DI3F7–01

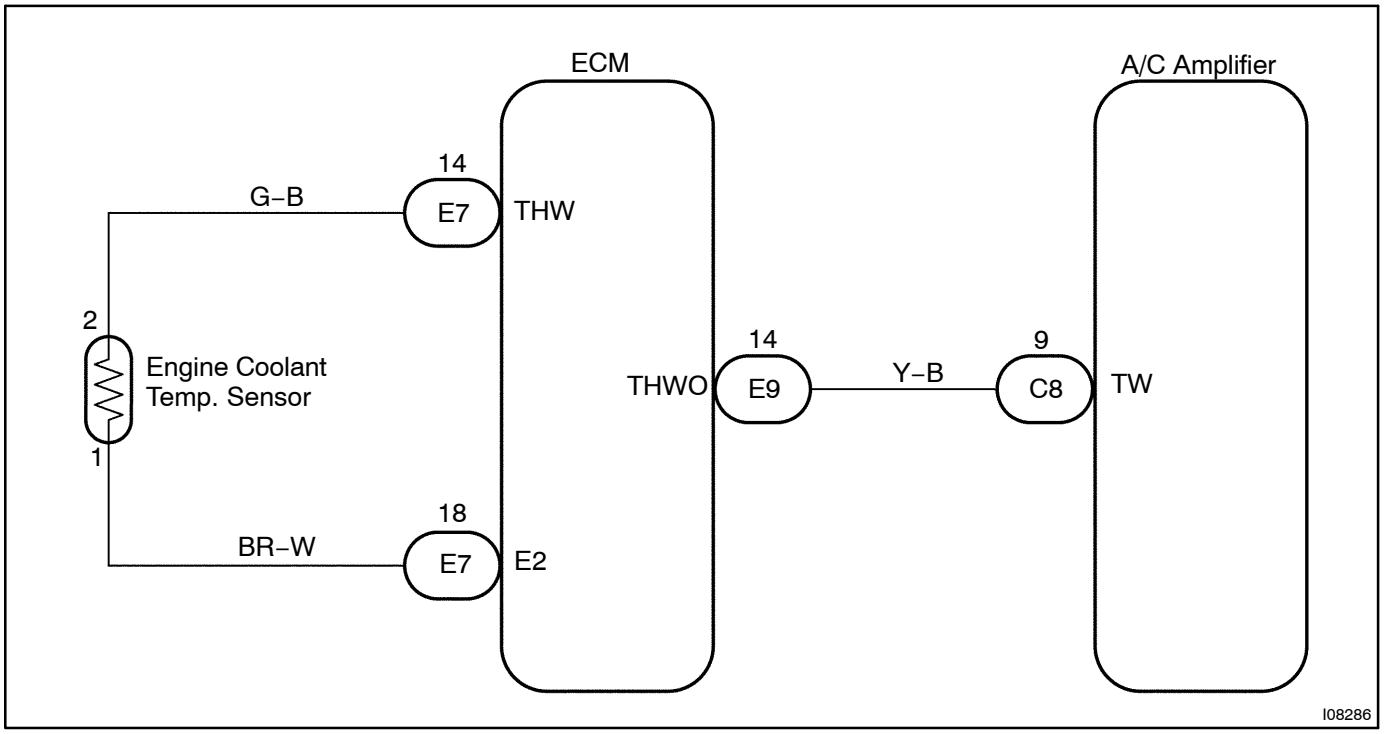
DTC	14	Engine Coolant Temperature Sensor Circuit

CIRCUIT DESCRIPTION

This sensor detects the engine coolant temperature and sends the appropriate signals to the A/C amplifier.

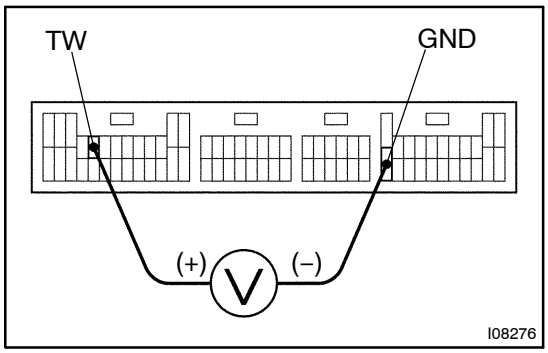
DTC No.	Detection Item	Trouble Area
14	Open or short in engine coolant temperature sensor circuit.	• Engine coolant temperature sensor. • Harness or connector between engine coolant temperature sensor and ECM. • Harness or connector between A/C amplifier and ECM. • A/C amplifier. • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminals TW and GND of A/C amplifier connector.



PREPARATION:
Remove A/C amplifier with connectors still connected.
CHECK:
(a) Turn ignition switch ON.
(b) Measure voltage between terminals TW and GND of A/C amplifier connector at each temperature.
OK:
Voltage :
at 25°C (77°F) : 1.8 – 2.2 V
at 40°C (104°F) : 1.2 – 1.6 V
HINT:
As the temperature increases, the voltage decreases.

NG → **Go to step 3.**

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI–769). However, if DTC 14 is displayed, check and replace A/C amplifier.

2	Check engine coolant temperature sensor circuit (See page DI–33).

NG → **Replace engine coolant temperature sensor.**

OK

3	Check harness and connector between A/C amplifier and ECM (See page IN–34).

NG → **Repair or replace harness or connector.**

OK

Check and replace A/C amplifier.