

CIRCUIT INSPECTION

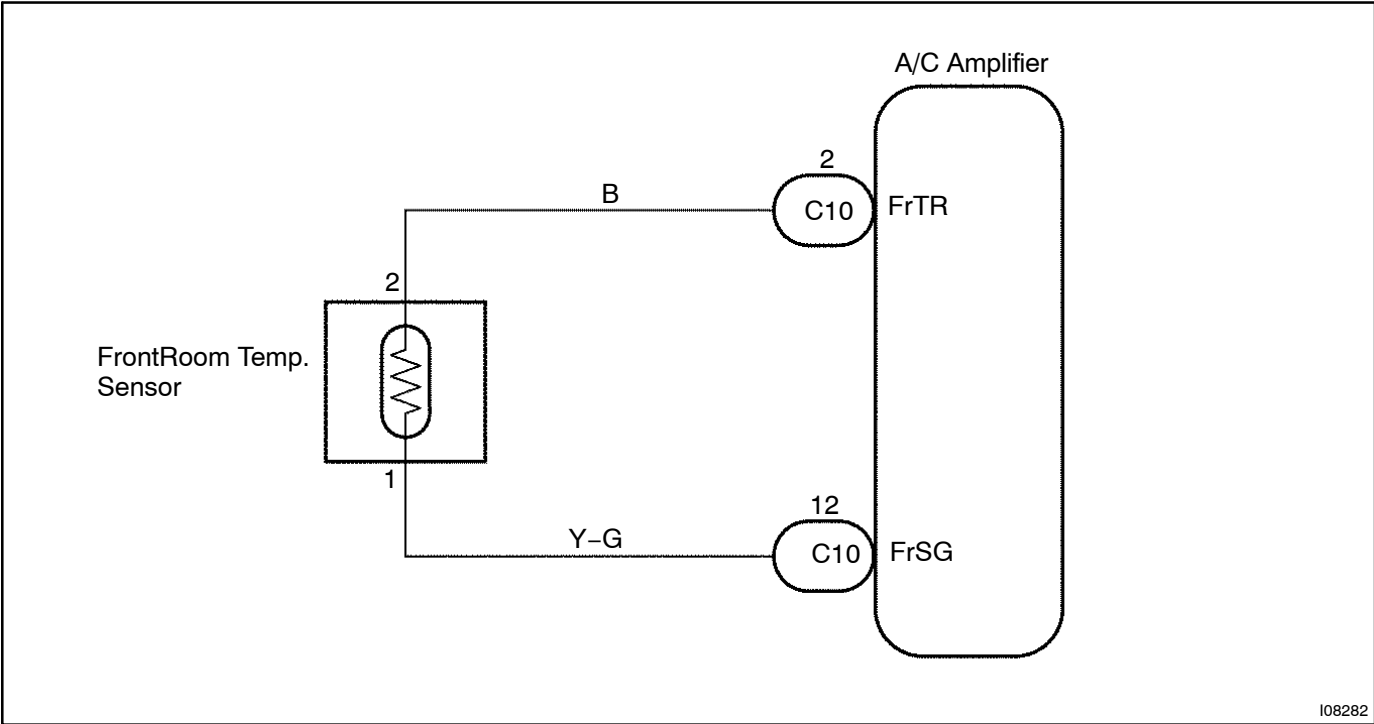
|     |    |                                       |
|-----|----|---------------------------------------|
| DTC | 11 | Front Room Temperature Sensor Circuit |
|-----|----|---------------------------------------|

CIRCUIT DESCRIPTION

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

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

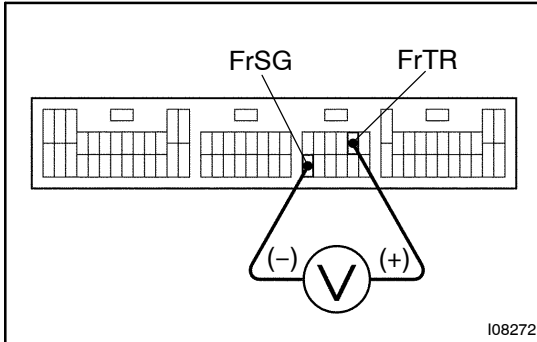
WIRING DIAGRAM



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 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:**

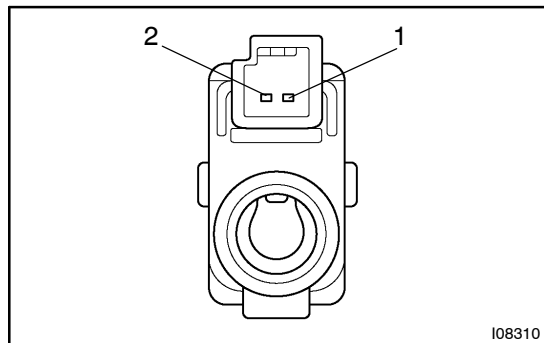
As the temperature increases, the voltage decreases.

**NG**

**Go to step 3.**

**OK**

**Proceed to next circuit inspection shown on problem symptoms table (See page [DI-769](#)). However, if DTC 11 is displayed, check and replace A/C 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.**