

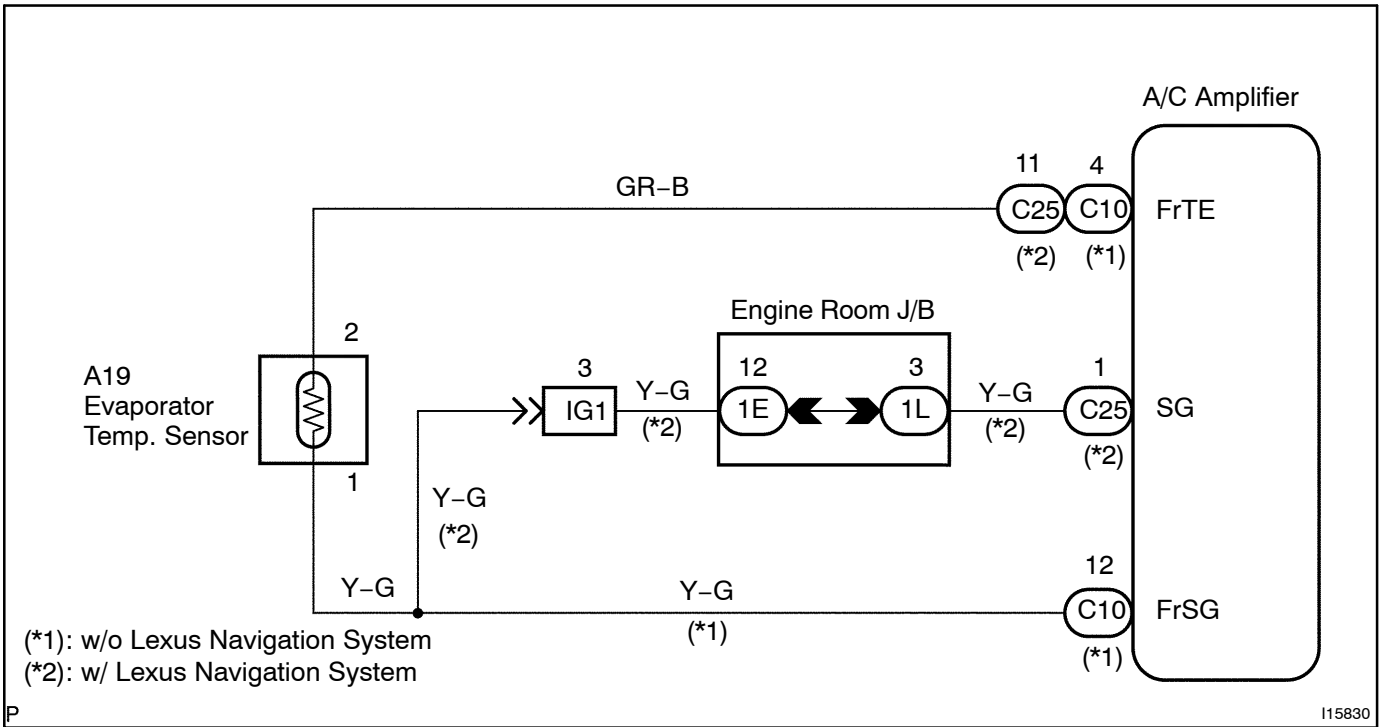
DTC	13	Front Evaporator Temperature Sensor circuit
------------	-----------	--

CIRCUIT DESCRIPTION

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

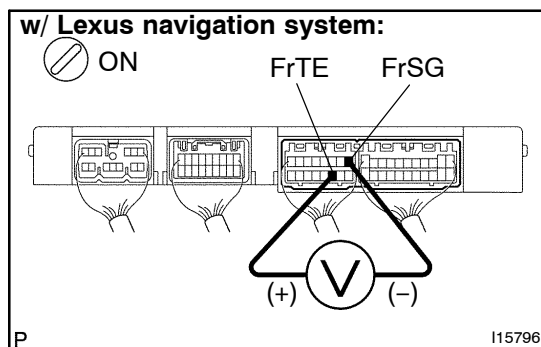
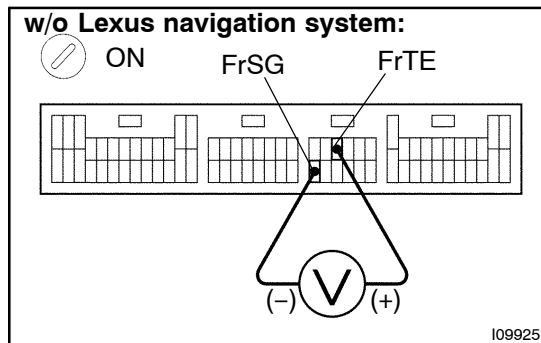
DTC No.	Detection Item	Trouble Area
13	Open or short in front evaporator temperature sensor circuit.	• Front evaporator temperature sensor. • Harness or connector between front evaporator temperature sensor and A/C amplifier. • A/C amplifier.

WIRING DIAGRAM



INSPECTION PROCEDURE

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

**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.

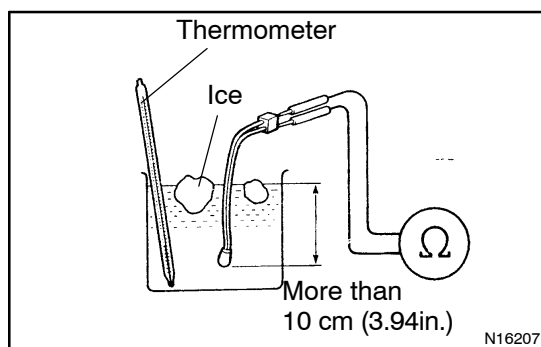
NG

Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-956](#)). 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

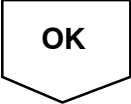
at 15°C (59°F) : 2.0 – 2.7 kΩ

HINT:

As the temperature increases, the resistance decreases.

NG

Replace front evaporator temperature sensor.



OK

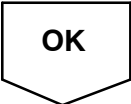
3

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.