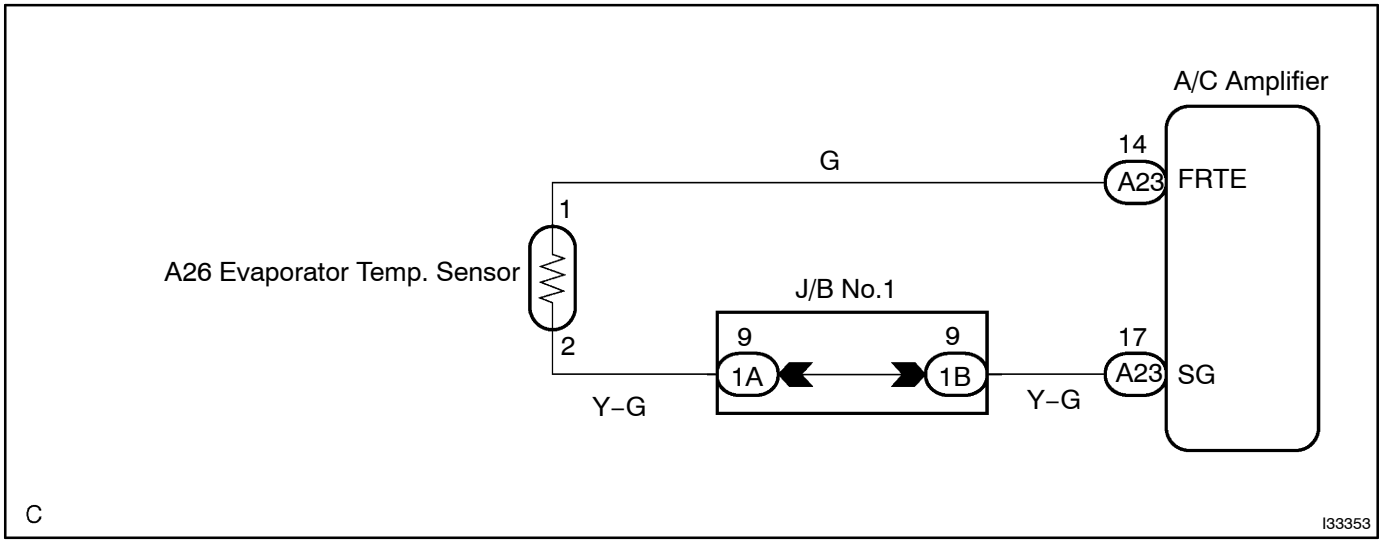
DTC	13	EVAPORATOR TEMPERATURE SENSOR CIRCUIT

CIRCUIT DESCRIPTION

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

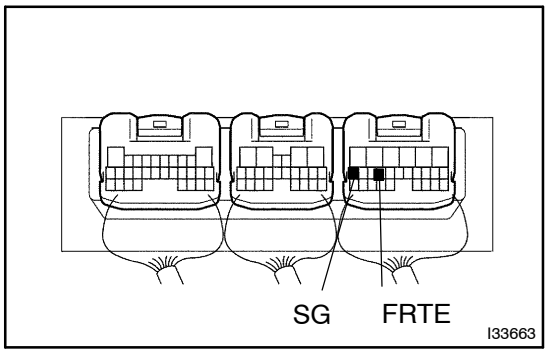
DTC No.	Detection Item	Trouble Area
13	Open or short in evaporator temperature sensor circuit.	• Cooler thermistor No.1 (evaporator temp. sensor) • Harness or connector between cooler thermistor No.1 (evaporator temp. sensor) and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT AIR CONDITIONING AMPLIFIER(FRTE, SG)



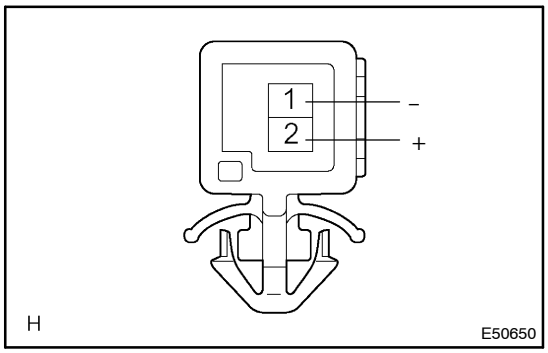
(a) Remove A/C amplifier with being connected.
(b) Turn ignition switch ON.
(c) Measure voltage between terminal FRTE and SG of A/C amplifier connector at each temperature.

Voltage:
at 0°C (32°F): 2.0 – 2.4 V
at 15°C (59°F): 1.4 – 1.8 V

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

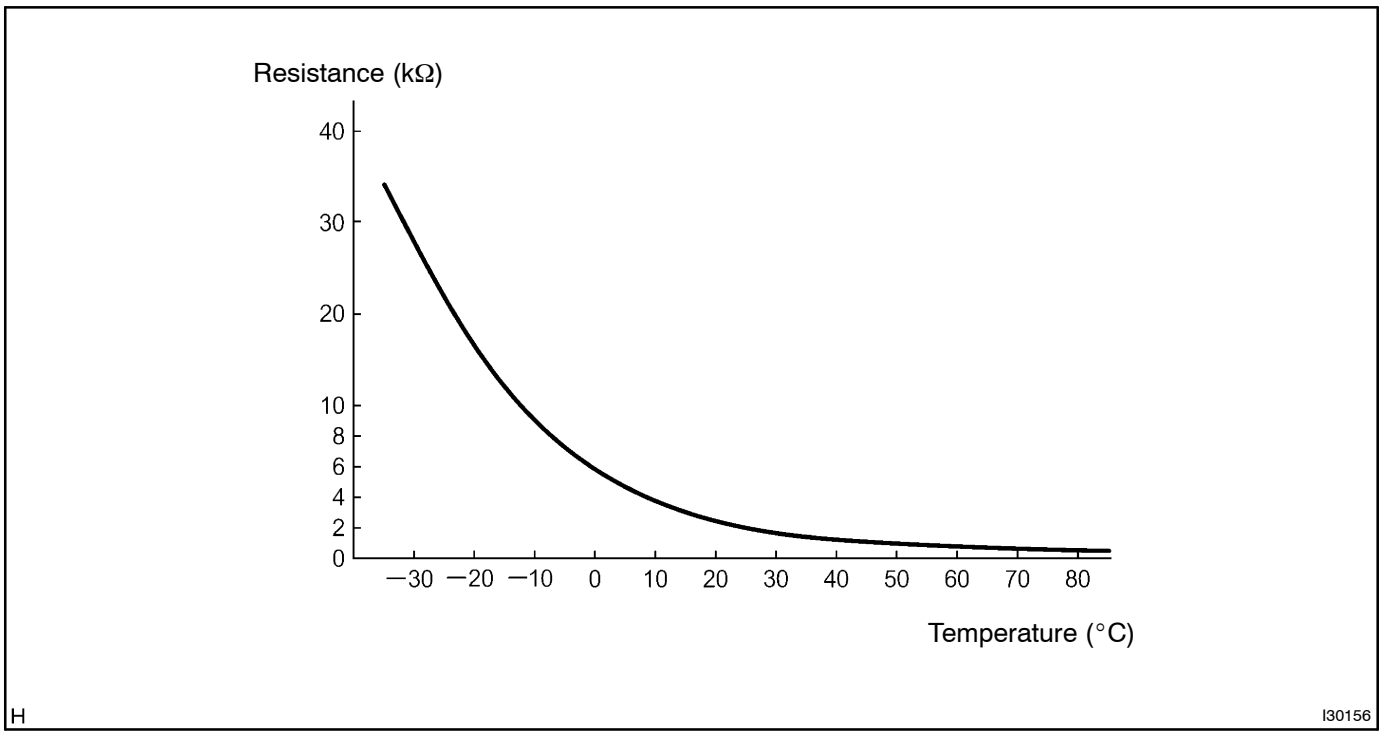
NG

2 INSPECT COOLER THERMISTOR NO.1(EVAPORATOR TEMP. SENSOR)



(a) Remove cooler thermistor No.1 (evaporator temp. sensor).
(b) Check resistance between terminal 1 and 2 of cooler thermistor No.1 (evaporator temp. sensor) at each temperature, as shown in the chart.

Resistance:



NG → REPLACE COOLER THERMISTOR NO.1

OK

3	CHECK HARNESS AND CONNECTOR(COOLER THERMISTOR NO. 1 (EVAPORATOR 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