

Alternator Rotor Testing

Meets NATEF Task: Not specified by NATEF

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 = _____
 Shorted-to-ground

OK _____ NOT OK _____
 Open

