

DTC	B1422/22	Compressor Lock Sensor Circuit
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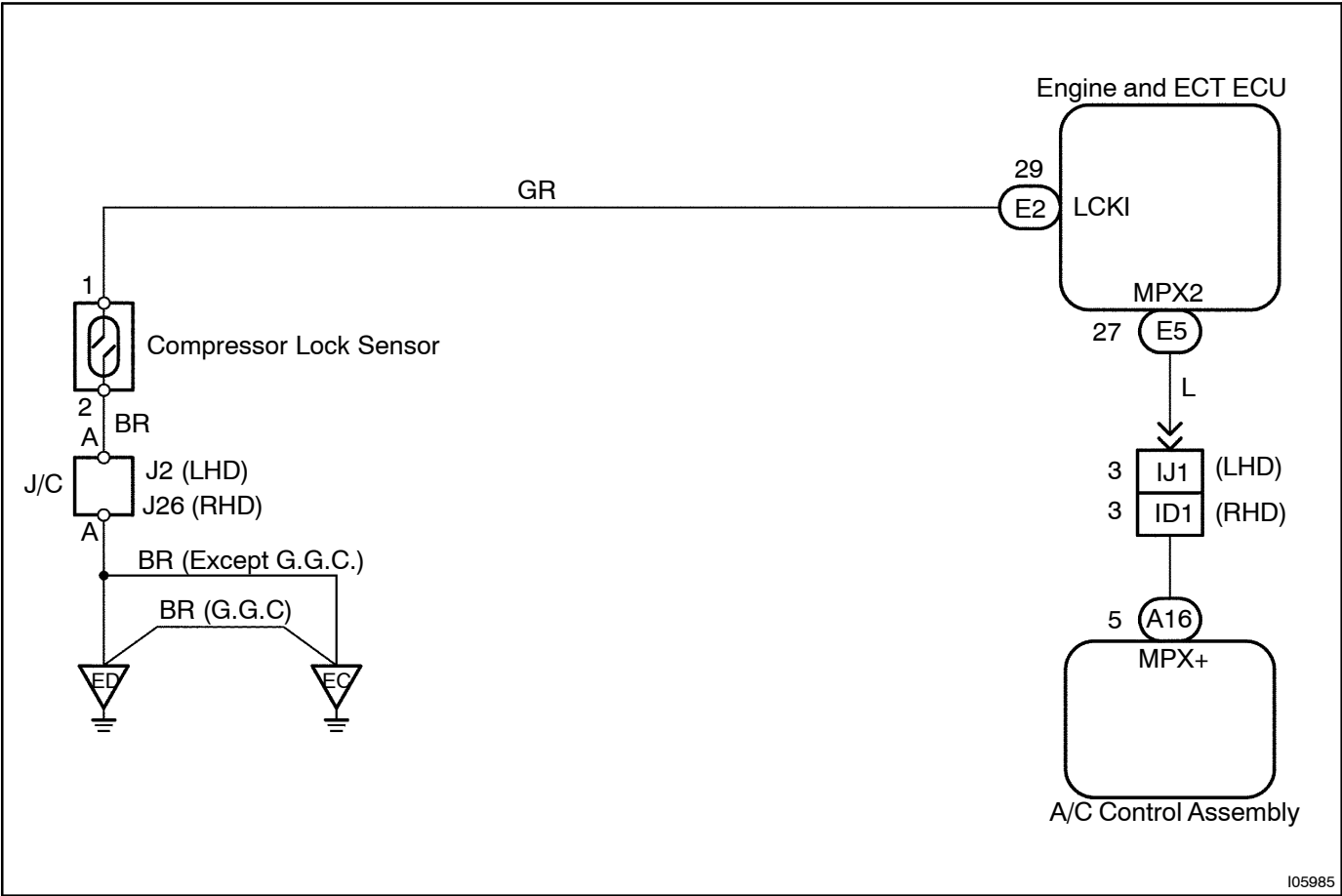
CIRCUIT DESCRIPTION

This sensor sends 4 pulses 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.

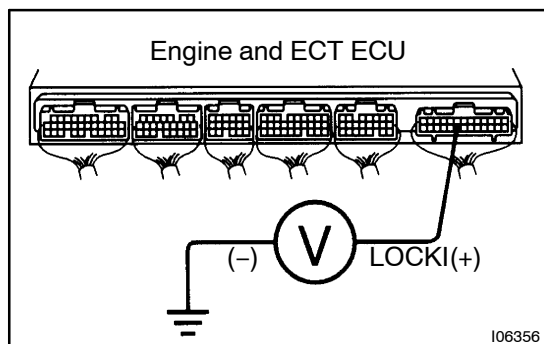
DTC No.	Detection Item	Trouble Area
B1422/22	All conditions below are detected for 3 secs. or more (a) Engine speed : 450rpm or more (b) Ratio between engine and compressor speed deviates 20% or more in comparison to normal operation.	• Compressor. • Compressor drive belt. • Compressor lock sensor. • Harness and connector between compressor and engine and ECT ECU • Harness and connector between engine and ECT ECU and A/C control assembly • Engine and ECT ECU • A/C control assembly.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminal LCKI of engine and ECT ECU and body ground.
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**CHECK:**

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

OK:

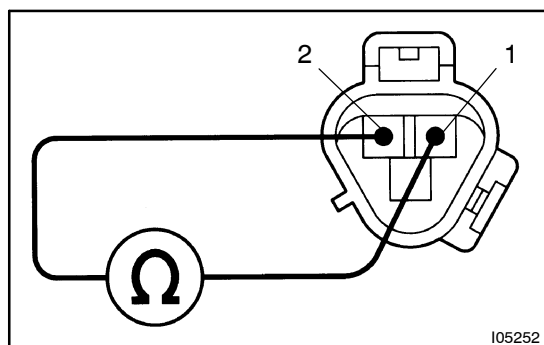
Voltage : 10 – 14 V

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-912).

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2	Check compressor lock sensor.
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**PREPARATION:**

- (a) Jack up the vehicle.
- (b) 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 – 1210 Ω

at 100°C (212°F) : 1280 – 1550 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-29).
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Repair or replace harness or connector.

OK

4

Check harness and connectors between engine and ECT ECU and A/C control assembly.(See page IN-29).

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Repair or replace harness or connector.

OK

Check and replace engine and ECT ECU and A/C control assembly.