Throttle Position Sensor Scope Test

Meets NATEF Task: (A8-B-5) Inspect and test sensors, actuators, and circuits using a graphing multimeter (GMM)/digital storage oscilloscope (DSO); perform necessary action. (P-1)

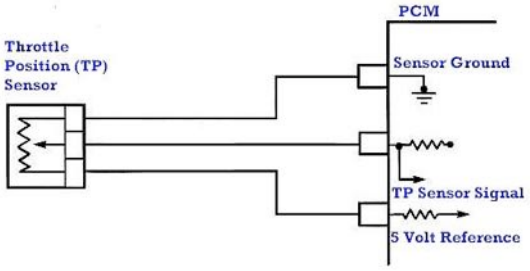
Name _____ **Date** _____ **Time on Task** _____

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): _____

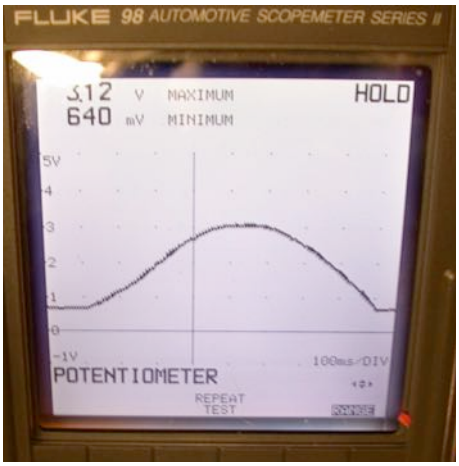
Wire 3 (color and purpose): _____

_____ **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?