

GENERATOR INSPECTION

B3E011718300W03

Caution

- Do not apply direct battery positive voltage to the generator terminal D, otherwise it could cause damage to the internal parts (power transistor) of the generator.

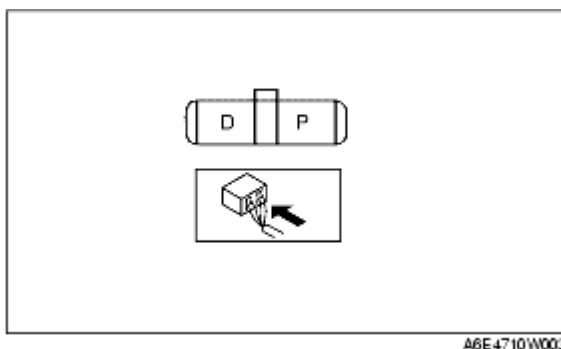
Generator warning light

1. Verify that the battery is fully charged.
2. Verify that the drive belt deflection/tension is correct. (See [DRIVE BELT INSPECTION \[Z6\]](#).) (See [DRIVE BELT INSPECTION \[LF\]](#).)
3. With the ignition switch at ON, verify that the generator warning light illuminates.
 - If it does not illuminate, inspect the generator warning light and the wiring harness.
 - If the generator warning light and the wiring harness are normal, inspect the PCM.
4. Verify that the generator warning light goes off after the engine is started.
 - If it does not goes out, check if any one of the following DTCs in the on-board diagnostic system are displayed: P0112, P0113, P2502, P2503, P2504. (See [DTC TABLE \[Z6\]](#).) (See [DTC TABLE \[LF\]](#).)

Generator

Voltage

1. Verify that the battery is fully charged.
2. Verify that the drive belt deflection/tension is correct. (See [DRIVE BELT INSPECTION \[Z6\]](#).) (See [DRIVE BELT INSPECTION \[LF\]](#).)
3. Turn off all electrical loads.
4. Start the engine and verify that the generator rotates smoothly without any noise while the engine is running.
5. Measure the voltage at each terminal using a tester.



A6E4710W003

Standard specification

Terminal	IG-ON (V)	Idle (V) [20°C {68 °F}]
B	B+	13.0-15.0
P	Approx. 1.0 or less	Approx. 3.0-8.0
D	Approx. 0	*

* : Turn the following electrical loads on and verify that the voltage reading increases.

- Headlights
- Blower motor
- Rear defroster

Current

1. Verify that the battery is fully charged.
2. Verify that the drive belt deflection/tension is correct. (See [DRIVE BELT INSPECTION \[Z6\]](#).) (See [DRIVE BELT INSPECTION \[LF\]](#).)
3. Disconnect the negative battery cable.
4. Connect a tester capable of reading **120 A or above** between generator terminal B and the wiring harness.
5. Connect the negative battery cable.
6. Turn off all electrical loads.
7. Start the engine.
8. Increase engine speed from **2,000-2,500 rpm**.
9. Turn the following electrical loads on and verify that the current reading increases.

- Headlights
- Blower motor
- Rear window defroster

Note

- Current required for generating power varies with electrical loads applied.

Reference value

Current possible for power generation (differs according to load)

[Conditions] ambient temperature 20°C {68 °F}, voltage 13.0-15.0 V, engine warm

Engine speed (rpm)	Terminal B current (A)	
	Z6	LF
1,000	0*-65	0*-80
2,000	0*-85	0*-95

* : The lower limit must be more than 0 A.