

# Throttle Position Sensor Scope Test

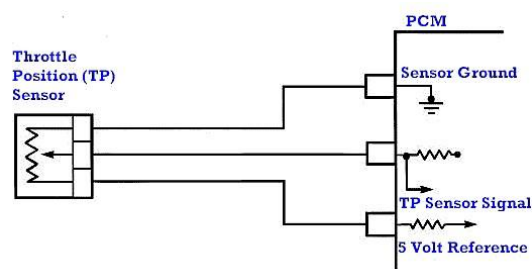
**Meets ASE Task:** (A8-B-7) P-2 Inspect and test sensors, actuators, and circuits using a graphing multimeter (GMM)/digital storage oscilloscope (DSO); perform necessary action.

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?

