

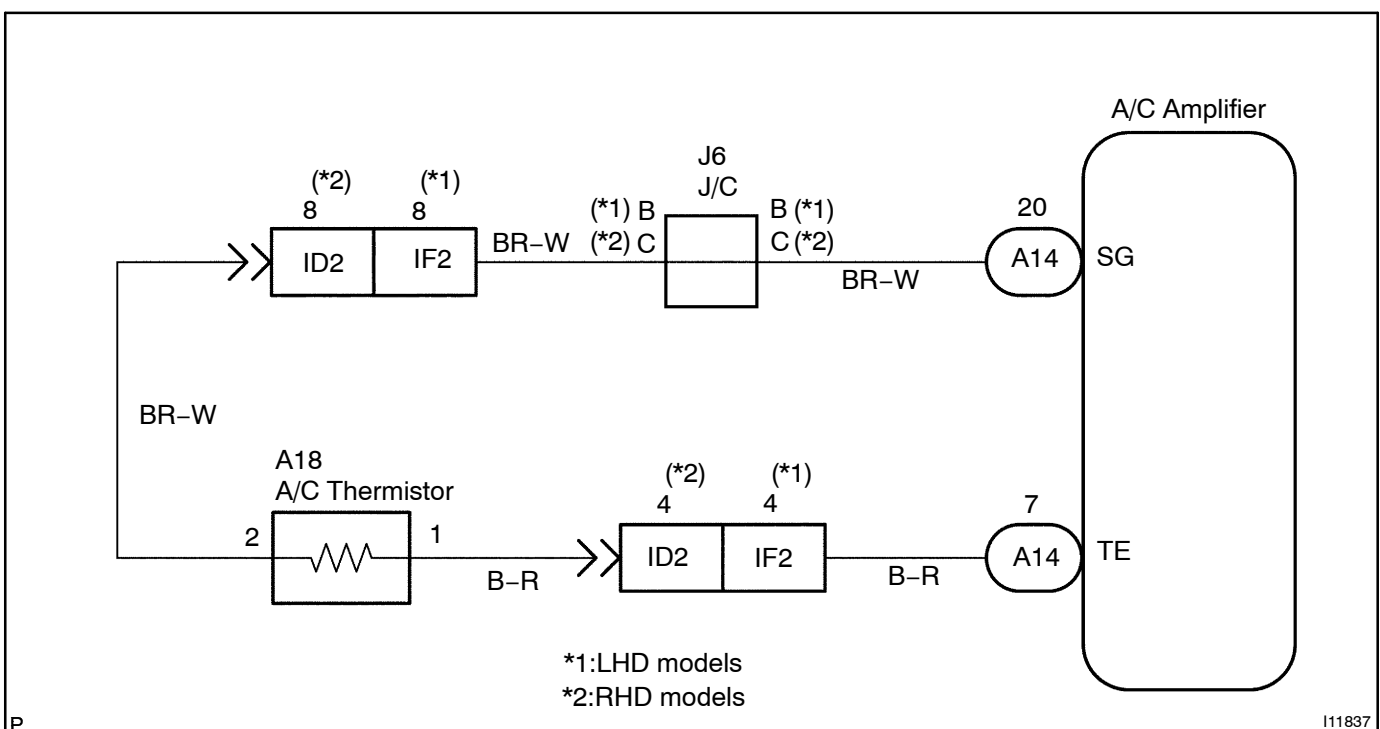
DTC	B1413	Evaporator Temperature Sensor circuit
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CIRCUIT DESCRIPTION

This sensor detects the temperature inside the A/C unit and sends the appropriate signals to the A/C amplifier.

DTC No.	Detection Item	Trouble Area
B1413	Open or short in evaporator temperature sensor circuit.	<ul style="list-style-type: none"> • Evaporator temperature sensor. • Harness or connector between evaporator temperature sensor and A/C amplifier. • A/C amplifier.

WIRING DIAGRAM



P

I11837

INSPECTION PROCEDURE**HINT:**

In case of using the hand-held tester start the inspection step 1 and in case of not using the hand-held tester, start from step 2.

1 Check evaporator temp. sensor using hand-held tester.

PREPARATION:

Connect the hand-held tester to the DLC3.

CHECK:

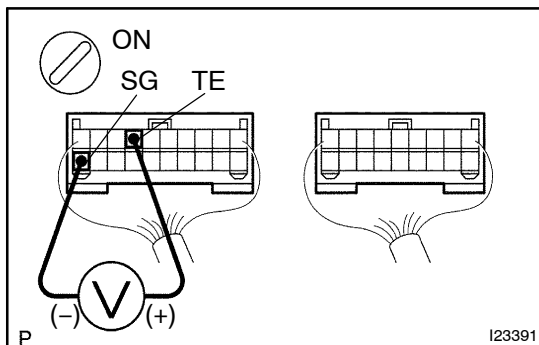
Check the evaporator temp. sensor using DATA LIST.

OK

Check and replace A/C amplifier.

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2 Check voltage between terminals TE and SG of A/C amplifier connector.

**PREPARATION:**

Remove the A/C amplifier with connectors still connected.

CHECK:

- Turn ignition switch to ON.
- Measure voltage between terminals TE and SG of A/C amplifier connector at each temperature.

OK:**Voltage**

at 0°C (32°F) 2.0 - 2.4V

at 15°C (59°F) 1.4 - 1.8V

HINT:

As the temperature increases, the voltage decreases.

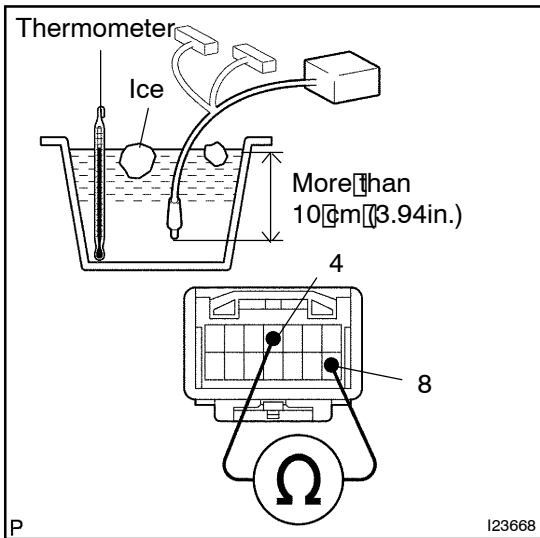
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Go to step 3.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-612). However, if DTC B1413 is displayed, check and replace A/C amplifier.

3 Check evaporator temperature sensor.



PREPARATION:

Remove evaporator temperature sensor.

CHECK:

Measure resistance between terminals 4 and 8 of evaporator temperature sensor connector at each temperature.

OK:

Resistance

at 0°C (32°F) 4.5 - 5.2 kΩ

at 15°C (59°F) 2.0 - 2.7 kΩ

HINT:

As the temperature increases, the resistance decreases.

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Replace evaporator temperature sensor.

OK

4 Check harness and connector between A/C amplifier and evaporator temperature sensor (See page N-34).

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Repair or replace harness or connector.

OK

Check and replace A/C amplifier.