

# Exhaust System Backpressure Test

**Meets NATEF Task:** (A8-D-9) Perform exhaust system backpressure test; determine necessary action. (P-1)

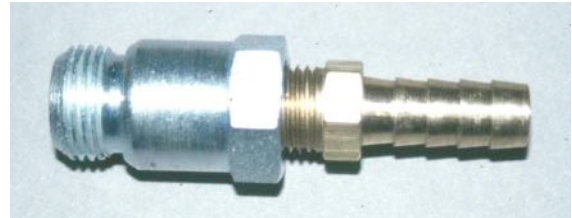
Name \_\_\_\_\_ Date \_\_\_\_\_ Time on Task \_\_\_\_\_

Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

A clogged or partially restricted exhaust greatly affects engine performance. Lack of power is a common symptom of a partially restricted exhaust system. In severe cases, the engine may start/stall due to exhaust system restriction.

\_\_\_\_\_ 1. Check service information for the specified maximum backpressure. \_\_\_\_\_

\_\_\_\_\_ 2. Remove the oxygen sensor from the exhaust manifold and install tool to measure exhaust back pressure.



**NOTE:** This tool can be made from an 18 mm fitting and a vacuum hose nipple.

\_\_\_\_\_ 3. Connect a vacuum/pressure gauge to the exhaust back pressure tool. Start the engine and run at idle and observe exhaust back pressure.

\_\_\_\_\_ psi back pressure (maximum allowable back pressure at idle is 1.25 psi.)

**OK** \_\_\_\_\_ **NOT OK** \_\_\_\_\_

\_\_\_\_\_ 4. Operate the engine at a constant speed of 2500 RPM and observe the exhaust back pressure.

\_\_\_\_\_ psi back pressure (Maximum allowable back pressure at 2500 RPM is 2.5 psi.)

**OK** \_\_\_\_\_ **NOT OK** \_\_\_\_\_

\_\_\_\_\_ 5. Based on the results of the backpressure test, what is the necessary action?