

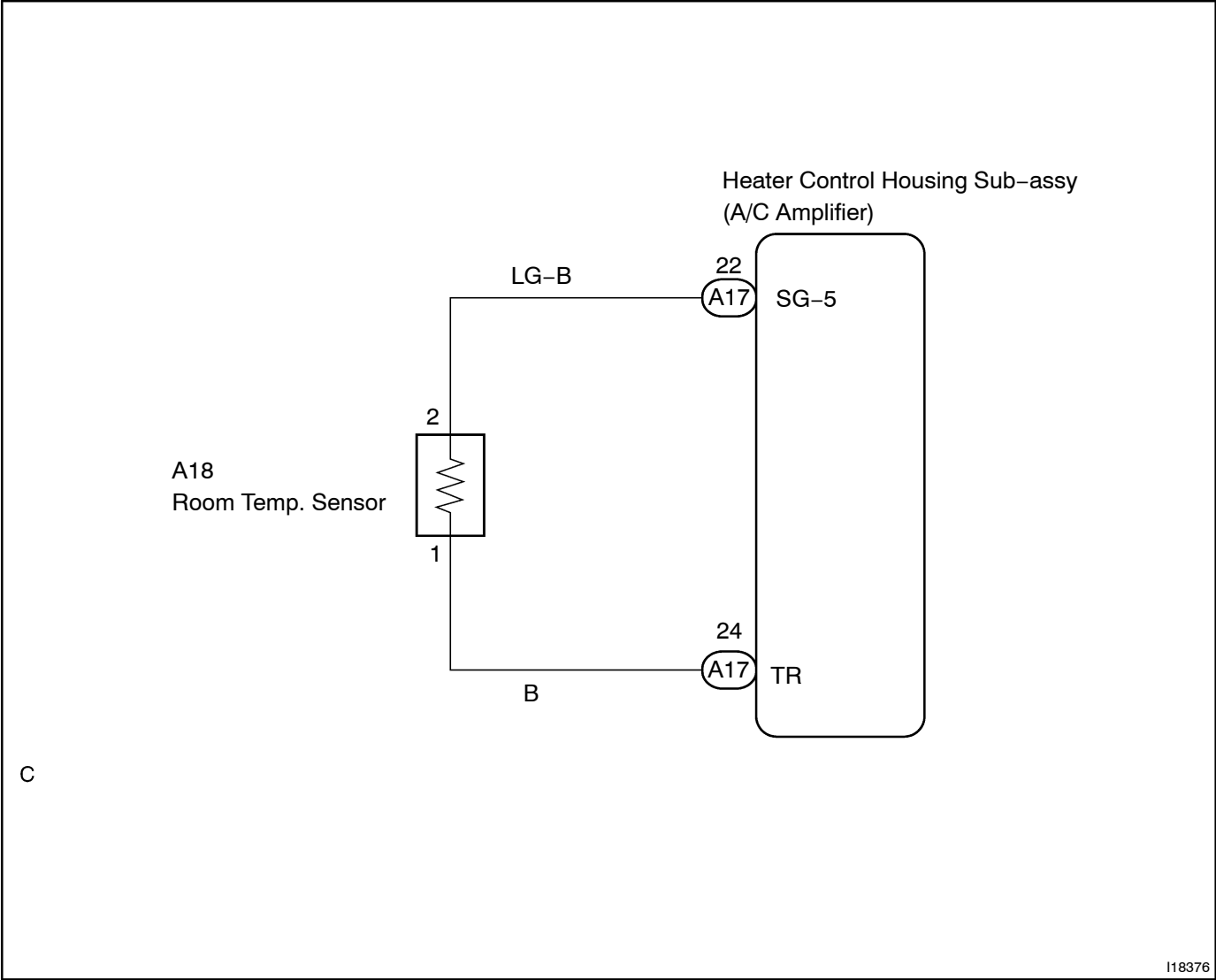
DTC	11	ROOM TEMPERATURE SENSOR CIRCUIT
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CIRCUIT DESCRIPTION

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

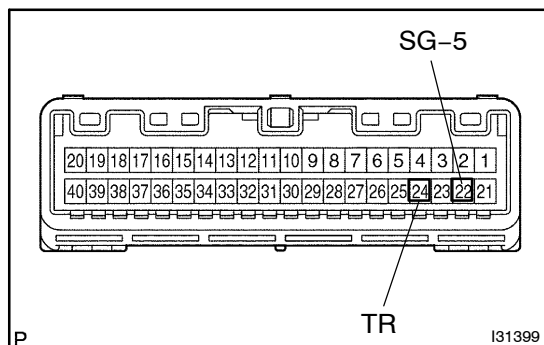
DTC No.	Detection item	Trouble Area
11	Open or short in room temperature sensor circuit	<ul style="list-style-type: none"><li>Room temperature sensor</li><li>Harness or connector between room temperature sensor and A/C amplifier</li><li>A/C amplifier</li></ul>

WIRING DIAGRAM



## INSPECTION PROCEDURE

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



- Remove A/C amplifier with connectors still connected.
- Turn ignition switch ON.
- 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

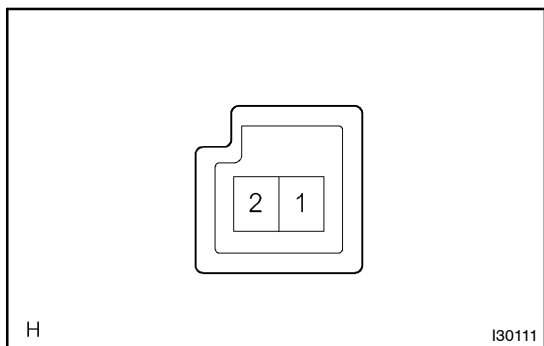
**HINT:**

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



- Remove cooler (room temp. sensor) thermistor.
- 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**