DI6S3–01

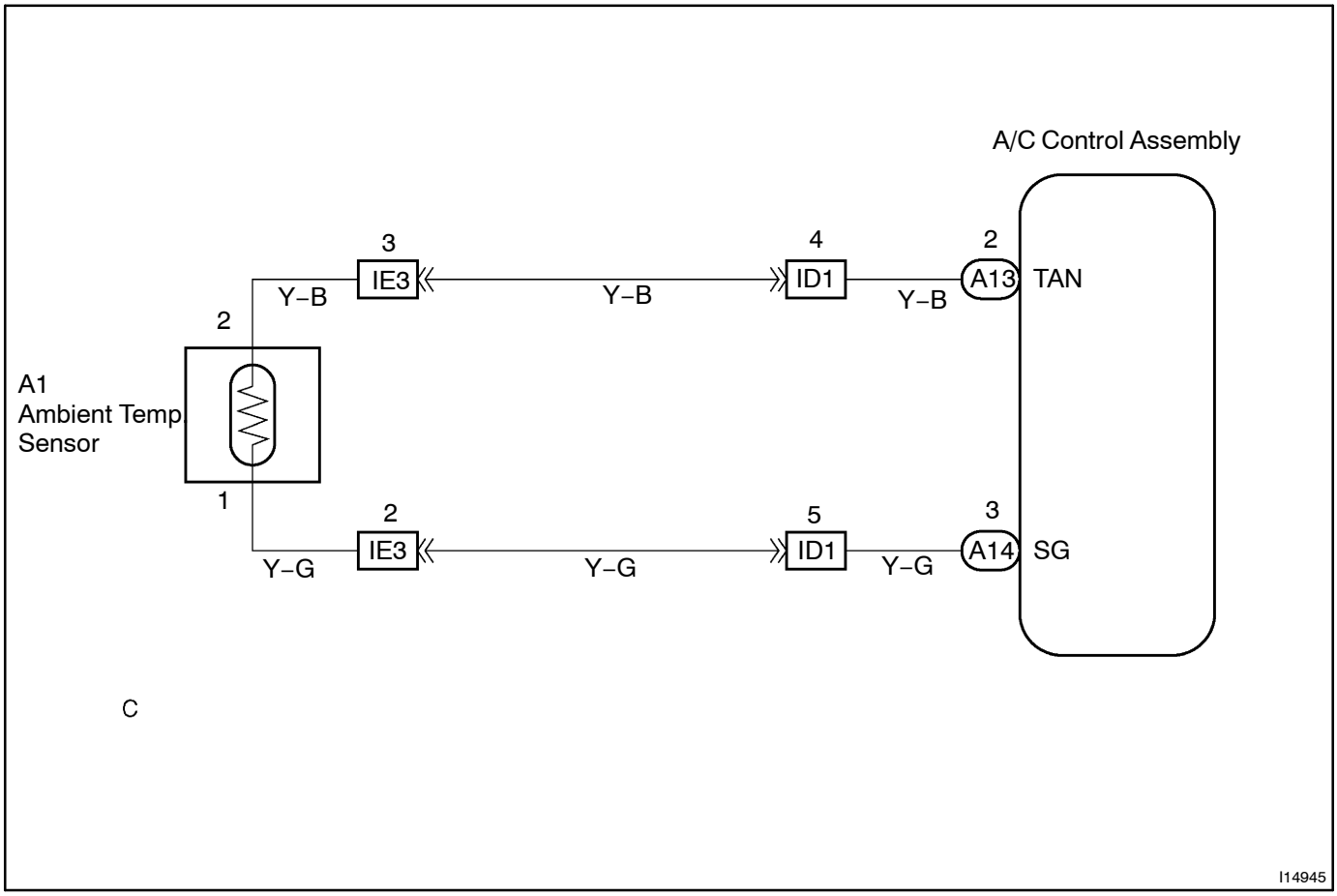
DTC	B1412/12	Ambient Temperature Sensor Circuit

CIRCUIT DESCRIPTION

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

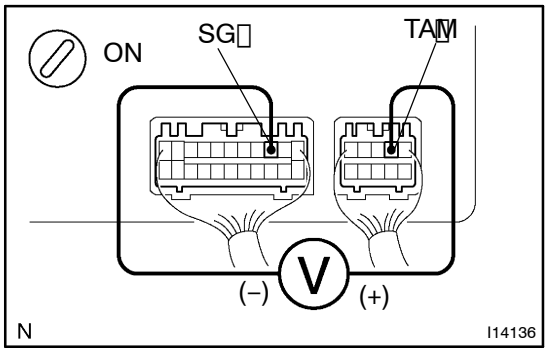
DTC No.	Detection Item	Trouble Area
12	Open or short in ambient temperature sensor circuit.	• Ambient temperature sensor. • Harness or connector between ambient temperature sensor and A/C control assembly. • A/C control assembly.

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.

(b) Turn ignition switch 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:

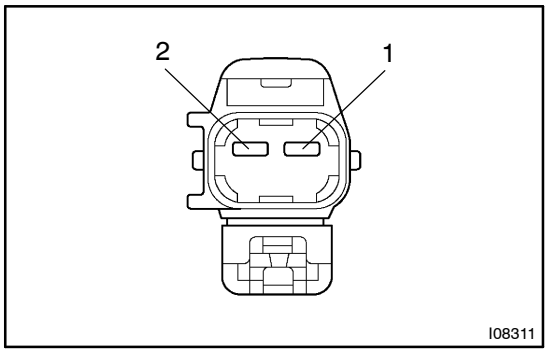
As the temperature increases, the voltage decreases.

NG	**Go to step 2.**

OK

Proceed to the next circuit inspection shown on problem symptoms table (See page DI–432). 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 increases, the resistance decreases.

NG	**Replace ambient temperature sensor.**

OK

3	Check harness and connector between A/C control assembly and ambient temperature sensor (See page IN–20).

NG → Repair or replace harness or connector.

OK →

Check and replace A/C control assembly.