

Starter Voltage Drop/Current Draw Tests

Meets ASE Task: A6 – C-1 – P-1 & A6 – C-2 – P-1

Name: _____ Date: _____ Time on Task: _____

Make/Model/Year: _____ VIN: _____

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

- ☐ 1. Check service information for the specified starter current draw test procedure and specifications.

NOTE: Few vehicle manufacturers give starter current draw specifications with the starter installed on the vehicle. Use the chart below as a guideline regarding the range of the maximum allowable starter draw.

4-cylinder engines = 150 to 185 amperes maximum (normally less than 100 A)

6-cylinder engines = 160 to 200 amperes maximum (normally less than 125 A)

8-cylinder engines = 185 to 250 amperes maximum (normally less than 150 A)

- ☐ 2. Perform the starter current draw test following the manufacturer's instructions.
Results: _____ amperes
- ☐ 3. Connect the voltmeter, as shown in the illustration, and crank the engine. Observe the voltmeter.
- ☐ 4. All test results should be less than 0.2 V (200 mV).
- ☐ 5. Based on the specifications and the test results, what is the needed action?

