

Alternator Rectifier Bridge Testing

Meets NATEF Task: Not specified by NATEF

Name _____ Date _____ Time on Task _____

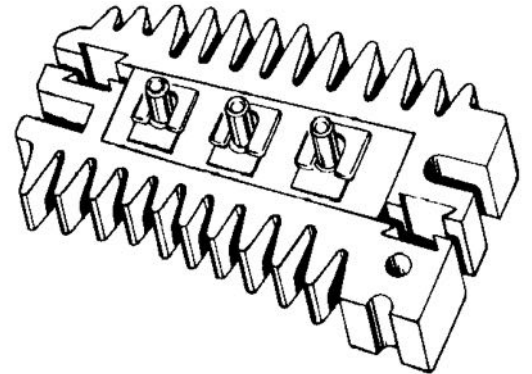
Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

_____ 1. Identify the type of alternator.

- _____ GM
- _____ Ford
- _____ Chrysler
- _____ other (specify) _____

_____ 2. How many diodes are used in the rectifier bridge (2 per stator winding)?

- _____ 6
- _____ 8
- _____ other (specify) _____



_____ 3. Visually check the rectifier bridge for physical damage.

OK _____ NOT OK _____

_____ 4. Set a digital multimeter to the diode check position.

_____ 5. Touch one meter lead to the terminal of the diode and the other lead to the heat sink for the same diode and record the reading. Reverse the leads and record the second reading. A good diode should read infinity (OL) one way and record a voltage drop reading of between 0.4 volt (400 mV) and 0.6 volt (600 mV) the other way.

reading for diode #1 = _____ and _____
 reading for diode #2 = _____ and _____
 reading for diode #3 = _____ and _____
 reading for diode #4 = _____ and _____
 reading for diode #5 = _____ and _____
 reading for diode #6 = _____ and _____

OK _____ NOT OK _____

_____ 6. Test the diode trio (if equipped) in a similar manner. OK _____ NOT OK _____