



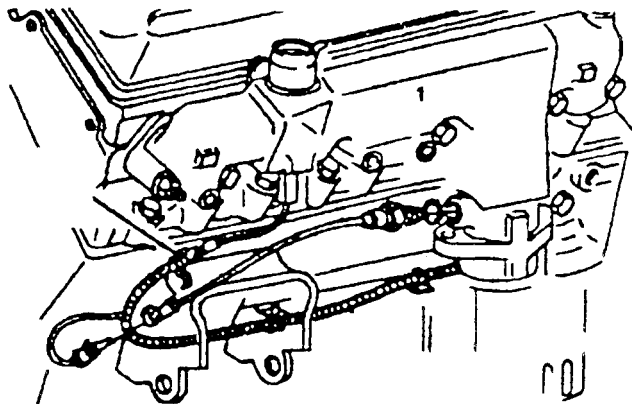
Suggested Installation Instructions for: 601-090, Oxygen Sensor Test Tool (Alligator Clips)

INTRODUCTION:

The Oxygen Sensor is essentially a small variable battery; with the ability to produce a low voltage signal that feeds information on engine exhaust oxygen content to the ECM (computer). The Oxygen Sensor measures the amount of oxygen in the exhaust and signals the ECM to adjust the fuel mixture. The ECM supplies a voltage of about 0.32 - 0.45 volts to the Oxygen Sensor. The Oxygen Sensor then varies the voltage within a range of about 1 volt if the exhaust is rich, down through 0.10 volts if the exhaust is lean. A problem in the Oxygen Sensor will set a Code 13 (open circuit), Code 44 (lean exhaust) or Code 45 (rich exhaust).

INSTALLATION AND TEST PROCEDURES:

- 1) With ignition "OFF", disconnect ECM connector from Oxygen Sensor connector. Refer to GM shop manual for sensor location. ALWAYS USE CAUTION WHEN WORKING NEAR HOT EXHAUST COMPONENTS!
- 2) Plug in the Oxygen Sensor Test Tool. CAUTION: Carefully move test jumper from side to side to align pins into place. DO NOT force test jumper into connection, as damage to pins or sensor may result.
- 3) With the ignition switch "ON" and engine running, use a digital voltmeter (10 megaohm impedance required) to measure voltage. Connect the red lead from the Oxygen Test Tool to the positive test lead on the digital voltmeter. Connect the negative lead from the digital voltmeter to ground.
- 4) Voltage may vary depending on make and model. Refer to a GM shop manual for proper voltage values.
- 5) Turn the ignition "OFF" and remove the Oxygen Sensor Test Tool. Re-connect the ECM connector to the Oxygen Sensor connector.



OXYGEN SENSOR
LOCATION