

PRE-HEATING SYSTEM (Super Glow Type) **INSPECTION**

STOF3-01

1. INSPECT LIGHTING TIME OF GLOW INDICATOR LIGHT

Turn the ignition switch ON, and measure the lighting time.

Light lighting time (T1): Refer to the chart graph

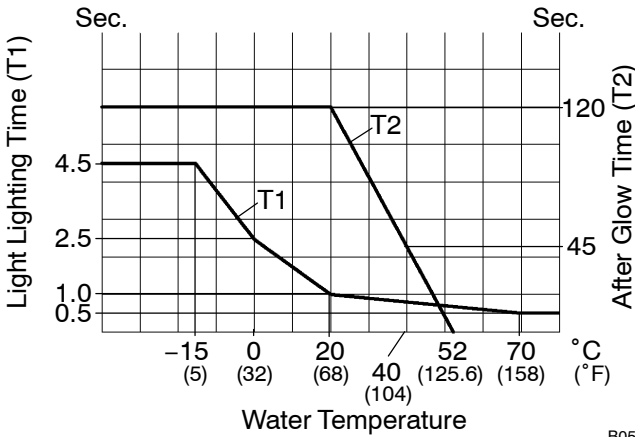
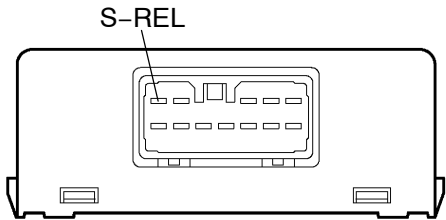
2. INSPECT AFTER GLOW TIME

Turn the ignition switch ON, and measure the time battery voltage is applied to terminal S-REL of the preheating timer.

After glow time (T2):

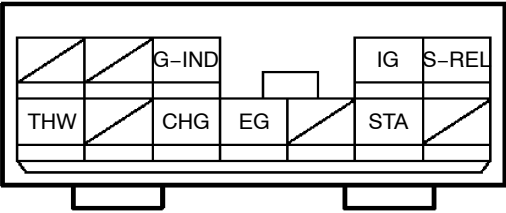
Refer to the chart graph (After starting the engine)

Pre-Heating Timer



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Wire Harness Side



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3. INSPECT PRE-HEATING TIMER

- Disconnect the pre-heating timer connector.
LOCATION: See relay locations in Electrical Wiring Diagram.

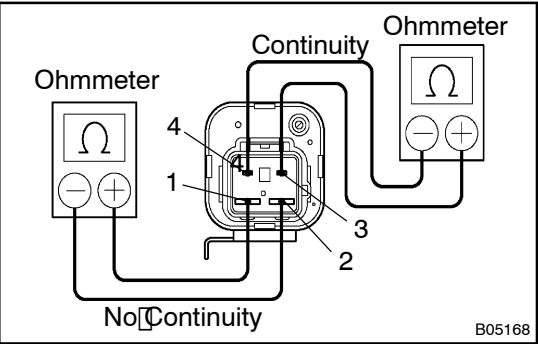
- (b) Inspect the pre-heating timer circuit.
Check the connector on the wire harness side as shown in these chart:

Tester connection	Condition	Specified value
G=IND -[Ground	Ignition switch OFF	No voltage
	Ignition switch ON	Battery voltage
IG -[Ground	Ignition switch OFF	No voltage
	Ignition switch ON	Battery voltage
STA -[Ground	Ignition switch OFF	No voltage
	Ignition switch START	Battery voltage
S-REL -[Ground	-	Continuity
THW -[Ground	-	Continuity
EG -[Ground	-	Continuity

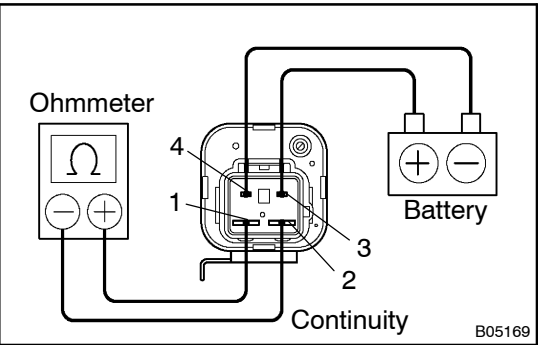
- (c) Reconnect the pre-heating timer connector.

4. INSPECT GLOW PLUG RELAY

- (a) Remove the glow plug relay.
LOCATION: See relay locations in Electrical Wiring Diagram.

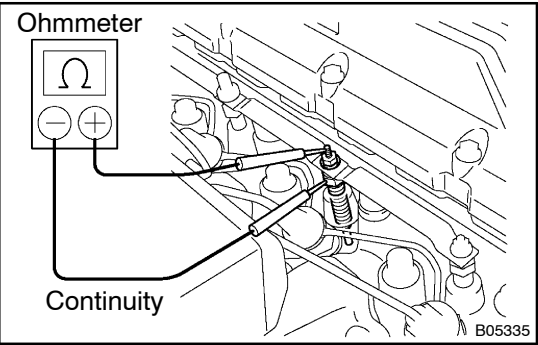


- (b) Inspect the glow plug relay continuity.
(1) Using an ohmmeter, check that there is no continuity between terminals 1 and 2.
If there is continuity, replace the relay.
(2) Check that there is continuity between terminals 3 and 4.
If there is no continuity, replace the relay.



- (c) Inspect the glow plug relay operation.
(1) Apply battery voltage across terminals 3 and 4.
(2) Using an ohmmeter, check that there is continuity between terminals 1 and 2.
If there is no continuity, replace the relay.

- (d) Reinstall the glow plug relay.
5. INSPECT WATER TEMPERATURE SENSOR
(See page ED-5)



6. INSPECT GLOW PLUGS
Using an ohmmeter, check that there is continuity between the glow plug terminal and ground.
Standard resistance: Approx. 0.75 Ω at 20°C (68°F)
If there is no continuity, replace the glow plug.
Torque: 13 N·m (130 kgf·cm, 10 ft·lbf)
NOTICE:
• Be careful not to damage the glow plug pipes as it could cause an open circuit or shorten life of the glow plugs.

- **Avoid getting oil and gasoline on the glow plug when cleaning.**
- **During inspection, be sure to wipe any oil of the terminal and bakelite washer with a dry cloth.**
- **Be careful not to apply more than 11 V to the glow plug as it could cause an open circuit.**