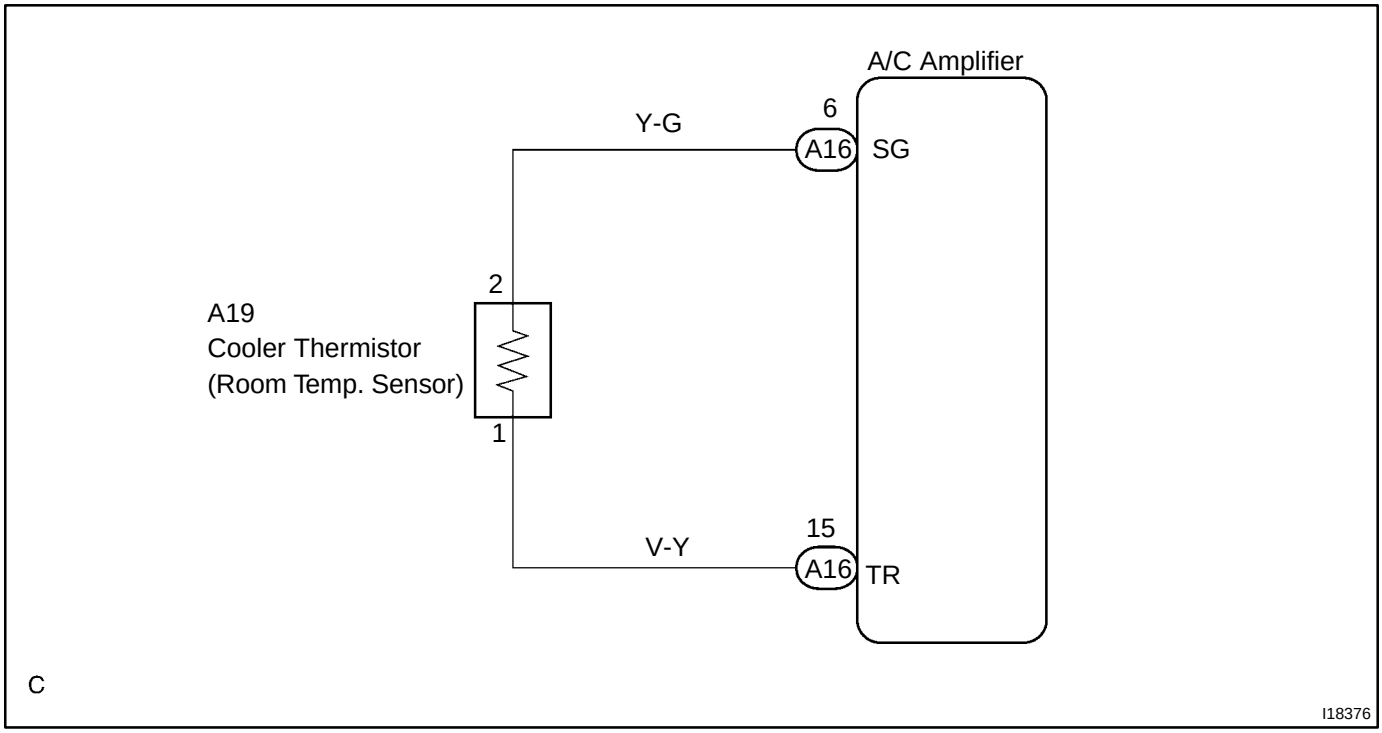
DTC 11 ROOM TEMPERATURE SENSOR CIRCUIT

CIRCUIT DESCRIPTION

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

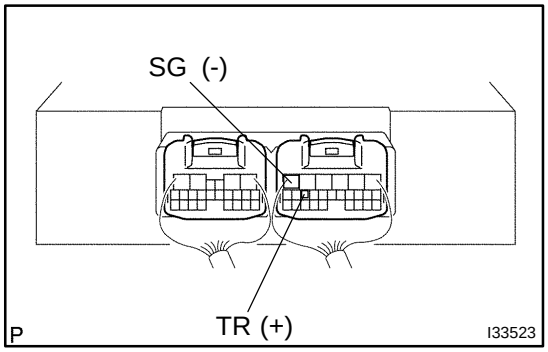
DTC No.	Detection item	Trouble Area
11	Open or short in room temperature sensor circuit	• Cooler thermistor (Room temperature sensor) • Harness or connector between cooler thermistor (room temperature sensor) and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT AIR CONDITIONING AMPLIFIER(TR, SG)



(a) Remove the A/C amplifier with the connectors being connected.
(b) Turn ignition switch to ON.
(c) Measure voltage between terminal TR and SG of the 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.

OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE**

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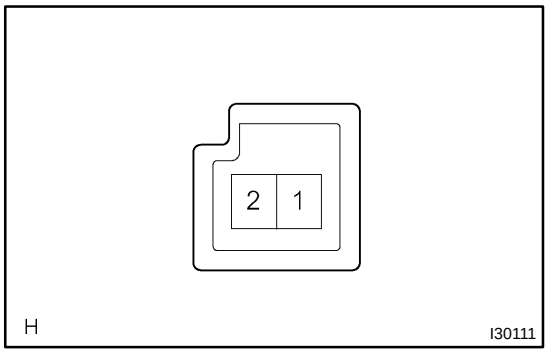
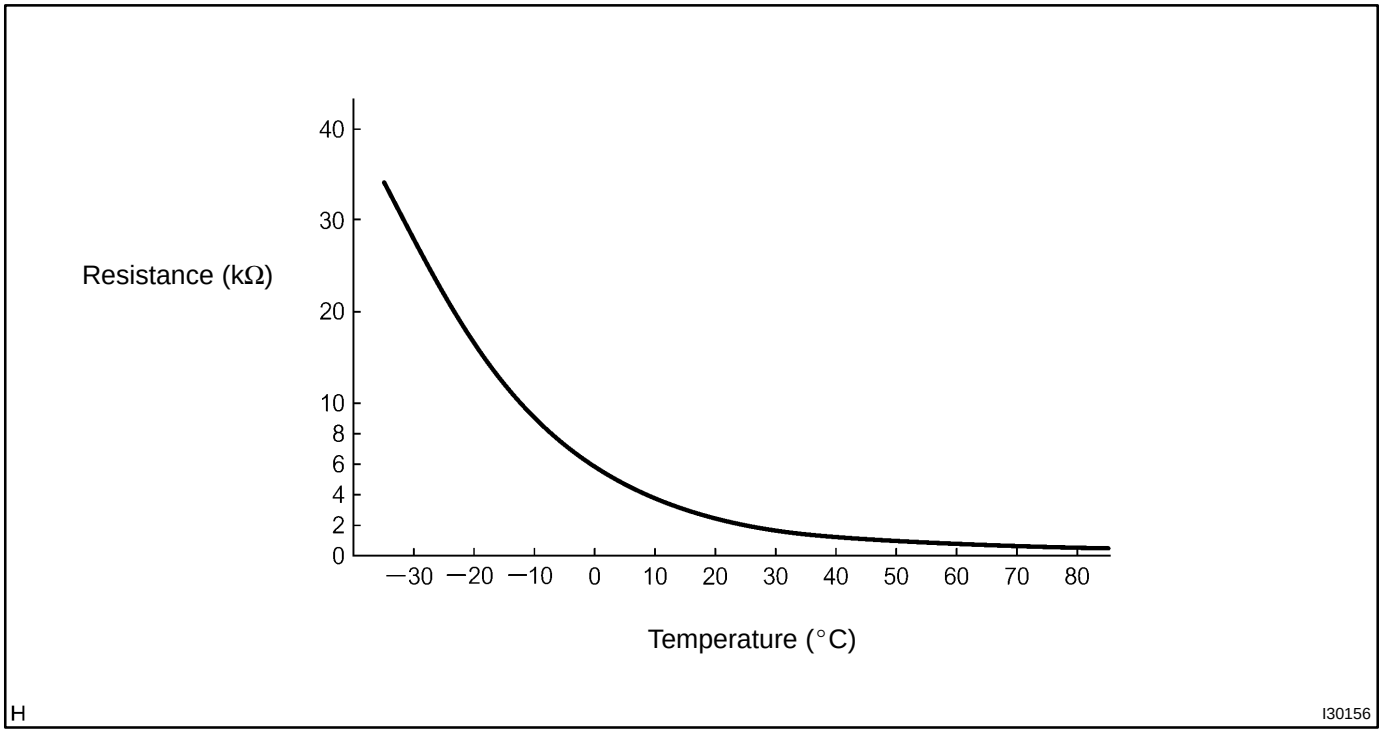
2	INSPECT COOLER THERMISTOR



(a) Remove the cooler thermistor (room temp. sensor).
(b) Measure resistance between terminals of the cooler thermistor (Room temp. sensor) connector at each temperature.
Resistance:
at 25 °C (77 °F): 1.65 - 1.75 kΩ
at 40 °C (104 °F): 0.55 - 0.65 kΩ

HINT:
As the temperature increases, the resistance decreases, as shown in the illustration.



NG → **REPLACE COOLER THERMISTOR**

OK

3	CHECK HARNESS AND CONNECTOR(BETWEEN COOLER THERMISTOR (ROOM TEMP. SENSOR) AND AIR CONDITIONING AMPLIFIER)

(a) Check for open and short circuit in the harness and the connector between the cooler thermistor (room temp. sensor) and the A/C amplifier (See page 01-35).

NG	REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4	CHECK DIAGNOSTIC TROUBLE CODE

(a) Start up the DTC check mode.
(b) Check that DTC 11 is not output again.
Standard: DTC 11 is not output.

OK	SYSTEM OK

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CHECK AND REPLACE AIR CONDITIONING AMPLIFIER