

Diag. Code 12

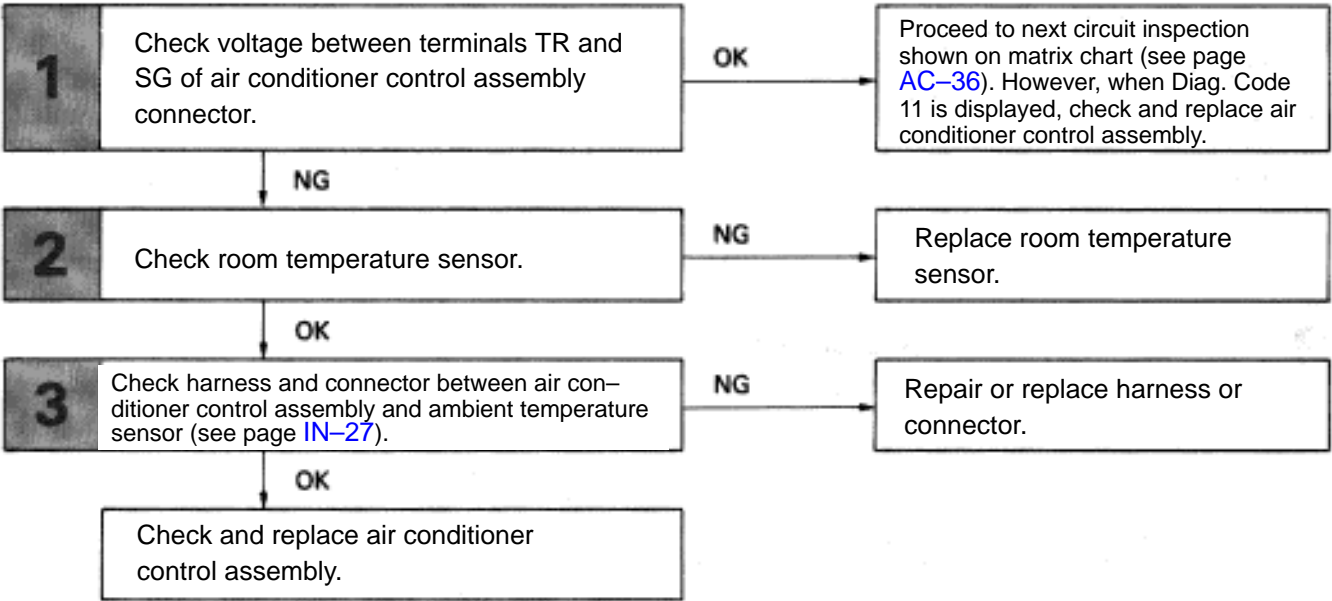
Ambient Temperature Sensor Circuit

CIRCUIT DESCRIPTION

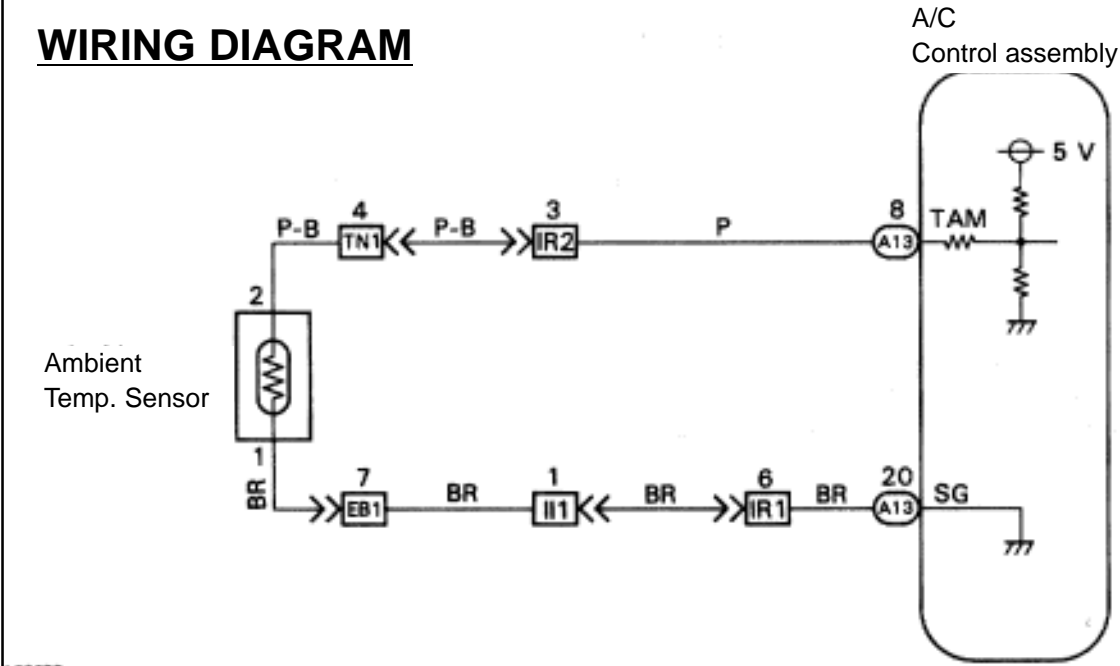
This sensor detects the ambient temperature and sends the appropriate signals to the A/C control assembly.

Code No.	Diag. Code Detecting Condition	Trouble area
12	Open or short in ambient temperature sensor circuit.	<ul style="list-style-type: none"><li>Ambient temperature sensor.</li><li>Harness or connector between ambient temperature sensor and A/C control assembly.</li><li>A/C control assembly.</li></ul>

DIAGNOSTIC CHART



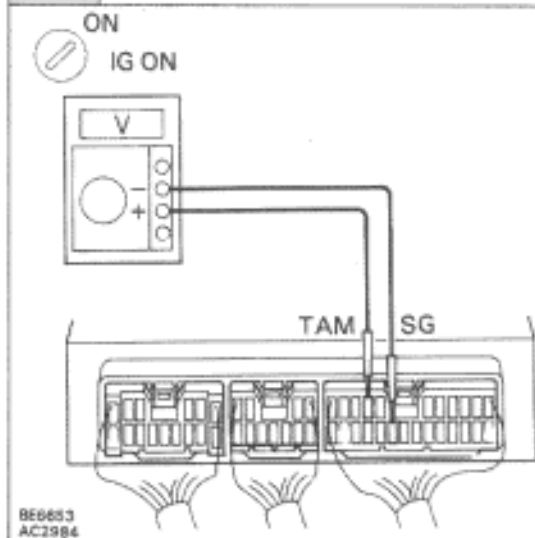
WIRING DIAGRAM



## INSPECTION PROCEDURE

### 1

**Check voltage between terminals TAM and SG of air conditioner control assembly connector.**



NG

**P**

1. Remove console upper panel. (See page [BO-111](#))
2. Remove A/C Control Assembly with connectors still connected.
3. Turn ignition switch ON.

**C**

Check voltage between terminals TAM and SG of air conditioner 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

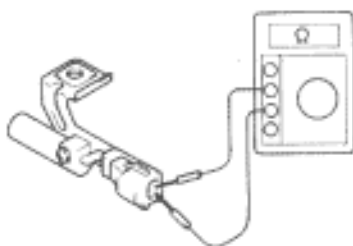
In addition, as the temperature increases, the voltage decreases gradually.

OK

Proceed to next circuit inspection shown on matrix chart (see page [AC-36](#)). However, when Diag. code 12 is displayed, check and replace air conditioner control assembly.

### 2

**Check ambient room temperature sensor**



AC2936

OK

**P**

1. Remove under cover.
2. Disconnect ambient temperature sensor connector.

**C**

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 Ω

at 50°C (122°F) : 0.5 ~ 0.7 Ω

In addition, as the temperature increases, the resistance decreases gradually.

NG

Replace room temperature sensor.

### 3

**Check for open and short in harness and connector between air conditioner control assembly and room temperature sensor (see page [In-27](#)).**

OK

NG

Repair or replace harness or connector.

Check and replace air conditioner control assembler.