



Starter Disassembly and Testing

Meets NATEF Task: Not specified by NATEF

Name _____ Date _____ Time on Task _____

Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

_____ 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 _____