

CIRCUIT INSPECTION

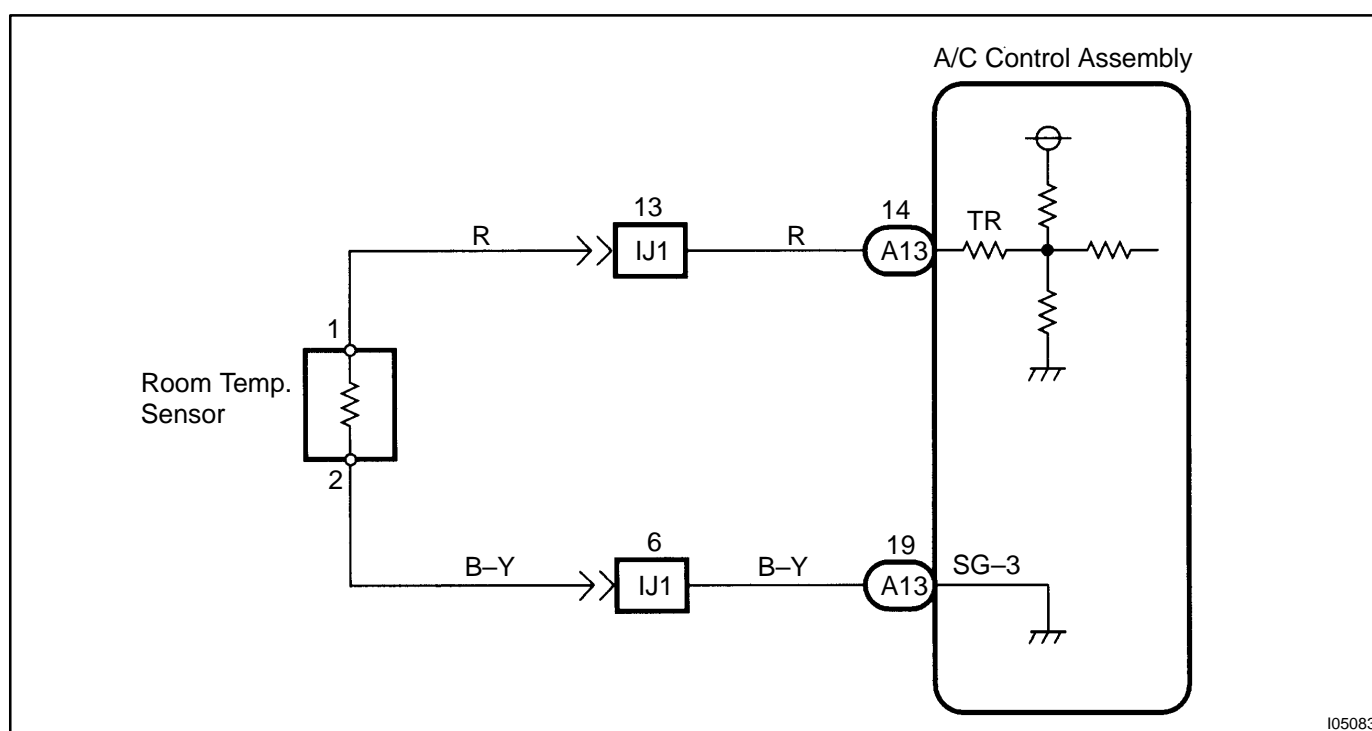
DTC	B1411/11	Room Temperature Sensor Circuit
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CIRCUIT DESCRIPTION

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

DTC No.	Detection Item	Trouble Area
B1411/11	Open or short in room temperature sensor circuit.	<ul style="list-style-type: none"> Room temperature sensor. harness or connector between room temperature sensor and A/C control assembly. A/C control assembly.

WIRING DIAGRAM



I05083

INSPECTION PROCEDURE

HINT:

In case of using the LEXUS hand-held tester, start the inspection step 1 and in case of not using the LEXUS hand-held tester, start from step 2.

1	Check room temp. sensor using LEXUS hard-held tester.
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PREPARATION:

Connect the LEXUS hard-held tester to the DLC3.

CHECK:

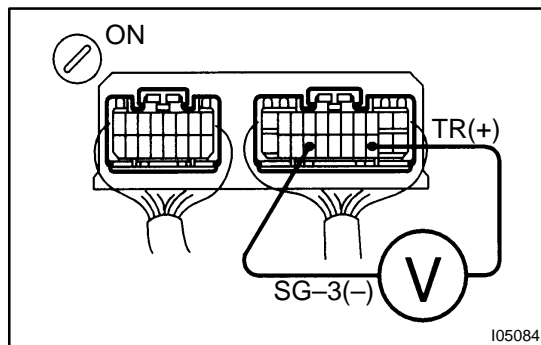
Check the room temp. sensor using DATA LIST.

OK

Check and replace A/C control assembly.

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2	Check voltage between terminals TR and SG-3 of A/C control assembly connector.
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PREPARATION:

Remove A/C control assembly with connectors still connected.

CHECK:

- (a) Turn ignition switch ON.
- (b) Measure voltage between terminals TR and SG-3 of A/C control assembly 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.

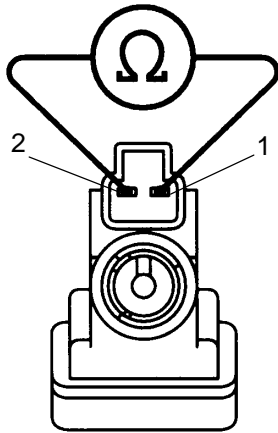
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Go to step 3.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-1309](#)). However, if DTC B1411/11 is displayed, check and replace A/C control assembly.

3 Check room temperature sensor.



I05261

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 V

at 50°C (122°F) : 0.55 – 0.65 V

HINT:

As the temperature increases, the resistance decreases.

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Replace room temperature sensor.

OK

4 Check harness and connector between A/C control assembly and room temperature sensor (See page [IN-32](#)).

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Repair or replace harness or connector.

OK

Check and replace A/C control assembly.