

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) How does a technician test the voltage of the charging circuit?

2) Describe the results of a voltmeter test of a battery and its state of charge.

3) What the steps for performing a battery load test?

4) How do you set the digital multimeter to read charging voltage?

Answer Key

Testname: INTRO_SHORT23

- 1) 1. Set the meter to read DC volts.
2. Connect the voltmeter to the positive and negative terminals of the battery.
3. Start the engine and raise to a fast idle (about 2,000 RPM).
4. Observe the voltmeter (a good reading should be between 13.5 and 15.0 volts).
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- 2) After removing the surface charge, a battery voltage of 12.6 volts or higher indicates a fully charged battery. If 12.4 volts, it is 75% charged; 12.2 volts is 50% charged, and if 12.0 volts, the battery is only 25% charged.
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- 3) A battery load test involves the following steps:
Step 1 Determine the CCA rating of the battery.
Step 2 Load the battery to 1/2 of the CCA rating for 15 seconds.
Step 3 Allow the battery to recover for 30 seconds.
Step 4 Repeat the load test.
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- 4) The digital meter should be set to DC volts (DCV).
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