

CIRCUIT INSPECTION

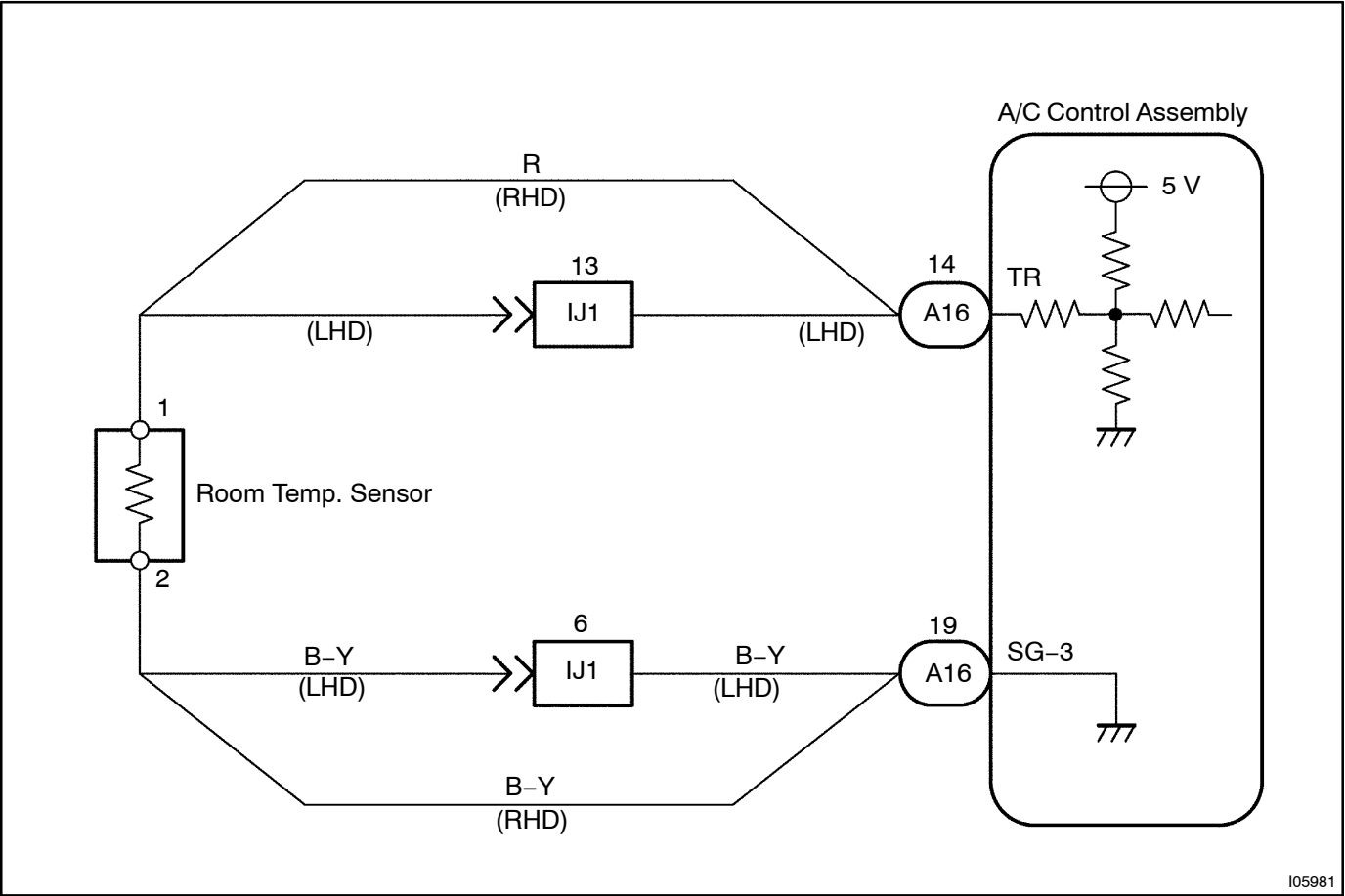
DTC	B1411/11	Room Temperature Sensor Circuit
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CIRCUIT DESCRIPTION

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.	•Room temperature sensor. •harness or connector between room temperature sensor and A/C control assembly. •A/C control assembly.

WIRING DIAGRAM



I05981

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.

PREPARATION:

Connect the LEXUS hard–held tester to the DLC3.

CHECK:

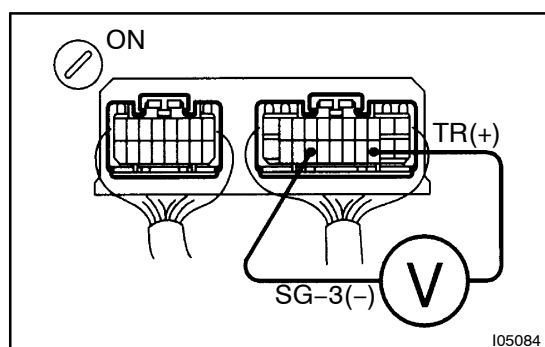
Check the room temp. sensor using DATA LIST.

OK

Check and replace A/C control assembly.

NG

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



PREPARATION:

Remove A/C control assembly with connectors still connected.

CHECK:

- Turn ignition switch ON.
- 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:

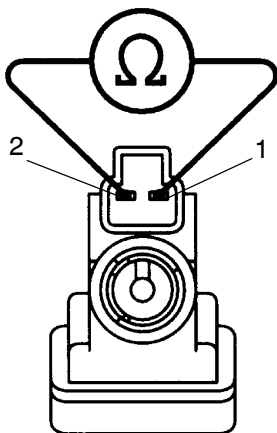
As the temperature increases, the voltage decreases.

NG

Go to step 3.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-912). However, if DTC B1411/11 is displayed, check and replace A/C control assembly.

3 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 V

at 50°C (122°F) : 0.55 – 0.65 V

HINT:

As the temperature increases, the resistance decreases.

NG**Replace room temperature sensor.****OK****4 Check harness and connector between A/C control assembly and room temperature sensor (See page IN-29).****NG****Repair or replace harness or connector.****OK****Check and replace A/C control assembly.**