

## CIRCUIT INSPECTION

<b>DTC</b>	<b>RrDEF, FACE</b>	<b>Front Room Temperature Sensor Circuit</b>
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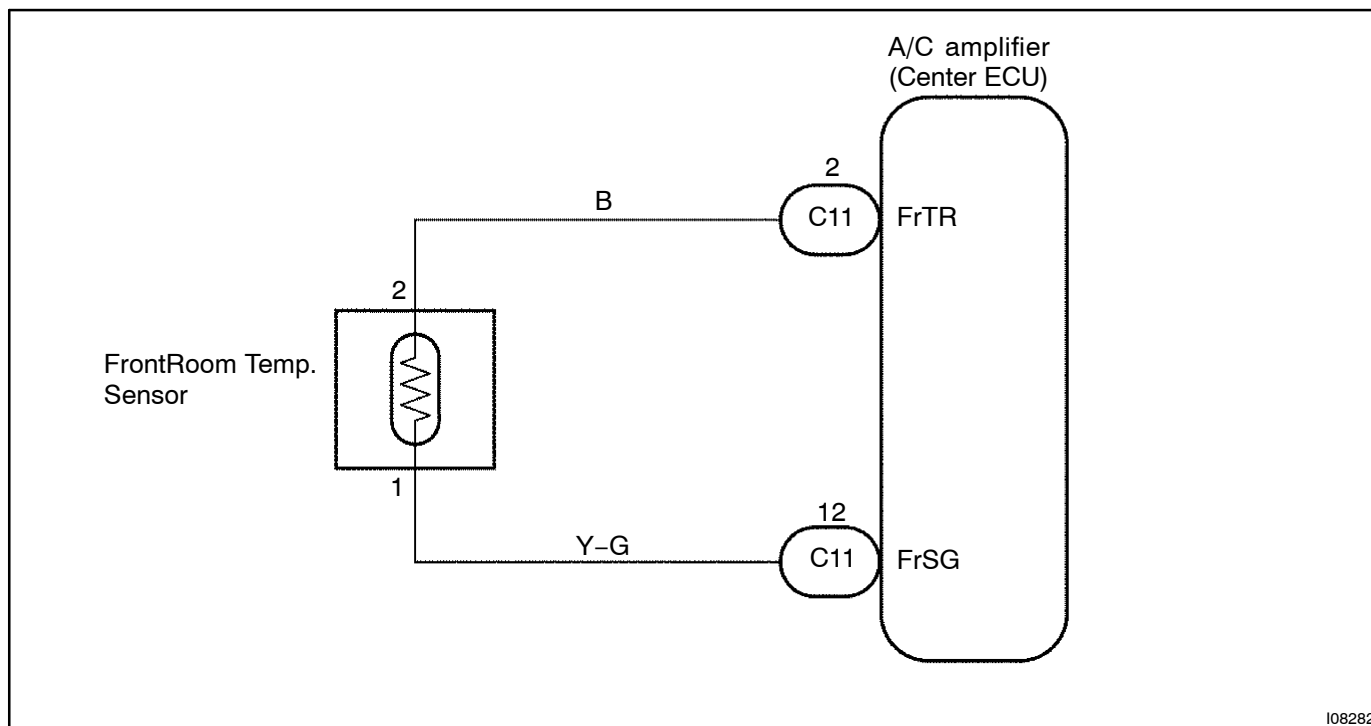
<b>DTC</b>	<b>11</b>	<b>Front Room Temperature Sensor Circuit</b>
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## CIRCUIT DESCRIPTION

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.	<ul style="list-style-type: none"> <li>• Front room temperature sensor</li> <li>• Harness or connector between room temperature sensor and A/C amplifier</li> <li>• A/C amplifier</li> </ul>
DTC No.	Detection Item	Trouble Area
11	Open or short in room temperature sensor circuit.	<ul style="list-style-type: none"> <li>• Front room temperature sensor</li> <li>• Harness or connector between room temperature sensor and A/C amplifier</li> <li>• A/C amplifier</li> </ul>

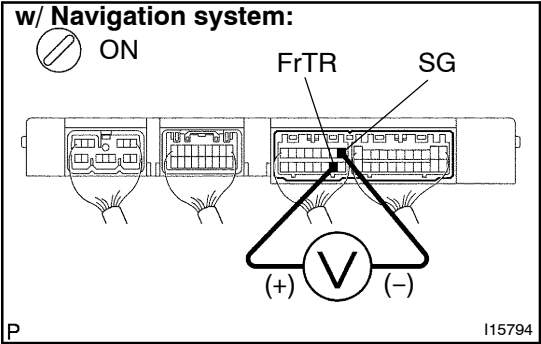
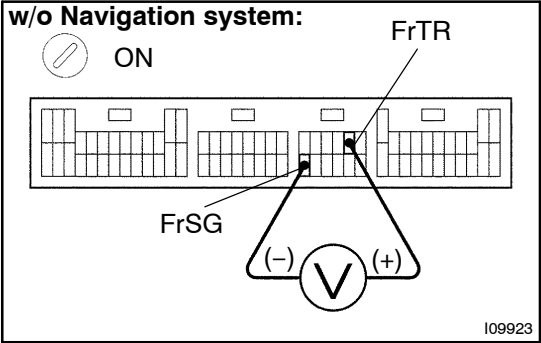
## WIRING DIAGRAM



I08282

# 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**

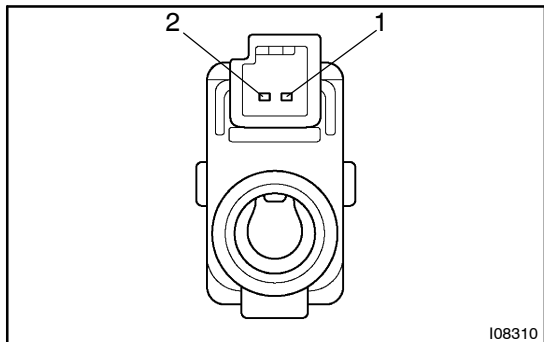
## HINT:

As the temperature increases, the voltage decreases.

NG	Go to step 2.
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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 k $\Omega$

at 50° C (122° F) : 0.55 – 0.65 k $\Omega$

**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.**