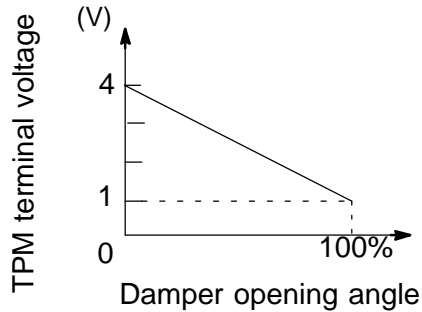


DTC	33, 43	Air Outlet Damper Position Sensor Circuit
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CIRCUIT DESCRIPTION

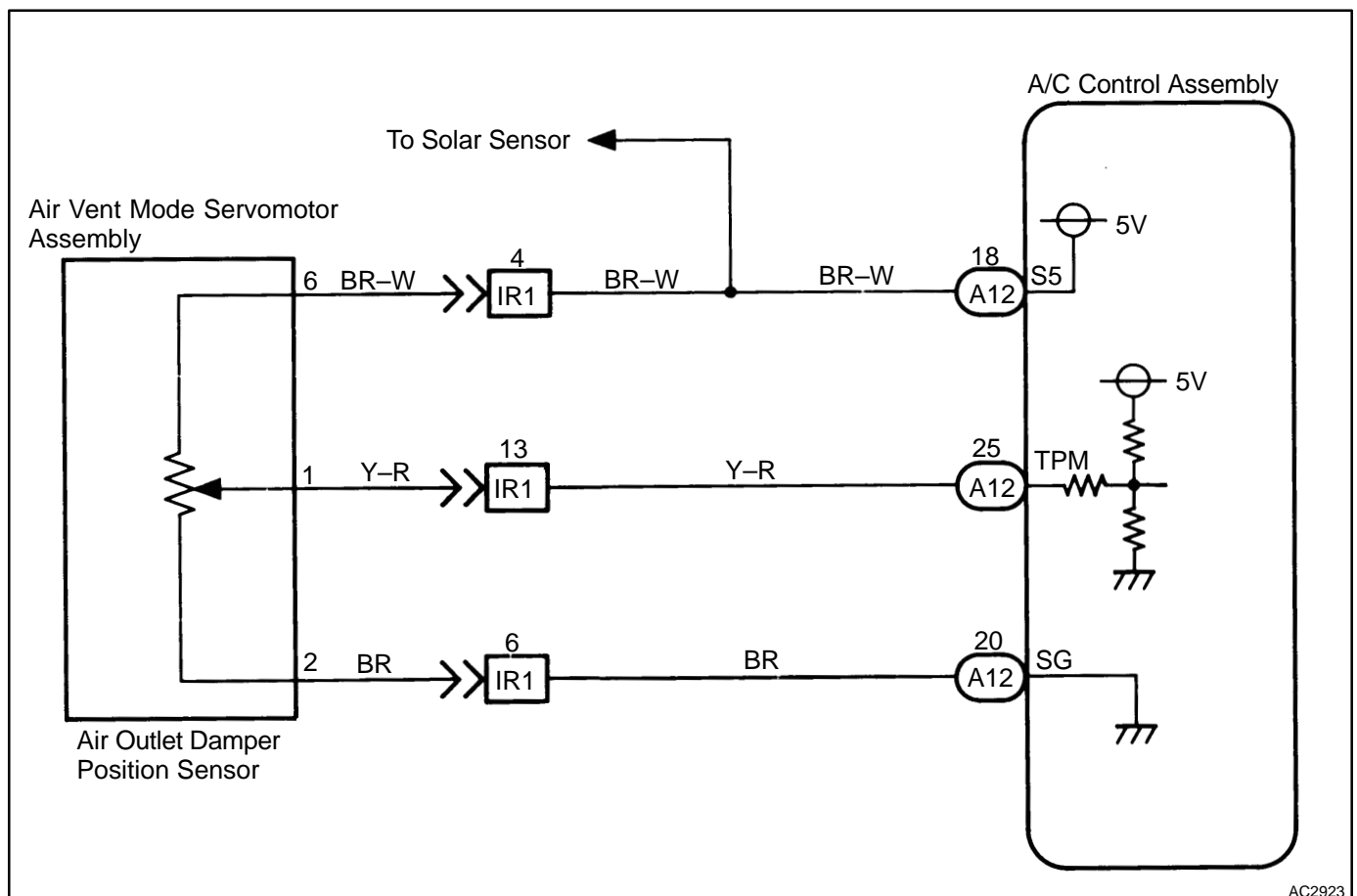


This sensor detects the position of the air outlet damper and sends the appropriate signals to the air conditioning control assembly.

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

DTC No.	DTC Detecting Condition	Trouble Area
33	Short to ground or power source circuit in air outlet damper position sensor circuit.	<ul style="list-style-type: none"> Air outlet damper position sensor Harness or connector between air outlet servomotor assembly and A/C control assembly
43	Air outlet damper position sensor value does not change even if A/C control assembly operates air outlet servomotor.	<ul style="list-style-type: none"> A/C control assembly

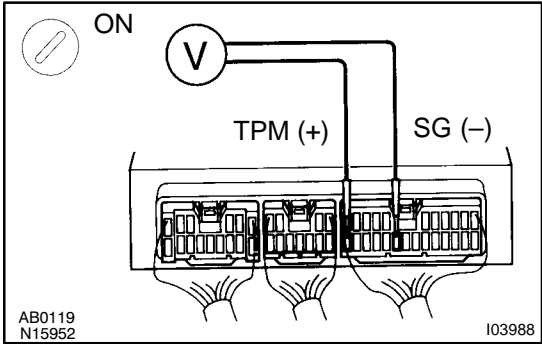
WIRING DIAGRAM



AC2923

INSPECTION PROCEDURE

1	Check voltage between terminals TPM and SG of air conditioning control assembly connector.
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PREPARATION:

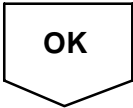
- (a) Remove upper console panel.
- (b) Remove A/C control assembly with connectors still connected.
- (c) Turn ignition switch ON.

OK:

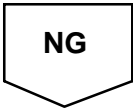
FRS-REC Switch	Voltage
FACE	3.70 – 4.27 V
DEF	0.88 – 1.16 V

HINT:

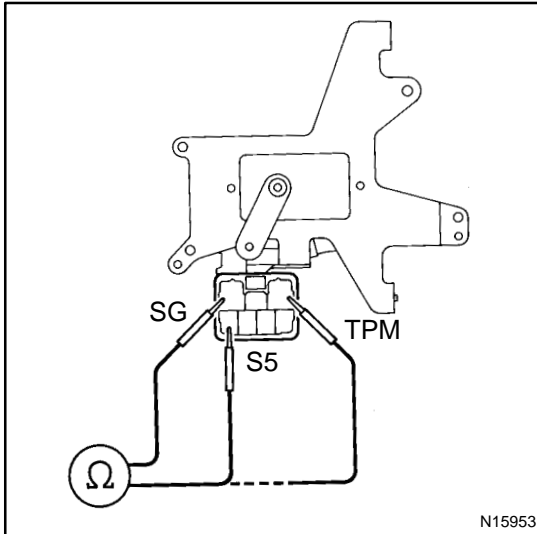
As the air outlet servomotor is moved from FACE side to DEF side, the voltage decreases.



Proceed to next circuit inspection shown on matrix chart (See page DI-821). However, when DTC 33 or 43 is displayed, check and replace air conditioning control assembly.



2 Check air outlet damper position sensor.



PREPARATION:

Disconnect air outlet servomotor assembly connector.

CHECK:

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

OK:

Resistance: 4.8 – 7.2 kΩ

CHECK:

While operating air outlet servomotor as in the procedure on page DI-858, measure resistance between terminals TPM and SG of air outlet servomotor assembly connector.

OK:

Resistance

Damper Position	Resistance
DEF	3.84 – 5.76 kΩ
FACE	0.96 – 1.44 kΩ

HINT:

As the air outlet servomotor moves from DEF side to FACE side, the resistance decreases.

NG

Replace air outlet servomotor assembly.

OK

3 Check for open and short in harness and connector between air conditioning control assembly and air outlet servomotor assembly (See page IN-29).

NG

Repair or replace harness or connector.

OK

Check and replace air conditioning control assembly.