Alternator Rotor Testing

Meets ASE Task: Not specified by ASE

Name _____ **Date** _____ **Time on Task** _____

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

_____ **1.** Carefully inspect the rotor for damage.

OK _____ **NOT OK** _____

_____ **2.** Use 400 grit emery cloth to clean the slip rings. Be sure to rotate the slips in the cloth to avoid creating flat areas.

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

_____ **4.** Measure the resistance between the slip rings and compare with specifications:

actual = _____

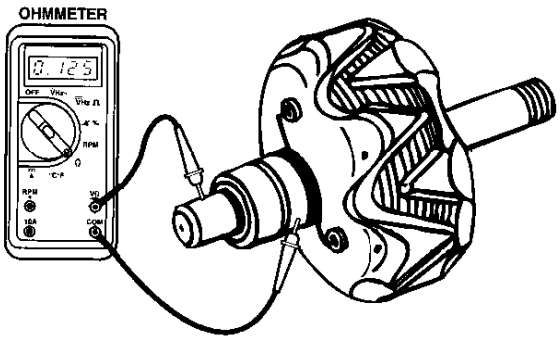
GM	= 2.2 to 3.5 Ω
Ford	= 3.0 to 5.5 Ω
Chrysler	= 3.0 to 6.0 Ω

OK _____ **NOT OK** _____

_____ **5.** To test that the rotor winding is not shorted-to-ground, place one meter lead on a slip ring and the other meter lead to the steel shaft of the rotor. The reading should be infinity (OL) if the rotor is OK.

reading = _____ **OK** _____ **NOT OK** _____

Shorted-to-ground



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