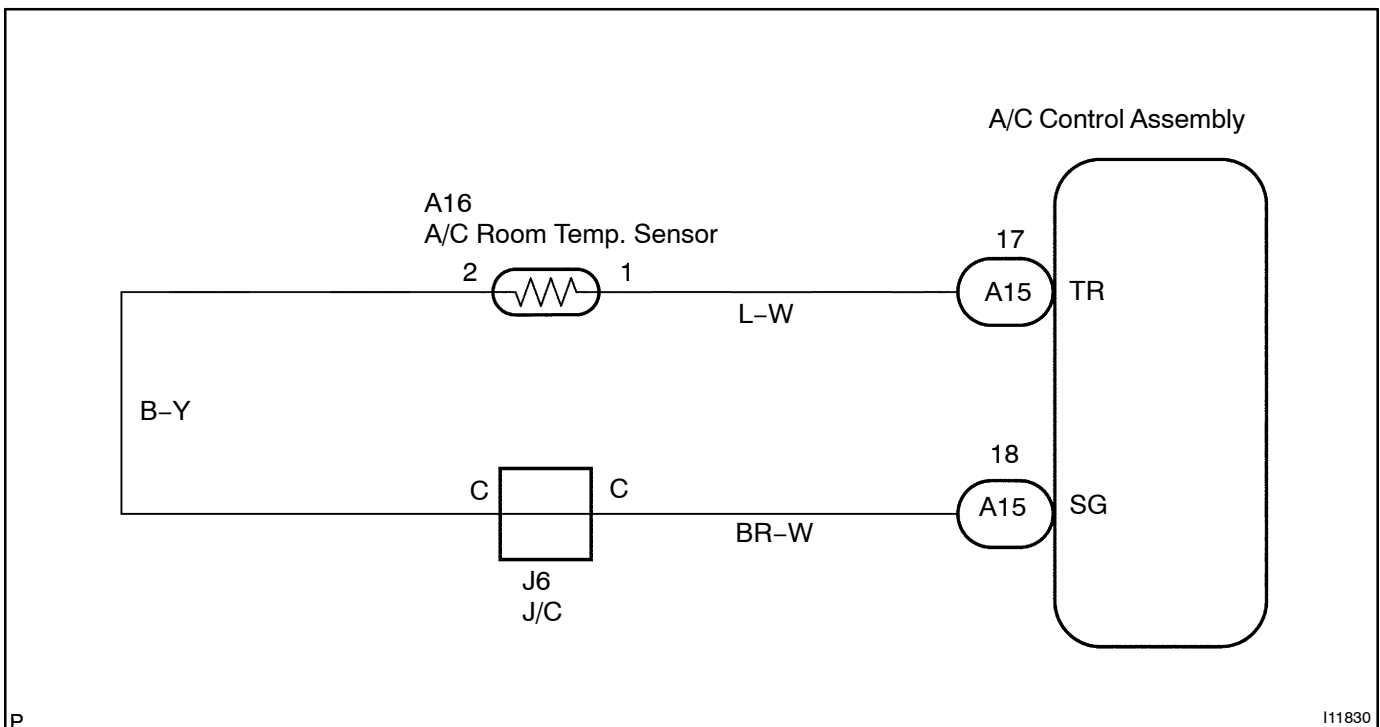# CIRCUIT INSPECTION

DI608−01

DTC	B1411	Room Temperature Sensor Circuit

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	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

INSPECTION PROCEDURE

HINT:

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

1	Check room temp. sensor using hand–held tester.

PREPARATION:

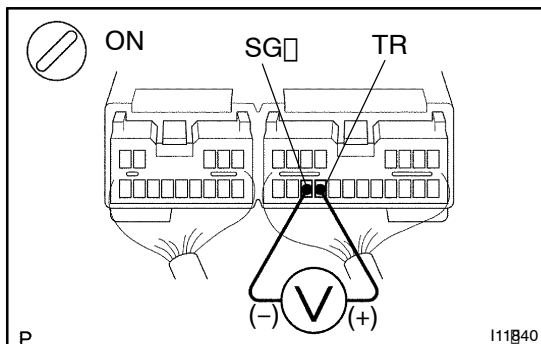Connect the hand–held tester to the DLC3.

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 of A/C control assembly connector.

PREPARATION:

Remove A/C control assembly with connectors still connected.

CHECK:

(a) Turn ignition switch to ON.

(b) Measure voltage between terminals TR and SG 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:

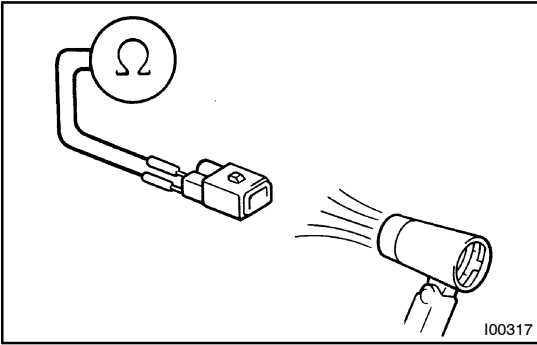As the temperature increases, the voltage decreases.

> NG > **Go to step 3.**

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI–674). However-er, if DTC B1411 is displayed, check and replace A/C control assembly.

3	Check room temperature sensor.

PREPARATION:
Remove room temperature sensor (See page AC–66).
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 room temperature sensor.

OK

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

NG >	Repair or replace harness or connector.

OK

Check and replace A/C control assembly.