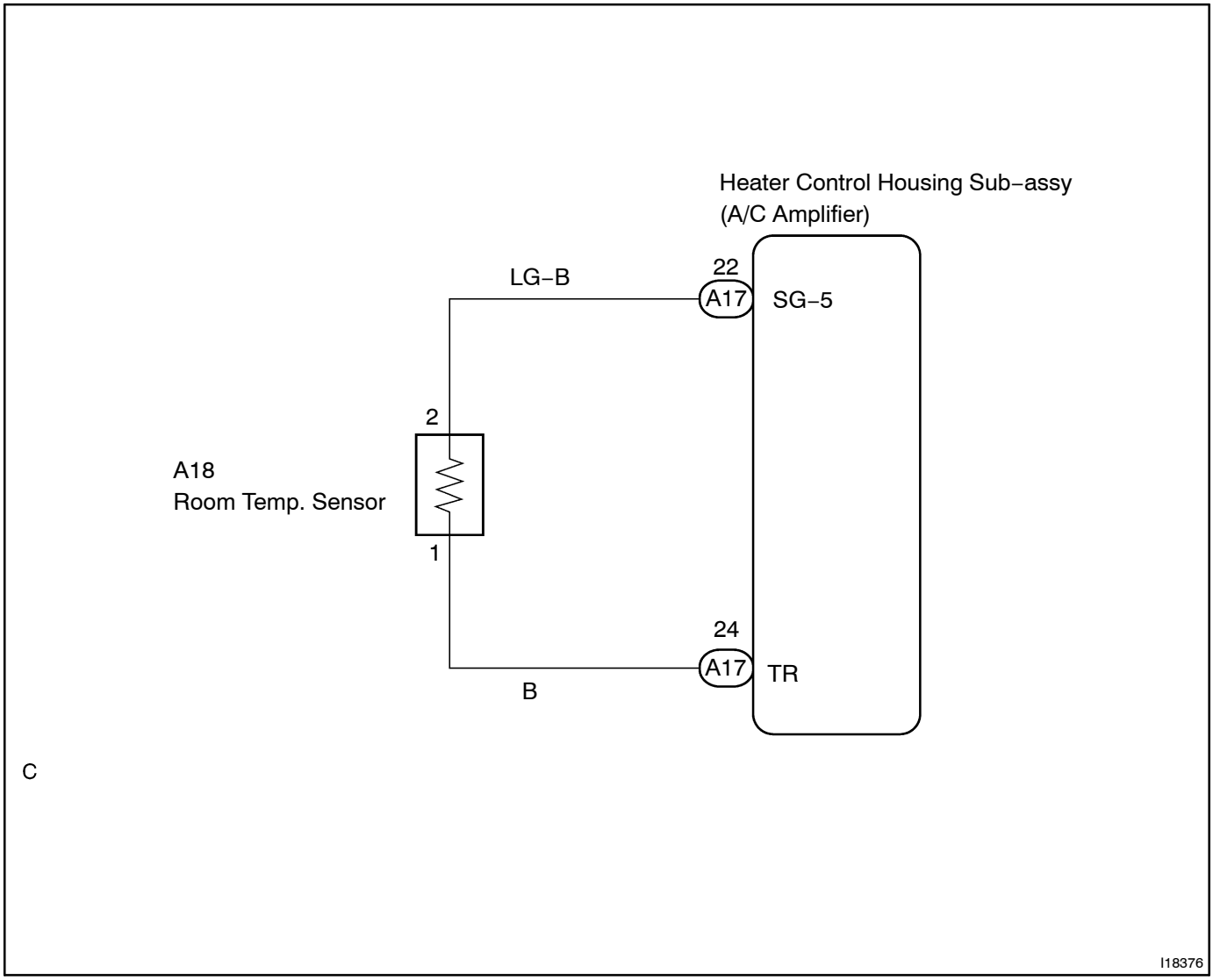
DTC 11 ROOM TEMPERATURE SENSOR CIRCUIT

CIRCUIT DESCRIPTION

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

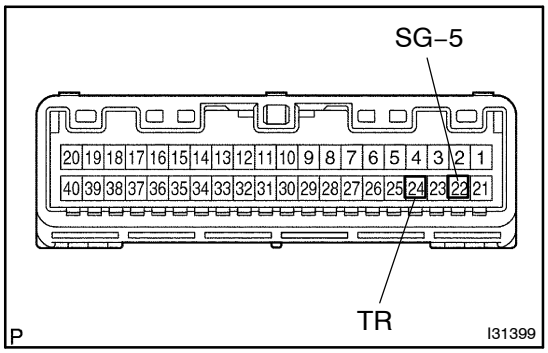
DTC No.	Detection item	Touble Area
11	Open or short in room temperature sensor circuit	• Room temperature sensor • Harness or connector between room temperature sensor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT HEATER CONTROL HOUSING SUB–ASSY(TR, SG–5)



(a) Remove A/C amplifier with connectors still connected.
(b) Turn ignition switch ON.
(c) Measure voltage between terminals TR and SG–5 of A/C amplifier connector at each temperature.
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.

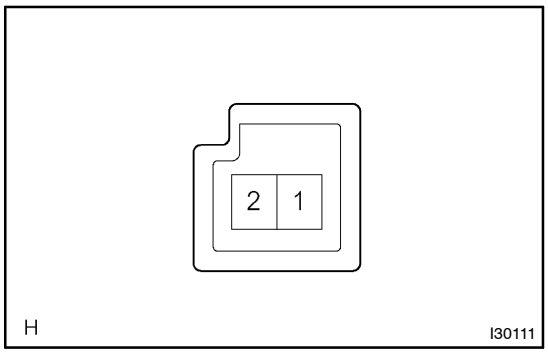
A	NG
B	OK (when checking from the PROBLEM SYMPTOM TABLE)
C	OK (Checking from the DTC)

B → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOM TABLE**

C → **CHECK AND REPLACE HEATER CONTROL HOUSING SUB–ASSY**

A

2	INSPECT COOLER (ROOM TEMP. SENSOR) THERMISTOR



(a) Remove cooler (room tem. sensor) thermistor.
(b) Measure resistance between terminals 1 and 2 of cooler (room temp. sensor) connector at each temperature.
Resistance:
at 25 °C (77 °F): 1.65 – 1.75 kΩ
at 40 °C (104 °F): 0.8 – 1 kΩ

HINT:
As the temperature increases, the resistance decreases.

NG → **REPLACE COOLER (ROOM TEMP. SENSOR) THERMISTOR**

OK

3	CHECK HARNESS AND CONNECTOR(BETWEEN COOLER (ROOM TEMP. SENSOR) THERMISTOR AND HEATER CONTROL HOUSING SUB–ASSY)

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

CHECK AND REPLACE HEATER CONTROL HOUSING SUB–ASSY