

Trouble Shooting Hints for the Generator

Job No.

15 — 17

When troubles occur in the current supply system, it should always be borne in mind that the fault may lie not only in the generator or the regulator but in the battery, the leads, or at other points in the system.

Battery not charging or not charging sufficiently	
Cause	Remedy
<ol style="list-style-type: none"> 1. Carbon brushes not making proper contact with collector, sticking in the guides, worn, broken, oiled-up or fouled. 2. Collector fouled or oiled-up. 3. Collector worn. 4. Faulty connections or other damage at the following points: cable 30 (battery cable) and cable 51 (leads No. 53 and No. 54 of main wiring harness, see Job No. 54 — 1, Section A, Diagram of Main Wiring Harness, Cable Sheaf 37 between battery and regulator, or cable 31 between battery and ground. 5. Battery defective. 6. Break or short-circuit in windings of generator or short-circuit to ground. 7. Regulator defective. 8. Fan belt too slack. V-pulleys worn. 	<ol style="list-style-type: none"> 1. Examine carbon brushes and clean or replace, as necessary. 2. Clean collector. 3. Re-condition collector by precision-turning and making saw-cuts between segments. 4. Tighten connections or replace cables. 5. Check battery and if necessary, replace. 6. Check generator and if necessary, repair. 7. Replace regulator. 8. Tighten fan belt to specified tension (see Job No. 15 — 11, Paragraph 4). Replace V-pulleys.

Charging light does not light up with engine stopped and ignition switched on

Cause	Remedy
<ol style="list-style-type: none">1. Charging light bulb burnt out.2. Battery discharged.3. Battery defective.4. Cables of terminals 61, 30 or 31 loose or damaged.5. Regulator defective.	<ol style="list-style-type: none">1. Fit new tubular bulb.2. Charge battery from outside source.3. Check battery and if necessary, replace.4. Bare, clean or replace cables; tighten contacts.5. Replace regulator.

Charging light fails to extinguish at high engine speed

Cause	Remedy
<ol style="list-style-type: none">1. Cable of terminal 61 shorting to ground.2. Regulator defective.	<ol style="list-style-type: none">1. Remove short or replace cable.2. Replace regulator.

Charging light flickers

Cause	Remedy
<ol style="list-style-type: none">1. Fan belt too slack.2. V-pulleys worn.	<ol style="list-style-type: none">1. Tighten fan belt to specified tension.2. Replace V-pulleys.