DI26A-02

DTC	B1422/22	Compressor Lock Sensor Circuit
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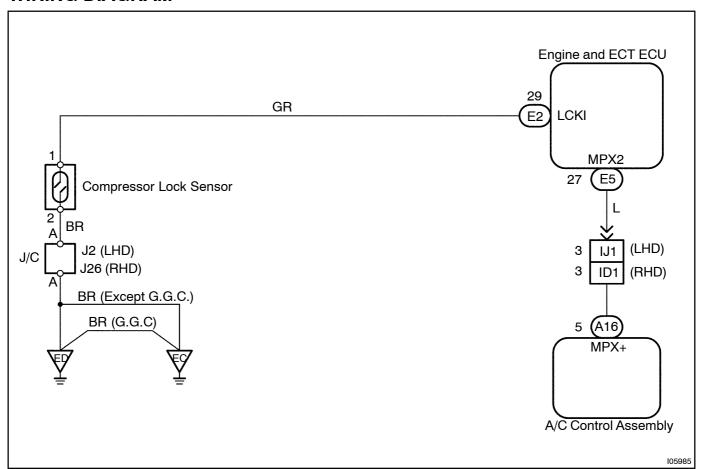
# **CIRCUIT DESCRIPTION**

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.

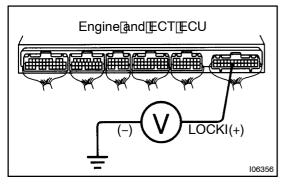
## **WIRING DIAGRAM**



# **INSPECTION PROCEDURE**

1[]

Check[voltage[between[terminal]\_LCKI[of[engine]and[ECT[ECU[and[body[ground.



#### CHECK:

- (a) ☐ Start rengine.
- (b) Push AUTO SW.
- (c) Measure voltage between terminal CKI frequencies ECT[ECU[connector[and[body[ground[when[A/C[switch is∏ON.

OK:

Voltage[] 10 - 14 V

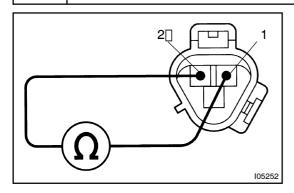


Proceed\_to\_next\_circuit\_inspection\_shown\_on problem[symptoms[table[See[page[DI-912)]]

NG

2∏

Check compressor ock sensor.



### **PREPARATION:**

- (a) ☐ Jack ☐ up ☐ the ☐ vehicle.
- (b) Disconnect compressor ock sensor connector.

Measure resistance between terminals frand 2 of compressor lock[\$ensor[connector.

OK:

Resistance: at[20°C[(68°F)]:[990 - 1210[\overline{1}]2 at 100°C (212°F) 1280 - 1550 1

NG□

Replace compressor lock sensor.

OK

3∏

Check[harness[and[connectors[between]engine]and[ECT[ECU[and[compressor] lock sensor. (See page IN-29).

NG

Repair or replace harness or connector.

OK

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

NG

Repair or replace harness or connector.

OK

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