

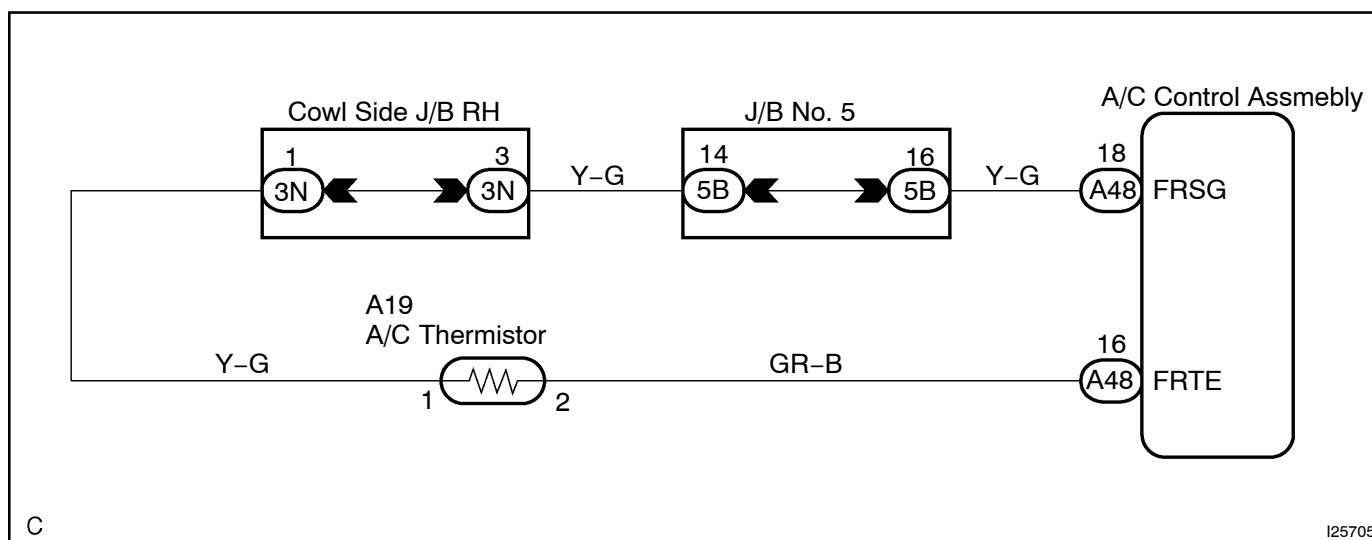
DTC	13	Front Evaporator Temperature Sensor circuit
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CIRCUIT DESCRIPTION

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

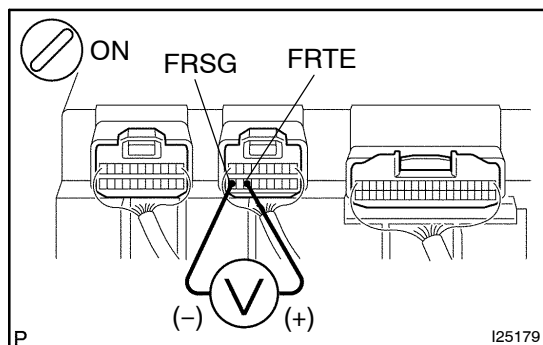
DTC No.	Detection Item	Trouble Area
13	Open or short in front evaporator temperature sensor circuit	• Front evaporator temp. sensor • Harness or connector between front evaporator temp. sensor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

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



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.

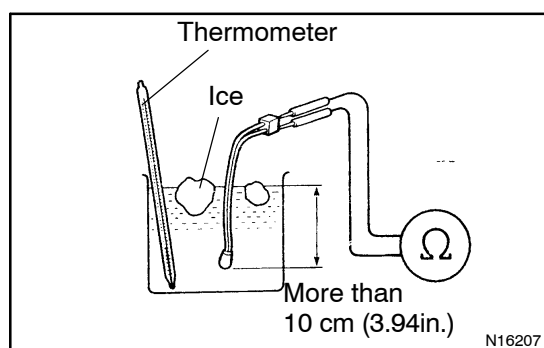
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Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-1529](#)). 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:

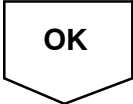
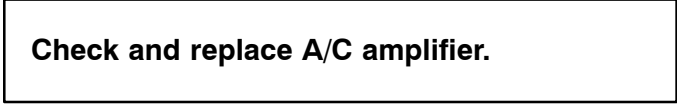
As the temperature increases, the resistance decreases.

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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-36).
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NGRepair or replace harness or connector.OKCheck and replace A/C amplifier.