McCULLOCH

# SERVICE BULLETIN

NO. 1649

MODEL Mac 110, 120, 130, 140, Pro Mac 510 DATE July 1, 1977

SUBJECT 1. CHAIN BRAKE Assembly Service Information 2. Service Specifications

Disassembly

1. Carefully place the lever assembly into the engaged (forward) position.

2. Remove the spring (1) with a screwdriver.

WARNING: When handling the CHAIN BRAKE spring while it is under tension, wear safety glasses.

3. Remove the lever pivot pin (2) using a Mini Mac Pin Driver, P/N 68912, and a 10 Series Bearing Support, P/N 84160.

4. Remove the lever assembly (3).

5. Using a 5/32" drift and the bearing support, remove the latch pivot pin (4) and the latch (5).

6. Pull the top end of the band to inside of the housing and pry the anchor end of the band from the boss with a screwdriver. Rotate the band to completely remove from the housing.

Re-Assembly

NOTE: Use Loctite, P/N 67537, and Locquic, P/N 69794, on metal fasteners. Loctite is a highly recommended locking compound. Locquic causes Loctite to set up (harden) faster than if Loctite is allowed to set up at room temperature. Locquic is also a mild parts cleanser. Do not use Loctite or Locquic on fasteners which go into plastic. Follow the manufacturer's instructions when using these materials.

1. From the outside of the housing, start the top end of band through the hole on top of the housing until the anchor end rests on the housing, looping down. Slide the top end back through the hole.

2. Work the anchor end of the band into the cast-in grooves on the brake housing.

3. Position the latch with the open ends towards the front of the housing. Tap the latch pivot pin through the latch into the housing, using loctite and locquic on the mating surface only. All surfaces should be thoroughly cleaned.

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4. Position the lever assembly on the housing, with the roller pin (6) going through (not under) the latch, into the top end of the band and into the cast-in slot in the housing.

5. Tap the lever pivot pin into place using the Mini Mac pin driver. Use loctite and locquic, making certain all surfaces are thoroughly clean.

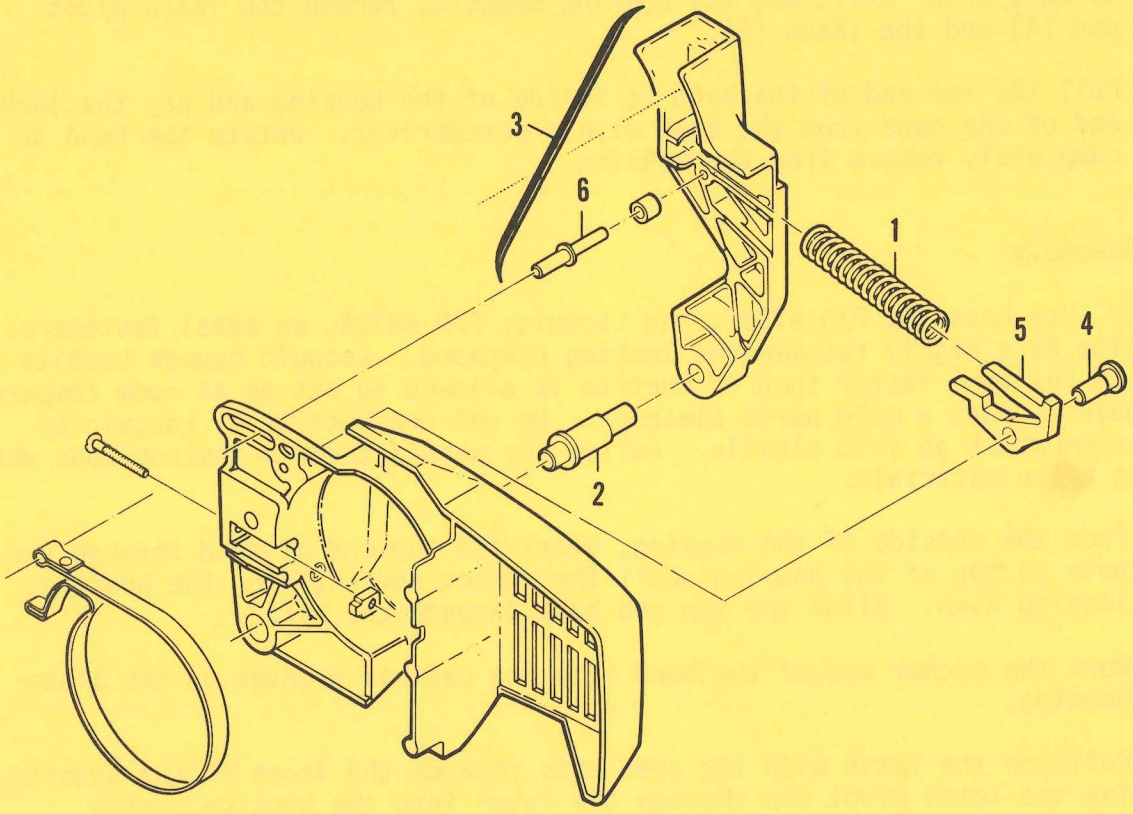
6. With the lever assembly in the engaged position (forward), place the spring over the latch and into the lever.

To replace the CHAIN BRAKE lever/handguard:

1. Remove the upper retaining nut and bolt.

2. Remove the two fuel tank cover retaining screws, then the cover and lever/handguard.

3. Pull the lever/handguard to the rear until the keyway in the lever lines up with the notch on the fuel tank cover. Remove the lever.



Service Specifications--Mac 110, 120, 130, 140

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|---|---|
| Cylinder (Mac 110, 120) | Aluminum Alloy bore-Chrome Alloy piston |
| Cylinder (Mac 130, 140) | Chrome Alloy bore-Aluminum Alloy piston |
| Displacement (Mac 110, 120) | 1.8 cu. in. (30 cc) |
| Displacement (Mac 130, 140) | 2.0 cu. in. (32 cc) |
| Clutch Engaging Speed | 3800 to 4200 R.P.M. |
| Engine Idle Speed | 2800 to 3200 R.P.M. |
| Breaker Point Gap | .018" (.457 R.P.M.) |
| Timing | 26° B.T.D.C. |
| Spark Plug Gap | .025" (.635 mm) |

Service Specifications--Pro Mac 510

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|---|---|
| Displacement | 2.3 cu. in. (38 cc) |
| Cylinder | Chrome Alloy bore-Aluminum Alloy piston |
| Clutch Engaging Speed | 3800-4100 R.P.M. |
| Engine Idle Speed | 2800-3200 R.P.M. |
| Breaker Point Gap | .018" (.457 mm) |
| Timing | 26° B.T.D.C. |
| Spark Plug Gap | .025" (.635 mm) |

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Product Service Department