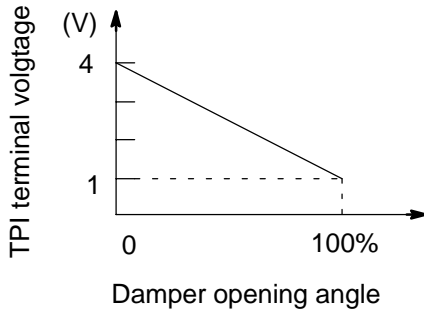


DTC	32, 42	Air Inlet Damper Position Sensor Circuit
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CIRCUIT DESCRIPTION

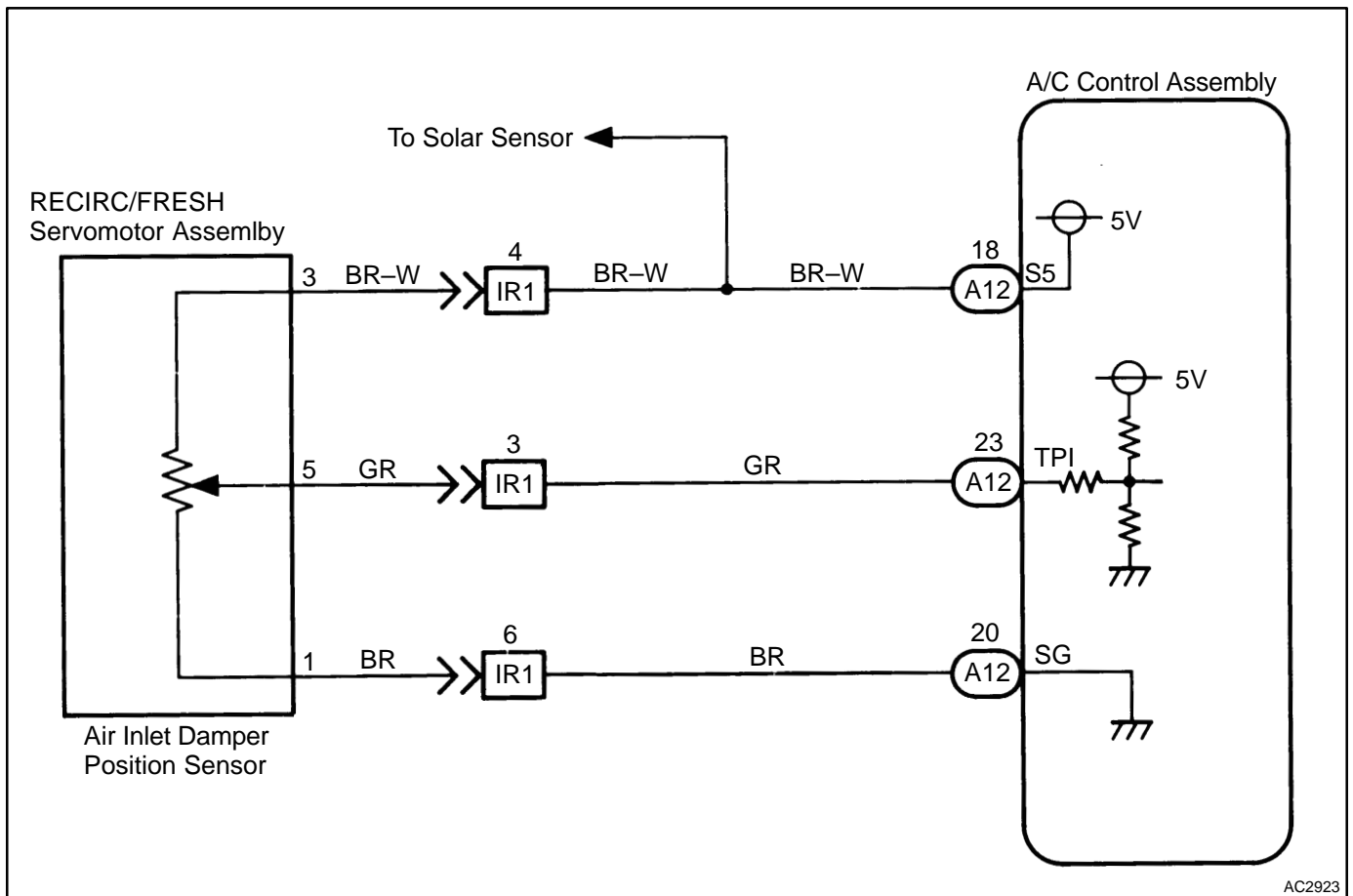


This sensor detects the position of the air inlet damper and sends the appropriate signals to the air conditioning control assembly.

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

DTC No.	DTC 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.	

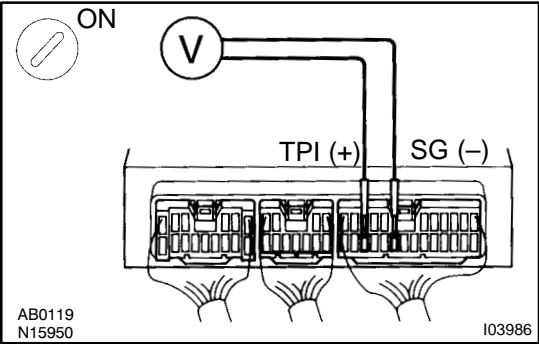
WIRING DIAGRAM



INSPECTION PROCEDURE

1

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



PREPARATION:

- (a) Remove upper console panel.
- (b) Remove A/C control assembly with connectors still connected.
- (c) Turn ignition switch ON.

CHECK:

Press REC/FRS switch to change air inlet between fresh and recirculation air, and measure voltage between terminals TPI and SG of air conditioning 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

HINT:

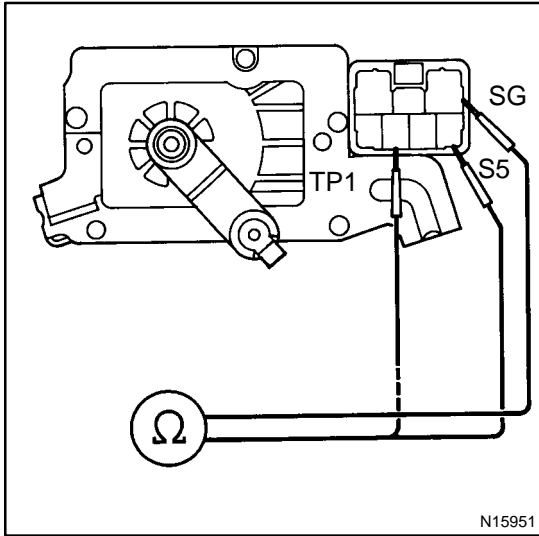
As the air inlet servomotor is moved from REC side to FRS side, the voltage decreases.

OK

Proceed to next circuit inspection shown on matrix chart (See page DI-821). However, if DTC 32 or 42 is displayed, check and replace air conditioning control assembly.

NG

Go to step 2.

2 Check air inlet damper position sensor.**PREPARATION:**

- (a) Remove instrument panel reinforcement.
- (b) Disconnect air inlet servomotor assembly connector.

CHECK:

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

OK:

Resistance: 4.8 – 7.2 kΩ

CHECK:

While operating air inlet servomotor as in the procedure on page DI-855, measure resistance between terminals TP1 and SG of air inlet servomotor assembly connector.

OK:**Resistance**

Damper Position	Resistance
REC side	3.84 – 5.76 kΩ
FRS side	0.96 – 1.44 kΩ

HINT:

As the air inlet servomotor moves from REC side to FRS side, the resistance decreases.

NG**Replace air inlet servomotor assembly.****OK****3 Check for open and short in harness and connector between air conditioning control assembly and air inlet servomotor assembly (See page IN-29).****NG****Repair or replace harness or connector.****OK**

Check and replace air conditioning control assembly.