

CIRCUIT INSPECTION

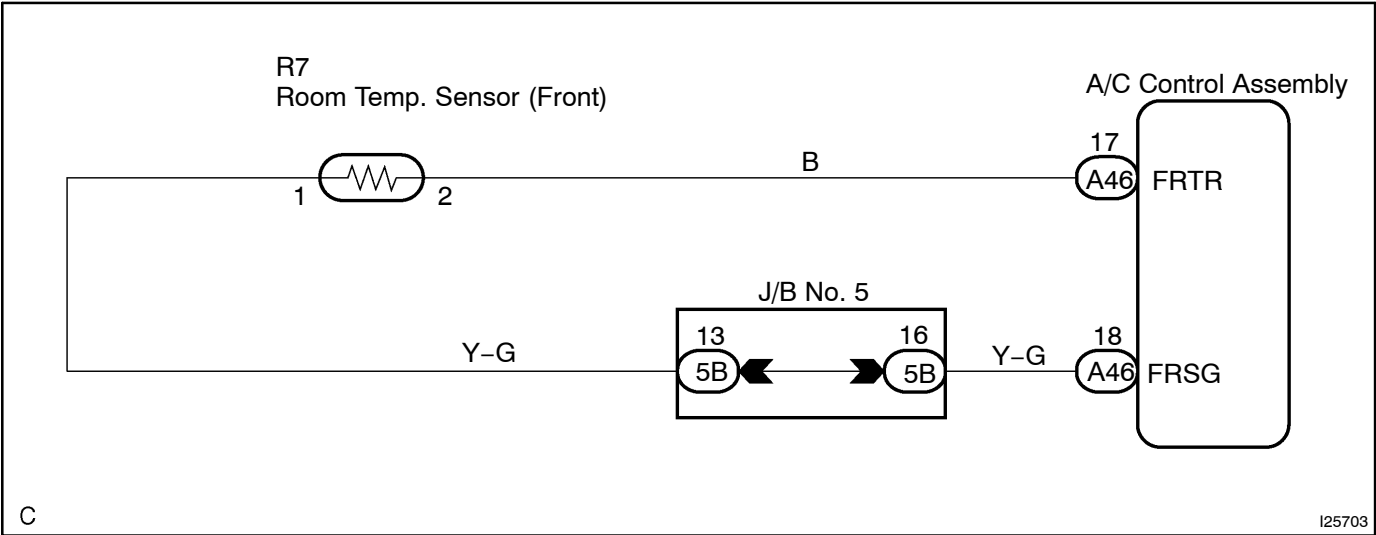
DTC	11	Front Room Temperature Sensor Circuit
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CIRCUIT DESCRIPTION

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

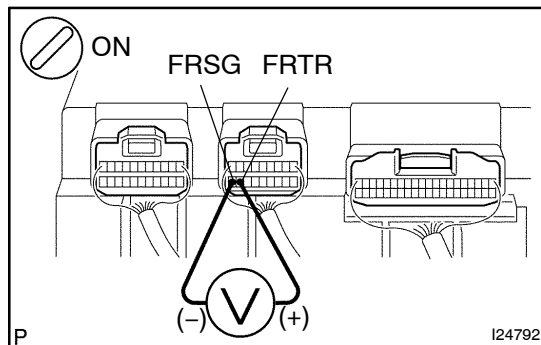
DTC No.	Detection Item	Trouble Area
11	Open or short in front room temperature sensor circuit	• Front room temp. sensor • Harness or connector between front room temp. sensor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

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

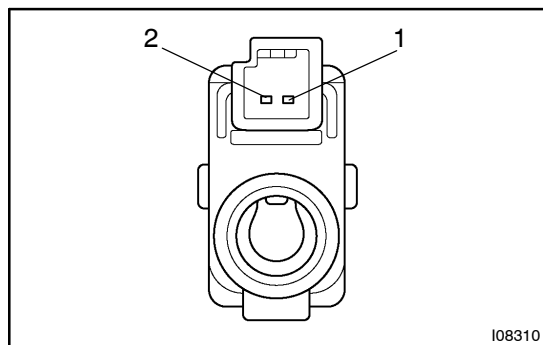
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Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-1086](#)). 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.

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Replace front room temperature sensor.

OK

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

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Repair or replace harness or connector.

OK

Check and replace A/C amplifier.