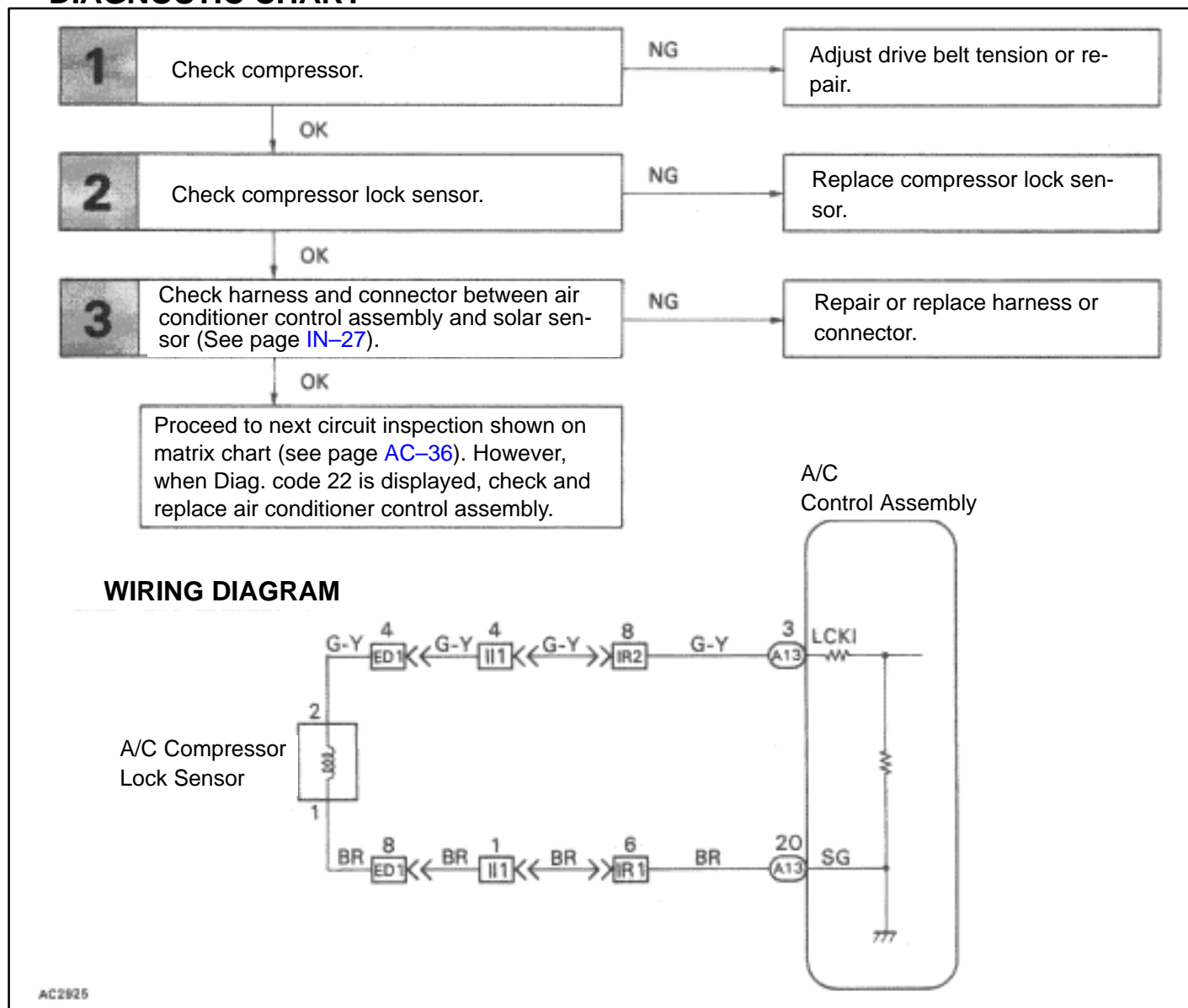


Diag. Code 22**Compressor Lock Sensor Circuit****— CIRCUIT DESCRIPTION —**

This sensor sends 4 pulses per engine revolution to the air conditioner control assembly.

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

Code No.	Diag. Code Detecting Condition	Trouble area
22	All conditions below are detected for 3 secs. or more. (a) Engine rpm: 450 rpm or more (b) Ratio between engine and compressor rpm 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.

— DIAGNOSTIC CHART —

INSPECTION PROCEDURE

1

Check compressor.

- P**
1. Check compressor drive belt tension (see page [AC-106](#)).
 2. Check if the compressor does not lock during operation with engine started and blower switch and A/C switch ON.

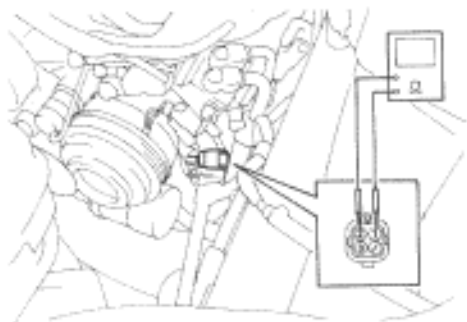
OK

NG

Adjust drive belt tension or repair compressor.

2

Check compressor lock sensor.



AC2931

P

Disconnect compressor lock sensor connector.

C

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

OK

Resistance: at 25°C (77°F) : 530 — 650 Ω
at 100°C (212°F): 670 — 890 Ω

OK

NG

Replace compressor lock sensor.

3

Check for open and short in harness and connectors between air conditioner control assembly and compressor lock sensor (see page [IN-27](#)).

OK

NG

Repair or replace harness or connector.

Proceed to next circuit inspection shown on matrix chart (see page [AC-36](#)). However, when Diag. code 22 is displayed, check and replace air conditioner control assembly.