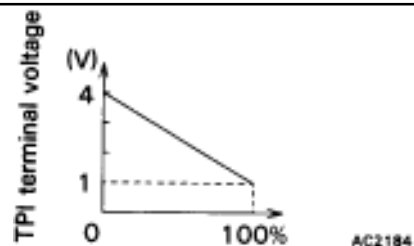


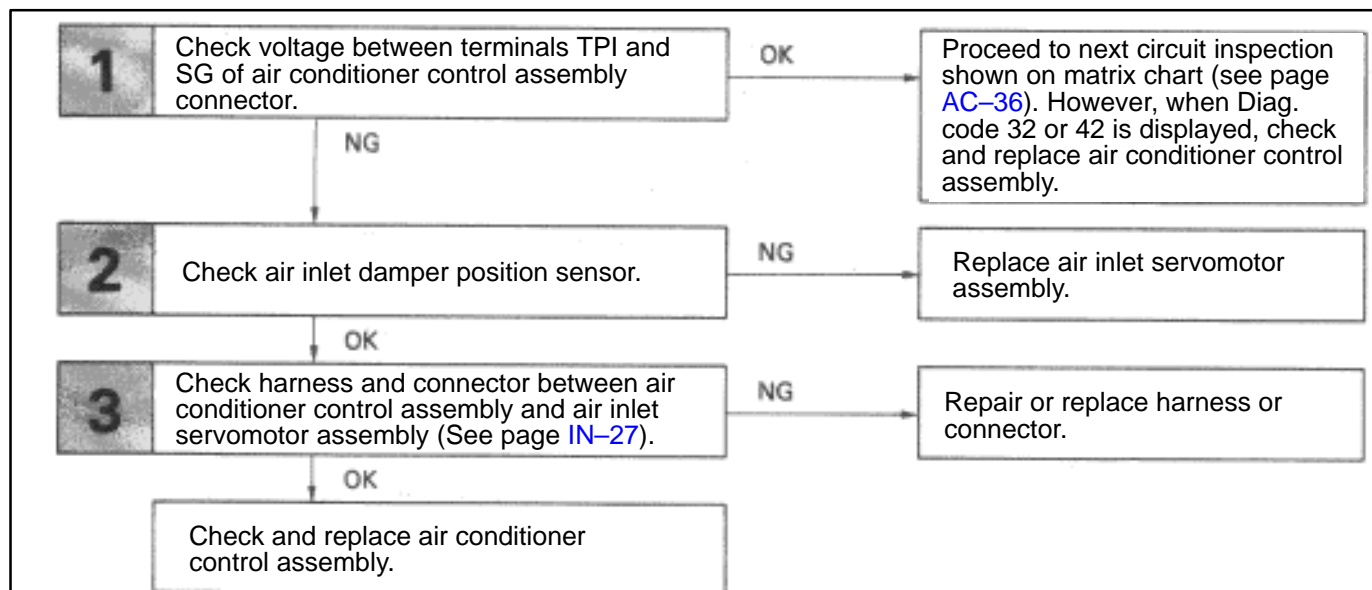
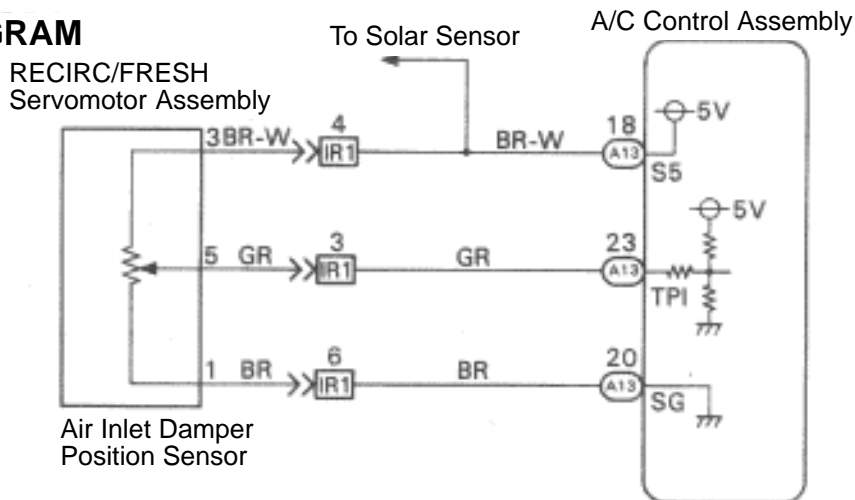
Diag. Code 32, 42**Air Inlet Damper Position Sensor Circuit****— CIRCUIT DESCRIPTION —**

This sensor detects the position of the air inlet damper and sends the appropriate signals to the air conditioner control assembly.

The position sensor is built into the air mix servomotor assembly.



Code No.	Diag. Code Detecting Condition	Trouble area
32	• Short to ground or power source circuit in air inlet damper position sensor circuit.	<ul style="list-style-type: none"> • Air inlet damper position sensor. • Harness or connector between air inlet servomotor assembly and A/C control assembly • A/C control assembly.
42	• Air inlet damper position sensor value does not change even if A/C control assembly operates air inlet servomotor.	

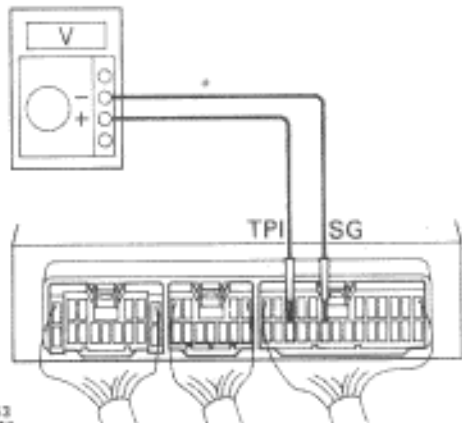
— DIAGNOSTIC CHART —**WIRING DIAGRAM**

INSPECTION PROCEDURE

1

Check voltage between terminals TPI and SG of air conditioner control assembly connector.

ON
IG ON



NG

P

1. Remove console upper panel (See page [BO-111](#)).
2. Remove A/C control assembly with connectors still connected.
3. Turn ignition switch ON.

C

Press REC/FRS switch to change air inlet between fresh and recirculation air, and measure voltage between terminals TPI and SG of air conditioner control assembly when the air inlet servomotor operates.

OK

FRS-REC Switch	Voltage
REC	3.70 ~ 4.27 V
FRS	0.88 ~ 1.16 V

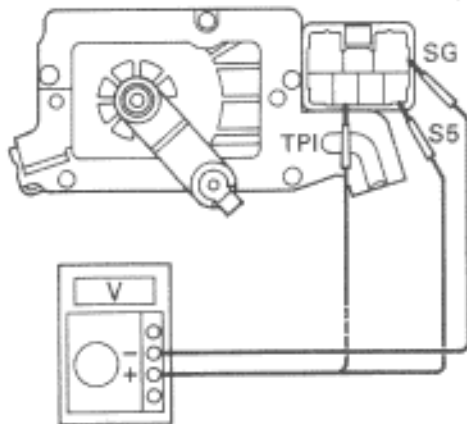
In addition, as the air inlet servomotor is moved from REC side to FRS side, the voltage decreases gradually without interruption.

OK

Proceed to next circuit inspection shown on matrix chart (see page [AC-36](#)). However, when Diag. code 32 or 42 is displayed, check and repair air conditioner control assembly.

2

Check air inlet damper position sensor.



OK

P

1. Remove heater unit (See page [BO-127](#)).
2. Disconnect air inlet servomotor assembly connector.

C

Measure resistance between terminals S5 and SG of air inlet servomotor assembly connector.

OK

Resistance: 4.7 ~ 7.2 kΩ

C

While operating air inlet servomotor as in the procedure on page [AC-65](#), measure resistance between terminals TPI and SGI of air inlet servomotor assembly connector.

OK

Resistance

Damper Position	Resistance
REC side	3.76 ~ 5.76 kΩ
FRS side	0.94 ~ 1.44 kΩ

As the air inlet servomotor moves from REC side to FRS side, the resistance decreases gradually without interruption.

NG

Replace air inlet servomotor assembly.

3

Check for open and short in harness and connector between air conditioner control assembly and air inlet servomotor assembly (see page [IN-27](#)).

OK

NG

Repair or replace harness or connector.

Check and replace air conditioner control assembly.