DI8BL–01

CIRCUIT INSPECTION

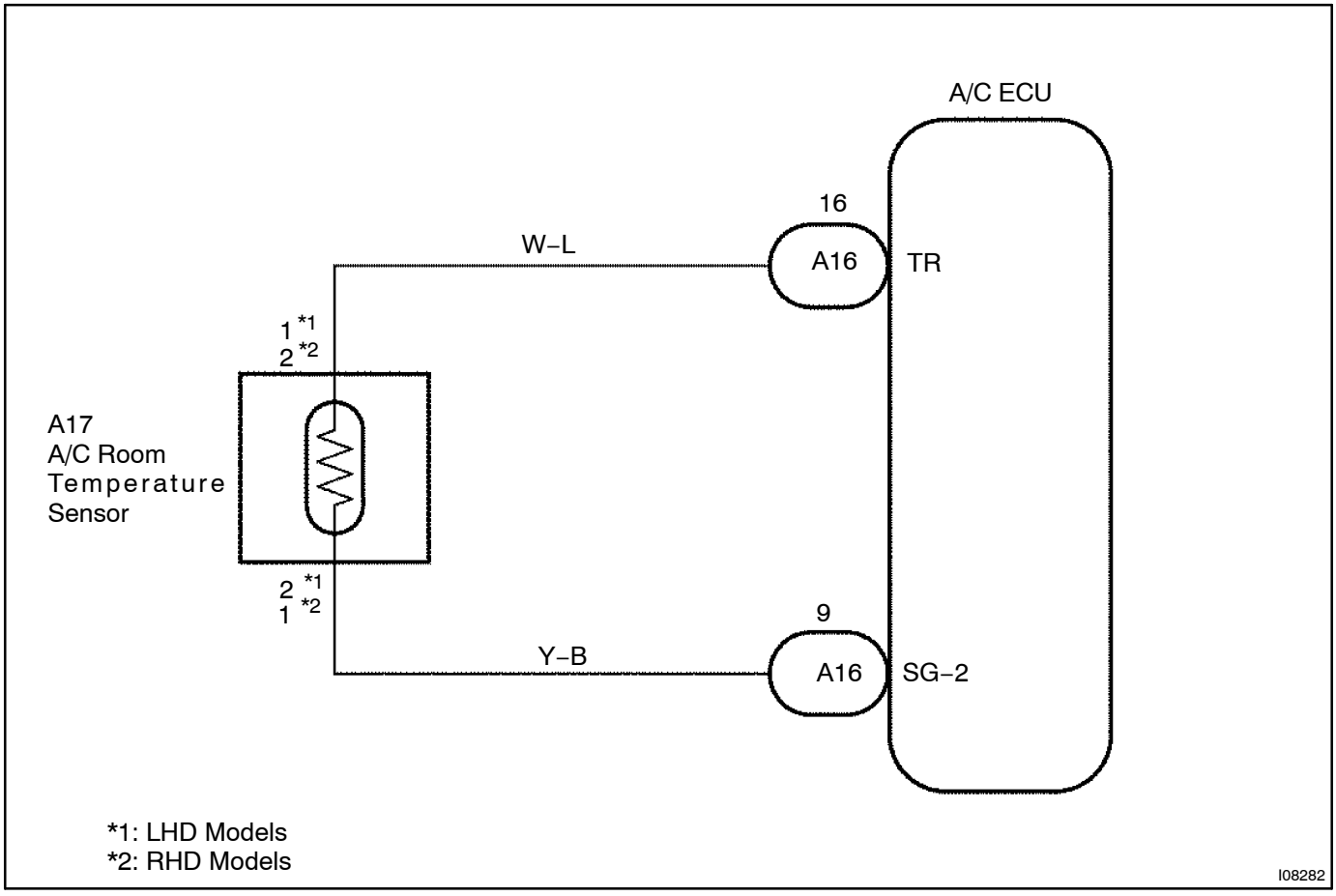
DTC	B1411/11	Room Temperature Sensor Circuit

CIRCUIT DESCRIPTION

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

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 ECU. • A/C ECU.

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.

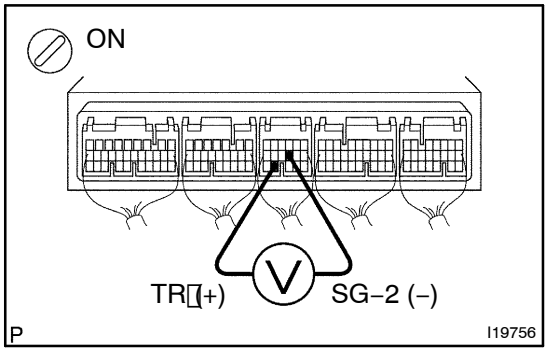
1	**Check room temp. sensor using hand–held tester.**

PREPARATION:
Connect the hand–held tester to the DLC3.
CHECK:
Check the room temp. sensor using DATA LIST.

OK ⇒ **Check and replace A/C ECU.**

NG

2	**Check voltage between terminals TR and SG–2 of A/C ECU connector.**



PREPARATION:
Remove A/C ECU with connectors still connected.
CHECK:
(a) Turn ignition switch to ON.
(b) Measure voltage between terminals TR and SG–2 of A/C ECU 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.

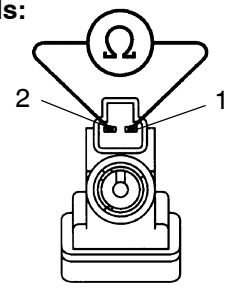
NG ⇒ **Go to step 3.**

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI–1772). However, if DTC B1411/11 is displayed, check and replace A/C ECU.

3	Check room temperature sensor.

LHD Models:



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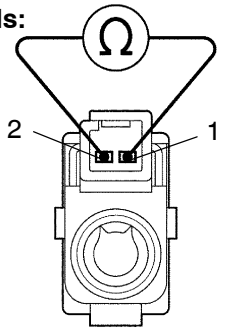
RHD Models:



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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 room temperature sensor.**

OK

4	Check harness and connector between A/C ECU and room temperature sensor (See page IN–35).

NG → **Repair or replace harness or connector.**

OK

Check and replace A/C ECU.