

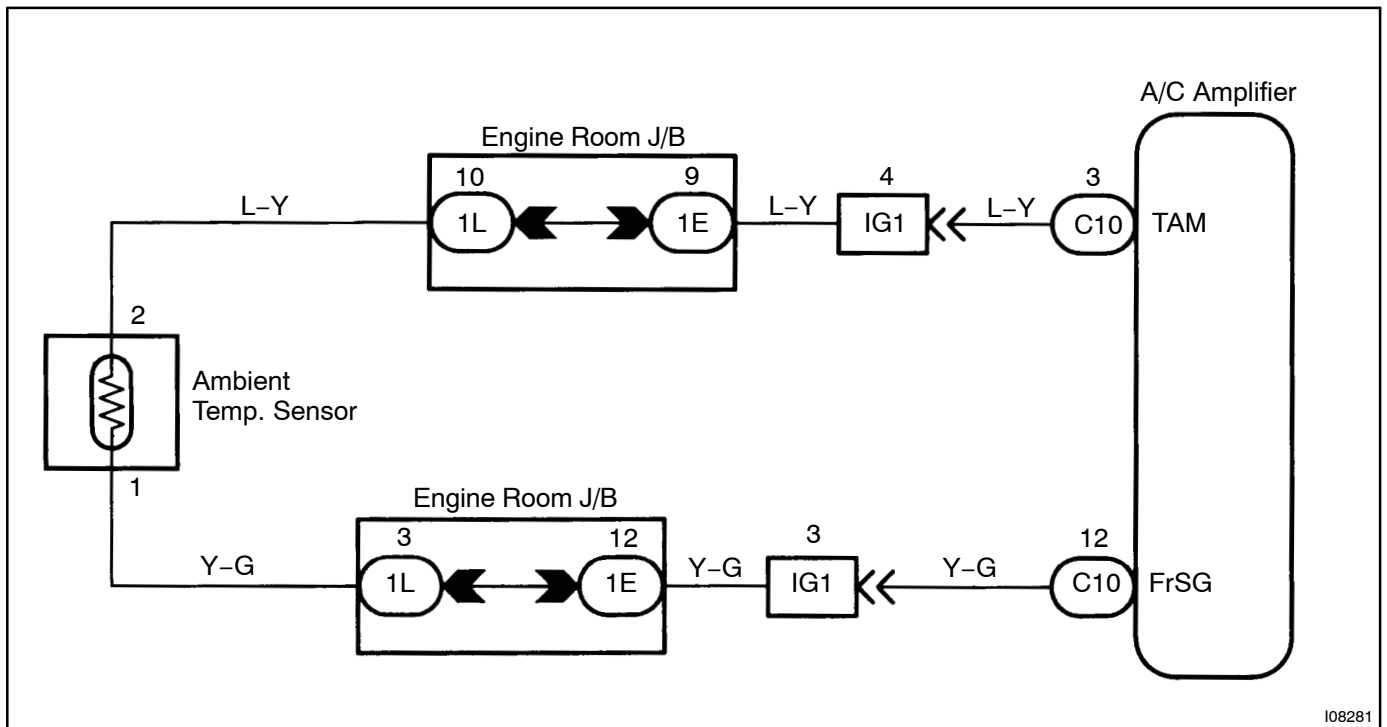
DTC	12	Ambient Temperature Sensor Circuit
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CIRCUIT DESCRIPTION

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

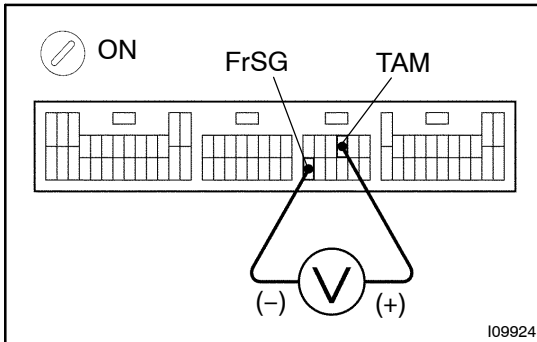
DTC No.	Detection Item	Trouble Area
12	Open or short in ambient temperature sensor circuit.	<ul style="list-style-type: none"> Ambient temperature sensor Harness or connector between ambient temperature sensor and A/C amplifier A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

- | | |
|----------|---|
| 1 | Check voltage between terminals TAM and FrSG of A/C amplifier. |
|----------|---|

**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

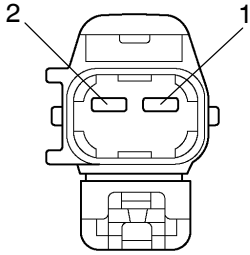
at 40°C (104°F) : 0.85 – 1.25 V

HINT:

As the temperature increases, the voltage decreases.

NG**Go to step 2.****OK**

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-777](#)). However, if DTC 12 is displayed, check and replace A/C amplifier.

2**Check ambient temperature sensor.**

108311

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-33](#)).****NG****Repair or replace harness or connector.****OK****Check and replace and A/C amplifier.**