

DTC	22	Compressor Lock Sensor Circuit
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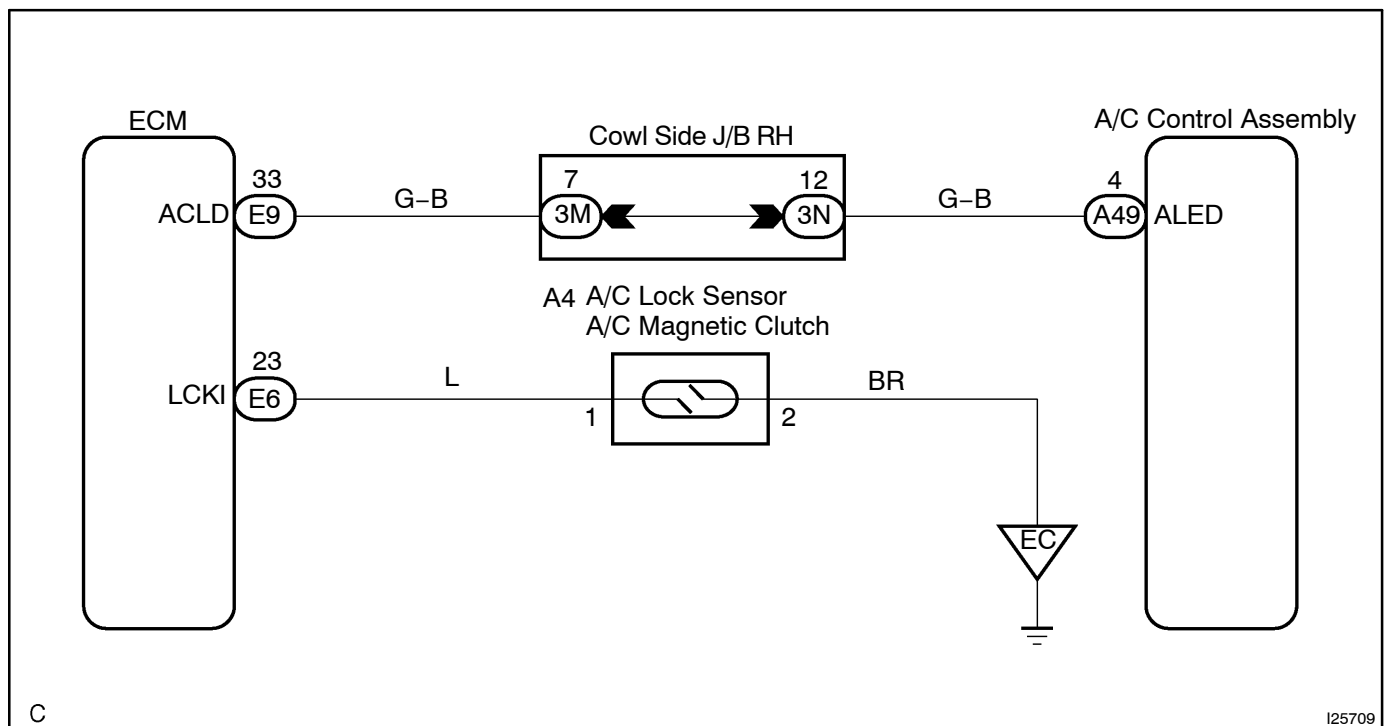
CIRCUIT DESCRIPTION

This sensor sends 1 pulse per engine revolution to the ECM.

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

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

WIRING DIAGRAM



INSPECTION PROCEDURE

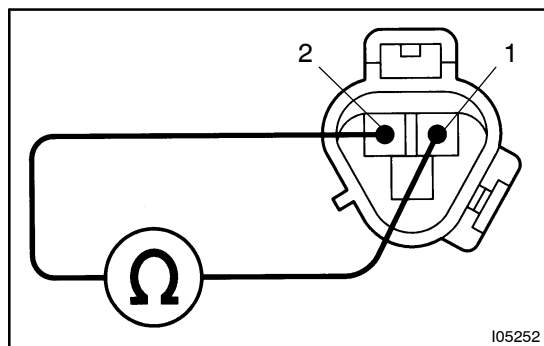
1 Check compressor.

PREPARATION:

- (a) Check compressor drive belt tension (See page [AC-15](#)).
- (b) Check if the compressor does not lock during operation with engine started and blower switch and A/C switch ON.

NG**Adjust drive belt tension or repair compressor.****OK**

2 Check compressor lock sensor.



PREPARATION:

Disconnect compressor connector.

CHECK:

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

OK:

Resistance : 65 – 125 Ω at 20°C (68°F)**NG****Replace compressor.****OK**

3 Check harness and connector between compressor lock sensor and ECM (See page [IN-26](#)).

NG**Repair or replace harness or connector.****OK**

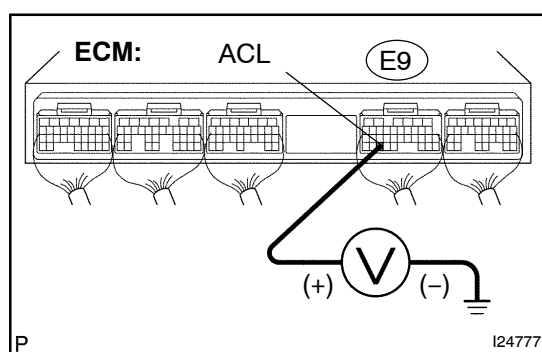
- 4 Check harness and connector between ECM and A/C amplifier**
(See page [IN-26](#)).

NG

Repair or replace harness or connector.

OK

- 5 Check voltage between terminals ACLD of ECM and body ground.**



PREPARATION:

Remove ECM with connectors still connected.

CHECK:

- (a) Turn ignition switch to ON.
- (b) A/C switch ON.
- (c) Measure voltage between terminals ACLD of ECM and body ground.

OK:

Voltage: Below 1.0 V

NG

Check and replace ECM.

OK

Check and replace A/C amplifier.