

Throttle Position Sensor Scope Test

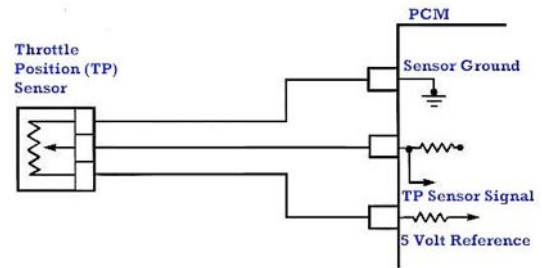
Meets NATEF Task: (A8-B-7) Inspect and test sensors, actuators, and circuits using a graphing multimeter (GMM)/digital storage oscilloscope (DSO); perform necessary action. (P-1)

Name _____ Date _____ Time on Task _____

Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

- _____ 1. Check service information regarding the location of the throttle position sensor used on the vehicle being tested.

Location (describe):



- _____ 2. Check service information for the wire colors used and their purpose

Wire 1 (color and purpose): _____

Wire 2 (color and purpose): _____

Wire 3 (color and purpose): _____

- _____ 3. Measure the reference voltage (should be close to 5 volts) = _____.

- _____ 4. Measure the sensor signal voltage at idle _____,

specification = _____.

- _____ 5. Measure the TP sensor at wide-open throttle (W.O.T.) = _____ volts
 (should be about 4.5 volts).

- _____ 6. Following the test equipment manufacturer's instructions, show the instructor the waveform.

Instructor OK _____

- _____ 7. Based on the comparison between the captured waveform and the specified waveform, what action is needed?

