

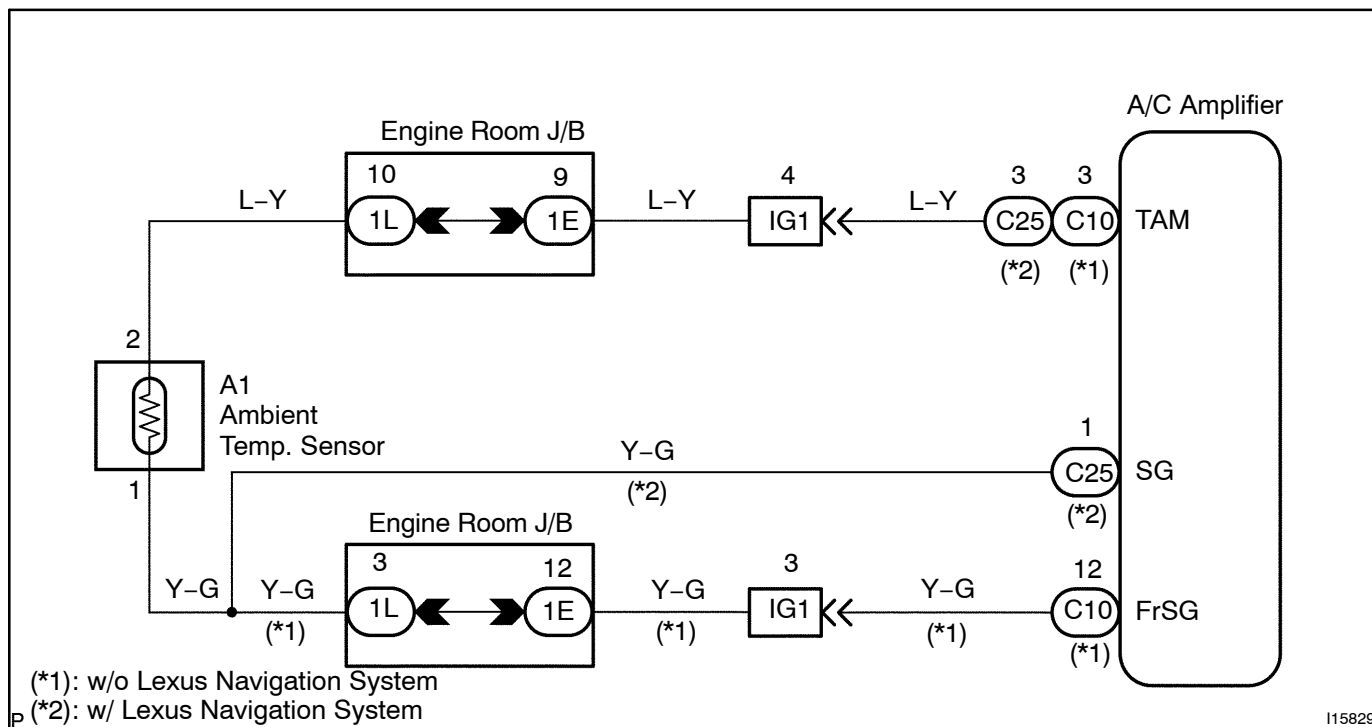
DTC	12	Ambient Temperature Sensor Circuit
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CIRCUIT DESCRIPTION

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

DTC No.	Detection Item	Trouble Area
12	Open or short in ambient temperature sensor circuit.	- Ambient temperature sensor - Harness or connector between ambient temperature sensor and A/C amplifier - A/C amplifier

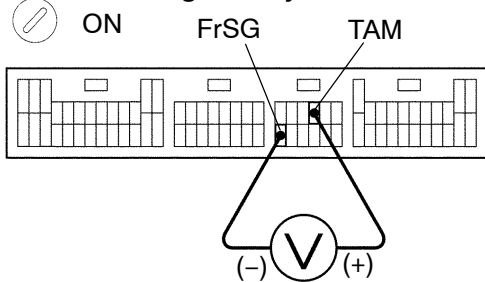
WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminals TAM and FrSG of A/C amplifier.
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w/o Lexus navigation system:



I09924

PREPARATION:

Remove A/C amplifier with connectors still connected.

CHECK:

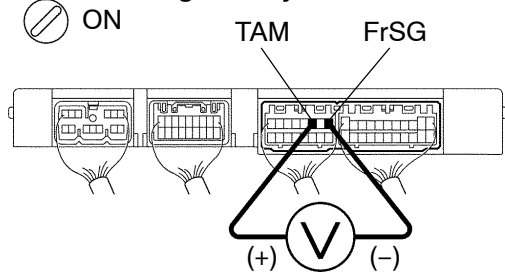
- (a) Turn ignition switch to ON.
- (b) Measure voltage between terminals TAM and FrSG of A/C amplifier connector at each temperature.

OK:**Voltage :****at 25°C (77°F) : 1.35 – 1.75 V****at 40°C (104°F) : 0.85 – 1.25 V****HINT:**

As the temperature increases, the voltage decreases.

NG**Go to step 2.**

w/ Lexus navigation system:

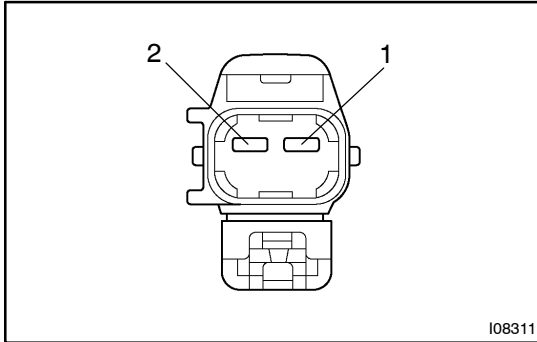


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I15795

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-956](#)). However, if DTC 12 is displayed, check and replace A/C amplifier.

2 Check ambient temperature sensor.**PREPARATION:**

Disconnect ambient temperature sensor connector.

CHECK:

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

OK:**Resistance :**

at 25°C (77°F) : 1.6 – 1.8 kΩ

at 50°C (122°F) : 0.5 – 0.7 kΩ

HINT:

As the temperature increases, the resistance decreases.

NOTICE:

When installing the ambient temperature sensor, be sure to connect the sensor connector before connecting the battery.

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