

CIRCUIT INSPECTION

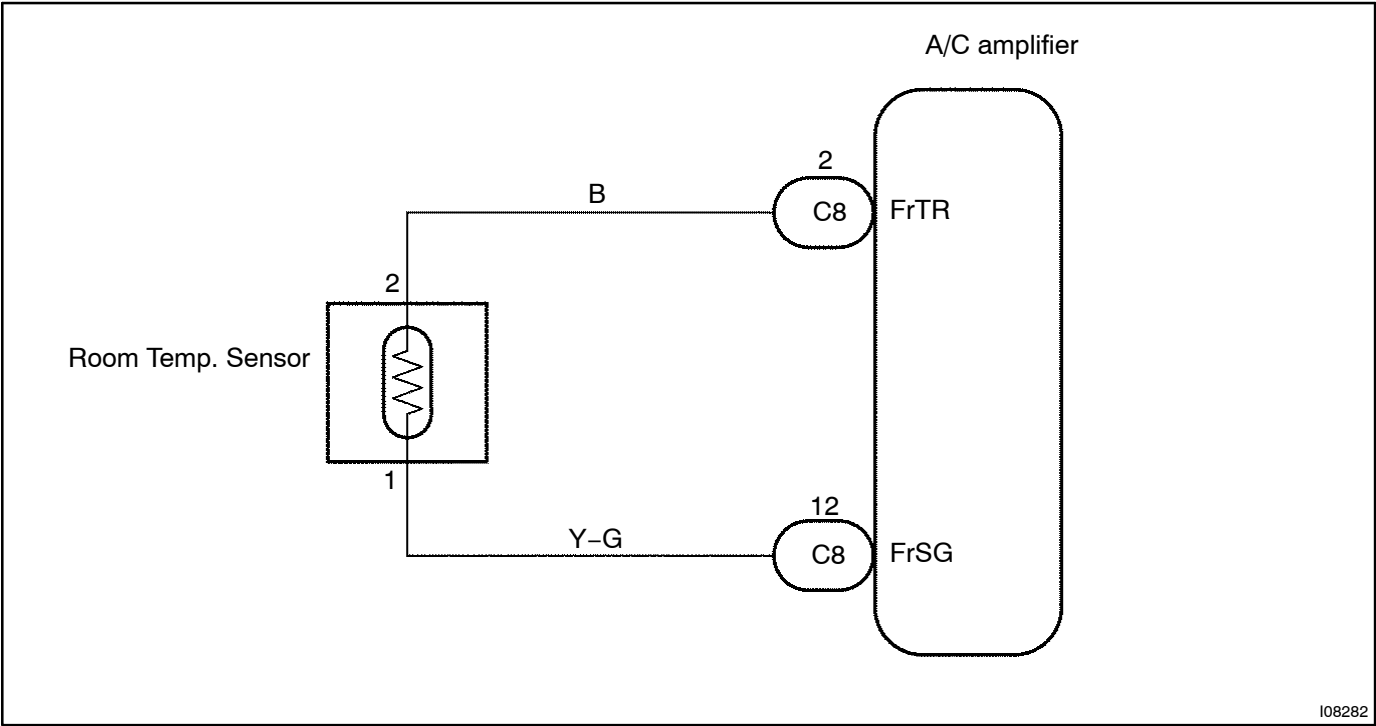
|     |             |                                 |
|-----|-------------|---------------------------------|
| DTC | RrDEF, FACE | Room Temperature Sensor Circuit |
|-----|-------------|---------------------------------|

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<br>FACE  | Open or short in room temperature sensor circuit. | <ul style="list-style-type: none"><li>Room temperature sensor</li><li>Harness or connector between room temperature sensor and A/C amplifier</li><li>A/C amplifier</li></ul> |

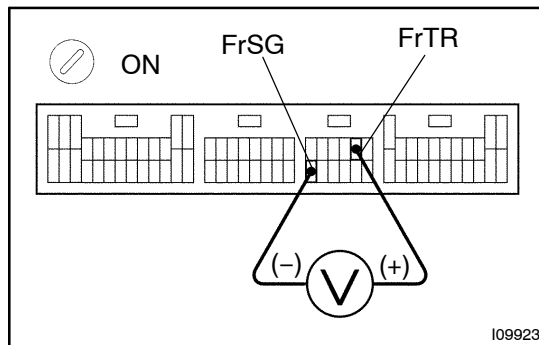
WIRING DIAGRAM



I08282

**INSPECTION PROCEDURE**

- |          |                                                                                  |
|----------|----------------------------------------------------------------------------------|
| <b>1</b> | <b>Check voltage between terminals FrTR and FrSG of A/C amplifier connector.</b> |
|----------|----------------------------------------------------------------------------------|

**PREPARATION:**

Remove A/C amplifier with connectors still connected.

**CHECK:**

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

**OK:****Voltage :**

**at 25°C (77°F) : 1.8 – 2.2 V**

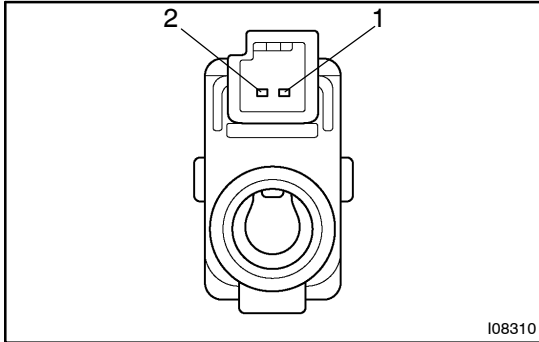
**at 40°C (104°F) : 1.2 – 1.6 V**

**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-633](#)). However, if RrDEF and FACE indicators light up, check and replace A/C amplifier.**

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