

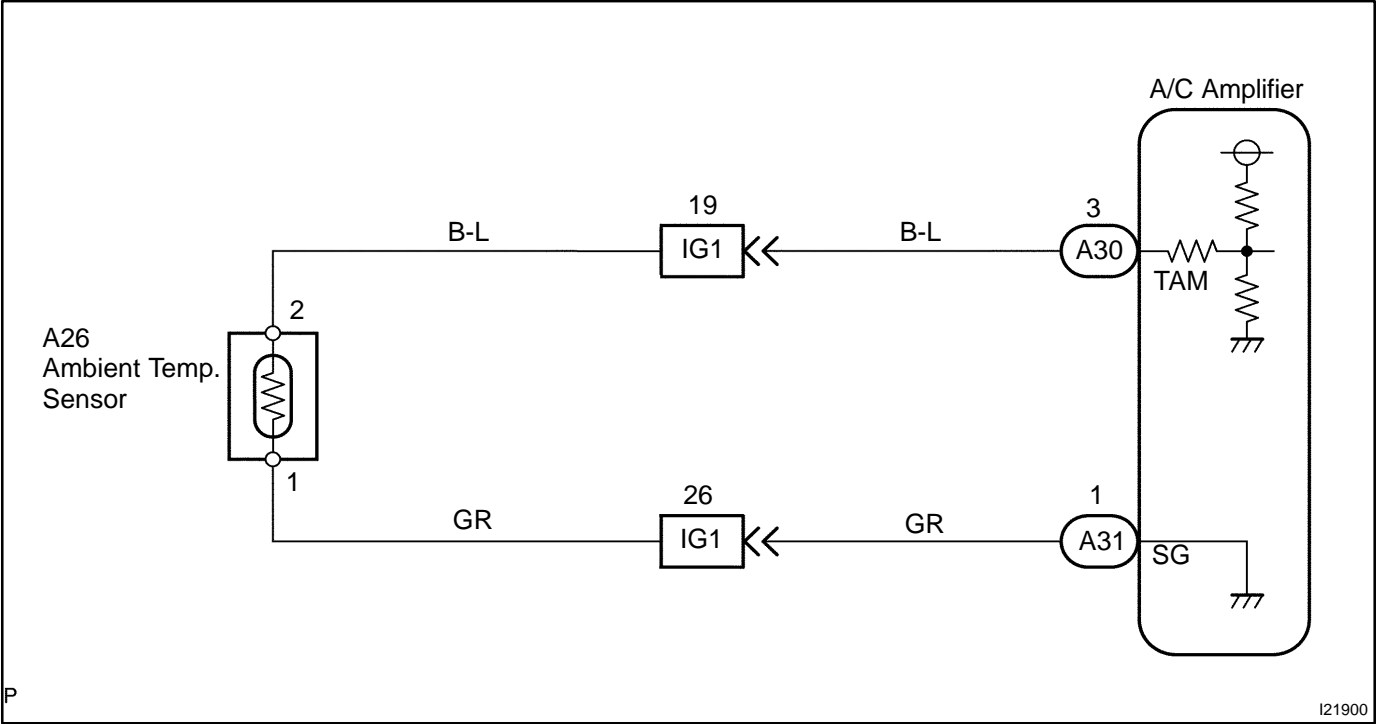
DTC	12	Ambient Temperature Sensor Circuit
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CIRCUIT DESCRIPTION

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

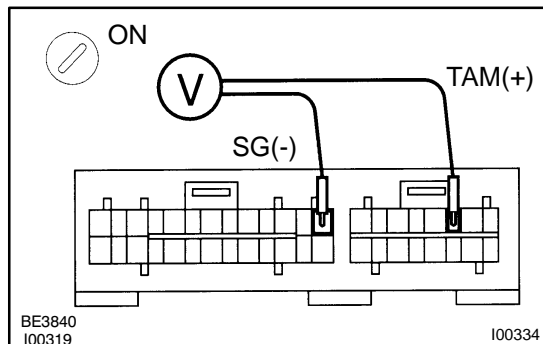
DTC No.	Detection Item	Trouble Area
12	Open or short in ambient temperature sensor circuit.	<ul style="list-style-type: none"> Ambient temperature sensor Harness or connector between ambient temperature sensor and A/C control assembly A/C control assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

- | | |
|----------|--------------------------------------------------------------------------------------|
| 1 | Check voltage between terminals TAM and SG of A/C control assembly connector. |
|----------|--------------------------------------------------------------------------------------|

**PREPARATION:**

- (a) Remove A/C control assembly with connectors still connected (See page [AC-84](#)).
- (b) Turn ignition switch to ON.

CHECK:

Check voltage between terminals TAM and SG of A/C control assembly 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

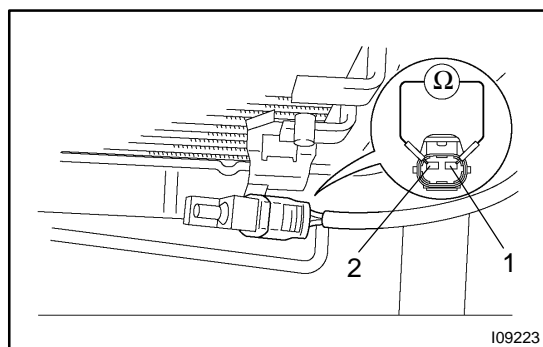
HINT:

As the temperature increases, the voltage decreases.

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

Proceed to the next circuit inspection shown on problem symptoms table (See page [DI-586](#)). However, if DTC 12 is displayed, check and replace A/C control assembly.

- | | |
|----------|------------------------------------------|
| 2 | Check ambient temperature sensor. |
|----------|------------------------------------------|

**PREPARATION:**

Disconnect ambient temperature sensor connector.

CHECK:

Check 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 40 °C (104 °F) : 0.5 - 0.7 kΩ

HINT:

As the temperature increase, the resistance decrease.

NG**Replace ambient temperature sensor.****OK**

3	Check harness and connector between A/C control assembly and ambient temperature sensor (See page IN-28).
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Repair or replace harness or connector.

OK

Check and replace A/C control assembly.