

# EXHAUST BACK PRESSURE TESTER INSTRUCTIONS

## I. IMPORTANT PRE-TEST INFORMATION

**CAUTION: EXHAUST SYSTEM COMPONENTS ARE EXTREMELY HOT! USE CARE WHEN WORKING ON OR NEAR THE EXHAUST SYSTEM.**

1. Always refer to the vehicle's service manual whenever possible for the proper exhaust back pressure values and exhaust service procedure(s).
2. Always wear eye protection.
3. Avoid breathing exhaust fumes. Work in a well-ventilated area.
4. Keep yourself, clothing, and test equipment away from all moving engine parts.
5. DO NOT DRIVE VEHICLE WITH TESTER CONNECTED.

## II. INSTALLATION INSTRUCTIONS

1. Turn ignition off and allow the engine to cool.
2. Locate the oxygen sensor on the vehicle. It is usually threaded into the exhaust manifold. If there are two exhaust manifolds, there may be an additional oxygen sensor installed. It may be necessary to conduct the back pressure test at both oxygen sensors.
3. Carefully unplug the electrical connector from the oxygen sensor and unscrew the oxygen sensor from the exhaust manifold.
4. Thread the appropriate test adapter into the oxygen sensor port. Hand tighten.
5. Thread the gauge and hose assembly into the adapter. Hand tighten.

**NOTE:** Depending on the location of the oxygen sensor, it may be easier to first assemble the complete tester (gauge, hose and adapter), then thread the assembly into the oxygen sensor port.

## III. TEST PROCEDURE

1. Start engine and allow it to idle.
2. Read gauge and compare it with the back pressure value in service manual.
3. Increase engine speed to 2500 RPM and read gauge. Compare result with the appropriate back pressure value in service manual.
4. If back pressure is not within limits, then the exhaust components downstream from the oxygen sensor ( muffler, catalytic converter, exhaust pipes ) must be disconnected individually until pressure falls within allowable limit.
5. Allow engine to cool. Repair or replace the faulty exhaust system component(s) as necessary.
6. Remove the tester from the vehicle.
7. Coat the threads of the oxygen sensor with anti-seize compound and re-install it into the vehicle.
8. Plug the electrical connector into the oxygen sensor.