

## Trouble Shooting Hints for the Generator

Job No.
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15-17
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When troubles occur in the power supply system, it should always be taken into consideration that the source of trouble may not only be the generator and the regulator cutout but also the battery, the power lines, and other parts of the system.

<b>Battery is not charged or insufficiently charged</b>	
Cause	Remedy
<ol style="list-style-type: none"> <li>1. Carbon brushes do not make proper contact with the commutator, are sticking in the guides, worn, broken, oiled-up, or fouled.</li> <li>2. Commutator fouled or oiled-up.</li> <li>3. Commutator worn.</li> <li>4. The cable 30 (battery cable) and the cable 51 between battery and regulator cutout or the cable 31 between battery and ground is loosened or defective.</li> <li>5. Battery defective.</li> <li>6. Break, ground short, or short in winding of generator.</li> <li>7. Regulator cutout defective.</li> <li>8. V-belt too slack.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check carbon brushes, clean or replace.</li> <li>2. Clean commutator.</li> <li>3. Smooth-turn and saw out commutator.</li> <li>4. Tighten connections or replace cable.</li> <li>5. Check battery and replace if necessary.</li> <li>6. Test generator, repair if necessary.</li> <li>7. Replace regulator cutout.</li> <li>8. Tension V-belt.</li> </ol>
<b>Charging control lamp does not burn with engine stopped and ignition switched on</b>	
Cause	Remedy
<ol style="list-style-type: none"> <li>1. Charging control lamp burned out.</li> <li>2. Battery discharged.</li> <li>3. Battery defective.</li> <li>4. Cable of terminals 61, 15, 30, or 31 loose or damaged.</li> <li>5. Regulator cutout defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Install new light bulb.</li> <li>2. Charge battery.</li> <li>3. Check battery, replace if necessary.</li> <li>4. Repair or replace cable, tighten connections.</li> <li>5. Replace regulator cutout.</li> </ol>

**Charging control lamp fails to go out at higher speeds**

Cause	Remedy
1. Cable of terminal 61 shorting to ground. 2. Regulator cutout defective.  3. Cable 51 broken.	1. Eliminate short or replace cable. 2. Replace regulator cutout.  3. Replace cable 51.

**Charging control lamp flickers**

Cause	Remedy
1. V-belt too slack. 2. Belt pulleys worn.	1. Tension V-belt. 2. Replace belt pulleys.