

## CIRCUIT INSPECTION

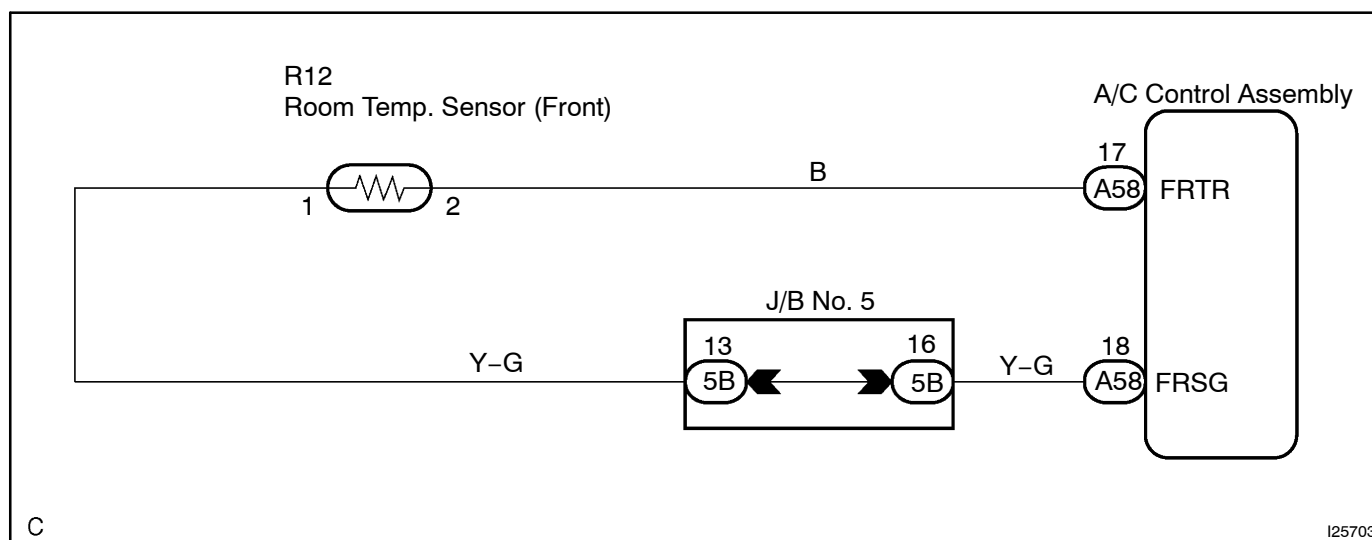
<b>DTC</b>	<b>11</b>	<b>Front Room Temperature Sensor Circuit</b>
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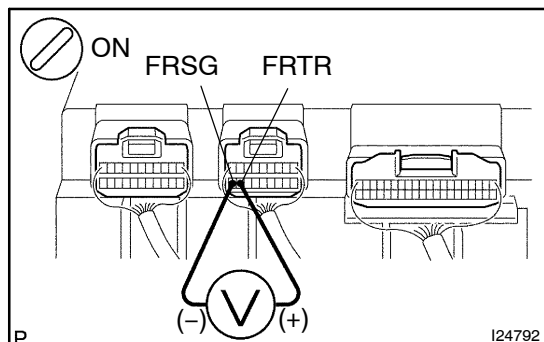
## CIRCUIT DESCRIPTION

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	<ul style="list-style-type: none"> <li>• Front room temp. sensor</li> <li>• Harness or connector between front room temp. sensor and A/C amplifier</li> <li>• A/C amplifier</li> </ul>

## 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

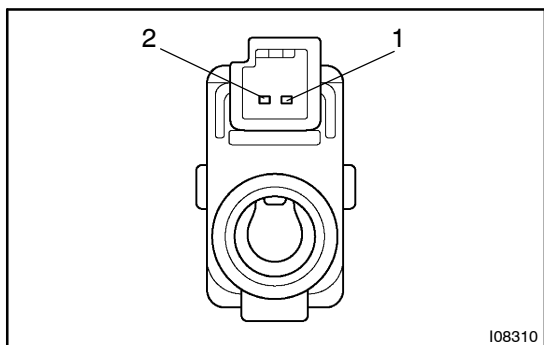
at 40° C (104° F) : 1.2 – 1.6 V

**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-1238](#)). 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 k $\Omega$

at 50° C (122° F) : 0.55 – 0.65 k $\Omega$

**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-38).****NG****Repair or replace harness or connector.****OK****Check and replace A/C amplifier.**