

Digital Multimeter Use for Electrical Problems

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

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?

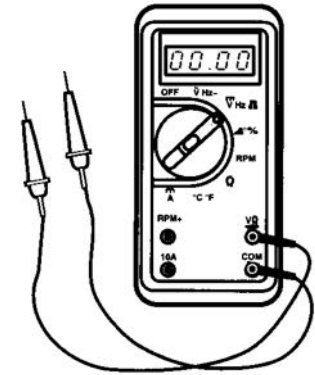
What is the specified voltage? _____

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? _____