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

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

Meets ASE Task: Not specified.

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

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

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

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

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

**Starter Solenoid Testing**

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

2. Carefully remove the two retaining screws and the retaining nuts from the “M”, “S”, and “R” (if used) terminals.

3. Carefully remove the plastic end cap.

4. Visually check all solenoid parts for excessive wear or damage.

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

5. 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 \_\_\_\_\_**

6. Carefully reassemble the solenoid.

7. 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.

**CAUTION:** The plunger will be drawn in with great force, so keep your fingers away from between the plunger and the solenoid housing. **OK \_\_\_\_\_ NOT OK \_\_\_\_\_**

8. 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 \_\_\_\_\_**

9. Based on the test results, what is the necessary action? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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