[ ]  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? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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