

CIRCUIT INSPECTION

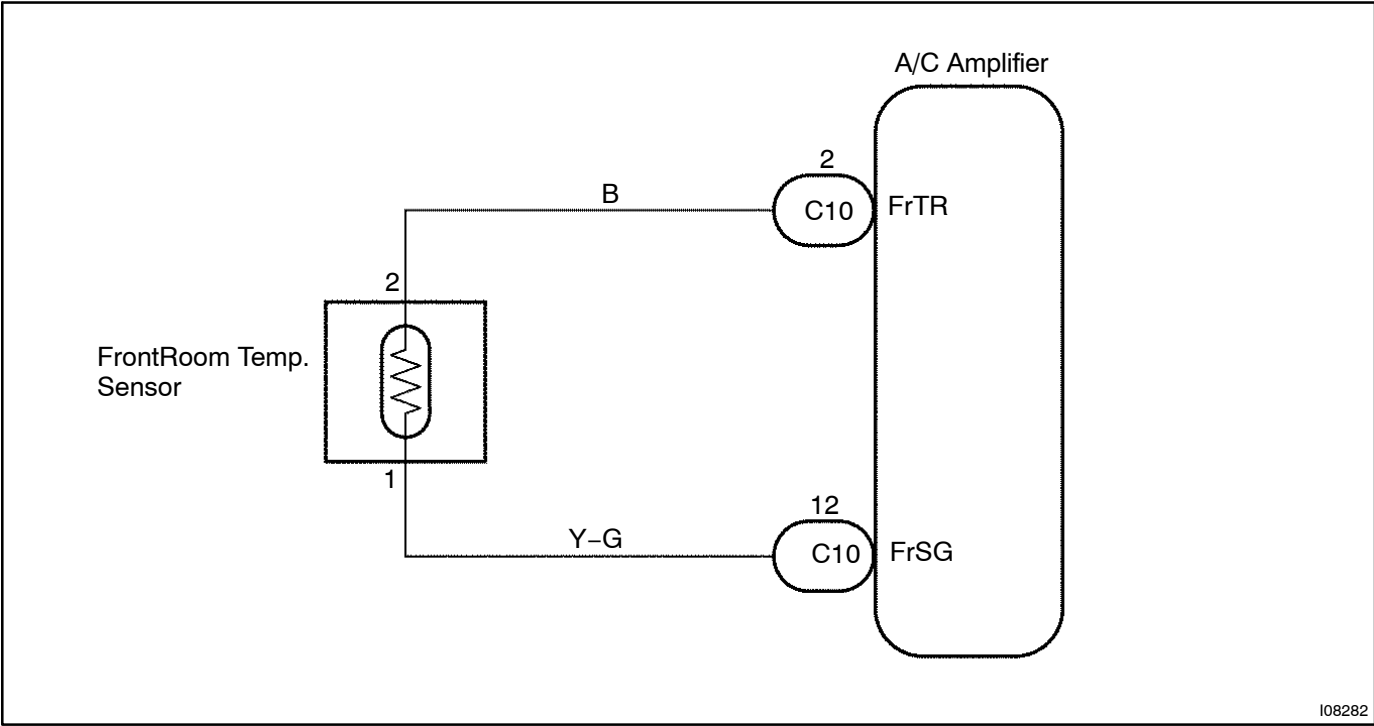
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|-----|----|---------------------------------------|
| DTC | 11 | Front Room Temperature Sensor Circuit |
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CIRCUIT DESCRIPTION

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

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

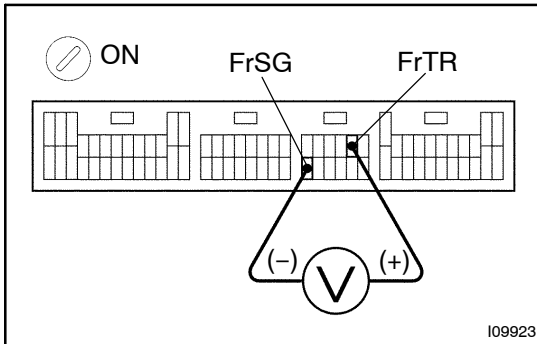
WIRING DIAGRAM



I08282

INSPECTION PROCEDURE

- | | |
|----------|--|
| 1 | Check voltage between terminals FrTR and FrSG of A/C amplifier connector. |
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**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:

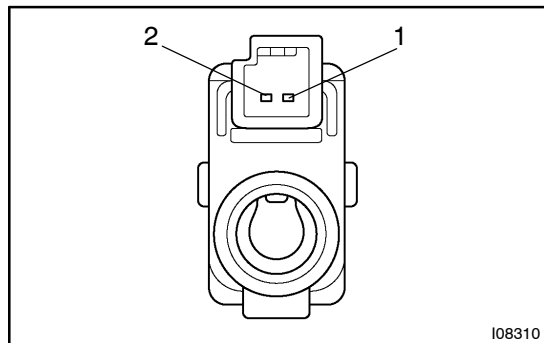
As the temperature increases, the voltage decreases.

NG

Go to step 3.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-777](#)). 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-33](#)).****NG****Repair or replace harness or connector.****OK****Check and replace A/C amplifier.**