

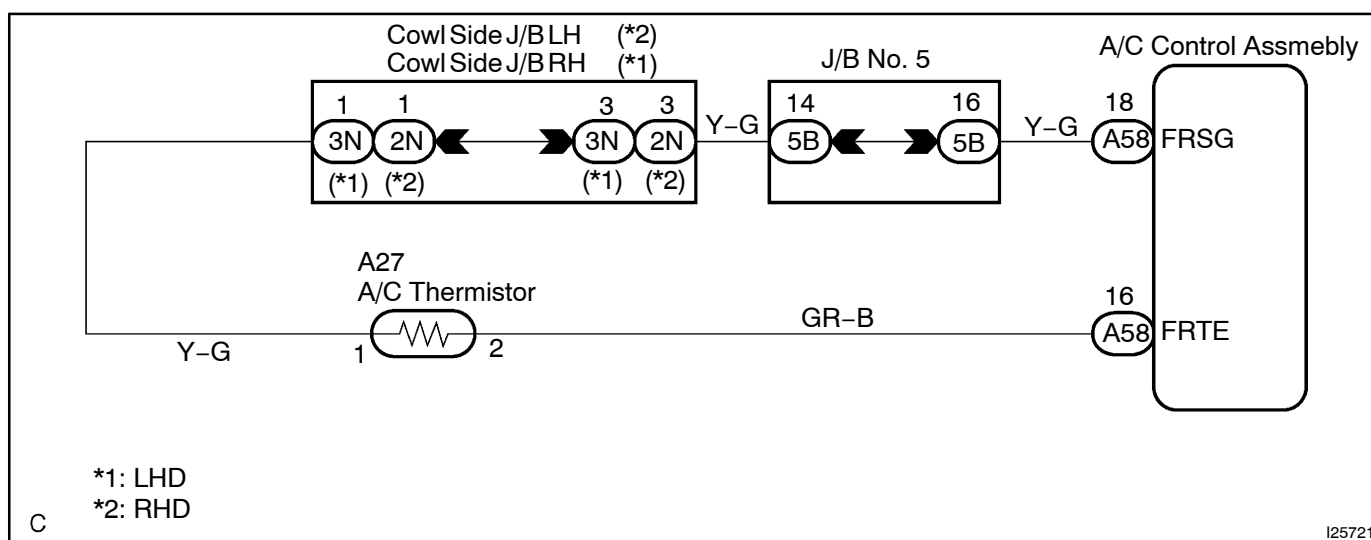
DTC	13	Front Evaporator Temperature Sensor circuit
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CIRCUIT DESCRIPTION

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

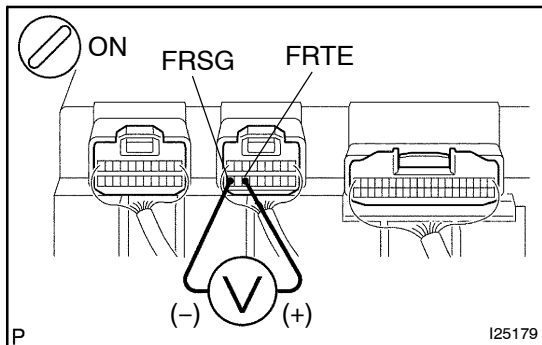
DTC No.	Detection Item	Trouble Area
13	Open or short in front evaporator temperature sensor circuit	<ul style="list-style-type: none"> • Front evaporator temp. sensor • Harness or connector between front evaporator temp. sensor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminals FRTE 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 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:

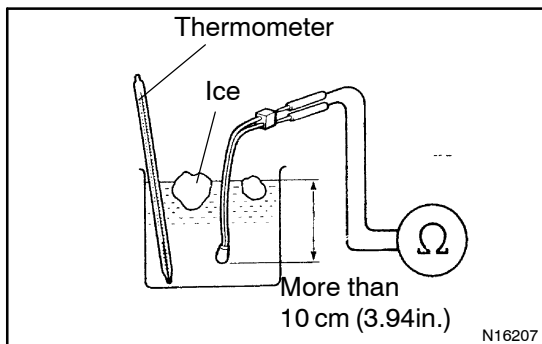
As the temperature increases, the voltage decreases.

NG	Go to step 2.
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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.
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**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 k Ω

at 15° C (59° F) : 2.0 – 2.7 k Ω

HINT:

As the temperature increases, the resistance decreases.

NG	Replace front evaporator temperature sensor.
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OK

3**Check harness and connector between front evaporator temperature sensor and A/C amplifier ([See page IN-38](#)).****NG****Repair or replace harness or connector.****OK****Check and replace A/C amplifier.**