

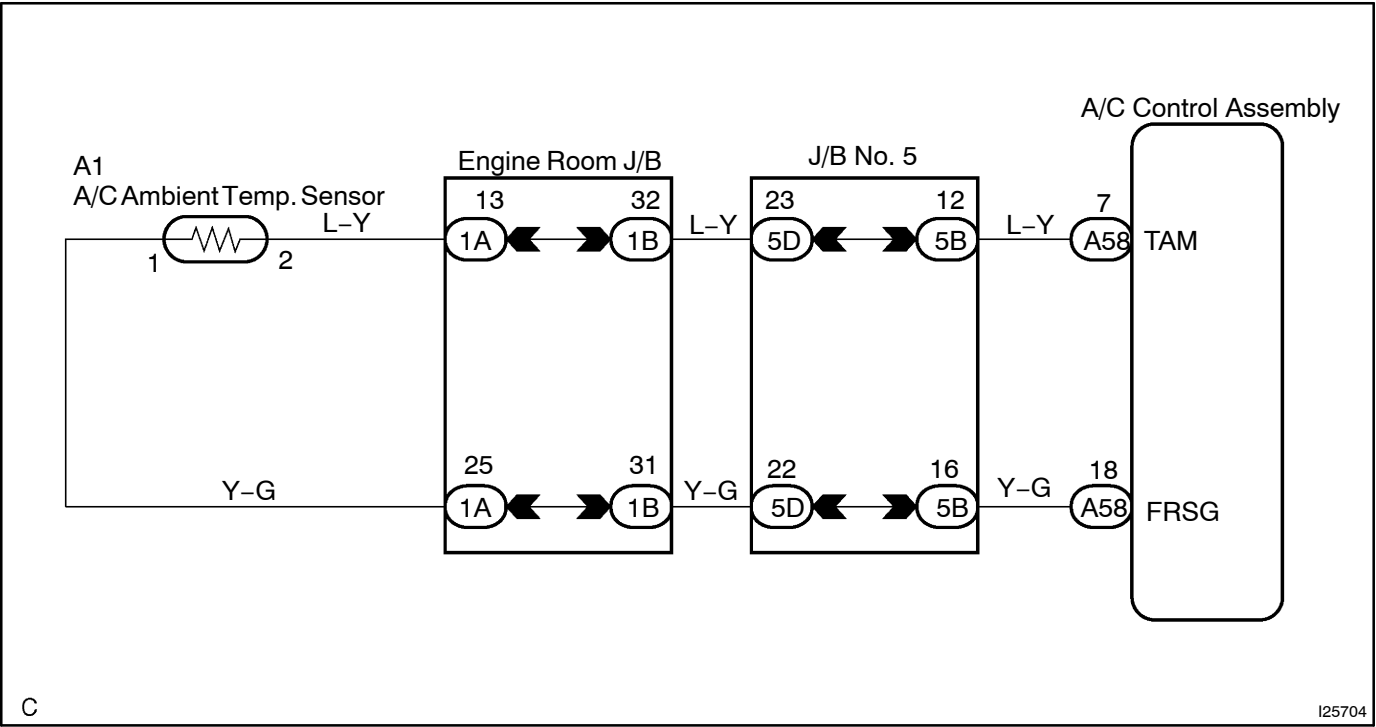
DTC	12	Ambient Temperature Sensor Circuit
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CIRCUIT DESCRIPTION

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

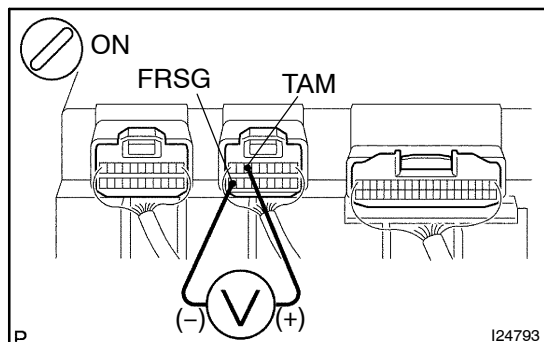
DTC No.	Detection Item	Trouble Area
12	Open or short in ambient temperature sensor circuit	<ul style="list-style-type: none"><li>• Ambient temp. sensor</li><li>• Harness or connector between ambient temp. sensor and A/C amplifier</li><li>• A/C amplifier</li></ul>

WIRING DIAGRAM



## INSPECTION PROCEDURE

1	<b>Check voltage between terminals TAM and FRSG of A/C amplifier.</b>
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**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

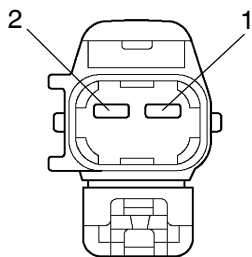
**HINT:**

As the temperature increases, the voltage decreases.

NG	Go to step 2.
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OK
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Proceed to next circuit inspection shown on problem symptoms table (See page DI-1238). 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-38).****NG****Repair or replace harness or connector.****OK****Check and replace A/C amplifier.**