

Battery State-of-Charge Test

Meets NATEF Task: (A6-B-1) Perform battery state-of-charge test; determine necessary action. (P-1)

Name _____ Date _____ Time on Task _____

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

_____ 1. Check service information for the specified method for determining the state-of-charge of the battery.



_____ 2. A typical state-of-charge test includes the following steps:

- Step 1** Select DC volts on a digital multimeter.
- Step 2** Connect the red meter lead to the positive (+) terminal of the battery.
- Step 3** Connect the black meter lead to the negative (-) terminal of the battery.
- Step 4** Turn on the headlights for about one minute or until the battery voltage stops dropping to remove the surface charge.
- Step 5** Turn off the headlights and observe the voltmeter display for the highest reading and compare it to the percentage of charge.

- 12.6 volts or higher = 100% charged
- 12.4 volts = 75% charged
- 12.2 volts = 50% charged
- 12.0 volts = 25% charged
- 10.5 volts = dead

_____ 3. What is the state-of-charge of the battery? _____

_____ 4. What is the necessary action? _____
