DIAGNOSIS AND TESTING (Continued)

Set meter at Ohms x 1. Make all three phase terminals.	readings in both pr	obe directions to
Resistance Measurement	Acceptable Reading	
Heat to Diode Sink to Lead	Model 059-00010	Reference For Another Meter
One probe direction to each diode	About 7.0 ohms	About ohms
Other probe direction to each diode	00	00

CJ3342-A

4. If the meter readings are not as specified, replace the generator assembly.

Radio Suppression Capacitor Open or Short Test

NOTE: This is an open or short circuit test only and does not measure capacitance value. Actual capacitance value should be measured on a capacitance bridge at 1 kHz at a maximum voltage of 350 mV rms.

The radio noise suppression capacitor is built into the rectifier assembly and cannot be serviced by itself. To test the capacitor, place the ohmmeter, Multiply-By setting at 1000 and zero the meter. Text values shown in brackets [] are referenced to Rotunda Model 059-00010 and may be different if another tester is used.

CAUTION: Digital meters cannot be used to perform this capacitor test. The rectifier assembly must be dry.

 Contact one probe to the rectifier assembly B+ terminal and contact the other probe to the rectifier assembly ground. Reverse the probes and repeat the test. One position should give an infinite reading, indicating the reverse current direction through the diodes and the other position should give a reading of about [1000] ohms, indicating the forward current direction. The same reading in both directions indicates an

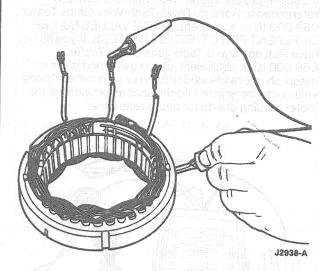
inoperative rectifier assembly.

To check the capacitor, contact the probes to the rectifier assembly B+ terminal and ground in the forward current [1000] ohms reading direction. While observing the meter indicator needle, reverse the probes and again contact them to the rectifier assembly B+ terminal and ground. The indicator needle should jump slightly (indicating that the ohmmeter batteries are charging the capacitor) and then return to its original position (infinite reading). If the needle does not jump, the capacitor is open. Replace the generator assembly.

Stator Coil Grounded Test

These tests are made to determine if the stator coil is shorted to ground. Remove the stator from the generator and disconnect it from the rectifier assembly as outlined. Place the ohmmeter Multiply-By setting at 1000.

- Connect the ohmmeter probes to one of the stator lead terminals and to the stator laminated core. Ensure that the probe makes a good electrical connection with the stator core. The meter should show an infinite reading (no needle movement).
- If the meter does not indicate an infinite reading (needle moves), the stator winding is grounded to the core and the generator assembly must be replaced.



MET	er reading	
Set meter at Ohms x 1000. M NOT TOUCH LEADS WITH H.		stator leads. DO
Resistance Measurement	Acceptable Reading	
Stator to Stator Terminal to Core	Model 059-00010	Reference For Another Meter
All Stator lead combinations: Probe polarity optional	~	~

CJ2810-B

Stator Coil Open Test

This test determines if there is an open stator circuit. Disconnect the stator from the rectifier assembly. Place the ohmmeter Multiply-By setting at 1.

 Connect one ohmmeter probe to a stator phase lead terminal and touch the other probe to another stator lead terminal. Check the meter reading.