

DTC	22	Compressor Lock Sensor Circuit
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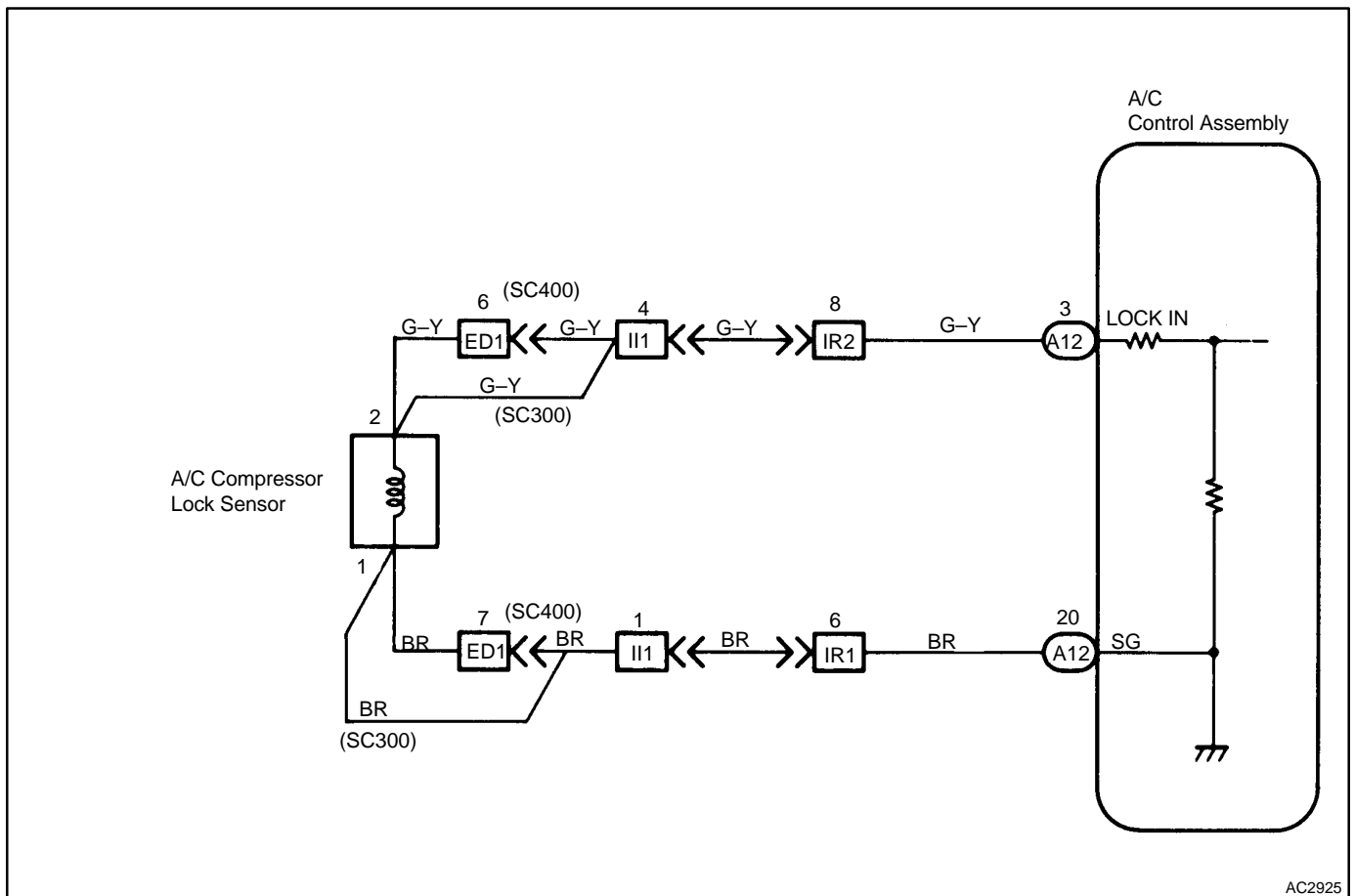
CIRCUIT DESCRIPTION

This sensor sends 1 pulse per engine revolution to the air conditioning control assembly.

If the number ratio of the compressor speed, divided by the engine speed is smaller than a predetermined value, the air conditioning control assembly turns the compressor off, and the indicator flashes at about 1 second intervals.

DTC No.	DTC Detecting Condition	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 and A/C control assembly • A/C control assembly

WIRING DIAGRAM



AC2925

INSPECTION PROCEDURE

1 Check compressor.

PREPARATION:

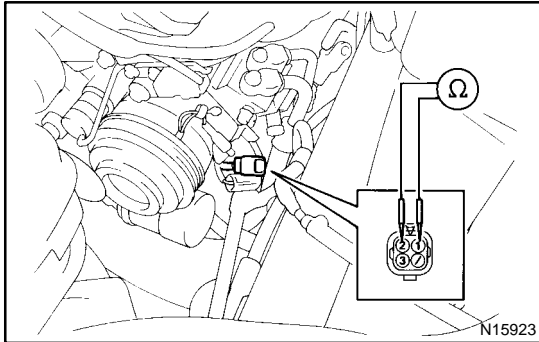
- (a) Check compressor drive belt tension (See page [AC-16](#)).
- (b) Check if the compressor does not lock during operation with engine started and blower switch and A/C switch ON.

NG

Adjust drive belt tension or repair compressor.

OK

2 Check compressor lock sensor.



PREPARATION:

Disconnect compressor lock sensor connector.

CHECK:

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

OK:

Resistance:

at 25°C (77°F): 170 – 220 Ω

at 100°C (212°F): 210 – 290 Ω

NG

Replace compressor lock sensor.

OK

3 Check for open and short in harness and connectors between air conditioning control assembly and compressor lock sensor (See page [IN-29](#)).

NG

Repair or replace harness or connector.

OK

Proceed to next circuit inspection shown on matrix chart (See page DI-821). However, if DTC 22 is displayed, check and replace air conditioning control assembly.