

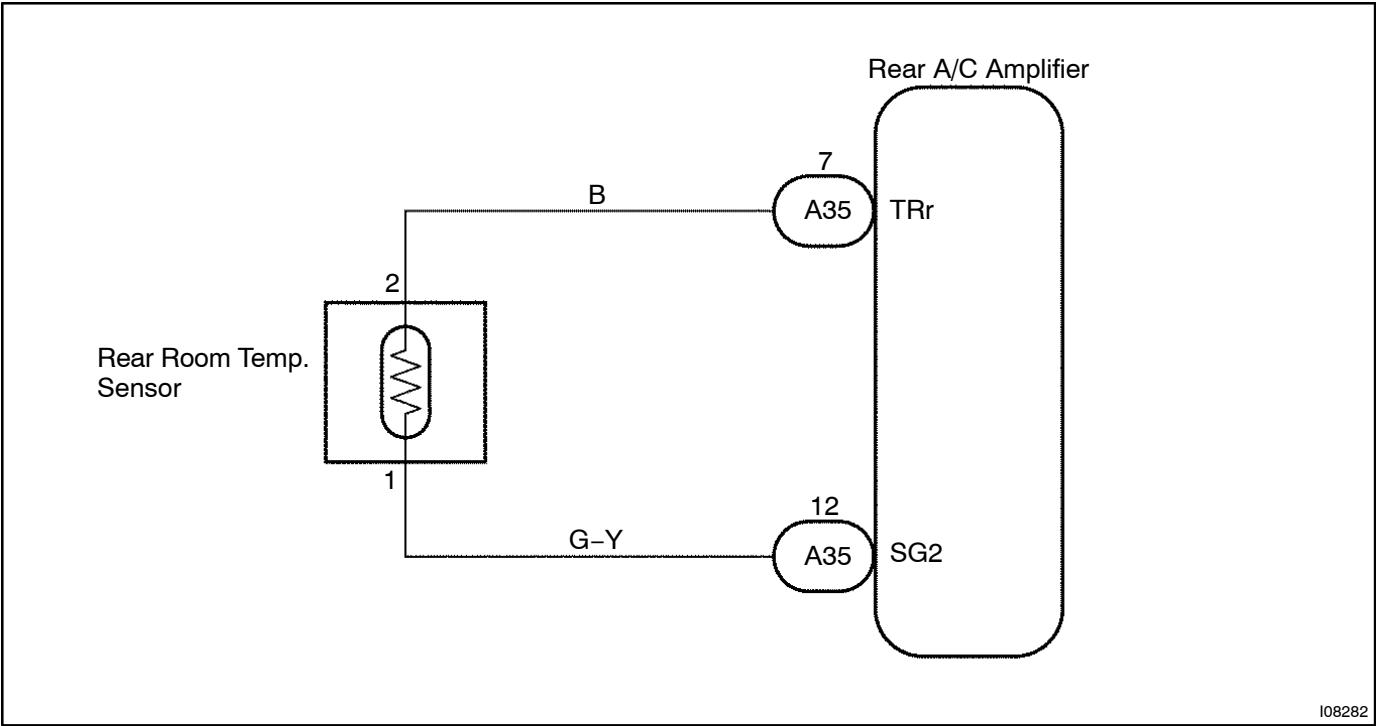
|            |           |   |
|------------|-----------|---|
| <b>DTC</b> | <b>19</b> | <b>Rear Room Temperature Sensor Circuit</b> |
|------------|-----------|---|

**CIRCUIT DESCRIPTION**

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

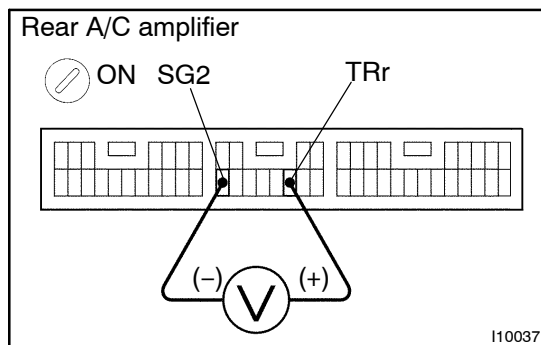
| DTC No. | Detection Item   | Trouble Area  |
|---------|--|---|
| 19      | Open or short in rear room temperature sensor circuit. | <ul style="list-style-type: none"><li>• Rear room temperature sensor.</li><li>• Harness or connector between rear room temperature sensor and rear A/C amplifier.</li><li>• Rear A/C amplifier.</li></ul> |

**WIRING DIAGRAM**



## INSPECTION PROCEDURE

|          |  |
|----------|--|
| <b>1</b> | <b>Check voltage between terminals TRr and SG2 of A/C amplifier connector.</b> |
|----------|--|

**PREPARATION:**

Remove rear A/C amplifier with connectors still connected.

**CHECK:**

- (a) Turn ignition switch to ON.
- (b) Measure voltage between terminals TRr and SG2 of rear 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.

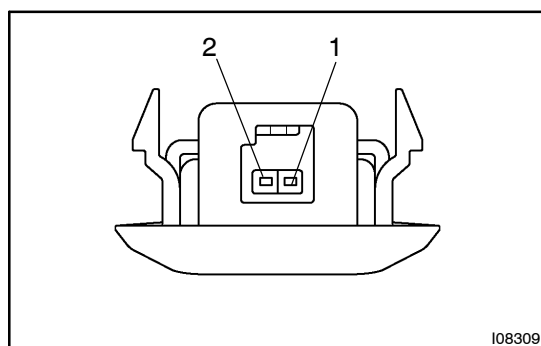
**NG**

**Go to step 3.**

**OK**

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-777](#)). However, if DTC19 is displayed, check and replace A/C amplifier.

|          |  |
|----------|--|
| <b>2</b> | <b>Check rear room temperature sensor.</b> |
|----------|--|

**PREPARATION:**

Disconnect rear 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 rear room temperature sensor.**

**OK**

|   |  |
|---|--|
| 3 | Check harness and connector between rear A/C amplifier and rear room temperature sensor (See page <a href="#">IN-33</a> ). |
|---|--|

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Repair or replace harness or connector.

OK

Check and replace A/C amplifier.