

Battery Charging

Meets ASE Task: A6 – B-5 – P-1

Name: _____ Date: _____ Time on Task: _____

Make/Model/Year: _____ VIN: _____

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

- ☐ 1. Measure the open-circuit voltage of the battery = _____ volts (red lead of the voltmeter to positive [+] and black lead to negative [-]). (If more than 12.6 V, remove the surface charge by turning on the headlights for 1 minute).

- ☐ 2. Percentage of charge = _____ %.

12.6 V or higher = 100% charged

12.4 V = 75% charged

12.2 V = 50% charged

12.0 V = 25% charged

below 11.9 V = discharged

- ☐ 3. Determine the cold cranking amperes (CCA) of the battery = _____.

(The charge rate should be 1% of the CCA. For example, a battery with a 500 CCA rating should be charged at 5 ampere rate.)

- ☐ 4. Determine the reserve capacity in minutes = _____.

(The charge rate can be determined by dividing the reserve capacity of the battery in minutes by 30.)

- ☐ 5. The battery should be charged at _____ amperes (CCA method) or at _____ amperes (reserve capacity method).

