DIAR1-01

DTC	22	Compressor Lock Sensor Circuit
-----	----	--------------------------------

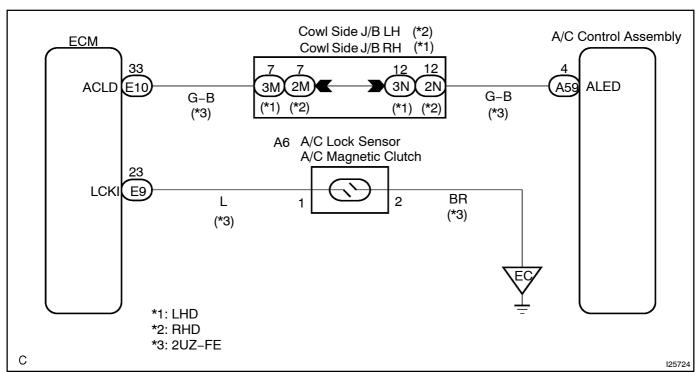
# **CIRCUIT DESCRIPTION**

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
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 Engine (and ECT) ECU Harness or connector between compressor lock sensor and engine (and ECT) ECU Harness or connector between engine (and ECT) ECU and A/C amplifier  A/C amplifier

# **WIRING DIAGRAM**



# **INSPECTION PROCEDURE**

1[]

Check compressor.

### **PREPARATION:**

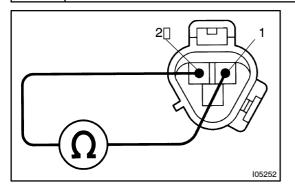
- (a) Check compressor drive belt ension.
- (b) Check[if[the@ompressor@does@ot[lock@uring@peration[with@ngine[started@and@lower[switch@nd]A/C switch[DN.

NG□

Adjust[drive[belt[tension[or[repair[compressor.

OK

2 | Check compressor lock sensor.



#### **PREPARATION:**

Disconnect@ompressor@onnector.

#### **CHECK:**

Measure desistance between derminals dand 2 of compressor lock sensor onnector.

OK:

Resistance[[65 - 125[\(\Omega\) at [20°C[[68[] F)]

NG□

Replace compressor.

OK

3 Check[harness[and]connector[between]compressor[lock[sensor[and]engine[and ECT)]ECU[See[page]N-27).

NG

Repair or replace harness or connector.

ОК

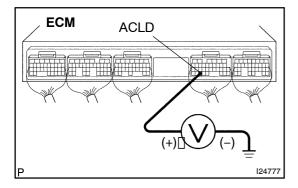
4 Check[harness[and[connector[between[engine](and[ECT)[ECU[and[A/C[amplifier (See[page][N-27).

NG

Repair or replace harness or connector.

OK

5 Check voltage between terminals ACLD of engine (and ECT) ECU and body ground.



# **PREPARATION:**

Remove engine (and ECT) ECU with connectors still connected.

#### **CHECK:**

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

# OK:

Voltage: Below 1.0 V

NG

Check and replace engine (and ECT) ECU.

OK

Check and replace A/C amplifier.