

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

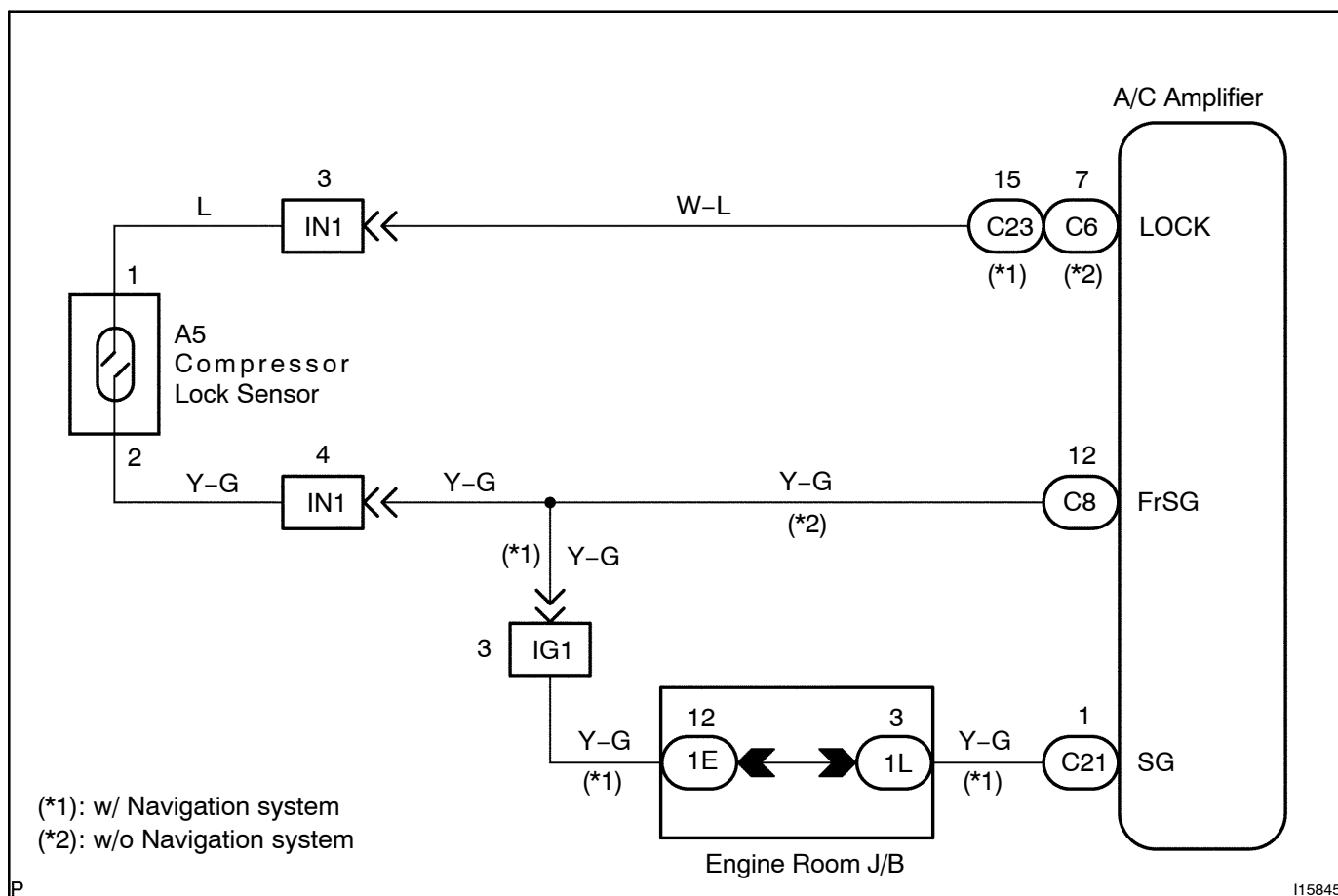
CIRCUIT DESCRIPTION

This sensor sends 4 pulses per engine revolution to the A/C amplifier.

If the number ratio of the compressor speed divided by the engine speed is smaller than a predetermined value, the A/C amplifier 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 secs. 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. • Compressor drive belt. • Compressor lock sensor. • Harness and connector between compressor lock sensor and A/C amplifier • A/C amplifier

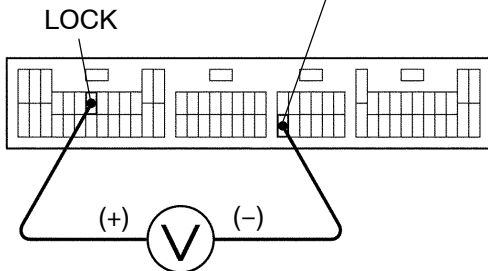
WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminal LOCK and FrSG (or SG) of A/C amplifier.
----------	---

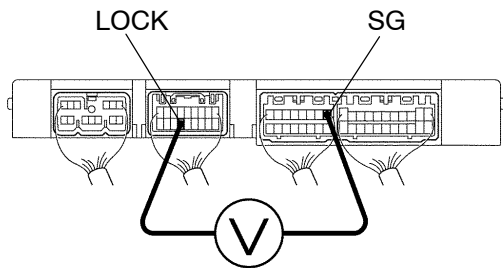
w/o Navigation system: FrSG

**CHECK:**

- (a) Start engine.
- (b) Push AUTO SW.
- (c) Measure voltage between terminal LOCK and FrSG (or SG) of A/C amplifier connector when A/C switch is ON.

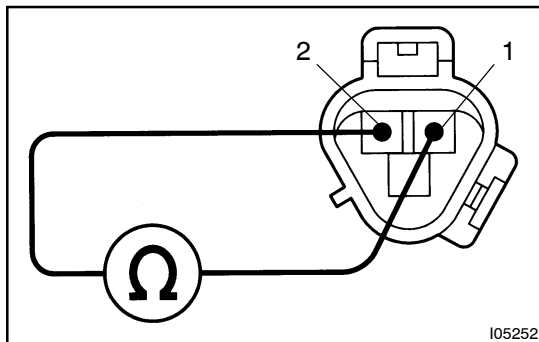
OK:**Voltage : 10 – 14 V****OK****Go to step 2.**

w/ Navigation system:

**NG**

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-908](#)). However, if DTC 22 is displayed, check and replace A/C amplifier.

2	Check compressor lock sensor.
----------	--------------------------------------

**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) : 570 – 1050 Ω****at 100°C (212°F) : 1280 – 1550 Ω****NG****Replace compressor.**

OK

3

Check harness and connectors between A/C amplifier and compressor lock sensor (See page [IN-34](#)).

NG

Repair or replace harness or connector.

OK

Check and replace A/C amplifier and compressor lock sensor.