

CIRCUIT DESCRIPTION

DTC No.	Detection Item	Trouble Area
11	Open or short in front room temperature sensor circuit.	• Front room temperature sensor • harness or connector between front room temperature sensor and A/C amplifier • A/C amplifier

Front Room Temp. Sensor

Y-G

Y-G

Y-G

IG1

12

3

1

12

3

1

10

2

12

1

FrTR

FrSG

SG

A/C Amplifier

Engine Room J/B

(*1): w/o Lexus Navigation System

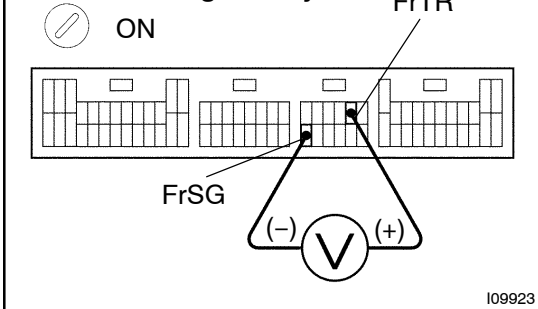
(*2): w/ Lexus Navigation System

INSPECTION PROCEDURE

1

Check voltage between terminals FrTR and FrSG of A/C amplifier connector.

w/o Lexus navigation system:



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PREPARATION:

Remove A/C amplifier with connectors still connected.

CHECK:

- Turn ignition switch to ON.
- Measure voltage between terminals FrTR and FrSG of A/C amplifier connector at each temperature.

OK:**Voltage :**

at 25°C (77°F) : 1.8 – 2.2 V

at 40°C (104°F) : 1.2 – 1.6 V

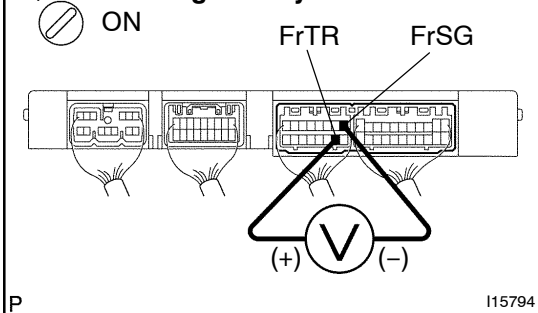
HINT:

As the temperature increases, the voltage decreases.

NG

Go to step 3.

w/ Lexus navigation system:

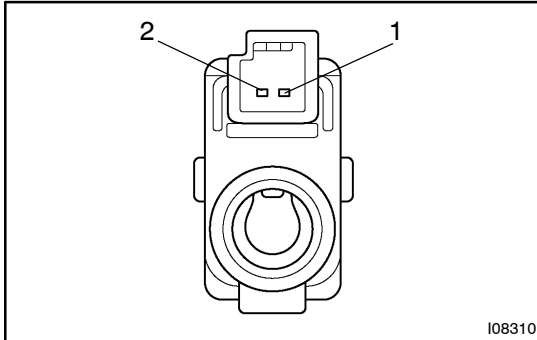


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OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-937](#)). However, if DTC 11 is displayed, check and replace A/C amplifier.

2 Check front room temperature sensor.**PREPARATION:**

Disconnect room temperature sensor connector.

CHECK:

Measure resistance between terminals 1 and 2 of room temperature sensor connector at each temperature.

OK:**Resistance :**

at 25°C (77°F) : 1.65 – 1.75 kΩ

at 50°C (122°F) : 0.55 – 0.65 kΩ

HINT:

As the temperature increases, the resistance decreases.

NG**Replace front room temperature sensor.****OK****3 Check harness and connector between A/C amplifier and front room temperature sensor (See page [IN-34](#)).****NG****Repair or replace harness or connector.****OK****Check and replace A/C amplifier.**