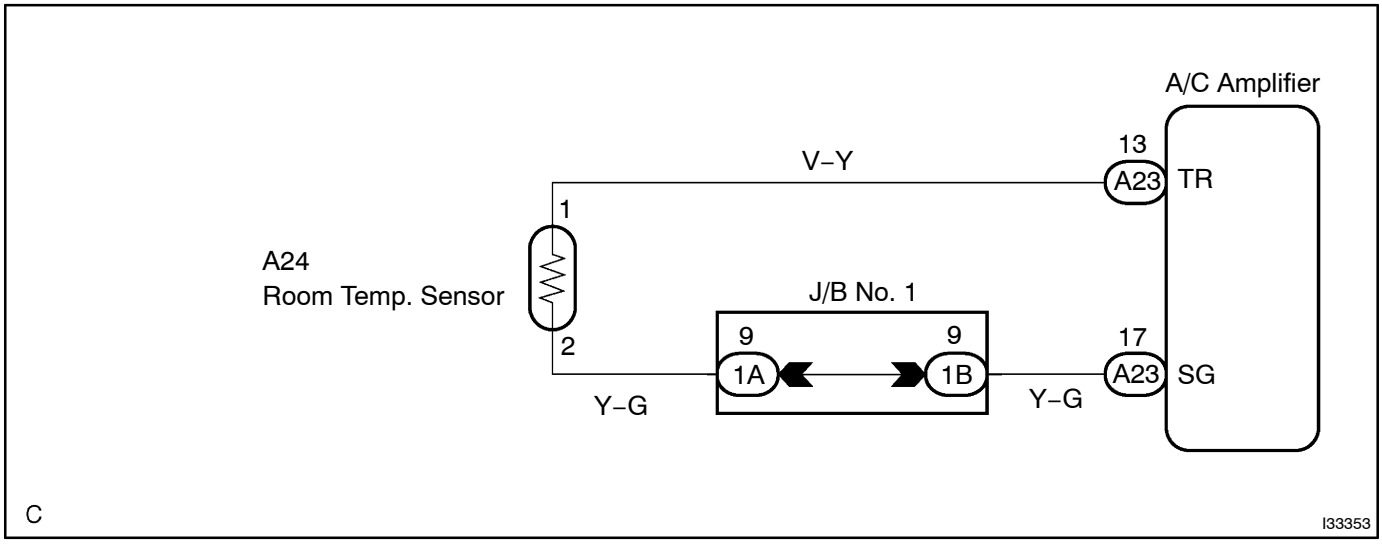
DTC	11	ROOM TEMPERATURE SENSOR CIRCUIT

CIRCUIT DESCRIPTION

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

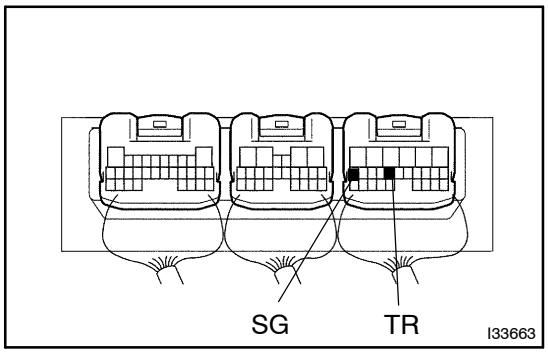
DTC No.	Detection item	Trouble Area
11	Open or short in room temperature sensor circuit	• Cooler thermistor (room temp. sensor) • Harness or connector between cooler thermistor (room temp. sensor) and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT AIR CONDITIONING AMPLIFIER(TR, SG)



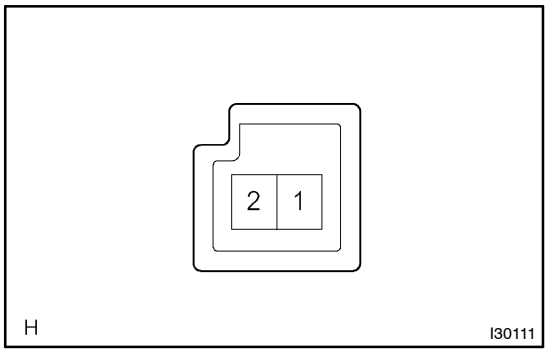
(a) Remove A/C amplifier with being connected.
(b) Turn ignition switch ON.
(c) Measure voltage between terminal TR and SG of A/C amplifier connector at each temperature.
Voltage:
at 25°C (77°F): 1.8 – 2.2 V
at 40°C (104°F): 1.2 – 1.6 V

HINT:
As the temperature increases, the voltage decreases.

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

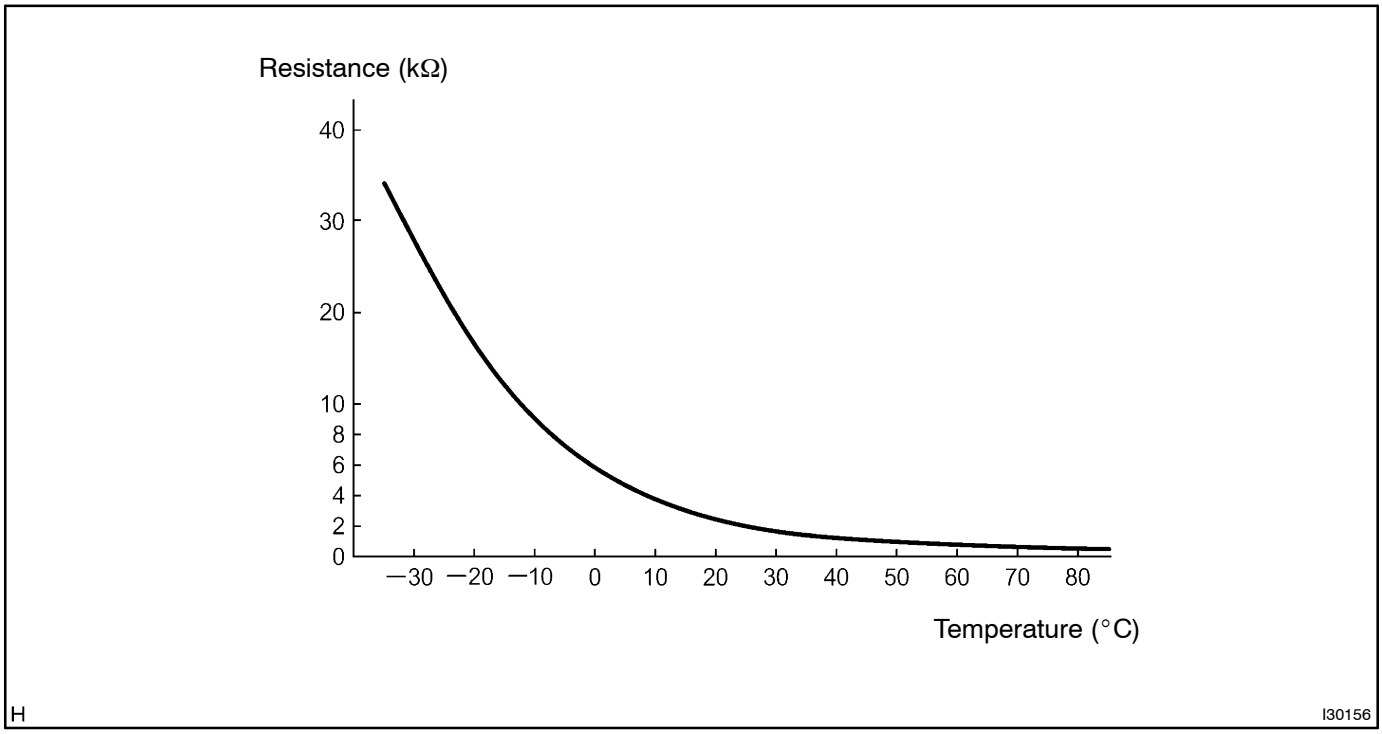
NG

2 INSPECT COOLER THERMISTOR(ROOM TEMP. SENSOR)



(a) Remove cooler thermistor (room temp. sensor).
(b) Measure resistance between terminal 1 and 2 of cooler thermistor (room temp. sensor) connector at each temperature.
Resistance: 1,615 – 1,785 Ω at 25°C (77°F)

HINT:
As the temperature increases, the resistance decreases.



NG → **REPLACE COOLER THERMISTOR**

OK

3	**CHECK HARNESS AND CONNECTOR(COOLER THERMISTOR (ROOM TEMP. SENSOR) – A/C AMPLIFIER)**

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

OK

4	**READ OUTPUT DTC**

(a) Clear the sensor check codes.
(b) At least 8.5 minutes pass after turning the IG switch to ON position, read DTC.
Standard: Normal codes are output.

OK → **SYSTEM OK**

NG

CHECK AND REPLACE AIR CONDITIONING AMPLIFIER