McCULLOCH

# SERVICE BULLETIN

NO. 1646

MODEL Pro Mac 510 Chain Saws DATE July 1, 1977

SUBJECT Model Number 600018 (11-)

Pro Mac 510 chain saws now being manufactured are identified by Model Number 600018 and Serial Number Prefix 11-. The Illustrated Parts List for this model is P/N 93371. Your distributor should provide you with a copy of this IPL in the near future if he has not already done so.

The Pro Mac 510 is an improved SP 40 model with the following new features.

A redesigned CHAIN BRAKE assembly has been added which includes a wraparound brake lever/handguard and an extended brake housing which completely covers the muffler as well as the clutch assembly.

Clutch Assembly, P/N 92743B, which includes Rotor, P/N 92721A, has been designed specifically for use with the new CHAIN BRAKE. The rotor arms have been ground at an angle to reduce sawdust packing between the arms and the clutch shoe. Only Clutch Assembly, P/N 92743B, can be used when servicing units with the redesigned CHAIN BRAKE.

A "C" ring has been added to the clutch spring which increases the clutch engagement speed and allows for easier carburetor adjustment at idle speed.

The shock-mounted Handle assembly has been redesigned with lighter-weight materials and improved mounting to provide better cushion from vibration.

A louvered muffler is now a standard feature and has been designed to fit under the brake housing.

A manual oiler rod has been added to the unit.

NOTE: The following changes have been made to the Pro Mac 510 since the completion of this IPL and should be noted in your copy.

1. Figure 1, Item 10, Clutch Assembly, change P/N 92743 to P/N 92743B.

2. Figure 1, Item 11, Clutch Spring Asy, change P/N 93068 to P/N 93608.

3. Figure 1, Item 15, Rotor, change P/N 92721 to 92721A.

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4. Bar and Chain Combinations, Suffix letter "U" should be moved from P/N 91663 and P/N 92625N and placed after P/N 91615 and P/N 92622N and their respective descriptions.

5. Figure 2, Item 4, Latch pivot, change P/N 92485 to P/N 93602.

6. Figure 5, Item 14, Screw, change quantity from 1 to 2.

7. Figure 5, Item 16, Screw, change quantity from 1 to 2.

8. Figure 5, Item 55, Shield, change P/N 89648 to P/N 89648A.

9. Accessories, Spark Arrester Kit, change P/N 89685 to P/N 85933.

Information concerning those parts used in the Pro Mac 510, Model Number 600018, Serial Number prefix 11-, which differ from the SP 40 is presented in the following table.

| IPL Location | Part Number | Description | Qty. | Mfg. Sugg. List Price | Stock Code |
|---|---|---|---|---|---|
| Fig. 1 | 110972 | Screw-Hx 1/4-28 x 3/4 | 1 | .10 | A |
| " | 92863 | Cover-Fuel & Oil Tank | 1 | 8.00 | A |
| " | 93194 | Washer-Rubber | 1 | .20 | A |
| " | 92480 | Lever-Handguard | 1 | 3.50 | A |
| " | 92743B | Clutch Asy | 1 | 11.20 | A |
| " | 93608 | . Spring Asy-Clutch | 1 | 1.25 | A |
| " | 92721A | . Rotor | 1 | 2.85 | A |
| " | 90150B | Drum/Spkt/Bearing . Asy .375P (E) | 1 | 6.55 | A |
| " | 91222 | . Kit-Needle brng.(E) | 1 | 1.25 | A |
| " | 93295 | Rod-Oiler | 1 | .75 | A |
| " | 93236 | Deflector-Air | 1 | 1.00 | A |
| " | 93383 | Plate-Name | 1 | .60 | A |
| Fig. 2 | 92871 | CHAIN BRAKE Asy | 1 | 16.85 | A |
| " | 92862 | . Housing-Brake | 1 | 8.00 | A |
| " | 92487 | . Band-Brake | 1 | 1.25 | A |
| " | 93092 | . Latch | 1 | .55 | A |
| " | 93602 | . Pivot-Latch | 1 | .30 | A |
| " | 93140 | . Spring | 1 | .10 | A |
| " | 92482 | . Pivot-Lever | 1 | .35 | A |
| " | 93467 | . Lever Asy-Actuating | 1 | 6.50 | A |
| " | 92867 | . . Lever | 1 | 4.60 | A |
| " | 93139 | . . Pin-Roller | 1 | .65 | A |
| " | 93147 | . . Bearing-Roller | 1 | 1.00 | A |
| Fig. 3 | 93060 | Kit-Handle | 1 | 14.00 | A |
| " | 110981 | . Screw-Hx 12-24 x 13/16 | 1 | .10 | A |
| " | 110882 | . Washer | 1 | .15 | A |
| " | 110977 | . Screw-Pan 10-10 x 1 | 3 | .10 | A |
| " | 110998 | . Screw-Pan 10-16 x 3/4 | 1 | .10 | A |
| " | 110882 | . Washer | 4 | .15 | A |
| " | 93057 | . Spacer-Mount | 3 | .12 | A |
| " | 110989 | . Grommet | 3 | .15 | A |
| " | 93031 | . Link-Mount | 1 | .30 | A |
| " | 110978 | . Screw-Pan 8-16 x 5/8 | 4 | .05 | A |

| IPL Location | Part Number | Description | Qty. | Mfg. Sugg. List Price | Stock Code |
|---|---|---|---|---|---|
| " | 93026 | . Guard-Chain | 1 | 2.75 | A |
| " | 92986 | . Handle-Right hand | 1 | 2.75 | A |
| " | 93030 | . Insert-Handle | 1 | .50 | A |
| " | 110976 | . Screw-Pan 1/4-14 x 1-3/4 | 1 | .15 | A |
| " | 110870 | . Washer | 1 | .16 | A |
| " | 93033 | . Frame | 1 | 4.00 | A |
| " | 92985 | . Handle-Left hand | 1 | 2.75 | A |
| Fig. 4 | 93280 | Starter Asy | 1 | 9.50 | A |
| " | 110041 | . Screw-Pan hd 8-32 x 1/2 | 2 | .14 | A |
| Fig. 5 | 92962 | Kit-Muffler | 1 | 4.65 | A |
| " | 110681 | . Screw-Skt hd 10-24 x 1/4 | 2 | .25 | A |
| " | 93036 | . Screw-Special | 2 | .35 | A |
| " | 92961 | . Deflector-Exhaust | 1 | .25 | A |
| " | 92956 | . Body-Cover | 1 | 3.50 | A |
| " | 110969 | Screw-Pn hd 8-32 x 1/2 s/t | 2 | .15 | A |
| " | 110617 | Screw-Pan hd 6-32 x 3/4 | 1 | .06 | A |
| " | 110975 | Nut-Speed | 1 | .07 | A |
| " | 89648A | Shield | 1 | .25 | A |
| " | 93353 | Deflector-Sawdust | 1 | .30 | A |
| " | 110674 | Screw-Hx hd 10-24 x 1/2 s/t | 2 | .07 | A |
| Accessories | 92913 | Guard-Bar, 14" | A/R | 2.30 | A |
| " | 92896 | Guard-Bar, 16" | A/R | 2.70 | A |
| " | 85933 | Kit-Spark Arrester | A/R | 1.65 | B |
| " | 91735 | Kit-Spike | A/R | 1.45 | A |
| " | 110928 | . Screw-Hx hd 10-24 x 1/2 | A/R | .15 | A |

NOTE: Suffix letters denote variations in parts or assemblies in the manufacture of the saw. Domestic (U.S.) parts are identified by suffix letter "U".

McCULLOCH CORPORATION

Product Service Department