[ ]  1. Clean and visually inspect the starter for physical damage such as a cracked or broken drive-end housing. OK [ ] \_\_\_\_\_ NOT OK [ ] \_\_\_\_\_

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

Meets ASE Task: Not specified.

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

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

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

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

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

**Starter Disassembly and Testing**

[ ]  2. Mark the location of the through bolts on the frame housing and make note of the location of a special through bolt used to retain a support bracket.

 \_\_\_\_\_ used a support bracket \_\_\_\_\_ did not use a support bracket

[ ]  3. Remove the solenoid (if it is a solenoid activated-type starter).

 **CAUTION:** When removing the solenoid, use caution because the plunger return spring may cause the solenoid to be forced away from the starter when the attaching bolts (nuts) are removed.

 [ ]  4. Remove the through bolts.

 [ ]  5. Gently remove the brush-end housing and armature from the field housing.

 [ ]  6. Remove the shift fork and separate the drive-end housing from the field housing.

 [ ]  7. Visually inspect all the parts and note their condition.

 armature OK [ ] \_\_\_\_ NOT OK [ ] \_\_\_\_ Notes: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 brushes/holders OK [ ] \_\_\_\_ NOT OK [ ] \_\_\_\_ Notes: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 field coils OK [ ] \_\_\_\_ NOT OK [ ] \_\_\_\_ Notes: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 drive-end housing OK [ ] \_\_\_\_ NOT OK [ ] \_\_\_\_ Notes: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 shift lever OK [ ] \_\_\_\_ NOT OK [ ] \_\_\_\_ Notes: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]** 8. Set the multimeter to read ohms and check the resistance between the hot brushes and the field housing (should read OL). OK [ ] \_\_\_\_ NOT OK [ ] \_\_\_\_

[ ]  9. Check the armature on a growler for opens and shorts. OK [ ] \_\_\_\_ NOT OK [ ] \_\_\_\_