McCULLOCH CORPORATION
SERVICE BULLETIN

1517

MODEL: SP 80, SP 125 March 23, 1972

SUBJECT: PRESSURE TEST ADAPTERS, DSP PLUG SCREW

Exhaust port adapters and a compression release plug screw are now available for pressure testing power units of Models SP 80 and SP 125 saws for air leaks. Standard muffler and carburetor gaskets as well as standard muffler mounting screws are used when making these pressure checks. Use only 10-24 x 5/8 inch long screws for mounting the intake adapters.

Parts required for pressure testing these models are as follows:

SP 80		SP 125	
Part No.	Description	Part No.	Description
*86177	Adapter - Exhaust port	*86166	Adapter - Exhaust port
69191	Adapter - Intake port	69191	Adapter - Intake port
62849	Pressure Test Tool	62849	Pressure Test Tool
*110761	Plug Screw - DSP	*110761	Plug Screw - DSP
110506	Screw - Hex 10-24 x 5/8	110506	Screw - Hex 10-24x5/8 1/8inch pin (pulse line plug)

* New part number

Pressure Test Procedure (Same procedure for both SP 80 and SP 125)

1. Remove the carburetor and the muffler.
2. Coat or soak the carburetor and muffler gaskets in oil before mounting the adapters.
3. Remove the DSP (poppet) valve.

See Figure 1 for the SP 80, Figure 2 for the SP 125

4. Install the intake adapter using two 10-24 x 5/8 inch screws, on the carburetor gasket. Tighten securely but do not over torque.
5. Install the exhaust port adapter using the standard muffler mounting screws. Tighten securely but do not over torque.
6. Install the DSP plug screw, using the standard valve washer.
7. Install the 1/8 inch diameter pin in the pulse line to plug it (SP 125 only).
8. Connect the hose on the pressure side of the pressure tool to the fitting on the intake port adapter.

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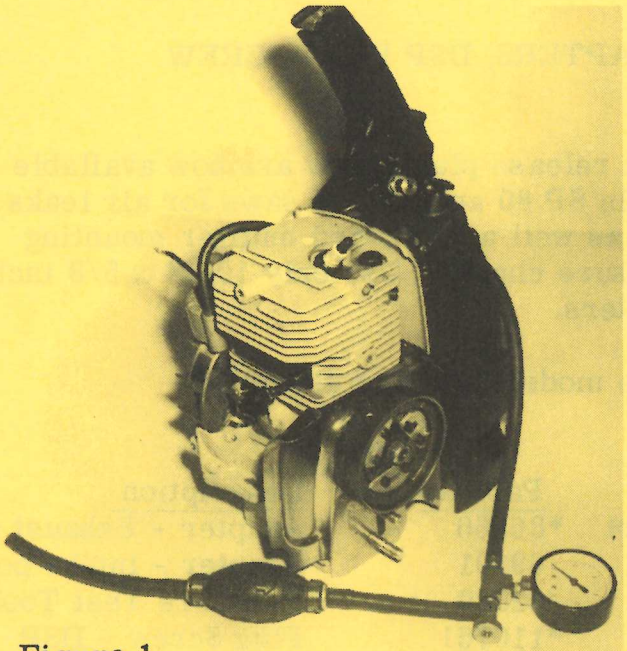


Figure 1

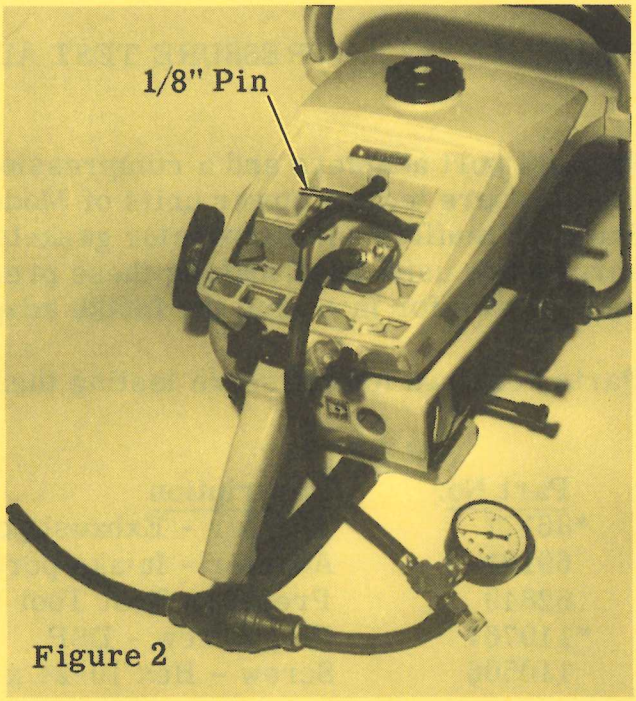


Figure 2

7. Open the shut-off valve. Pump pressure on the tool until pressure reaches 5 to 6 pounds P.S.I.. Close the shut-off valve.

   NOTE: Leakage less than 1 P.S.I. per minute can be considered normal and will not affect engine performance. Air leaks can be detected by putting oil on suspected areas and watching for air bubbles.

   Before assembling any unit with new gaskets and oil seals, coat or soak the gaskets and seals with SAE 30 oil. This coating will reduce or eliminate the possibility of air leaks around gaskets and seals because of uncoated or dry surfaces.

8. If a pressure loss greater than 1 P.S.I. per minute is found, recheck the testing procedure to be sure that:

   (a) All components are properly assembled and in the proper position.
   (b) All gaskets are clean, flat and coated with oil.
   (c) Adapter mounting screws are secure.

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By Jack Carroll
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