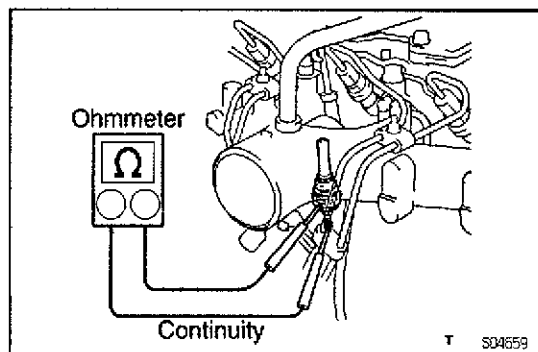




## Glow Plug Resistor

### GLOW PLUG RESISTOR INSPECTION

#### INSPECT GLOW PLUG RESISTOR

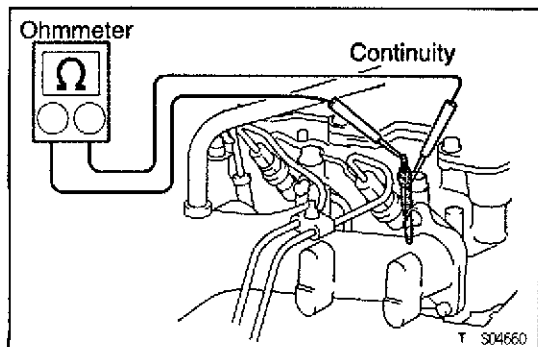
Using an ohmmeter, check that there is continuity between the glow plug resistor terminal and ground.

**Standard resistance at 20°C (68°F):**

**Approx. 0.17 Ω**

If there is no continuity, replace the glow plug resistor.

**Torque: 34 N·m (350 kgf·cm, 25 ft·lbf)**



## Glow Plugs

### GLOW PLUGS INSPECTION

#### INSPECT GLOW PLUGS

Using an ohmmeter, check that there is continuity between the glow plug terminal and ground.

**Standard resistance at 20°C (68°F):**

**Approx. 0.65 Ω**

If there is no continuity, replace the glow plug.

**Torque: 13 N·m (130 kgf·cm, 9 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 off 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.

## PRE-HEATING SYSTEM

### (Super Glow Type/without Resistor)

#### On-Vehicle Inspection

#### 1. INSPECT LIGHTING TIME OF GLOW INDICATOR LIGHT

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

**Light lighting time (T1):**

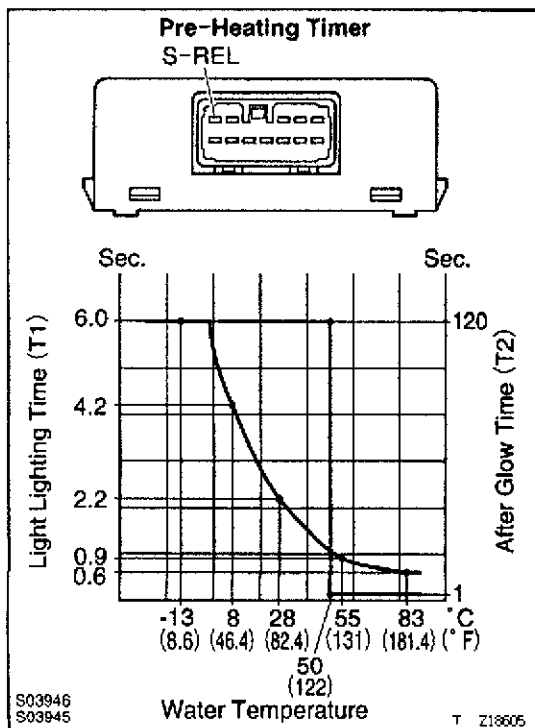
**Refer to the chart graph**

#### 2. INSPECT AFTER GLOW TIME

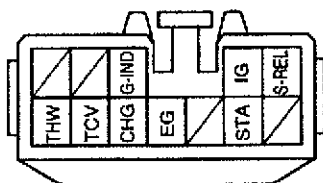
Turn the ignition switch ON, and measure the time battery voltage is applied to terminal SREL of the pre-heating timer.

**After glow time (T2):**

**Refer to the chart graph**



## Wire Harness Side



e-12-1

T Z18683

## Pre-Heating Timer

## PRE-HEATING TIMER INSPECTION

## 1. DISCONNECT PRE-HEATING TIMER CONNECTOR

LOCATION: See relay locations in Electrical Wiring Diagram.

## 2. INSPECT PRE-HEATING TIMER CIRCUIT

Check the connector on the wire harness side as shown in these chart:

ST

| Check for  | Tester connection     | Condition             | Specified value |
|------------|-----------------------|-----------------------|-----------------|
| Voltage    | G-IND - Ground        | Ignition switch OFF   | No voltage      |
|            |                       | Ignition switch ON    | Battery voltage |
| Voltage    | IG - Ground           | Ignition switch OFF   | No voltage      |
|            |                       | Ignition switch ON    | Battery voltage |
| Voltage    | STA - Ground          | Ignition switch OFF   | No voltage      |
|            |                       | Ignition switch START | Battery voltage |
| Continuity | S-REL - Ground        | —                     | Continuity      |
| Continuity | THW - Ground          | —                     | Continuity      |
| Continuity | EG - Ground           | —                     | Continuity      |
| Continuity | TCV (w/ TCV) - Ground | —                     | Continuity      |

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## 3. RECONNECT PRE-HEATING TIMER CONNECTOR

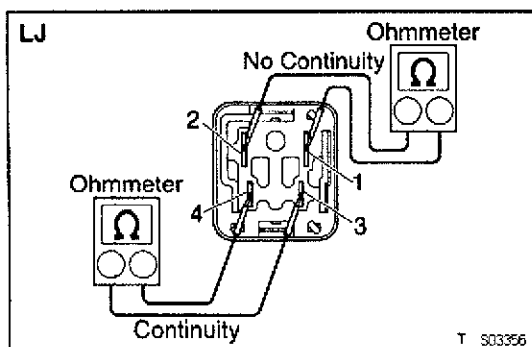
## Glow Plug Relay (LJ)

STOFG-01

## GLOW PLUG RELAY INSPECTION

## 1. REMOVE GLOW PLUG RELAY

LOCATION: See relay locations in Electrical Wiring Diagram.



## 2. INSPECT GLOW PLUG RELAY

## A. Inspect relay continuity

(a) Using an ohmmeter, check that there is no continuity between terminals 1 and 2.

If there is continuity, replace the relay.

(b) Check that there is continuity between terminals 3 and 4.

If there is no continuity, replace the relay.

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