

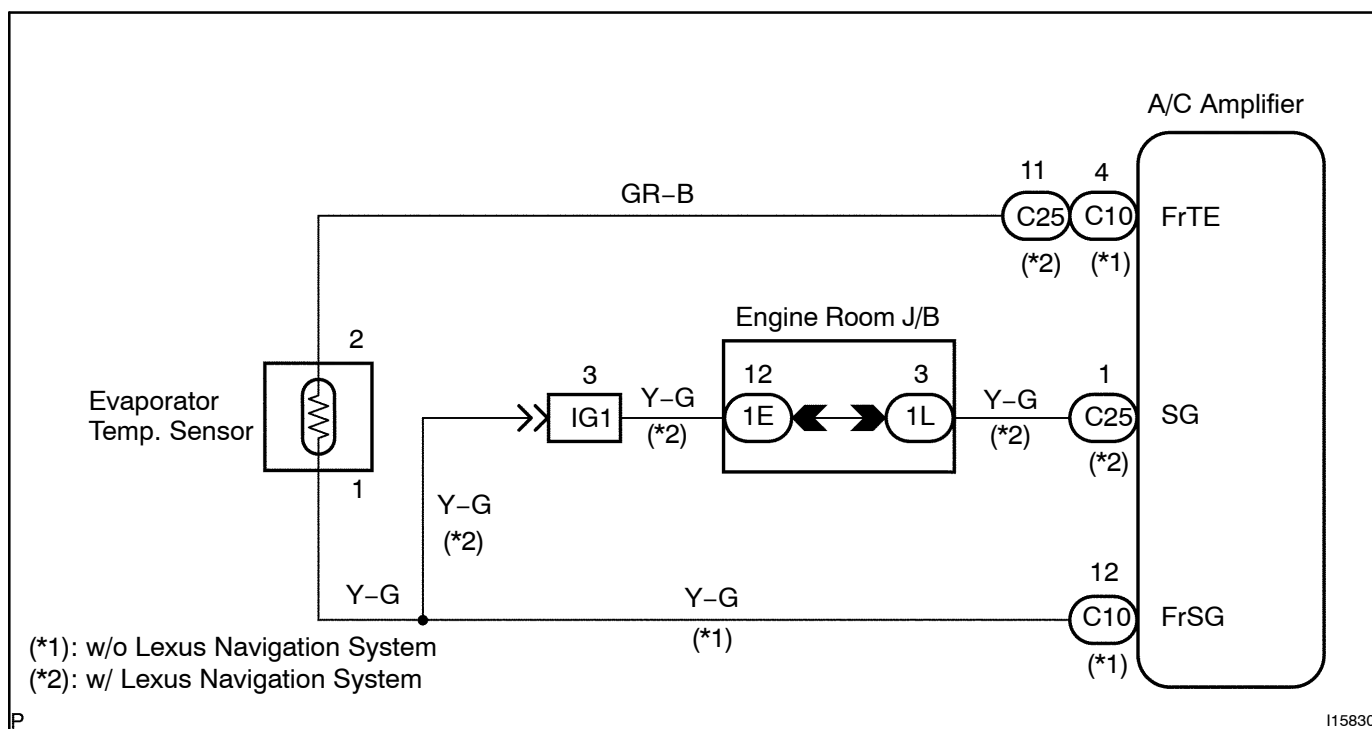
DTC	13	Front Evaporator Temperature Sensor circuit
------------	-----------	--

CIRCUIT DESCRIPTION

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

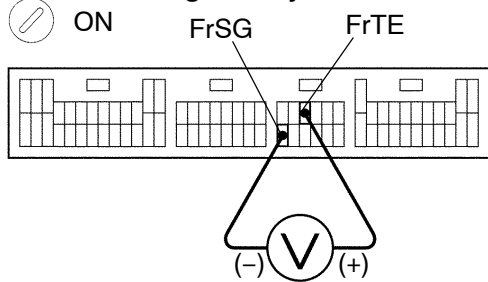
DTC No.	Detection Item	Trouble Area
13	Open or short in front evaporator temperature sensor circuit.	• Front evaporator temperature sensor. • Harness or connector between front evaporator temperature sensor and A/C amplifier. • A/C amplifier.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminals FrTE and FrSG of A/C amplifier connector.
----------	--

w/o Lexus navigation system:

I09925

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.

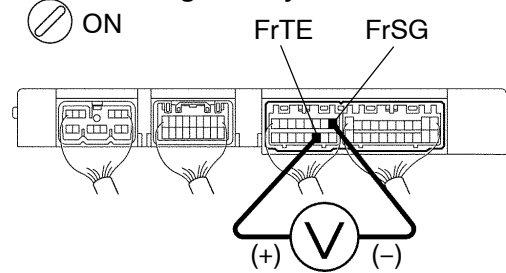
OK:**Voltage :**

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.****w/ Lexus navigation system:**

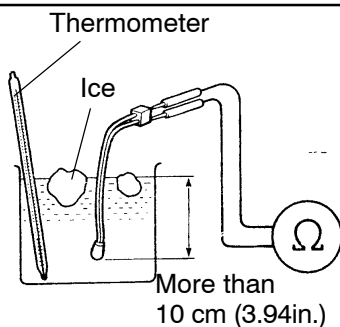
P

I15796

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-937](#)). However, if DTC 13 is displayed, check and replace A/C amplifier.

2	Check front evaporator temperature sensor.
----------	---



N16207

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.**

OK

3

Check harness and connector between A/C amplifier and front evaporator temperature sensor (See page [IN-34](#)).

NG

Repair or replace harness or connector.

OK

Check and replace A/C amplifier.