

DTC	RrDEF, FOOT	Front Evaporator Temperature Sensor Circuit
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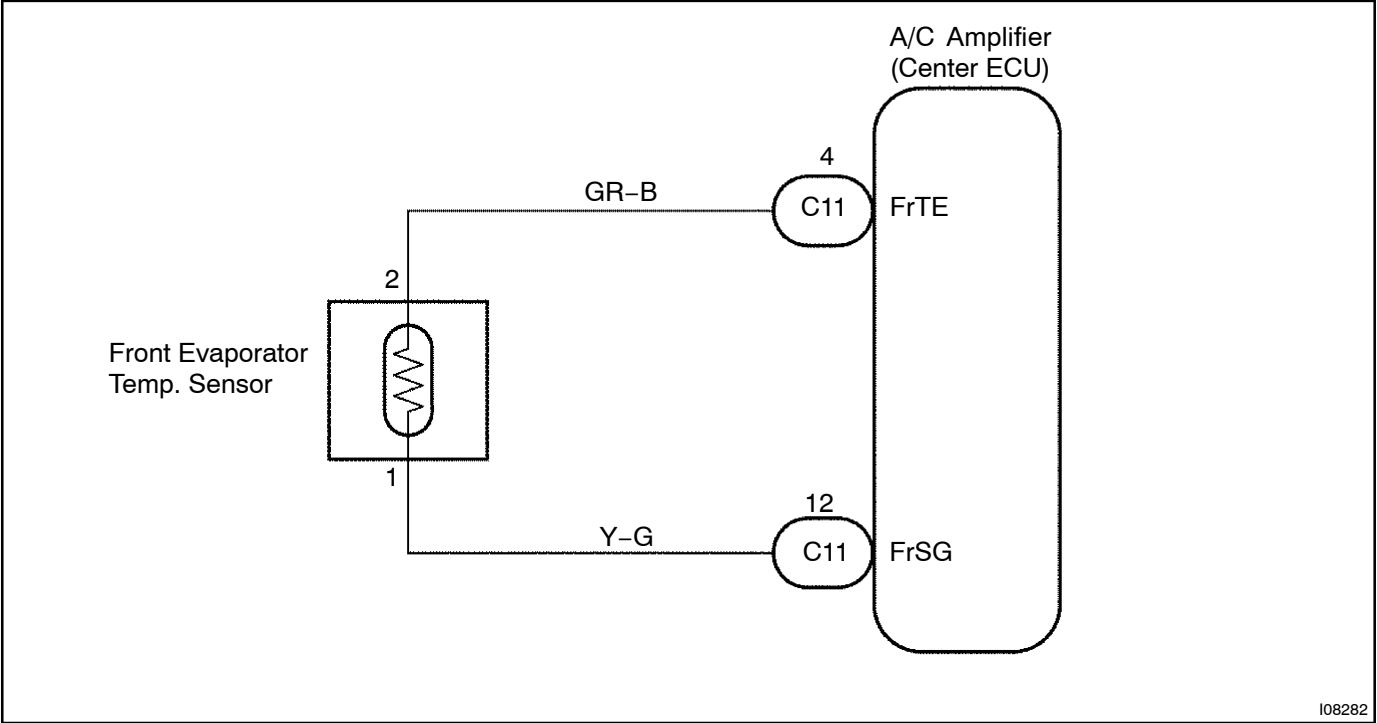
DTC	13	Front Evaporator Temperature Sensor circuit
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CIRCUIT DESCRIPTION

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

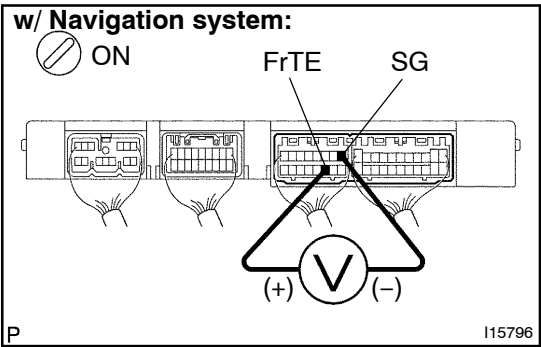
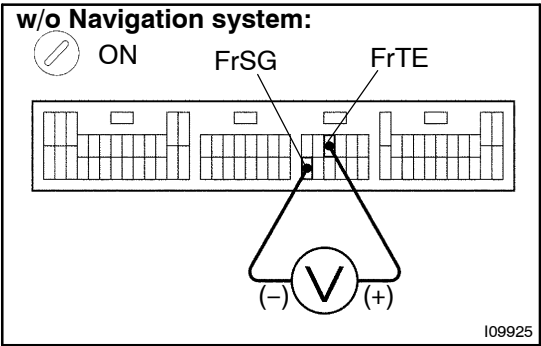
Blinking light	Detection Item	Trouble Area
RrDEF FOOT	Open or short in evaporator temperature sensor circuit.	• Evaporator temperature sensor • Harness or connector between evaporator temperature sensor and A/C amplifier • A/C amplifier
DTC No.	Detection Item	Trouble Area
13	Open or short in evaporator temperature sensor circuit.	• Evaporator temperature sensor • Harness or connector between evaporator temperature sensor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminals FrTE and FrSG (or SG) of A/C amplifier connector.
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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 (or SG) of A/C amplifier connector at each temperature.

OK:

Voltage :

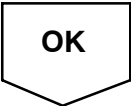
at 0°C (32°F) : 2.0 – 2.4 V

at 15°C (59°F) : 1.4 – 1.8 V

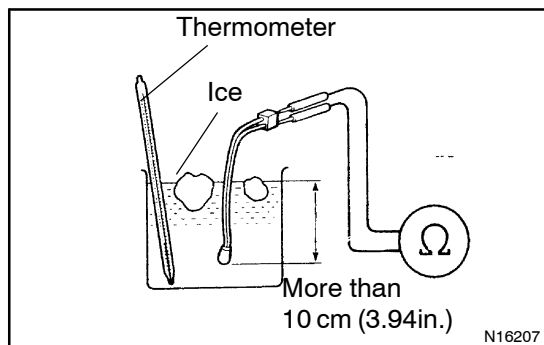
HINT:

As the temperature increases, the voltage decreases.

NG	Go to step 2.
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Proceed to next circuit inspection shown on problem symptoms table (See page DI-130). However, if RrDEF and FOOT indicators light up (or DTC 13 is displayed), check and replace amplifier.

2 Check front evaporator temperature sensor.**PREPARATION:**

Remove front evaporator temperature sensor.

CHECK:

Measure resistance between terminals 1 and 2 of front 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 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.**