DI3F7–03

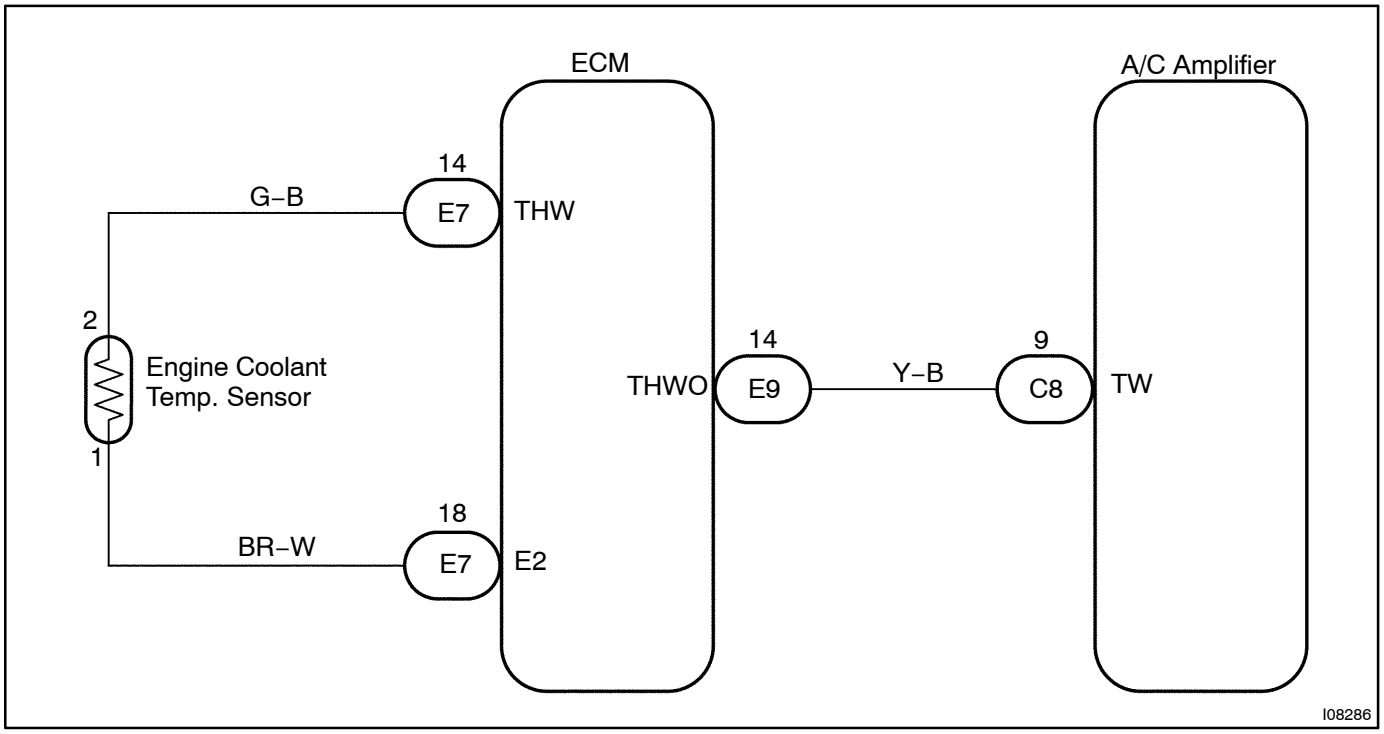
DTC	14	Engine Coolant Temperature Sensor Circuit

CIRCUIT DESCRIPTION

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

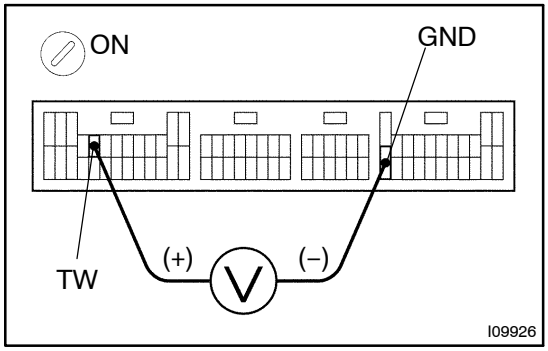
DTC No.	Detection Item	Trouble Area
14	Open or short in engine coolant temperature sensor circuit.	• Engine coolant temperature sensor. • Harness or connector between engine coolant temperature sensor and ECM. • Harness or connector between A/C amplifier and ECM. • A/C amplifier. • ECM

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 to 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–818). However, if DTC 14 is displayed, check and replace A/C amplifier.

2	**Check engine coolant temperature sensor circuit (See page DI–32).**

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.