**Meets ASE Task:** (Not specified by ASE)

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

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

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

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

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

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

**Starter Disassembly and Testing**

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**1.** Clean and visually inspect the starter for physical damage such as a cracked or broken

drive-end housing.

**OK  NOT OK**

**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**