b. Make sure the engine is off and the battery is stabilized. If the battery has just been recharged, you must remove the surface charge. Wait at least 5 minutes after removing the surface charge before measuring the open circuit voltage. Please follow the manufacturer's recommendations closely.

▶ TASK Perform battery state-of-charge test; determine needed action.

a. Specified battery capacity: \_\_\_\_\_

b. Group size, if specified: \_\_\_\_\_ BCI group

Research the following specifications for this vehicle in the appropriate service

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information.

Time off\_

Time on\_

Total time\_

cold cranking amps (CCA)

- c. Prepare the digital multimeter (DMM) to measure voltage.
- d. Place the red lead on the positive post/terminal and the black lead on the negative post/terminal.
- e. What is the measured voltage (open-circuit voltage) of the battery?
- f. The table below represents the open-circuit voltage of the battery. Please select the battery's percent of charge as it relates to the voltage measured.

Voltage	Percent Charge
12.6 or greater	100
12.4-12.6	75-100
12.2-12.4	50-75
12.0-12.2	25-50
11.7-12.0	0-25
0.0-11.7	O; no charge

- 4. Perform a Conductance Test.
  - a. Review the process for performing a battery conductance test.
  - b. Connect the conductance tester to the battery terminals (some testers require the removal of the battery cable for accuracy).
  - c. Follow the prompts on the conductance tester for the type and CCAs of the battery being tested.
  - d. Start the conductance test.
  - e. List the state of charge (usually a % of charge): \_\_\_\_\_
  - f. Record the available CCAs listed on the conductance tester: \_\_\_\_\_
- 5. Determine any necessary action(s):
- 6. Have your supervisor/instructor verify satisfactory completion of this procedure, any observations found, and any necessary action(s) recommended.

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O 1 2 3 4

Supervisor/instructor signature

Date

**754** Electrical/Electronic Systems

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