1. Clean and visually inspect the starter solenoid and/or relay for physical damage.

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

Meets ASE Task: A6 – C-3 – P-2

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

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

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

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

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

**Starter Relays and Solenoids**

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

2. Set a digital multimeter (DMM) to read ohms (low scale) and check the hold-in coil and the pull-in coil.

**Pull-in coil.** Measure between terminals “S” and “M”:

resistance = \_\_\_\_\_\_ (should be 0.2 to 0.4 ohm) OK\_\_\_\_\_ NOT OK \_\_\_\_\_

**Hold-in coil.** Measure between terminals “S” and the solenoid housing:

resistance = \_\_\_\_\_\_\_ (should be 0.4 to 0.6 ohm) OK \_\_\_\_\_ NOT OK \_\_\_\_\_

3. Test the pull-in winding by applying 12 volts to terminal “S” and ground to terminal “M.” Check that the plunger will be drawn into the solenoid.

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

4. Check the hold-in winding by connecting 12 volts to terminal “S” and the other wire to ground. The plunger should be drawn into the solenoid housing.

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

5. Measure coil resistance of the relay (terminals 86 and 85).

Resistance = \_\_\_\_\_\_ ohms (should be 60 to 100 ohms) OK \_\_\_\_\_ NOT OK \_\_\_\_\_

6. What is the needed action? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

 