

Alternator Rectifier Bridge 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 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 _____

