**Meets ASE Task:** (A6-F-2) P-1 Inspect and test gauges and gauge sending units for causes of abnormal readings; determine needed action.

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Time on Task:\_\_\_\_\_\_\_\_\_\_\_\_\_

Make/Model/Year:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

VIN:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Evaluation (Enter number from 4, 3, 2, 1) :\_\_\_\_\_\_\_\_\_

**Gauge Diagnosis**

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**1.** Locate the wiring schematic for the dash gauge circuits and determine the color of the

wires.

Fuel gauge \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_

Oil pressure coolant temperature \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_

Color of wires to the sending unit: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** Check service information and determine the specified resistance of the sending unit

when the gas tank is full and empty.

Full tank = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Empty tank = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3.** Determine the resistance specification of the sending unit.

Resistance of the sending unit when the oil pressure is high = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Resistance of the sending unit when the oil pressure is low = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.** Determine the specified resistance of the sensor when hot and cold.

Resistance when the coolant is cold = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Resistance when the coolant is hot = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **5.** Based on the tests, what is the needed action?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_