

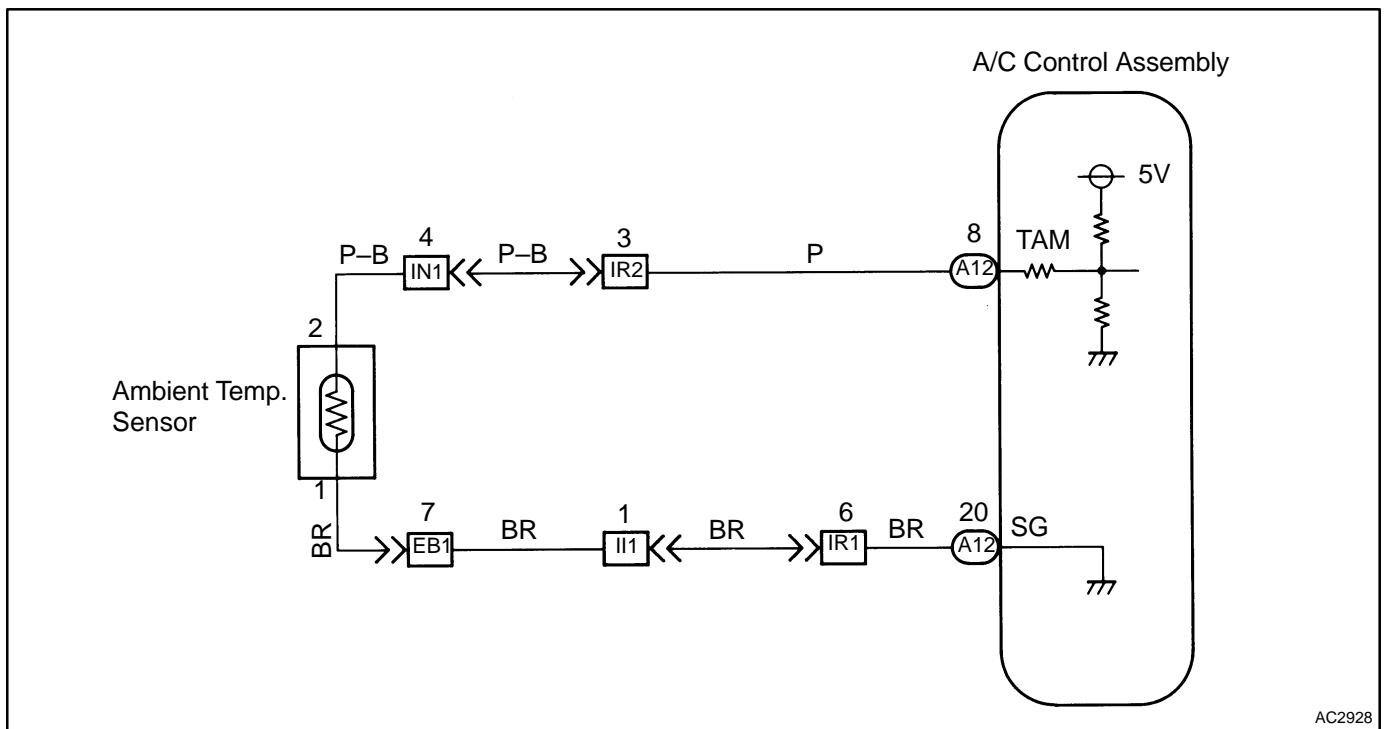
DTC	12	Ambient Temperature Sensor Circuit
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CIRCUIT DESCRIPTION

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

DTC No.	DTC Detecting Condition	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.

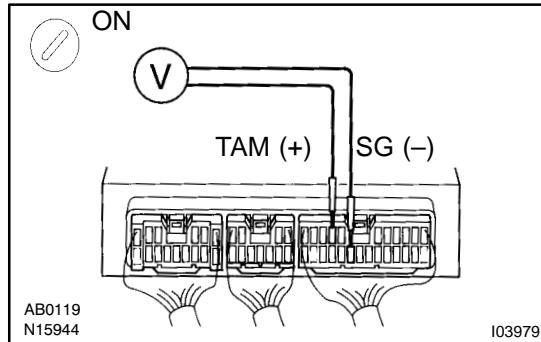
WIRING DIAGRAM



AC2928

INSPECTION PROCEDURE

- | | |
|----------|---|
| 1 | Check voltage between terminals TAM and SG of air conditioning control assembly connector. |
|----------|---|

**PREPARATION:**

- Remove A/C control assembly with connectors still connected.
- Turn ignition switch ON.

CHECK:

Check voltage between terminals TAM and SG of air conditioning 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.

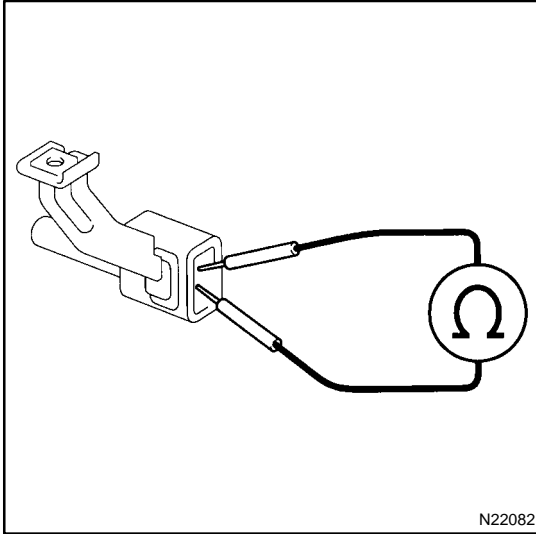
OK

Proceed to next circuit inspection shown on matrix chart (See page DI-821). However, if DTC 12 is displayed, check and replace air conditioning control assembly.

NG

Go to step 2.

2 Check ambient temperature sensor.



PREPARATION:

- (a) Remove engine under cover.
- (b) Remove ambient temperature sensor (See page [AC-65](#)).

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 50°C (122°F): 0.5 – 0.7 kΩ

HINT:

As the temperature increases, the resistance decreases.

NG

Replace ambient temperature sensor.

OK

3 Check for open and short in harness and connector between air conditioning control assembly and ambient temperature sensor (See page [IN-29](#)).

NG

Repair or replace harness or connector.

OK

Check and replace air conditioning control assembly.