

CIRCUIT INSPECTION

DTC	RrDEF, FACE	Front Room Temperature Sensor Circuit
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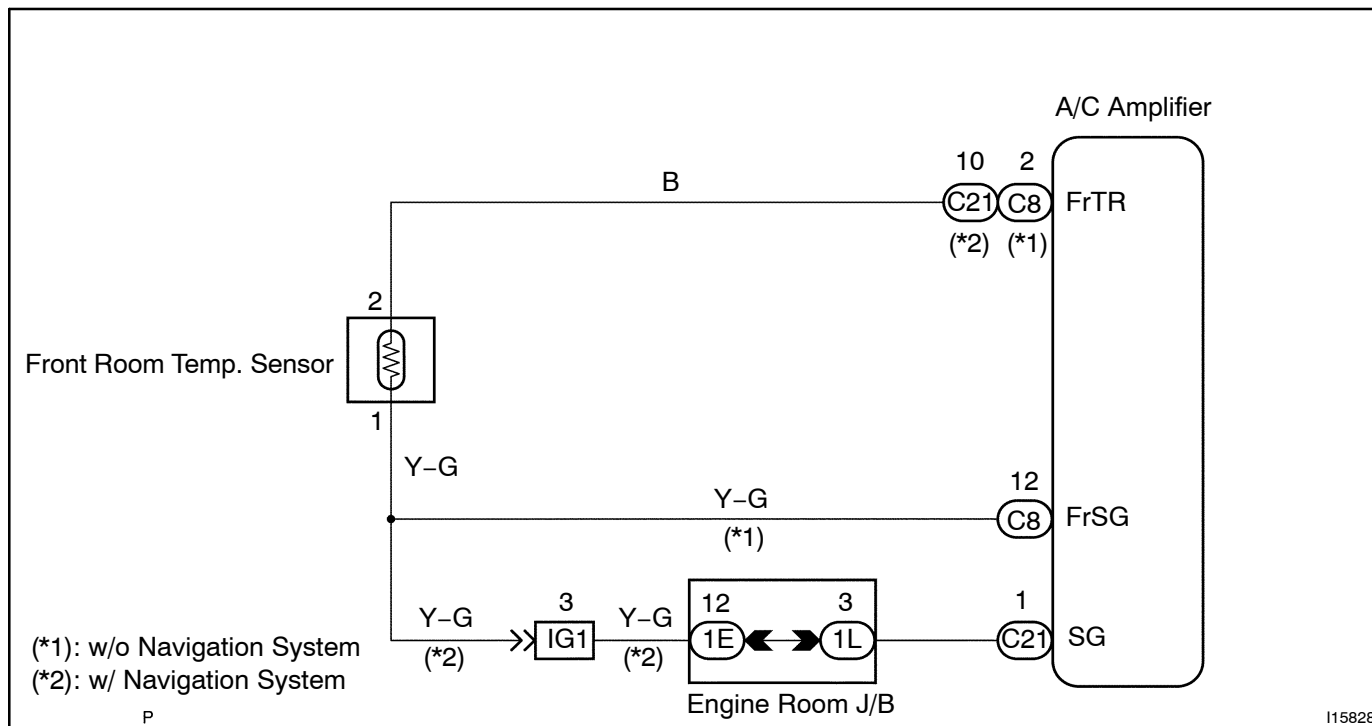
DTC	11	Front Room Temperature Sensor Circuit
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CIRCUIT DESCRIPTION

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

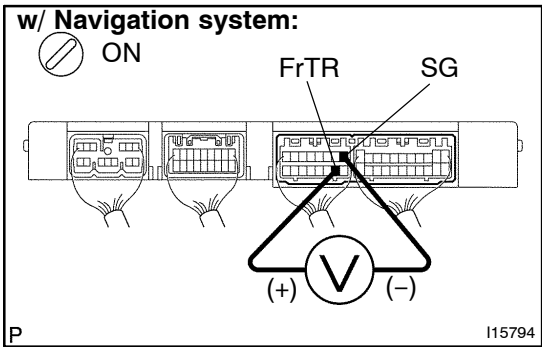
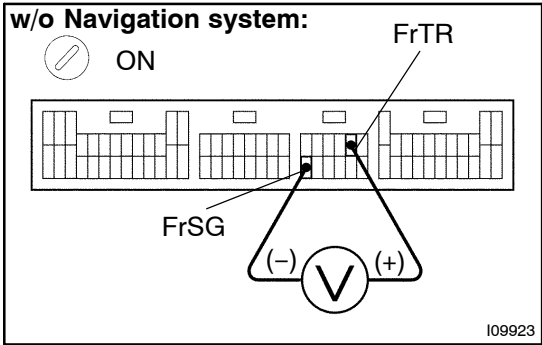
Blinking light	Detection Item	Trouble Area
RrDEF FACE	Open or short in room temperature sensor circuit.	• Front room temperature sensor • Harness or connector between room temperature sensor and A/C amplifier • A/C amplifier
DTC No.	Detection Item	Trouble Area
11	Open or short in room temperature sensor circuit.	• Front room temperature sensor • Harness or connector between room temperature sensor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminals FrTR and FrSG (or SG) of A/C amplifier connector.
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PREPARATION:

Remove A/C amplifier with connectors still connected.

CHECK:

- Turn ignition switch to ON.
- Measure voltage between terminals FrTR and FrSG (or SG) of A/C amplifier connector at each temperature.

OK:

Voltage :

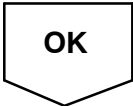
at 25°C (77°F) : 1.8 – 2.2 V

at 40°C (104°F) : 1.2 – 1.6 V

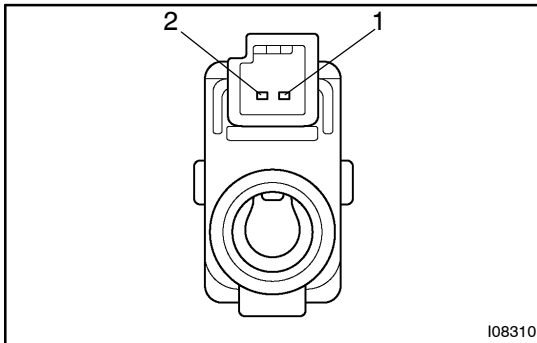
HINT:

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-891). However, if RrDEF and FACE indicators light up (or DTC 11 is displayed), check and replace amplifier.
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2 Check front room temperature sensor.**PREPARATION:**

Disconnect room temperature sensor connector.

CHECK:

Measure resistance between terminals 1 and 2 of room temperature sensor connector at each temperature.

OK:**Resistance :**

at 25°C (77°F) : 1.65 – 1.75 kΩ

at 50°C (122°F) : 0.55 – 0.65 kΩ

HINT:

As the temperature increases, the resistance decreases.

NG**Replace front room temperature sensor.****OK****3 Check harness and connector between A/C amplifier and front room temperature sensor (See page IN-34).****NG****Repair or replace harness or connector.****OK****Check and replace A/C amplifier.**