

Figure 6—Testing generator. (Wiring connections not shown.)

g. If ampere output is not within 10 percent of rated output as stamped on Integral Charging System frame:

Negative ground only — Insert screwdriver into end frame hole to ground tab to end frame (Fig. 6). CAUTION: Tab is within 1/4 inch of casting surface. Do not force screwdriver deeper than one inch into end frame. Proceed to Step h.

Positive ground only—Insert small screwdriver into end frame hole to touch tab. Connect voltmeter to metal screwdriver and Integral Charging System "BAT" terminal. If reading is battery voltage, replace rotor and regulator, as both are defective. If reading is not battery voltage, disconnect voltmeter and connect a jumper lead from metal screwdriver to Integral Charging System "BAT" terminal. Proceed to Step h.

- h. Operate engine at moderate speed as required, and adjust carbon pile as required to obtain maximum current output.
- i. If output is within 10 percent of rated output, replace regulator as covered in "Integral Charging System Repair" section, and check field winding.
- j. If output is not within 10 percent of rated output, check the field winding, diode trio, rectifier bridge, and stator as covered in "Integral Charging System Repair" section.
- k. Remove ammeter from generator and turn accessories off.

B. OVERCHARGED ENERGIZER

Check the battery or Energizer per the applicable Delco-Remy Service Bulletin. IMPORTANT—Remember that

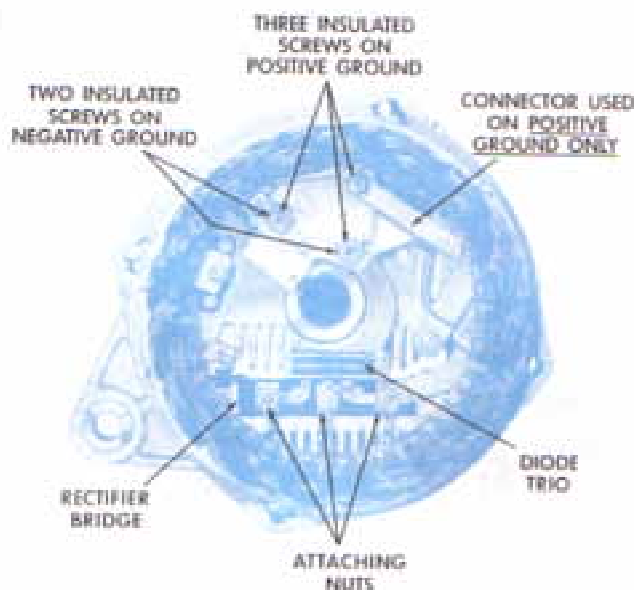


Figure 7—Inside view end frame assembly.

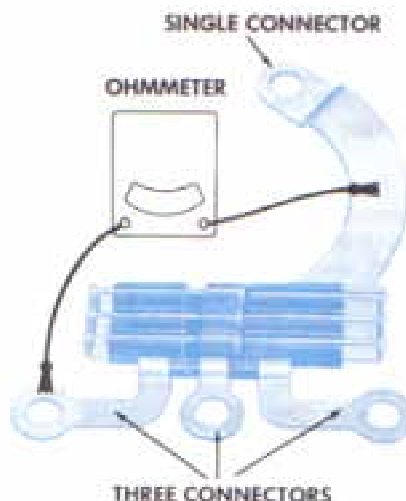


Figure 8—Diode trio check.

an overheated battery or Energizer will be overcharged even though no charging circuit defects are present.

- 2. If Energizer or battery is not defective or overheated, connect a voltmeter between Integral Charging System "BAT" terminal and ground.
- 3. With all accessories turned off, increase engine speed as required to obtain maximum voltage reading.
- 4. If voltage exceeds 15 volts on a 12-volt system, or 30 volts on a 24-volt system, remove Integral Charging System for repair as covered under heading of "INTEGRAL CHARGING SYSTEM REPAIR."
- 5. If voltage does not exceed the values listed in Step 4 preceding, adjust voltage to a lower value by removing voltage adjusting cap and re-inserting into connector body. Then check Energizer or battery condition after a service period of reasonable length, such as one week. Figure 5 is for purposes of illustration only, and shows the cap adjusted for medium high setting. The actual adjustment as shipped from the factory may be in some other position, depending on the application requirement. The lowest setting is with "LO" aligned with the arrow, position 2 is medium low, and "HI" is the highest setting.