

INSTRUCTIONS

DUAL GAUGE LEAKDOWN TESTER

DIFFERENTIAL COMPRESSION TEST STEPS

- 1.) Start engine. As soon as engine reaches operating temperature, shut it off. Remove spark plug from the cylinder to be evaluated.
- 2.) Connect air source to the tester. Always use the same length of hose.
NOTE: The air source must exceed 80 psi (125-150 psi is ideal).
- 3.) With the ON/OFF safety valve open and before spark plug adapter is connected, adjust regulated air pressure to 80 psi (gauge #1), and compare with cylinder pressure gauge (gauge #2). Any difference should be applied accordingly as a correction factor during the actual cylinder test.
- 4.) Install the spark plug boss adapter and gasket in the cylinder. Rotate the engine until the piston is TDC (compression stroke).
- 5.) Connect the cylinder hose quick disconnect to the spark plug boss adapter and slowly open the ON/OFF safety valve.
NOTE: If crank rotates, piston is not TDC. If this happens, reverse rotation 1/4 to 1/2 revolution and come forward again until a flat spot is felt and the highest reading holds steady. If necessary

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re-adjust

the regulator for 80 psi (gauge #1). Observe and record cylinder pressure gauge reading (gauge #2). Apply correction factor if applicable.

- 6.) Close ON/OFF safety valve.
- 7.) Disconnect tester from cylinder.
NOTE: DO NOT RETURN REGULATED PRESSURE TO 0 psi. Leave the regulator as it is.
- 8.) If additional cylinders are to be tested, repeat steps #4 through #6.

LEAKDOWN PERCENTAGE CHART

<i>PSI in Cylinder</i>	<i>Percentage of Leakdown</i>
80 psi	0%
76 psi	5%
72 psi	10%
68 psi	15%
64 psi	20%
60 psi	25%

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