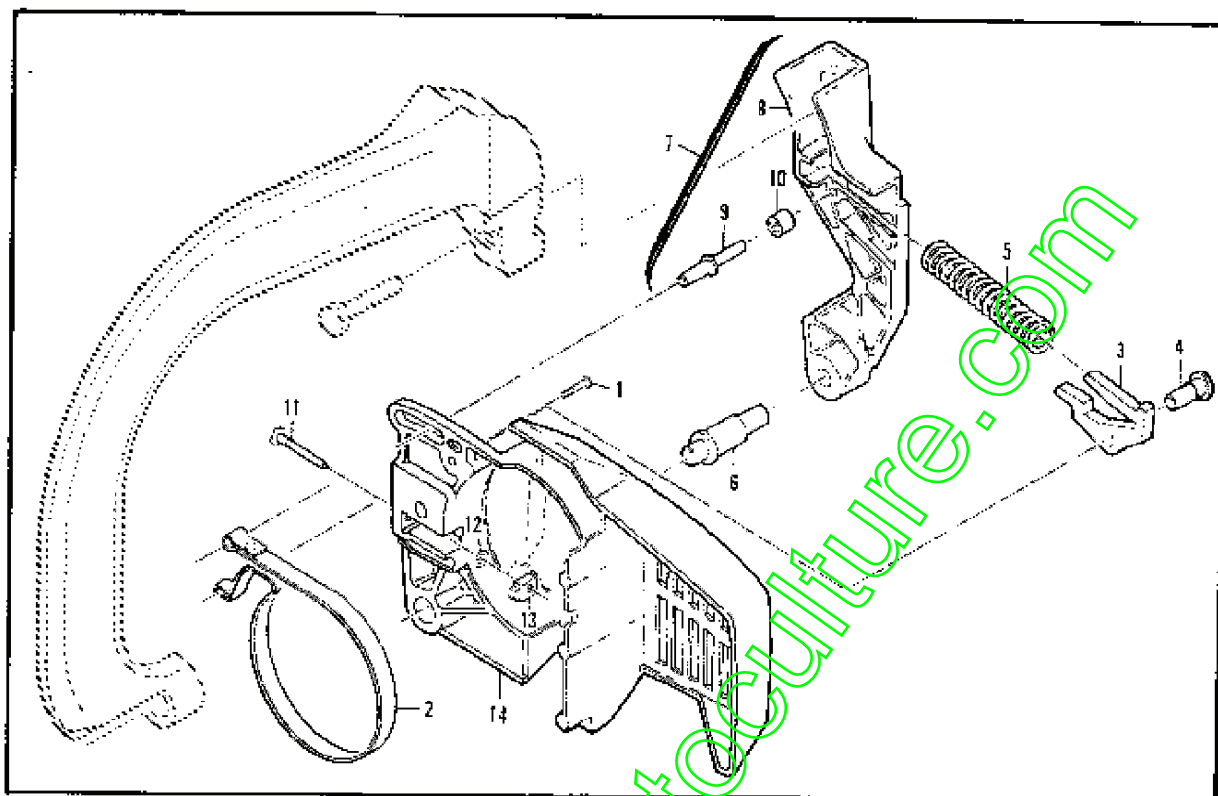


Figure 2. CHAIN BRAKE Assembly

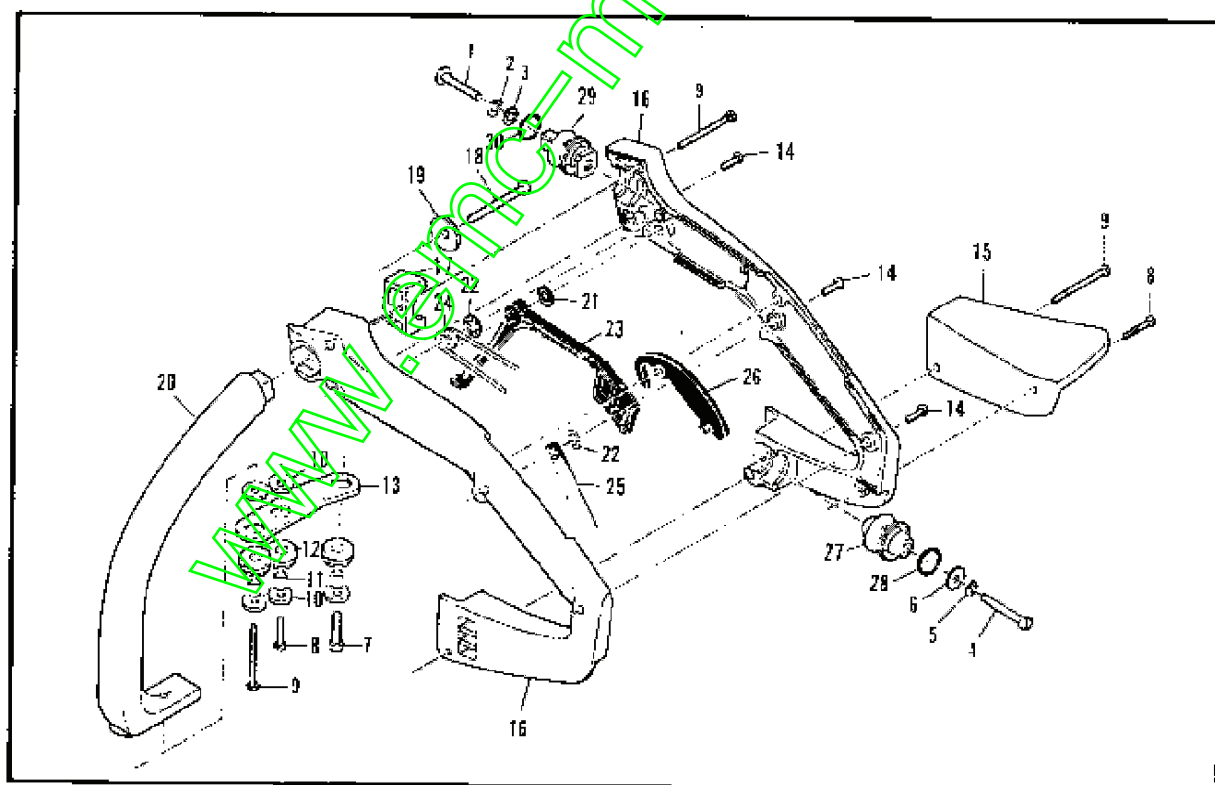


Figure 3. Handle & Frame Assembly

Pro Mac 510**Figure 2. CHAIN BRAKE Assembly**

ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.
	216320	CHAIN BRAKE Asy	1
1	111047 ①	Screw-FIT8-32 x 5/8	1
2	94709 ②	Band-Brake	1
2	92487 ③	Band-Brake	1
3	94006 ②	Latch	1
3	93092 ③	Latch	1
4	93602	Pivot - Latch	1
5	94007 ②	Spring-Compression	1
6	93140 ②	Spring-Compression	1
6	92482	Pivot-Lever	1

ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.
7	214375	Lever Asy-Actuating	1
8	92867	Lever	1
9	213907	Pin-Roller	1
10	214368	Bearing-Roller	1
11	90658	Screw-Adjusting	1
12	110907	Ring-Retaining	1
13	84929	Nut-Bar Adj.	1
14	216434 ③	Housing-Brake	1

① Not used on some early models.

② Used on models with Screw, P/N 111047.

③ Used on models without Screw, P/N 111047.

Figure 3. Handle & Frame Assembly

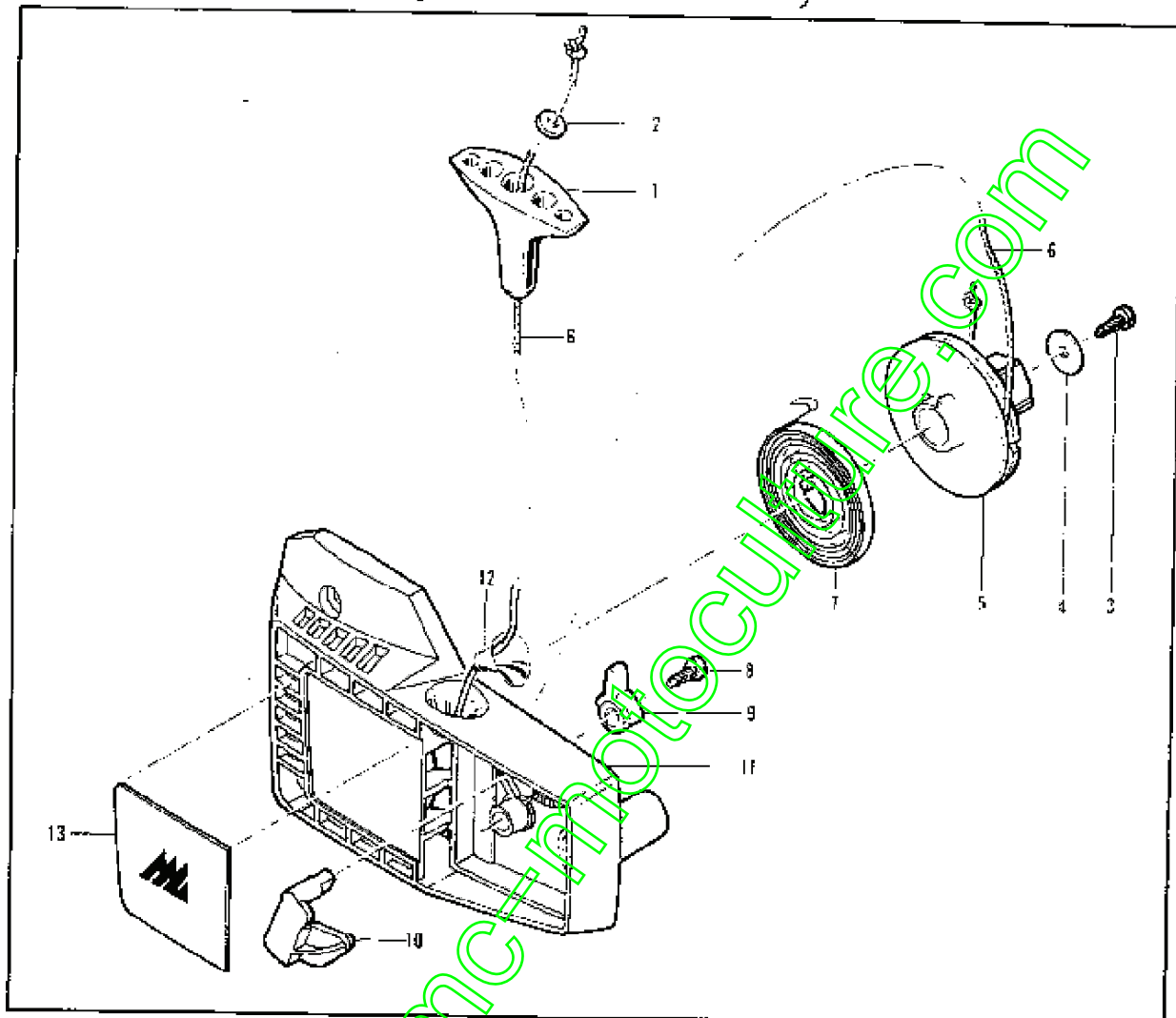
ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.
1	103270	Screw - Fit 1/4-20x1-1/2	1
2	105043	Washer - Spring Lock	1
3	100005	Washer	1
4	102208	Screw - Fit 1/4-20x1-3/4	1
5	105043	Washer - Spring Lock	1
6	110870 ①	Washer	1
	93060A	Kit - Handle and Frame	1
7	110981	Screw-Pn 12-24 x 13/16	1
8	111011	Screw - Pn 10-16 x 1/8	2
9	110977	Screw-Pn 10-16 x 1-5/8	1
10	110882	Washer	5
11	93057	Spacer Mount	1
12	110989	Bracket	1
13	93031	Link Mount	1
14	110978	Screw-Pn 8-16 x 5/8	1
15	93026	Guard - Chain	1

ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.
16	94054	Kit - Handle	1
17	93030	Insert - Handle	1
18	110976	Screw - Pn 1/4 - 14 x 1-3/4	1
19	110870	Washer	1
20	94052	Frame	1
21	110960	Washer - Wavey	1
22	110936	Retainer - Spring	2
23	216083	Trigger - Throttle	1
24	90606	Spring - Trigger	1
25	90615	Spring - Trigger release	1
26	91504	Release - Trigger	1
27	91171	Mount	1
28	105615	"O" Ring	1
29	91170	Mount Asy	1
30	105615	"O" Ring	1

① Used on models with serial number prefix 11-.

Pro Mac 510

Figure 4. Starter Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.
	213260	Starter Assembly	1
1	91255	. Kit - Starter handle	1
2	105490	. Washer	1
3	110041	. Screw - Pan hd 8-32 x 1/2	1
4	68497	. Washer	1
5	213260	Drum/Rope Assembly	1

ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.
6	83203	. Rope-Starter	1
7	83078	. Spring-Rewind	1
8	110041	. Screw-Pan hd 8-32 x 1/2	1
9	91182	. Lever-Choke	1
10	91183	. Plate-Choke	1
11	94148	. Housing-Starter	1
12	67571	. Guide-Rope	1
13	91570	. Plate	1

Pro Mac 510

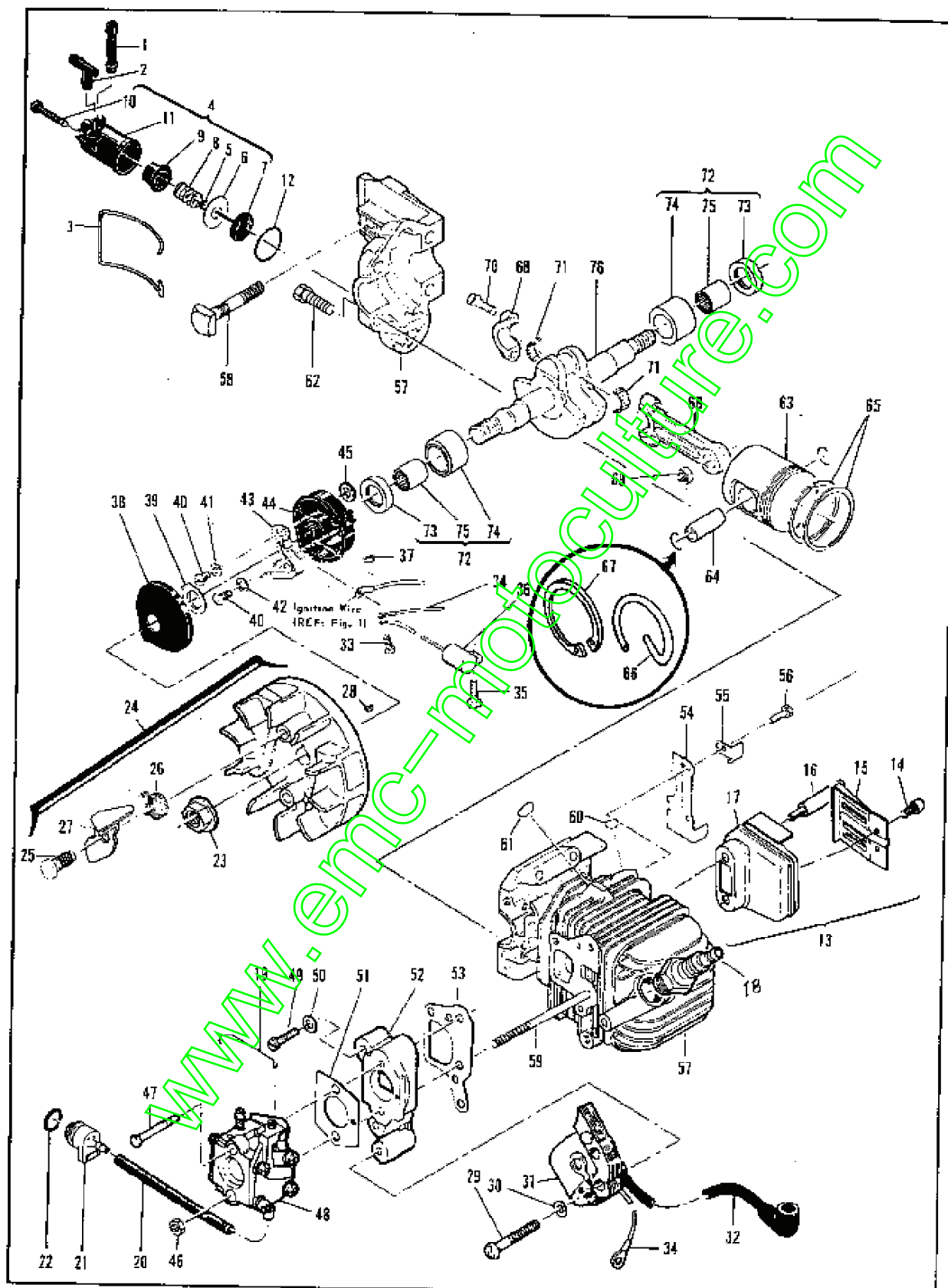


Figure 5. Powerhead Assembly

Pro Mac 510

Figure 5. Powerhead Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.	ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.
1	217168	Connector - Outlet	1	40	110969	Screw - Hx hd 8-32 x 1/2	2
2	217168	Connector - Pump	1	41	69322	Washer - Special	1
3	217167	Bail - Mounting	1	42	105976	Washer - #8	1
4	216569	Pump Assembly - Pulse	1	43	80811	Breaker Assembly	1
5	105603	"O" Ring	1	44	94505A	Kit - Breaker box	1
6	85769	Ring - Pump piston	1	45	92037	Washer	1
7	92204	Piston Assembly - Pump	1	46	105367	Nut - Hx 10-24	1
8	83891	Spring - Pump	1	47	110614	Screw - Hx hd 10-24 x 2-3/8	1
9	83890	Sleeve - Pump	1	48		Carburetor Assembly (Figures 6, 7)	1
10	110651	Screw - Adjustment	1	49	110652	Screw - Pan hd 8-32 x 1-1/8	1
11	83887	Body Assembly - Pump	1	50	100080	Washer - #8	1
12	110653	"O" Ring	1	51	89057	Gasket - Carburetor	1
14	110681	① Screw - Skt hd 10-24 x 1/4	2	52	214352	Insulator	1
15	92961	① Deflector - Exhaust	1	53	89054	Gasket - Insulator	1
13	215411	② Kit - Muffler	1	54	89643A	Shield	1
14	110681	② Screw - Skt hd 10-24 x 1/4	2	55	93353	Deflector - Sawdust	1
15	92961	② Deflector - Exhaust	1	56	110674	Screw - Hx hd 10-24 x 1/2 s/t	2
18	93017	Spark Plug (J, C, E, F, H)	1	57	93764	③ Cylinder/C'case Assembly	1
19	89060	Rod - Throttle	1	58	94143	④ Bolt - Bar mounting	1
20	89059	Hose - Fuel	1	59	94143	⑤ Stud	1
21	90660	Adapter - Fuel hose	1	60	110914	⑥ Plug - Cup	2
22	110908	"O" Ring	1	61	111024	⑦ Plug - Cup	2
23*	110961	Nut - Hx 5/16-24	1	62	110639	Screw - Hx hd 12-24 x 1	4
24	94737	③ Flywheel Pawl Assembly	1	63	91701	⑧ Piston Assembly	1
25	68796	④ Pin - Pawl	2	64	88126	⑨ Pin - Piston	1
26	67814	⑤ Spring - Pawl	2	65	91703	⑩ Ring Set - Piston	1
27	91272	⑥ Pawl - Starter	2	66	92023	⑪ Ring - Retaining	2
25	68796	④ Pin - Pawl	2	67	94661	⑫ Piston Assembly	1
26	67814	⑤ Spring - Pawl	2	68	92836	⑬ Pin - Piston	1
27	94493	⑥ Pawl - Starter	2	69	91703	⑭ Ring Set - Piston	1
28	102164	Key - Woodruff	1	70	92023	⑮ Ring - Retaining	2
29	110586	Screw - Pan hd 8-32 x 1-3/4	2	71	111026	⑯ Ring - Snap	2
30	100080	Washer - #8	2	72	91705	⑰ Connecting Rod Assembly	1
31	84957	Coil & Lamination	1	73	110933	⑱ Bearing - Caged	1
32	215351	Wire Assembly - Spark plug	1	74	66853	⑲ Screw - Special	2
33	110617	Screw - Pan hd 6-32 x 3/4	1	75	68095	⑳ Roller - Needle (set of 20)	1
34	69344	Wire Assembly - Coil	1	76	94135	㉑ Connecting Rod Assembly	1
35	110014	Screw - Pan hd 8-32 x 1/2	1	77	110924	㉒ Bearing - Needle	1
36	85358	Condenser	1	78	94654	㉓ Screw - Connecting rod	2
37	100035	Nut - Hx 6-32	1	79	68095	㉔ Roller - Needle (set of 20)	1
38	67841	Cover - Breaker box	1	80	93763	㉕ Sleeve Assembly - Bearing	2
39	69323	Seal - Breaker box	1	81	83859	㉖ Seal - Oil	2
				82	91566	㉗ Sleeve Assembly - Bearing	2
				83	83859	㉘ Seal - Oil	2
				84	91422	㉙ Sleeve	2
				85	213282	㉚ Bearing - Needle	2
				86	91932	Crankshaft	1

* Flywheel nut torque should be 190 to 200 pound x inches (21.5 to 22.6 N.m).

① Used on models with serial number prefix 15- and 16-.

② Used on models with serial number prefix 11-, 12-, 13-, and 14-.

③ Used on models with black Drum/Rope Assembly, P/N 92316.

④ Used on models with white Drum/Rope Assembly, P/N 213261.

⑤ Used on models with serial number prefix 11-, 12-, and 13-.

⑥ Used on models with serial number prefix 11- and 12-.

⑦ Used on models with serial number prefix 13-.

⑧ Used on models with serial number prefix 14-, 15- and 16-.

⑨ One of two types of piston pin retainers used on models with serial number prefix 14-. Replacement retainers must be the same type that the piston was originally equipped with. Identify the retainer before ordering parts.

Pro Mac 510

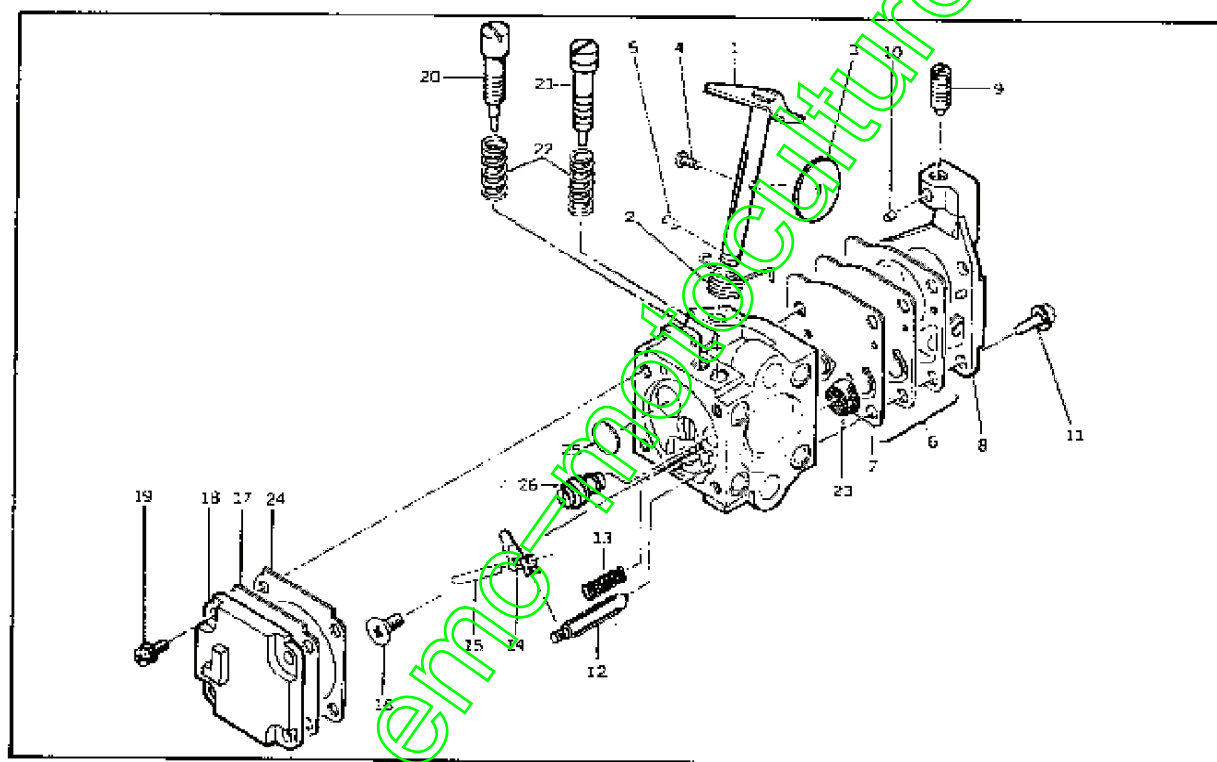


Figure 6. Carburetor Assembly

Pro Mac 510

Figure 6. Carburetor Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.
	-93766	Carburetor Asy (Zama)	1
1		. Shaft Asy-Throttle	1
2		. Spring-Throttle return	1
3		. Plate-Throttle	1
4		. Screw-Plate (m3)*	1
5		. "E" Ring	1
6	① ②	. Kit-Diaphragm & Gaskets	1
7	① ②	. . Diaphragm-Fuel pump	1
8		. Cover-Fuel pump	1
9		. Screw-Idle speed	1
10		. Insert-Friction	1
11		. Screw-Pump cover (m4)*	4
12	②	. Needle-Inlet	1
13	②	. Spring-Lever	1
14	②	. Lever-Inlet needle	1

ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.
15	②	. Pin-Lever	1
16		. Screw-Lever pin (m3)*	1
17	① ②	. Diaphragm Asy-Metering	1
18		. Cover-Diaphragm	1
19		. Screw-Diaphragm cover (m3)*	4
20	③	. Needle-Idle mixture	1
21	③	. Needle-High speed	1
22	①	. Spring-Needle	2
23	②	. Screen-Filter	1
24	②	. Gasket-Metering diaphragm	1
25	②	. Welch Plug	1
26	②	. Orifice-Main fuel	1

① Contained in Gasket/Diaphragm Kit, P/N 217009

② Contained in repair kit, P/N 217081

③ Contained in needle kit, P/N 216803

— 300 467

Pro Mac 510**Tools & Accessories**

PART NUMBER	DESCRIPTION
91735	Kit - Spike
T10928	. Screw Hx hd T0-24 x 1/2
95169	Kit - Spark Arrester
91485	Wrench - Socket
85687	Wrench - Screwdriver
88755	Scrench
93284	Case - Carrying, 14"
92913	. Bar Guard 14"
93090	Guide - Timing
90256	Kit - Tune-up
93285	Case - Carrying, 16"
92896	. Bar Guard 16"

PART NUMBER	DESCRIPTION
-214215	Guide - File
93900	Kit - Pressure Test
90533	Tool - Pressure Test
501334	Tester - Ignition
-214194	Lubri - Gun
85702	Lubricant - Custom, 6 oz. can
85703	Lubricant - Custom, 6 oz. cans
	1-6 pack
67537	Loctite
69794	Loctite
T10083	R.T.V. Sealant
-214211	Kit - Tool Maintenance

Service Specifications

Displacement	2.3 cu. in. (38 cc)	Timing	260 B.T.D.C.
Bore and Stroke	1.562 x 1.201 in. (39.68 x 30.51 mm)	Carburetor	Diaphragm Type, 2 needle adjustment
Bearings	Main: Needle Con Rod: Needle	Fuel Type	Regular Grade, leaded
Intake System	3rd Port, Piston Tinned	Fuel - Oil Mixture	40:1 w/McCulloch Oil
Fuel Tank Capacity	11.8 fl. oz. (320 cc)	Fuel Filtering System	Felt Fuel Filter
Chain Oiler Capacity	3.2 fl. oz. (95 cc)	Air Filtering System	Felt Air Filter
Clutch Engaging Speed	3800 to 4100 R.P.M.	Piston Rings	2 Cast Iron Compression Rings
Idle Speed	2700 to 2900 R.P.M.	Spark Plug Gap	.025 in. (.635 mm)
Ignition	Magneto	Weight (Power Unit Only)	10.6 lbs. (4.8 kg)
Breaker Point Gap	.018" (.457 mm)		
Lamination Gap	.008 to .012" (.203 to .304 mm)		