



**Application:** 1985-1991 Corvette TPS

**Part Includes**

1 - Component

## Throttle Position Sensor Test Tool



### Tools Needed



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### INTRODUCTION

The TPS of Throttle Position Sensor furnishes data to the computer's input section of the amount of air being consumed by the engine. The TPS is a variable resistor connected to the throttle valve. As the throttle positions 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.

### INSTALLATION AND TEST PROCEDURES

#### STEP 1.

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

#### STEP 2.

Plug in the TPS Test Jumper Tool. **CAUTION:** Carefully move test jumper from side to side to align pins into place. If desired, the green silicon seal may be removed. **DO NOT** force test jumper into connection, as damage to pins or sensor may result.

#### STEP 3.

With ignition "ON." engine stopped, use a digital voltmeter to measure voltage between terminals "A" (black wire) and "B" (red wire).

#### STEP 4.

Voltage reading should be between .465 and .615 at closed throttle. (Voltage specifications may differ on some models. Refer to GM Shop Manual.) **CAUTION:** **DO NOT ALLOW JUMPERS TO TOUCH EACH OTHER!**

#### 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.

#### STEP 6.

Tighten screws, then re-check reading to insure adjustment has not changed.

#### STEP 7.

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



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