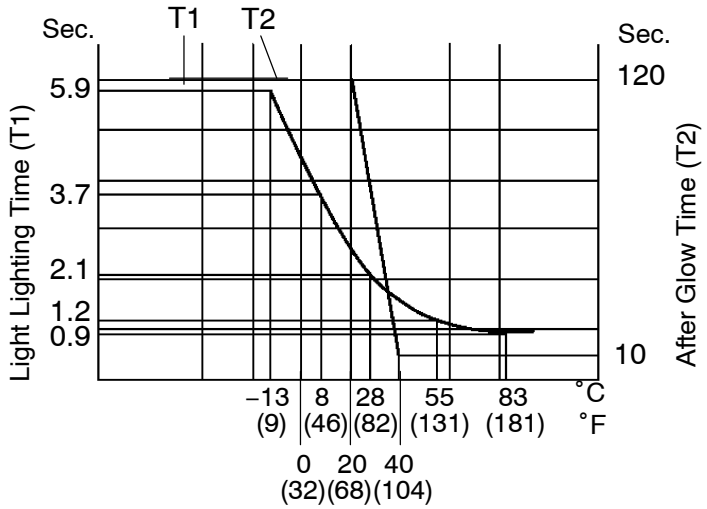
DI6K4–01

Pre–Heating Control Circuit

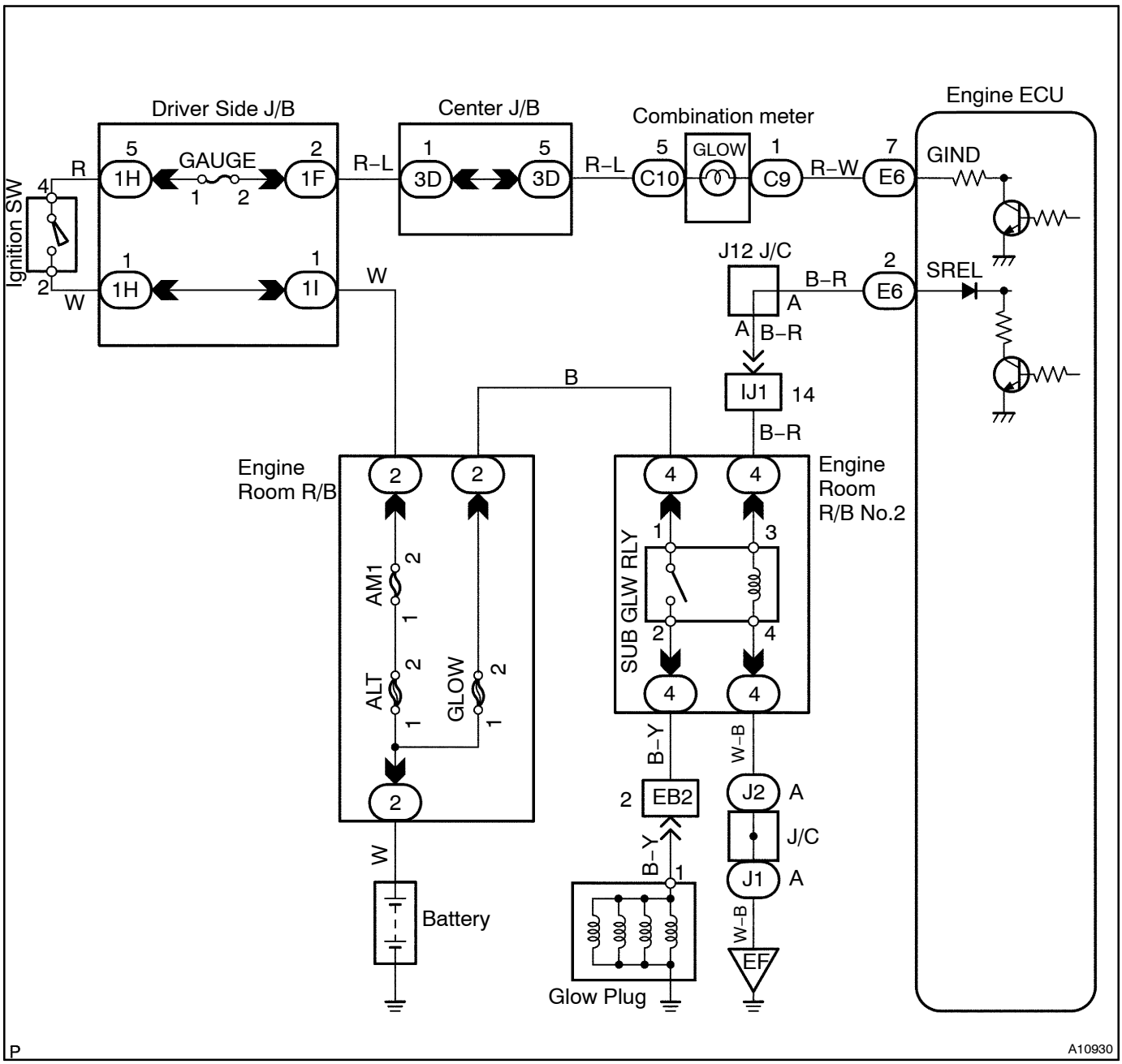
CIRCUIT DESCRIPTION

When the ignition switch turns ON, the engine ECU calculates the glow indicator lighting time/heating corresponding to the coolant temperature at that time and turns ON the glow indicator light/glow plug relay.
As the ceramics is used for a glow plug material, the current control is not performed.



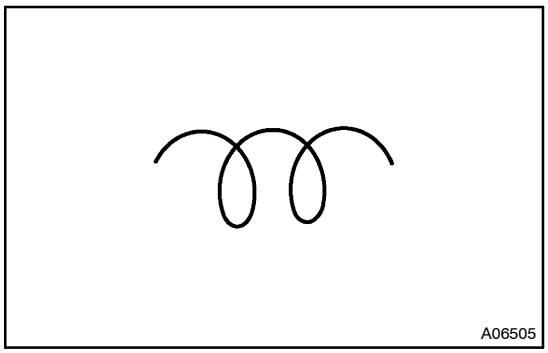
A05568

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Does glow indicator light up?**

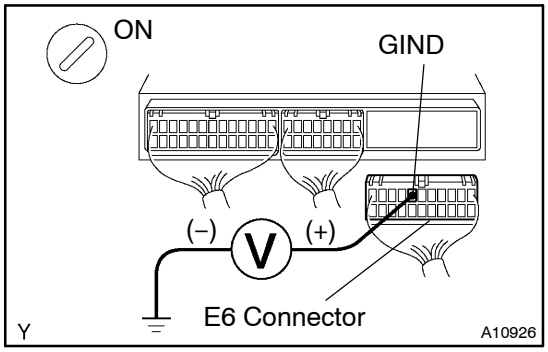


PREPARATION:
Turn the ignition switch ON.
CHECK:
Does the glow indicator light up?
OK:
The glow indicator lights up for 0.5 sec. or more.

OK	**Go to step 5.**

NG

2	Check voltage between terminal GIND of engine ECU connector and body ground.



PREPARATION:

(a) Remove the glove compartment (See page ED–25).
(b) Disconnect the E6 connector from the engine ECU.
(c) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminal GIND of the engine ECU connector and body ground.

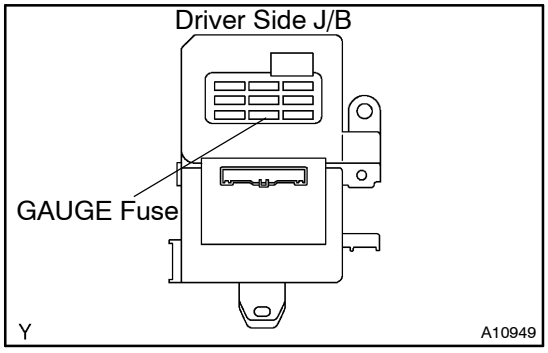
OK:

Voltage: 9 – 14 V

OK	Check and replace engine ECU (See page IN–20).

NG

3	Check GAUGE fuse.



PREPARATION:

Remove the GAUGE fuse from the driver side J/B.

CHECK:

Check the continuity of the GAUGE fuse.

OK:

Continuity

NG	Check for short in all harness and components connected to GAUGE fuse.

OK

4	Check glow indicator light bulb.

NG	Replace bulb.

OK

Check for open in harness and connector between combination meter and engine ECU, and combination meter and GAUGE fuse (See page IN–20).

5	**Check glow indicator lighting time (See page ST–1).**

NG → **Check and replace engine ECU (See page IN–20).**

OK

6	**Are there any DTC being output?**

YES → **Go to relevant DTC chart (See page DI–12).**

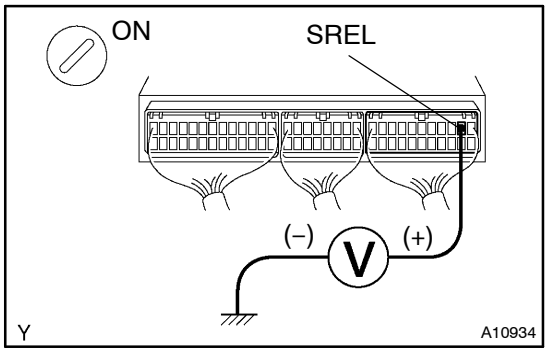
NO

7	**Check glow plug relay (See page ST–2).**

NG → **Replace glow plug relay.**

OK

8	**Check voltage between terminal SREL of engine ECU connector and body ground at cranking.**



PREPARATION:

(a) Remove the glove compartment (See page ED–25).
(b) Disconnect the E6 connector from the engine ECU.
(c) Turn the ignition switch STA.

CHECK:

Measure the voltage between terminal SREL of the engine ECU connector and body ground at cranking.

OK:

Voltage: 9 – 14 V

NG → **Check and replace engine ECU (See page IN–20).**

OK

9	Check for open and short in harness and connector between glow plug relay and engine ECU, and glow plug relay and body ground (See page IN–20).

NG → Repair or replace harness or connector.

OK

10	Check resistance of glow plug (See page ST–2).

NG → Replace glow plug.

OK

11	Inspect glow plug installation.

NG → Tighten glow plug.

OK

12	Check for open in harness and connector between glow plug relay and glow plug (See page IN–20).

NG → Repair or replace harness or connector.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI–17).