

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

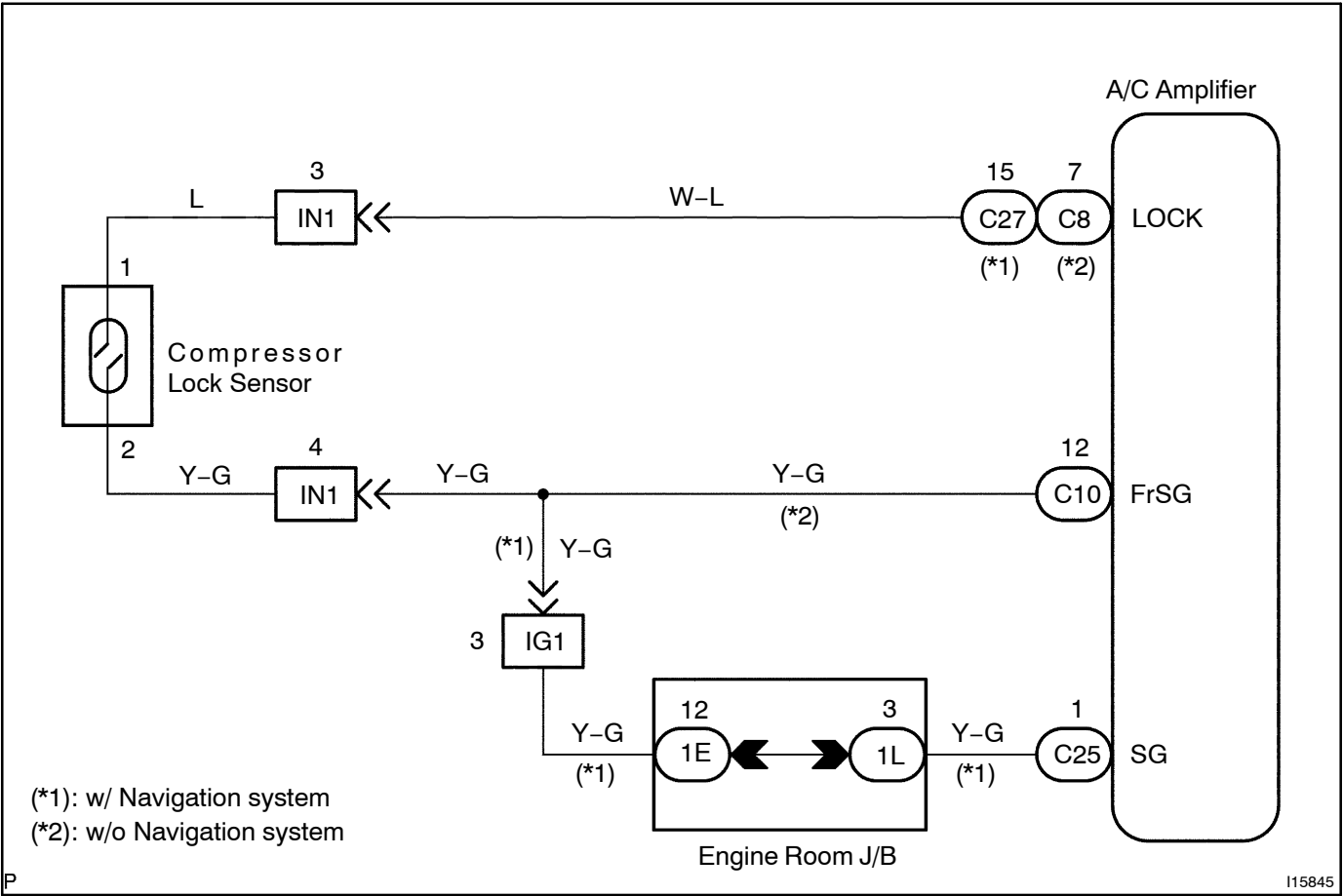
CIRCUIT DESCRIPTION

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.

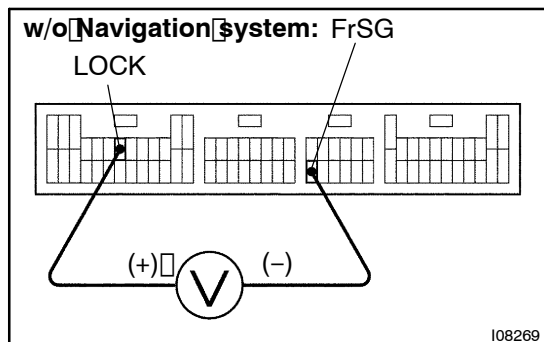
DTC No.	Detection Item	Trouble Area
22	All conditions below are detected for 3 secs. or more (a) Engine speed : 450 rpm or more (b) Ratio between engine and compressor speed deviates 20 % or more in comparison to normal operation.	<ul style="list-style-type: none">• Compressor.• Compressor drive belt.• 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.

**CHECK:**

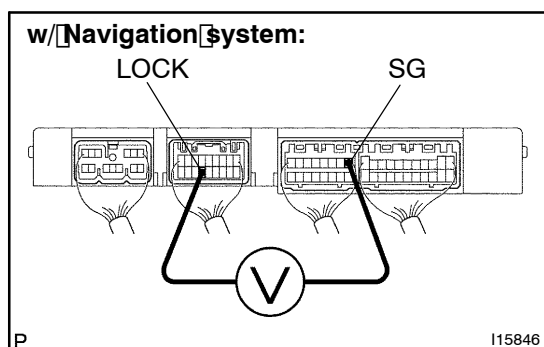
- Start engine.
- Push AUTO SW.
- Measure voltage between terminal LOCK and FrSG (or SG) of A/C amplifier connector when A/C switch is ON.

OK:

Voltage : 10 – 14 V

OK

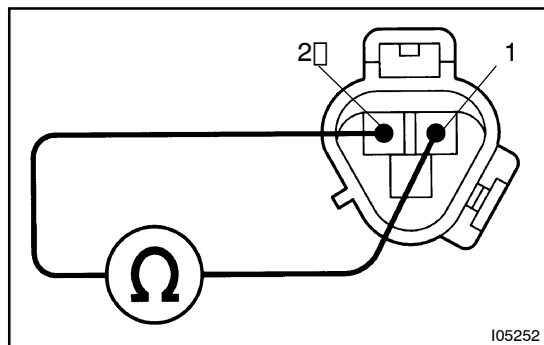
Go to step 2.



NG

Proceed to next circuit inspection shown on problem symptoms table (See page DI-130). However, if DTC 22 is displayed, check and replace A/C amplifier.

2 Check compressor lock sensor.

**PREPARATION:**

- Jack up the vehicle.
- 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

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.