McCULLOCH

SERVICE BULLETIN

NO. 1652

MODEL C.D.I. Electronic Ignition Models DATE September 1, 1977

SUBJECT Service Procedures for Electronic Ignition Assembly, P/N 92785

The following information concerns service procedures for the one piece McCulloch Electronic Ignition Assembly, P/N 92785, used on 10 series chain saws.

TROUBLESHOOTING:

1. Remove the spark plug from the engine and reconnect it into the spark plug boot. To be certain of an accurate test use a new spark plug.
2. Ground the spark plug on the engine, away from the spark plug hole.
3. Place the stop switch in the "ON" position.
4. Turn the engine over and watch for a blue-white spark across the plug electrode.

TROUBLESHOOTING WITH THE MERC-O-TRONIC ANALYZER (The following tests are the only procedures for which the Merc-O-Tronic Analyzer should be used.)

CAUTION: Testing with the Merc-O-Tronic Analyzer should be done in a well-ventilated area and away from open containers of gasoline or other flammable materials. Make certain the engine is wiped clean of fuel residue, the fuel cap is on tight, and all connections are made away from the fuel tank.

1. Make certain the Merc-O-Tronic control switch is in the "off" position.
2. Connect the large red lead to the spark plug connector (inside the boot).
3. Connect the black lead to a good ground on the engine (away from the fuel tank).
4. Place the stop switch in the "ON" position.
5. Turn the engine over. Check for a spark in the window in the upper right corner of the Analyzer.

   IMPORTANT: Do not induce current into the system since this could result in damage to the electronic ignition assembly.

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If either method of testing produces no spark, it will be necessary to check the system components. To do this:

1. Remove the fan housing-starter assembly.

2. Check the stop switch wire for frayed or worn conditions, and to be sure it is properly mounted to the electronic ignition assembly.

3. Check all the terminal connections to be certain they are tight.

4. Check the ignition switch using test procedures found in S.I. 17, the Ignition Wall Chart.

5. Check the lamination gap between the flywheel and the electronic ignition assembly. It is important that the gap be between .011" and .015" (.3 to .4 mm).

If no problem is found after these checks, the following steps should be taken.

1. Remove electronic ignition assembly and replace it with a new assembly. Torque the two hold down screws to 55 to 60 pound x inches (6.2 to 6.8 N.m). Be sure all wires are properly connected.

2. Repeat the spark test from the troubleshooting section.

For service procedures on the <u>two piece</u> electronic ignition assembly used on the SP 81E and 12- and 13- levels of the Pro Mac 850, refer to Service Bulletin 1629.

McCULLOCH CORPORATION

Product Service Department