

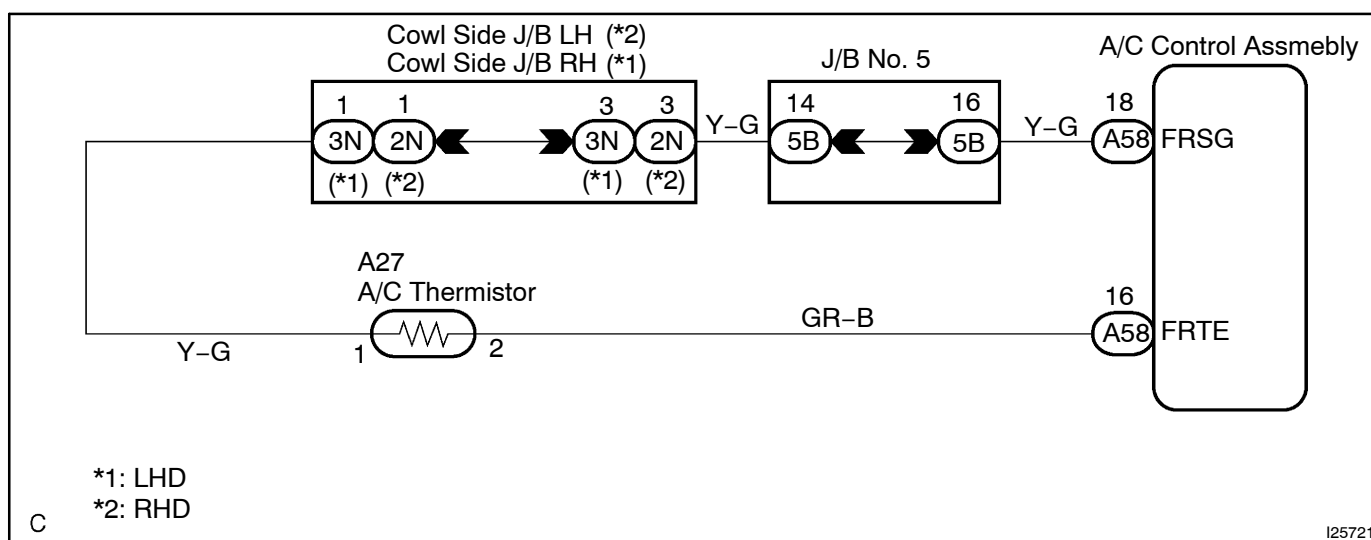
<b>DTC</b>	<b>13</b>	<b>Front Evaporator Temperature Sensor circuit</b>
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## CIRCUIT DESCRIPTION

This sensor detects the temperature inside the cooling unit and sends the appropriate signals to the A/C amplifier.

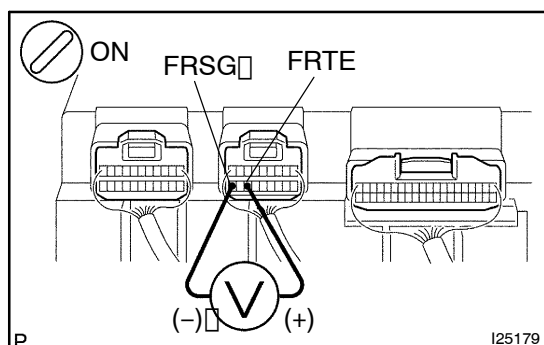
DTC No.	Detection Item	Trouble Area
13	Open or short in front evaporator temperature sensor circuit	<ul style="list-style-type: none"> <li>• Front evaporator temp. sensor</li> <li>• Harness or connector between front evaporator temp. sensor and A/C amplifier</li> <li>• A/C amplifier</li> </ul>

## WIRING DIAGRAM



## INSPECTION PROCEDURE

## 1 Check voltage between terminals FRTE and FRSG of A/C amplifier.

**PREPARATION:**

Remove A/C amplifier with connectors still connected.

**CHECK:**

- Turn ignition switch to ON.
- Measure voltage between terminals FRTE and FRSG of A/C amplifier connector at each temperature.

**OK:****Voltage**

at 0°C (32°F) : 2.0 – 2.4 V

at 15°C (59°F) : 1.4 – 1.8 V

**HINT:**

As the temperature increases, the voltage decreases.

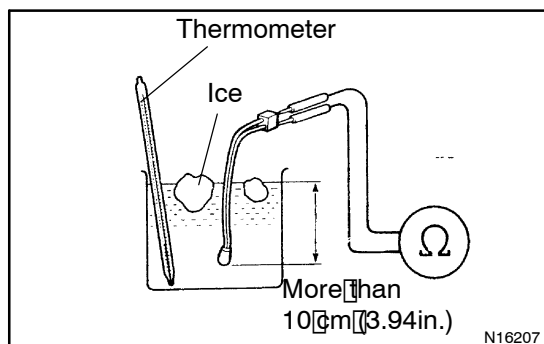
NG

Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-1238). However, if DTC 13 is displayed, check and replace A/C amplifier.

## 2 Check front evaporator temperature sensor.

**PREPARATION:**

Remove front evaporator temperature sensor.

**CHECK:**

Measure resistance between terminals 1 and 2 of evaporator temperature sensor connector at each temperature.

**OK:****Resistance :**

at 0°C (32°F) : 4.5 – 5.2 kΩ

at 15°C (59°F) : 2.0 – 2.7 kΩ

**HINT:**

As the temperature increases, the resistance decreases.

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Replace front evaporator temperature sensor.

OK

3 Check harness and connector between front evaporator temperature sensor and A/C amplifier (See page IN-38).

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Repair or replace harness or connector.

OK

Check and replace A/C amplifier.