



Application: 1992-1996

Part Includes

1 - Component

Throttle Position Sensor Test Tool



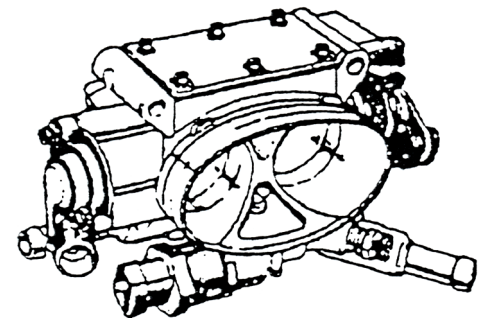
Tools Needed



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INTRODUCTION:

The TPS or Throttle Position Sensor furnishes data to the computer's input section on the amount of air being consumed by the engine. The TPS is a variable resistor connected to the throttle valve. As the throttle position varies, so does the signal to the computer. The computer supplies a fixed voltage to the TPS, then measures the output voltage. By monitoring the output voltage from the TPS, the computer can determine fuel delivery based on throttle valve angle (driver demand). At closed throttle the voltage is between 0 and .5 volts; it increases as the throttle opens to give about 5 volts at wide open throttle.



TPS Location on a Tuned Port Injection Engine

INSTALLATION AND TEST PROCEDURES:

STEP 1.

With the ignition "OFF", disconnect harness connector from Throttle Position Sensor.

STEP 2.

Plug in the TPS Test Jump Tool to the Throttle Position Sensor unit. CAUTION: Carefully move test jumper from side to side to align pins into place. If desired, the green seal may be removed. DO NOT force test

jumper into connection, as damage to pins on sensor may result. Insert "A" (gray wire) from test tool into matching "A" terminal on the unplugged harness.

STEP 3.

With ignition "ON" engine stopped, hook up a digital engine analyzer (Mid America #601-072) to terminal "B" (black wire) and "C" (dark blue wire) to measure voltage between them.



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Description (cont.)

CAUTION: DO NOT ALLOW JUMPERS TO TOUCH EACH OTHER!

STEP 4.

Voltage reading should be in the range of .33-.93 volts, (normal reading is .70-.72) at closed throttle.

STEP 5.

If reading is outside of specifications, loosen Throttle Position Sensor mounting screws with a Torx #25 and move sensor to adjust to specifications. Due to the 1992-94 throttle position sensor being a mainly sealed unit, you will not be able to adjust more than one tenth of a volt.

STEP 6.

Tighten screws, then re-check reading. If the reading is still not within specs, the sensor has failed and needs to be replaced.

STEP 7.

Turn "OFF" the ignition and remove the Throttle Position Sensor Test Jumper Tool. Re-connect harness connector to Throttle Position Sensor. TPS