DI5CE-02

| DTC	14	Engine Coolant Temperature Sensor Circuit

CIRCUIT DESCRIPTION

This sensor detects the engine coolant temperature and sends the appropriate signals to the A/C control assembly. These signals are used for warm up control when the engine is cold.

| DTC No.	Detection Item	Trouble Area
14	Open or short in engine coolant temperature sensor circuit.	• Engine coolant temperature sensor • Harness or connector between engine coolant temp. sensor and A/C control assembly • A/C control assembly

WIRING DIAGRAM
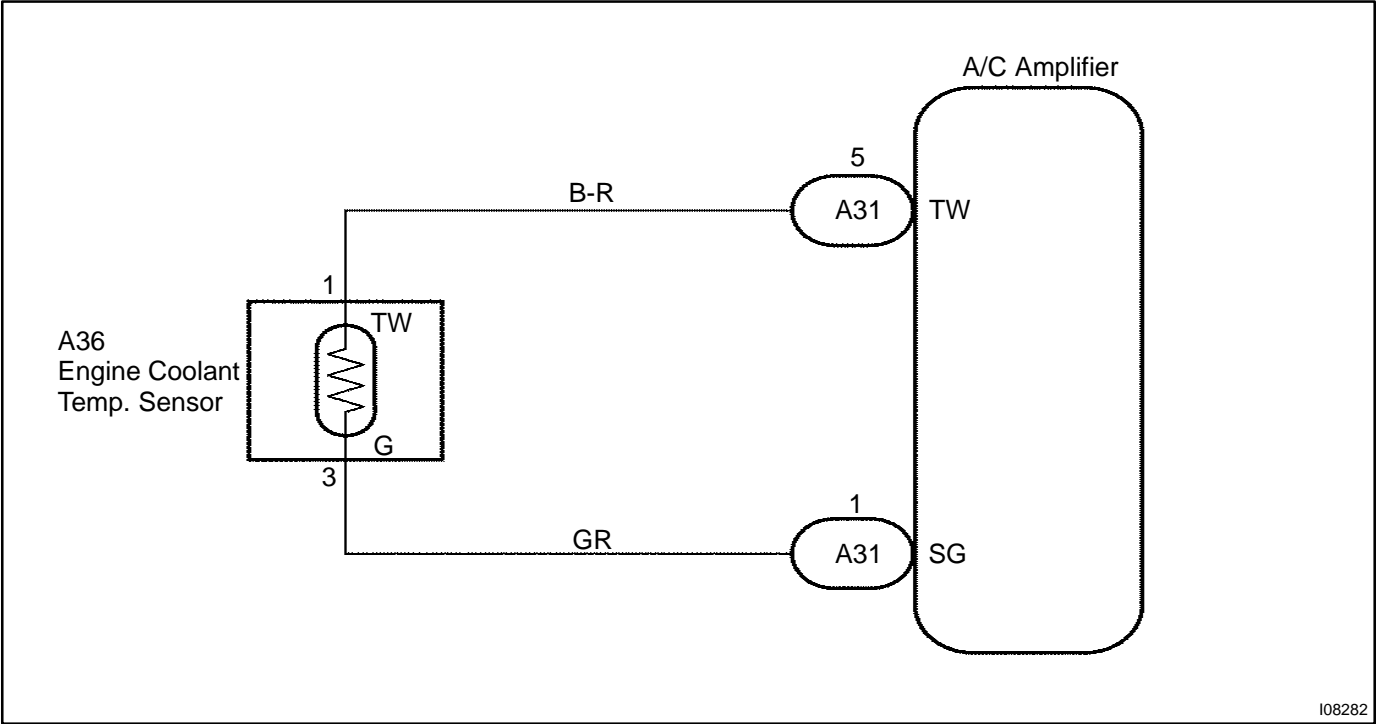
I08282

INSPECTION PROCEDURE

1	**Check voltage between terminals TW and SG of A/C control assembly connector.**

BE3840
I00398   I00369
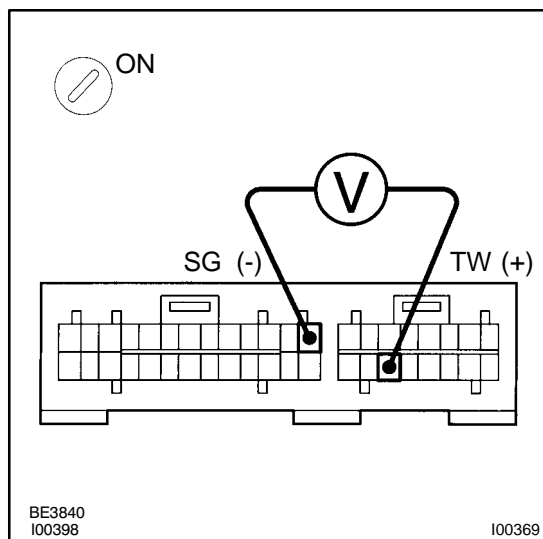
PREPARATION:
(a)   Remove A/C control assembly with connectors still con-
        nected (See page AC-84).
(b)   Turn ignition switch to ON.
CHECK:
Measure voltage between terminals TW and SG of A/C control
assembly connector at each engine coolant temperature.
OK:
> **Voltage**
> **at 0 ˚C (32 ˚F): 2.8 - 3.2 V**
> **at 40 ˚C (104 ˚F): 1.8 - 2.2 V**
> **at 70 ˚C (158 ˚F): 0.9 - 1.3 V**

HINT:
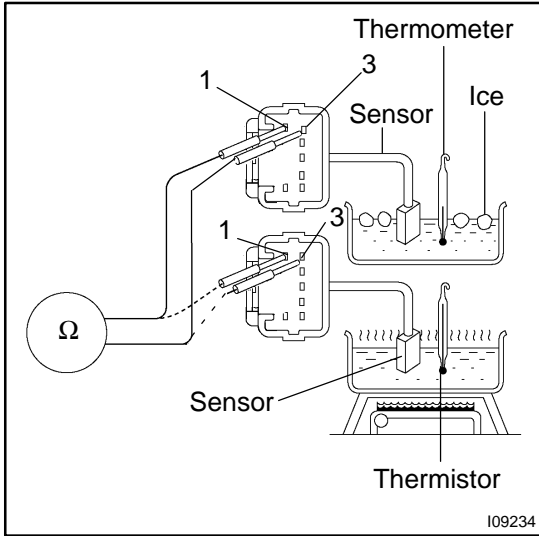As the temperature increases, the voltage decreases.

NG	Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-586). However-
er, if DTC 14 is displayed, check and replace A/C control assembly.

2	Check engine coolant temperature sensor.

PREPARATION:
Remove engine coolant temperature sensor (See page AC-28).

CHECK:
Measure resistance between terminals 1 and 3 of engine coolant temperature sensor connector at each temperature.

OK:

Resistance :
at 0˚C (32˚F) : Below 50 kΩ
at 40˚C (104˚F) : 2.5 - 2.7 kΩ
at 100 ˚C (212˚F): Over 0.3 kΩ

HINT:
As the temperature increases, the resistance decreases gradually.

NG >	Replace engine coolant temperature sensor.

OK

3	Check harness and connector between A/C control assembly and engine coolant temperature sensor (See page IN-28).

NG >	Repair or replace harness or connector.

OK

Check and replace A/C control assembly.