**Meets ASE Task:** (A6-B-5) P-1 Perform battery charging according to manufacturer’s recommendations.

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

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

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

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

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

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

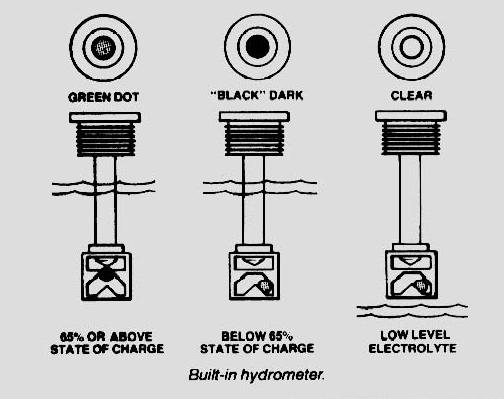
**Battery Charging**

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**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

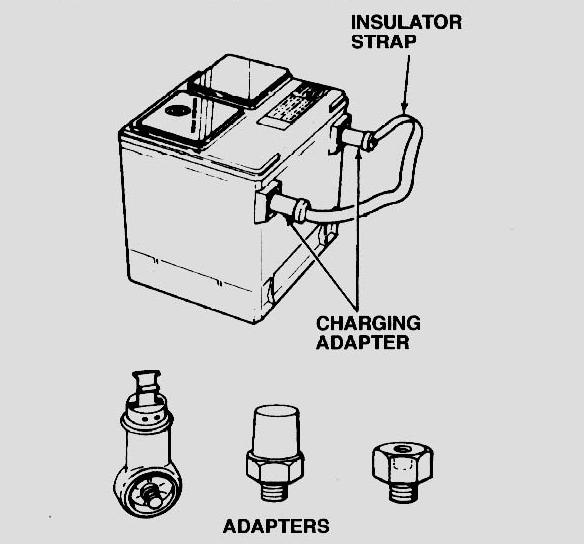
12.4 V = 75% charged

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.) Charge Rate = CCA

100

**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.* For example, a 180-minute battery should be charged at 6 ampere rate: 180/30 = 6).

Charge Rate = Reserve Capacity

30

**5.** The battery should be charged at \_\_\_\_\_ amperes

(CCA method) or at \_\_\_\_\_ amperes (reserve capacity method).