

DIAGNOSIS AND TESTING (Continued)

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PINPOINT TEST A: CHARGE INDICATOR — DIAGNOSIS (Continued)

TEST STEP		RESULT	ACTION TO TAKE
A10	<b>VOLTAGE DROP TEST — 'A' TERMINAL</b> ● Key in ON position. ● Engine OFF. ● Measure voltage between battery positive post and voltage regulator 'A' terminal. ● <b>Is voltage difference more than 0.25 volt?</b>	Yes	CHECK for high resistance in wiring between voltage regulator 'A' terminal and battery. SERVICE as required.
		No	GO to A11.
A11	<b>VOLTAGE DROP TEST — BATTERY POSITIVE VOLTAGE (B+) TERMINAL</b> ● Key in ON position. ● Engine running. ● Blower on HIGH, headlamps ON. ● Measure voltage between generator Battery Positive Voltage (B+) output terminal and battery positive terminal. ● <b>Is difference less than 1.5 volts?</b>	Yes	GO to A12.
		No	CHECK for high resistance in wiring between generator Battery Positive Voltage (B+) output terminal and battery. SERVICE as required.
A12	<b>'I' CIRCUIT CHECK</b> ● Key in ON position. ● Blower on HIGH. ● Engine running. ● Disconnect voltage regulator connector. ● <b>Is charge indicator on?</b>	Yes	SERVICE 'I' circuit for a short to ground.
		No	GO to A13.
A13	<b>'S' CIRCUIT CHECK</b> ● Reconnect voltage regulator connector. ● Engine running. ● Measure voltage at 'S' circuit at generator and at regulator.	Voltage approximately 1/2 'A' circuit battery voltage at both locations	GO to A14.
		Voltage approximately 1/2 'A' circuit battery voltage at generator but not at regulator	SERVICE open in 'S' circuit wiring.
		No voltage at either location	GO to A15.
A14	<b>VOLTAGE OUTPUT CHECK</b> ● Engine running at 2000 rpm. ● Measure battery voltage. ● <b>Is battery voltage above 16 volts?</b>	Yes	CHECK generator for brush or rotor short to ground. CHECK regulator screws for tightness, or high resistance in 'A' circuit. If no concern found, REPLACE voltage regulator.
		No	REPLACE voltage regulator.
A15	<b>NO VOLTAGE CHECK</b> ● Ground 'F' screw on voltage regulator. ● Check for voltage at 'S' terminal. ● <b>Is voltage approximately 1/2 battery voltage?</b>	Yes	REPLACE regulator.
		No	REPLACE generator assembly.

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