

Alternator Stator Testing

Meets ASE Task: Not specified by ASE

Name _____ Date _____ Time on Task _____

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

_____ 1. Identify the type of stator.

_____ **Wye** (has three terminals with one wire at each terminal and a wire junction)

_____ **Delta** (has three terminals with two wires at each terminal)

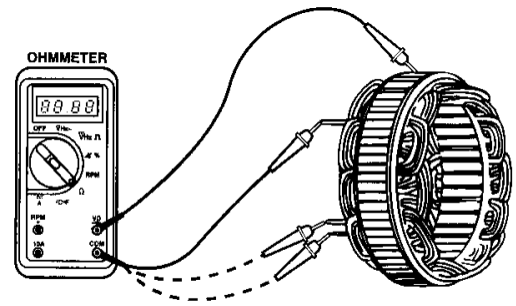


_____ 2. Visually inspect the rotor for faults such as burned insulation due to overheating or broken wires.

OK _____ NOT OK _____

_____ 3. Set a digital multimeter to read ohms (low scale).

_____ 4. Measure the resistance between all three terminals of the stator two at a time. The resistance will be low (usually less than 2 ohms). If high or infinity, the stator is defective.



OK _____ NOT OK _____

_____ 5. To check if the stator windings are shorted-to-ground, connect one lead of the meter (still set to read ohms) to the steel laminations of the stator and touch the other lead to each of the three terminals. The reading on all three terminals should be infinity (OL).

OK _____ NOT OK _____