

Digital Multimeter Use for Electrical Problems

Meets NATEF Task: (A6-A-3) P-1 Demonstrate the proper use of a digital multimeter (DMM) during diagnosis of electrical circuit problems.

Name _____ Date _____ Time on Task _____

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

- _____ 1. Check service information on the correct procedure for checking charging system voltage.

- a. Which position on the digital multimeter should be selected to check charging system voltage?

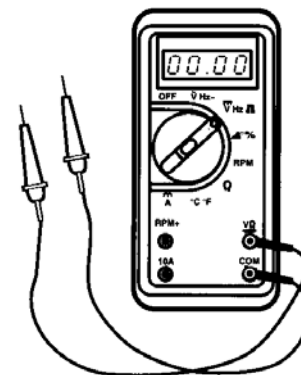
What is the specified voltage? _____

What is the actual voltage? _____

- b. Which position should selected to check the voltage drop of the charging system? _____

What is the specified voltage drop? _____

What is the actual voltage drop? _____



- _____ 2. Check service information regarding the specified resistance for spark plug wires.

Which position on the DMM should be selected to measure spark plug wire resistance? _____

What is the specified resistance? _____

What is the actual (measured) resistance? _____

- _____ 3. Check service information regarding the specified battery drain test (parasitic draw) test procedures.

Which position on the DMM should be selected to measure battery electrical drain? _____

What is the specified maximum battery electrical drain? _____

What is the actual (measured) battery electrical drain? _____