

DTC	B1422/22	Compressor Lock Sensor Circuit
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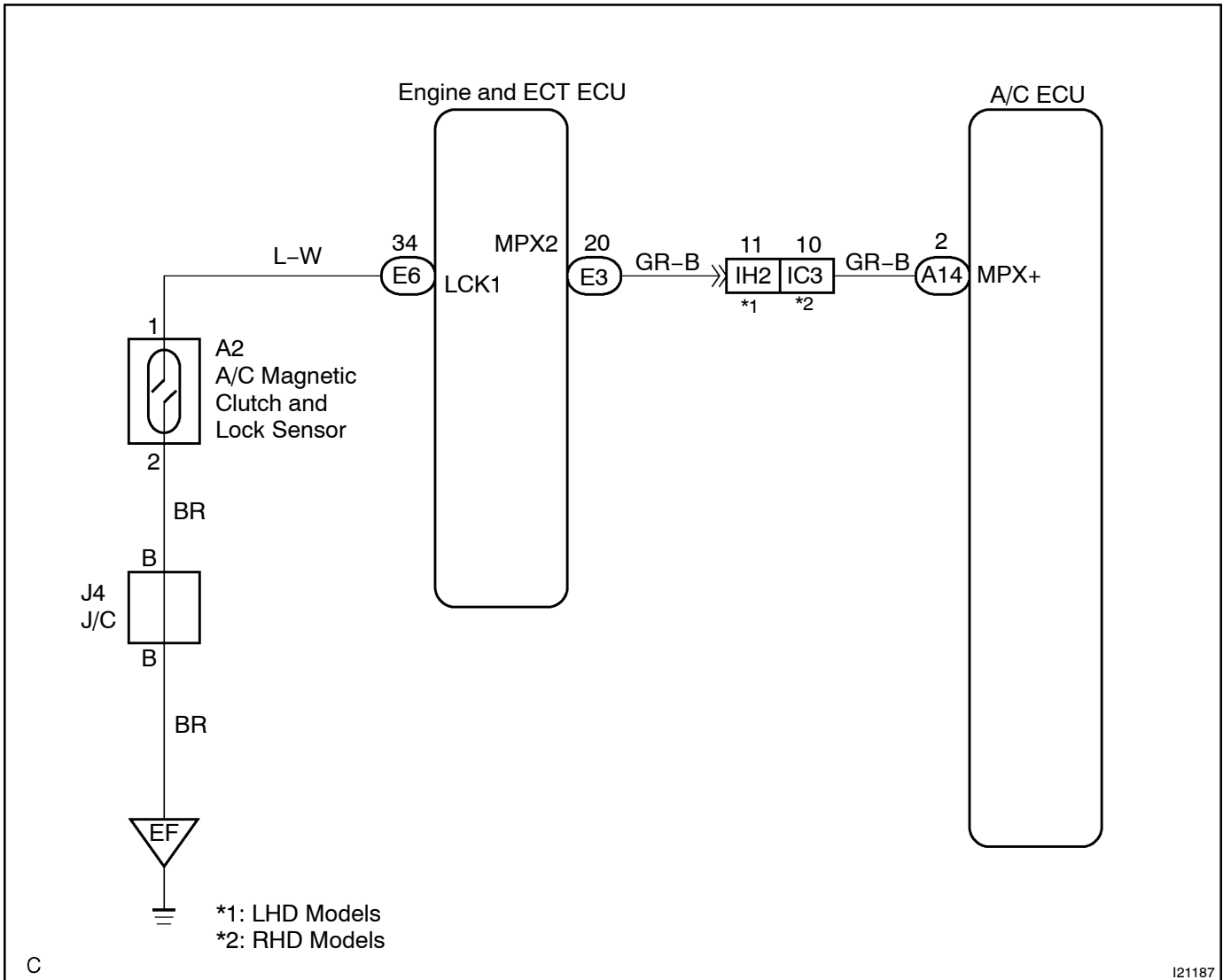
CIRCUIT DESCRIPTION

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.

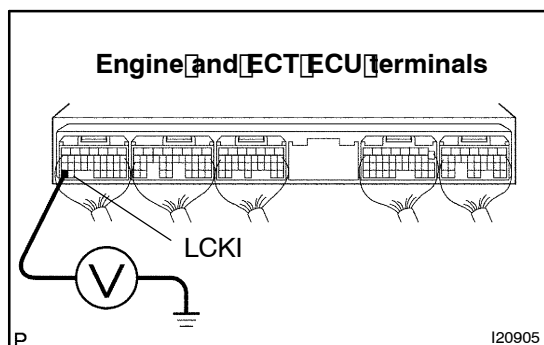
DTC No.	Detection Item	Trouble Area
B1422/22	All conditions below are detected for 3 secs. or more (a) Engine speed : 450rpm or more (b) Ratio between engine and compressor speed deviates 20% or more in comparison to normal operation.	<ul style="list-style-type: none"> • Compressor. • Compressor drive belt. • Compressor lock sensor. • Harness and connector between compressor and engine and ECT ECU. • Harness and connector between engine and ECT ECU and A/C ECU. • Engine and ECT ECU. • A/C ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

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

**CHECK:**

- Start engine.
- Push AUTO SW.
- Measure voltage between terminal LCKI of engine and ECT ECU connector and body ground when A/C switch is ON.

OK:

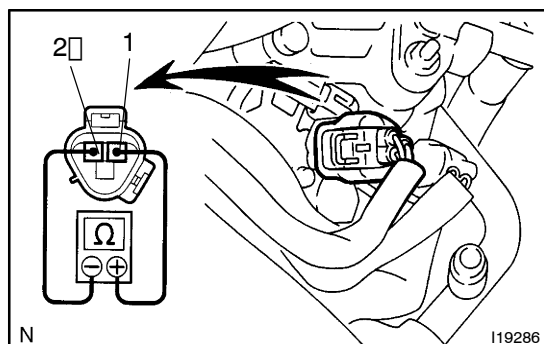
Voltage : 10 - 14 V

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-1772).

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- 2 Check compressor lock sensor.

**PREPARATION:**

- Jack up the vehicle.
- 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) : 160 - 320 Ω

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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-35).

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Repair or replace harness or connector.

OK

Check multiplex communication system.