

# Throttle Position Sensor Scope Test

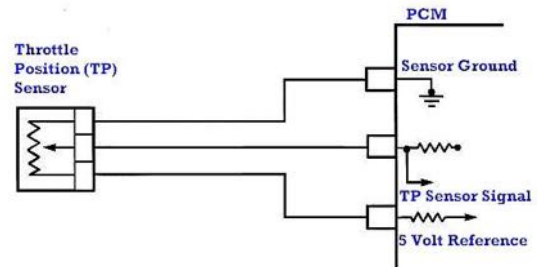
**Meets ASE Task:** (A8-A-9) P-2 Inspect and test sensors, actuators, and circuits using a graphing multimeter (GMM)/digital storage oscilloscope (DSO); perform needed action.

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): \_\_\_\_\_

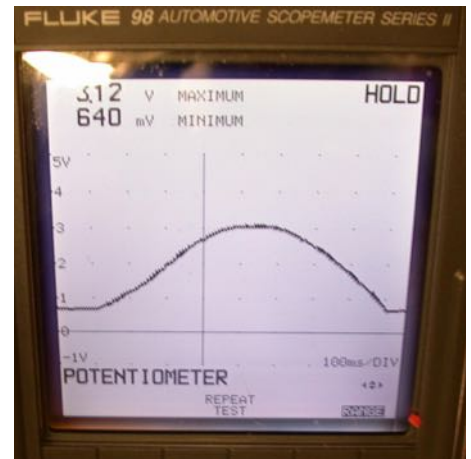
Wire 3 (color and purpose): \_\_\_\_\_

- 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?