DI6S3–01

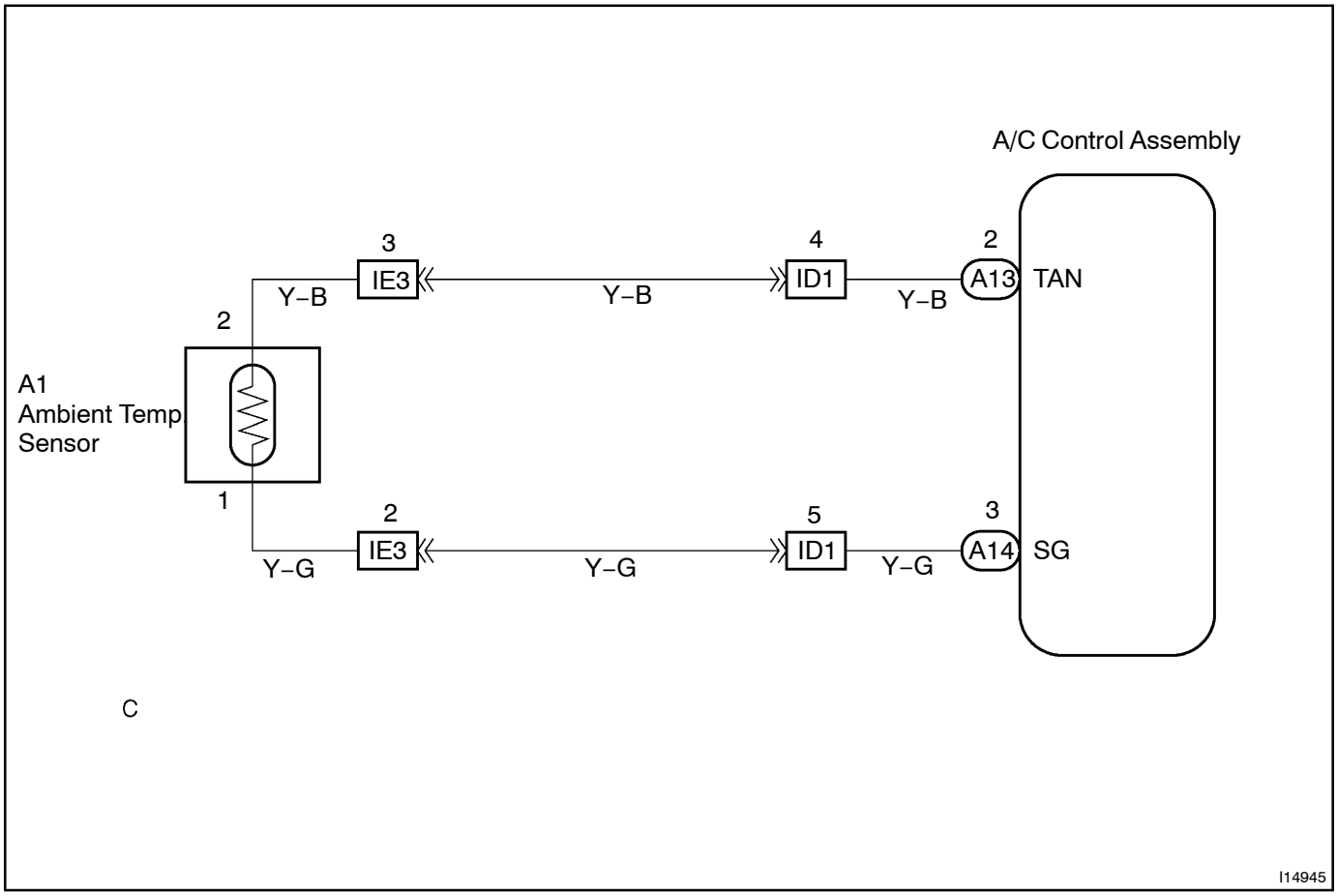
DTC	B1412/12	Ambient Temperature Sensor Circuit

CIRCUIT DESCRIPTION

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

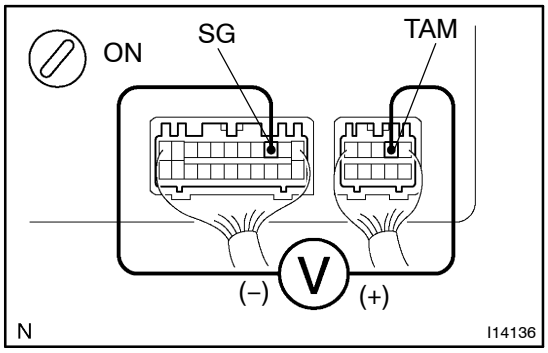
DTC No.	Detection Item	Trouble Area
12	Open or short in ambient temperature sensor circuit.	• Ambient temperature sensor. • Harness or connector between ambient temperature sensor and A/C control assembly. • A/C control assembly.

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:

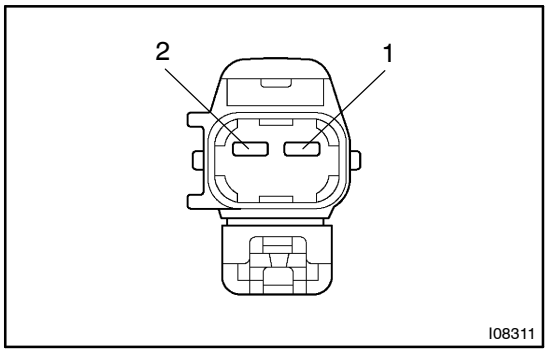
As the temperature increases, the voltage decreases.

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.