

SECTION 10-C

GENERATING SYSTEM

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10-14 DESCRIPTION OF DELCOTRON GENERATOR

"Delcotron" * generators are continuous-output, diode-rectified alternating current generators. See Figure 10-7. The rotor is mounted on a ball bearing at the drive end, and a roller bearing at the slip ring end, and each bearing has a grease supply which eliminates the need for periodic lubrication. Two brushes are used to carry current through the two slip rings to the field coil which is mounted on the rotor. The brushes are extra long and under normal operating conditions will provide long periods of service.

The stator windings are assembled on the inside of a laminated core that forms part of the generator frame. See Figure 10-8.

* General Motors Trade-mark

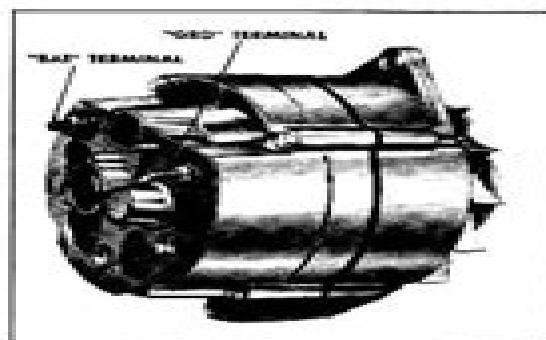


Figure 10-7—Delcotron Generator

Six rectifier diodes are mounted in the slip ring end frame and are connected to the stator windings. The six diodes act to change the generator AC voltages to DC voltage which appears at the "BAT" terminal of the generator.

IMPORTANT: Since the generator and regulator are designed for use on only one polarity system (negative ground), the following precautions must be observed when working on the charging circuit. Failure to observe these precautions will result in serious damage to the electrical equipment.

1. When installing a battery, always make absolutely sure the negative post is toward ground.
2. When connecting a booster battery make certain to connect the negative battery terminals together and the positive battery terminals together.
3. When connecting a charger to the battery, connect the charger positive lead to the battery positive terminal and the charger negative lead to the battery negative terminal.
4. Never operate the generator on open circuit. Make absolutely certain all connections in the circuit are secure.
5. Do not short across or ground any of the terminals on the generator or regulator.
6. Do not attempt to polarize the Delcotron generator.

10-15 GENERATOR REPAIR—ON BENCH

a. Disassembly

To disassemble the generator, take out the four thru-bolts, and separate the drive end frame and rotor assembly from the stator assembly by prying apart with a screwdriver at the stator slot. See Figure 10-8. A scribe mark will help locate the parts in the same position during assembly. The fit between stator and frame is not tight, and the two can be separated easily. Note that the separation is to be made between the stator frame and drive end frame. After disassembly, place a piece of tape over the slip ring end frame bearing to prevent entry of dirt and other foreign material.

To remove the drive end frame from the rotor, place the rotor in a vise and tighten only enough to permit removal of the shaft nut.

CAUTION: Avoid excessive tightening as this may cause distortion of the rotor. Remove the shaft nut, washer pulley, fan and the collar, and then separate the drive end frame from the rotor shaft.

If the rotor shaft has a hex socket in the drive end, use a 5/16" Allen wrench to hold the shaft during removal of the shaft nut.

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