

# Throttle Position Sensor Resistance 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-2)

Name \_\_\_\_\_ Date \_\_\_\_\_ Time on Task \_\_\_\_\_

Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

\_\_\_\_\_ 1. Check service information for the specified testing procedures and resistance values of the throttle position sensor.

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\_\_\_\_\_ 2. After disconnecting the electrical connectors, measure the resistance of the TP sensor using a digital multimeter (DMM) set to read ohms ( $\Omega$ ).

a. Measure the resistance between the terminals for the 5-volt reference and the signal resistance (ground) terminal.

\_\_\_\_\_ (should be about 1000 ohms (0.8 to 1.1 K $\Omega$ ))

\_\_\_ **OK** \_\_\_ **NOT OK**

b. Measure the resistance between the 5-volt reference terminal and the signal wire.

\_\_\_\_\_ ohms

c. Depress the accelerator and observe the meter. Does the resistance increase or decrease? Why?

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\_\_\_\_\_ 3. Based on the tests performed, what is the necessary action? \_\_\_\_\_

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