

<b>DTC</b>	<b>22</b>	<b>Compressor Lock Sensor Circuit</b>
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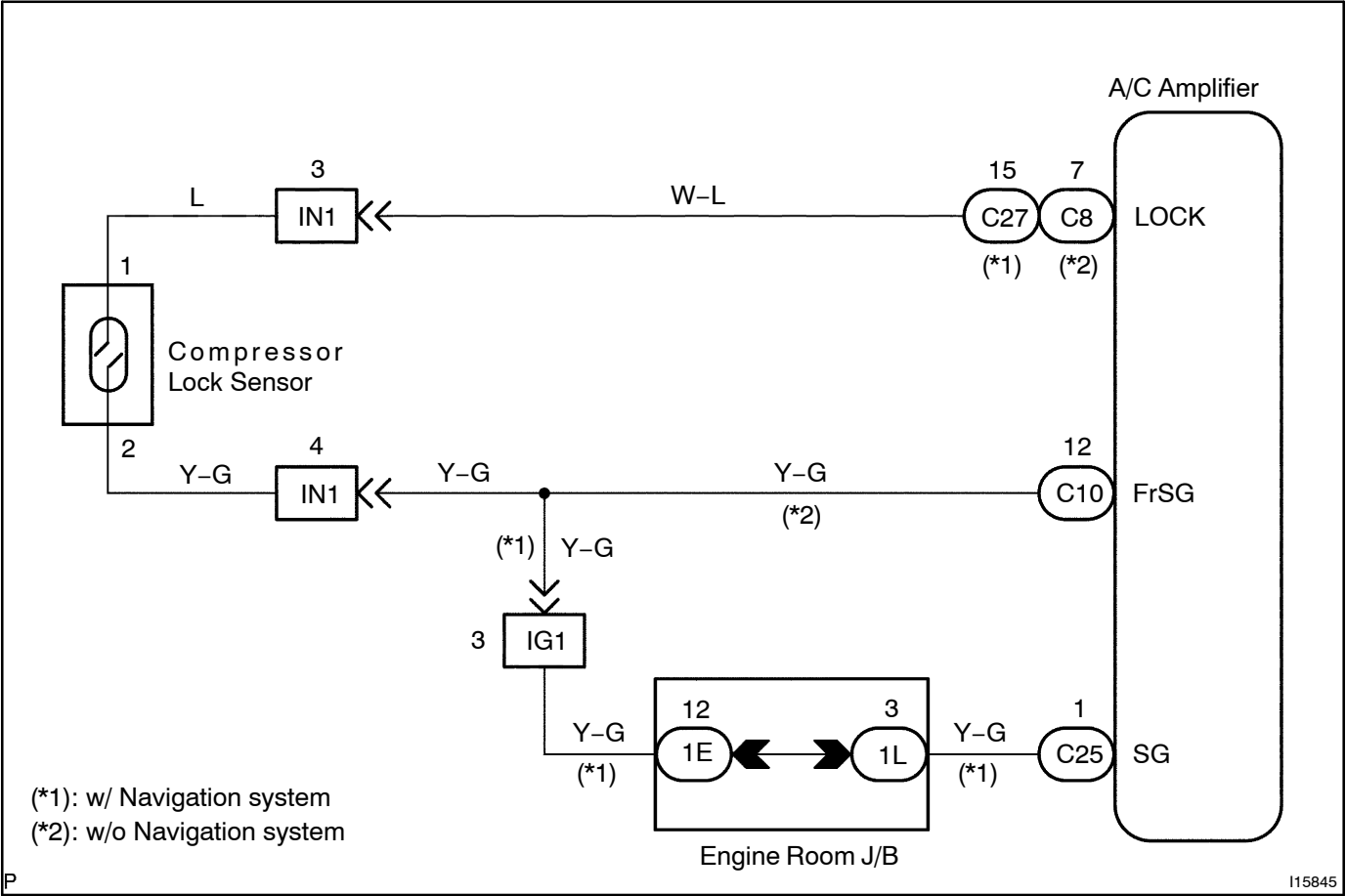
# CIRCUIT DESCRIPTION

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"> <li>Compressor. <ul style="list-style-type: none"> <li>Compressor drive belt.</li> </ul> </li> <li>Compressor lock sensor. <ul style="list-style-type: none"> <li>Harness and connector between compressor lock sensor and A/C amplifier</li> </ul> </li> <li>A/C amplifier</li> </ul>

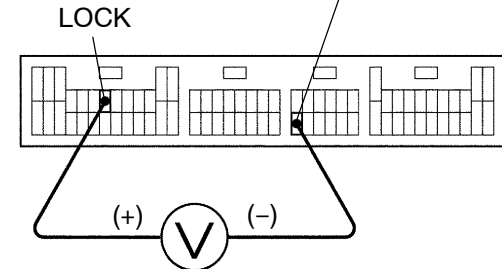
# WIRING DIAGRAM



## INSPECTION PROCEDURE

1	<b>Check voltage between terminal LOCK and FrSG (or SG) of A/C amplifier.</b>
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w/o Navigation system: FrSG



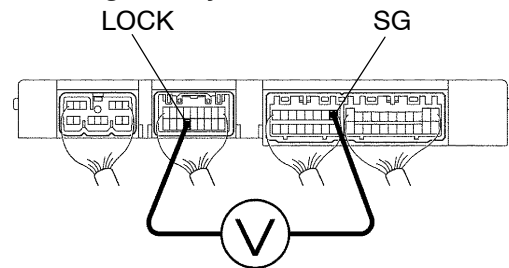
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**CHECK:**

- (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:



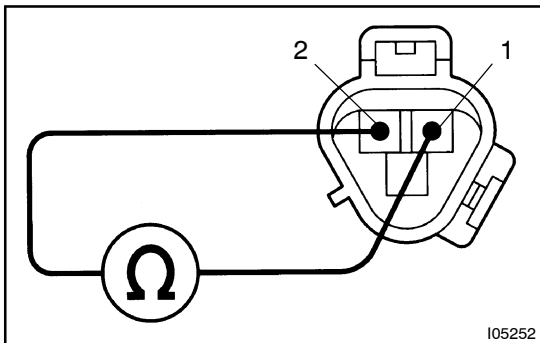
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**NG**

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	<b>Check compressor lock sensor.</b>
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**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) : 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](#)).

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Repair or replace harness or connector.

OK

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