

<b>DTC</b>	<b>B1422</b>	<b>Compressor Lock Sensor Circuit</b>
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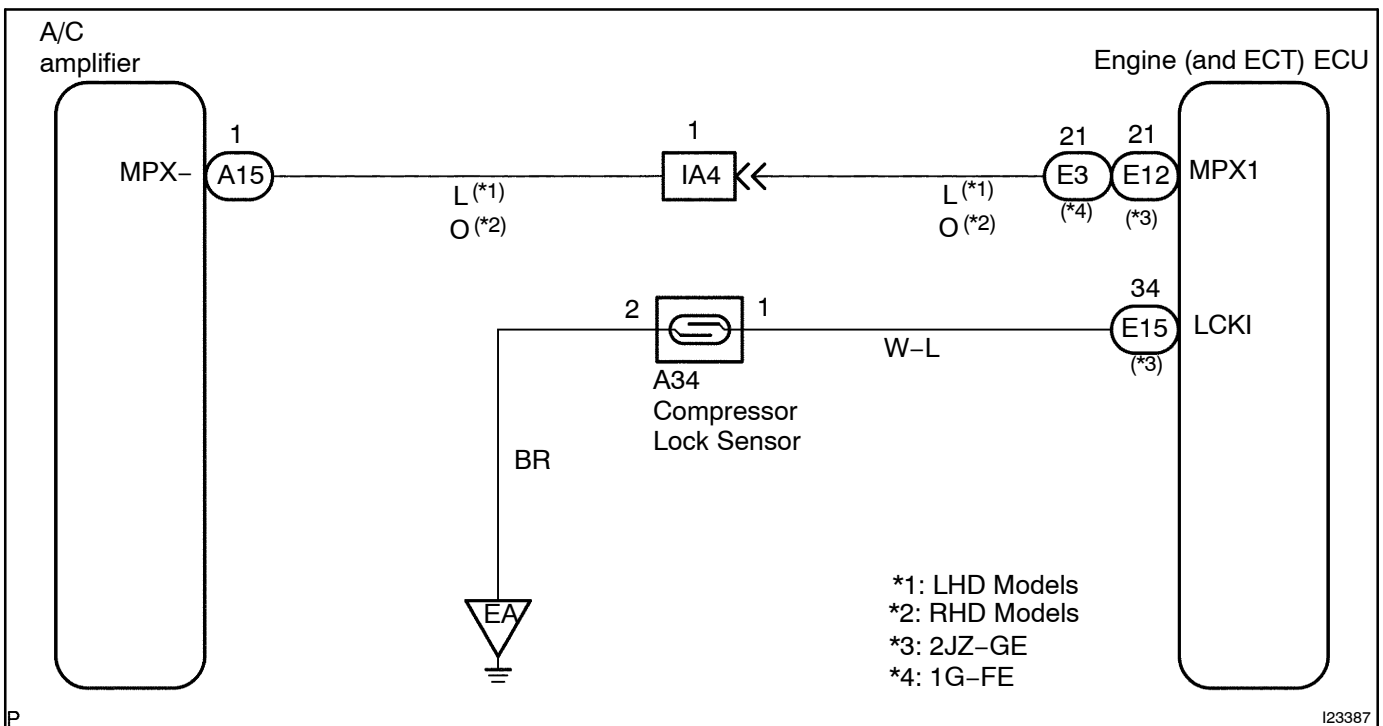
### CIRCUIT DESCRIPTION

This sensor sends 1 pulse per engine revolution to the engine (and ECT) ECU.

If the number ratio of the compressor speed divided by the engine speed is smaller than a predetermined value, the engine (and ECT) ECU turns the compressor OFF. And, the indicator flashes at about 1 second intervals.

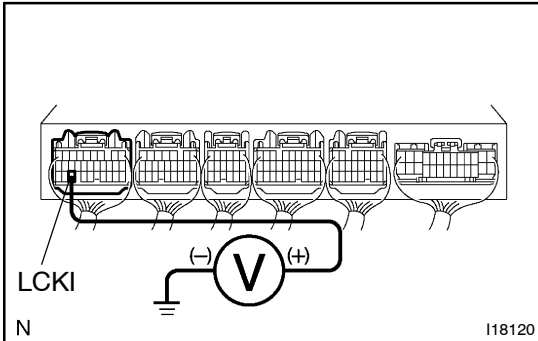
DTC No.	Detection Item	Trouble Area
B1422	All conditions below are detected for 3 secs. or more (a) Engine speed : 450rpm or more (b) Ratio between engine and compressor speed deviates 20% or more in comparison to normal operation.	<ul style="list-style-type: none"> <li>• Compressor.</li> <li>• Compressor drive belt.</li> <li>• Compressor lock sensor.</li> <li>• Harness and connector between compressor and engine (and ECT) ECU.</li> <li>• Harness and connector between engine (and ECT) ECU and A/C amplifier.</li> <li>• Engine (and ECT) ECU.</li> <li>• A/C amplifier.</li> </ul>

### WIRING DIAGRAM



## INSPECTION PROCEDURE

- 1 Check voltage between terminal LCKI of engine (and ECT) ECU and body ground.

**CHECK:**

- Start engine.
- Blower dial to AUTO.
- Measure voltage between terminal LCKI of engine (and ECT) ECU connector and body ground when A/C switch is ON.

**OK:**

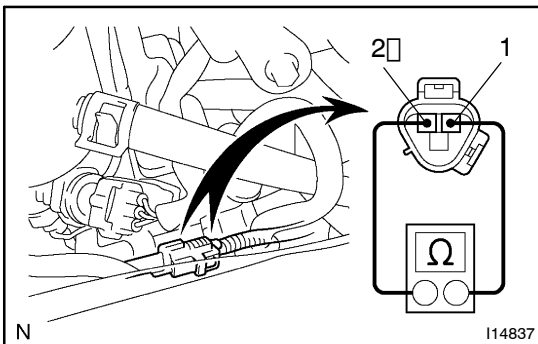
Voltage 10 - 14 V

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-612).

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- 2 Check compressor lock sensor.

**PREPARATION:**

Disconnect compressor lock sensor connector.

**CHECK:**

Measure resistance between terminals 1 and 2 of compressor lock sensor connector.

**OK:****Resistance**

at 20°C (68°F) 990 - 1210Ω

at 100°C (212°F) 1280 - 1550Ω

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Replace compressor lock sensor.

OK

- 3 Check harness and connectors between engine (and ECT) ECU and compressor lock sensor (See page IN-34).

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Repair or replace harness or connector.

OK

4 Check harness and connectors between engine (and ECT) ECU and A/C amplifier (See page IN-34).

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Repair or replace harness or connector.

OK

Check and replace engine (and ECT) ECU.