DI881–02

CIRCUIT INSPECTION

DTC	RrDEF, FACE	Front Room Temperature Sensor Circuit

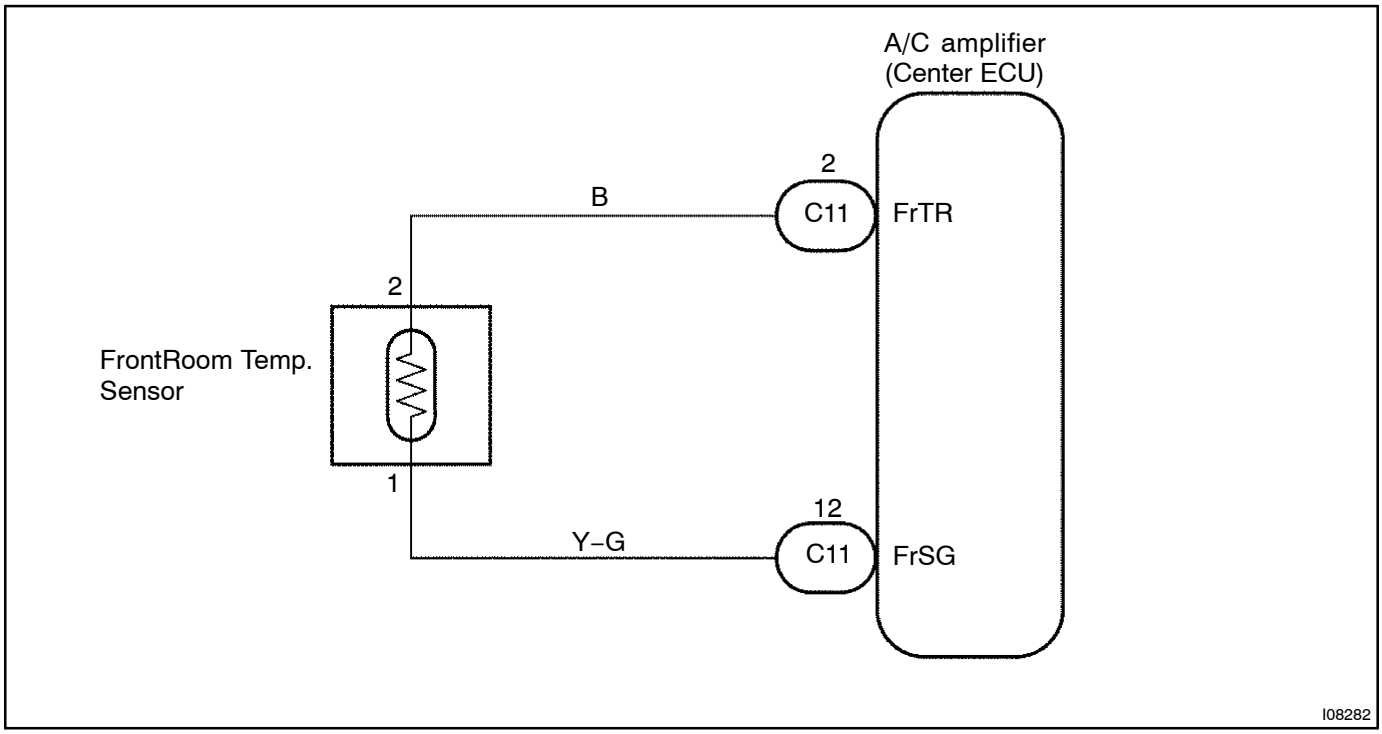
DTC	11	Front Room Temperature Sensor Circuit

CIRCUIT DESCRIPTION

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

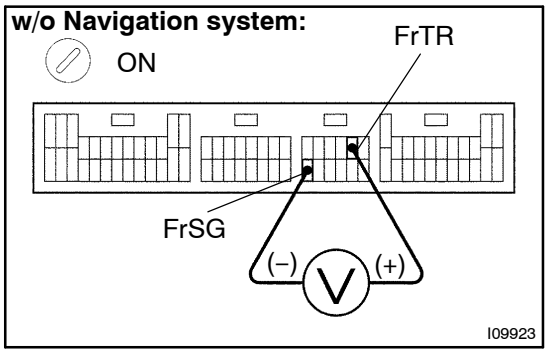
Blinking light	Detection Item	Trouble Area
RrDEF FACE	Open or short in room temperature sensor circuit.	• Front room temperature sensor • Harness or connector between room temperature sensor and A/C amplifier • A/C amplifier
DTC No.	Detection Item	Trouble Area
11	Open or short in room temperature sensor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

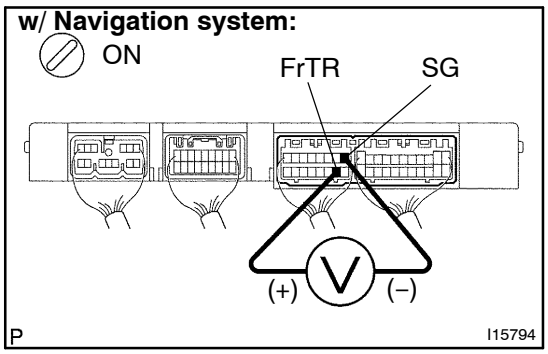
WIRING DIAGRAM



INSPECTION PROCEDURE

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





PREPARATION:

Remove A/C amplifier with connectors still connected.

CHECK:

(a) Turn ignition switch to ON.

(b) 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:

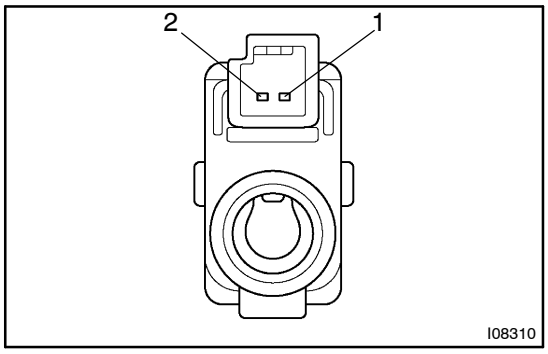
As the temperature increases, the voltage decreases.

NG	**Go to step 2.**

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI–130). However, if RrDEF and FACE indicators light up (or DTC 11 is displayed), check and replace amplifier.

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.