DIB6V–02

CIRCUIT INSPECTION

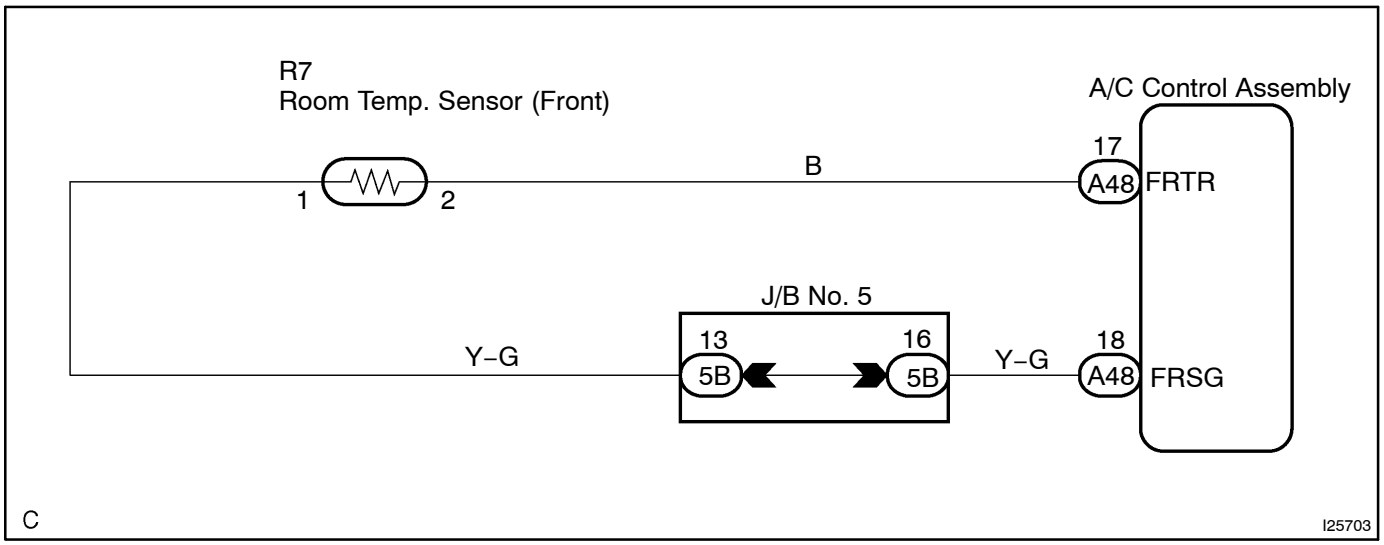
DTC	11	Front Room Temperature Sensor Circuit

CIRCUIT DESCRIPTION

This sensor detects the temperature inside the cabin (front side) and sends the appropriate signals to the A/C amplifier.

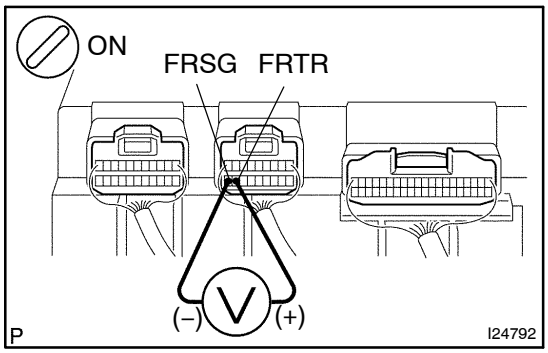
DTC No.	Detection Item	Trouble Area
11	Open or short in front room temperature sensor circuit	• Front room temp. sensor • Harness or connector between front room temp. sensor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check voltage between terminals FRTR and FRSG of A/C amplifier.**



PREPARATION:

Remove A/C amplifier with connectors still connected.

CHECK:

(a) Turn ignition switch to ON.

(b) Measure voltage between terminals FRTR and FRSG of A/C amplifier connector at each temperature.

OK:

Voltage :
at 25˚C (77˚F) : 1.8 – 2.2 V
at 40˚C (104˚F) : 1.2 – 1.6 V

HINT:

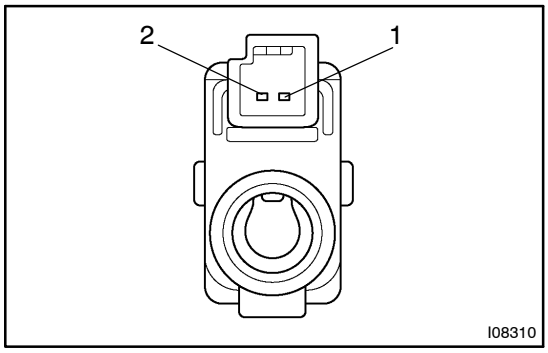
As the temperature increases, the voltage decreases.

NG → **Go to step 2.**

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI–1758). However, if DTC 11 is displayed, check and replace A/C amplifier.

2	Check front room temperature sensor.



PREPARATION:
Disconnect front room temperature sensor connector.
CHECK:
Measure resistance between terminals 1 and 2 of front room temperature sensor connector at each temperature.
OK:

Resistance :
at 25°C (77°F) : 1.65 – 1.75 kΩ
at 50°C (122°F) : 0.55 – 0.65 kΩ

HINT:
As the temperature increases, the resistance decreases.

NG	Replace front room temperature sensor.

OK

3	Check harness and connector between A/C amplifier and front room temperature sensor (See page IN–36).

NG	Repair or replace harness or connector.

OK

Check and replace A/C amplifier.