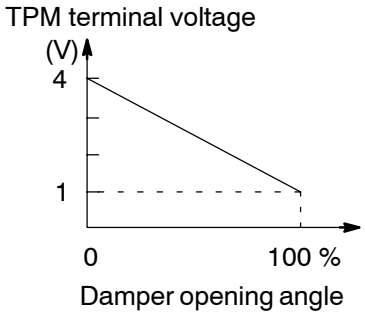
DI6S9–01

DTC	33/43	Air Outlet Damper Position Sensor Circuit

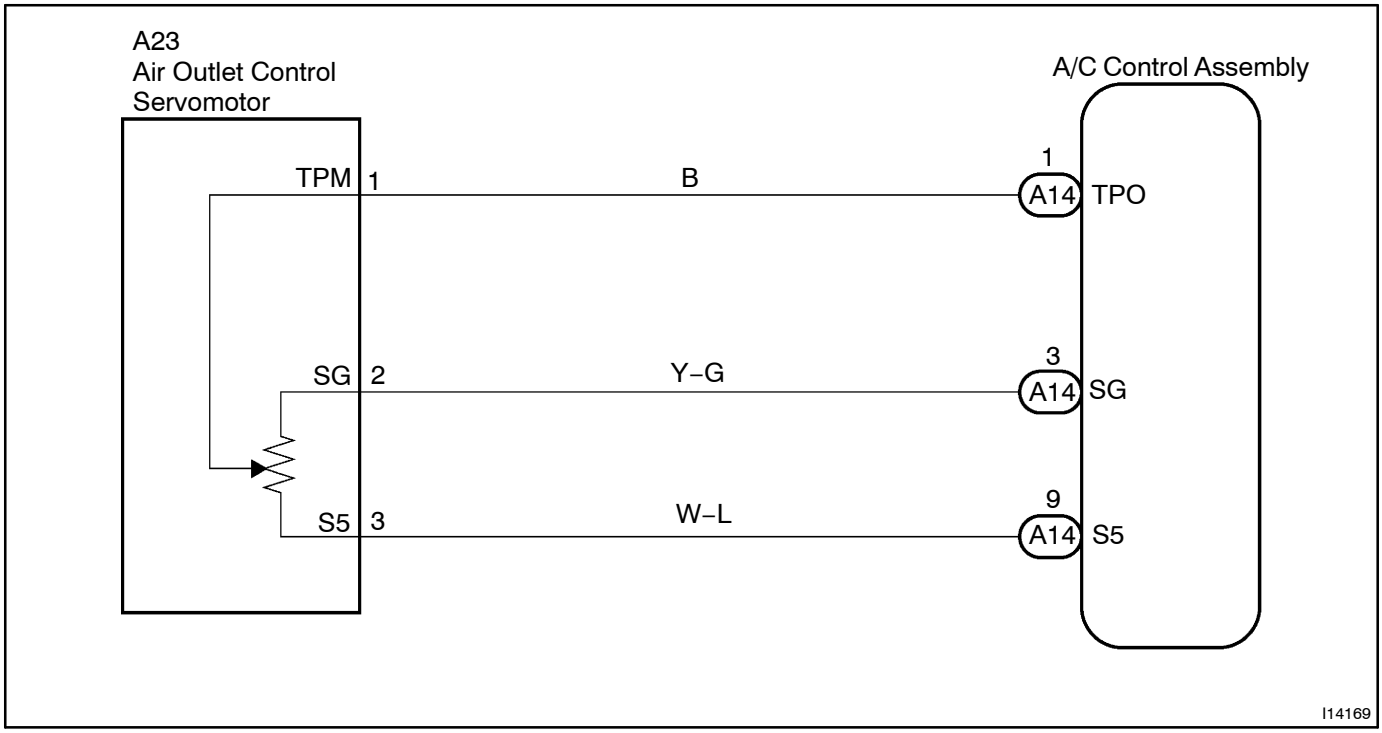
CIRCUIT DESCRIPTION



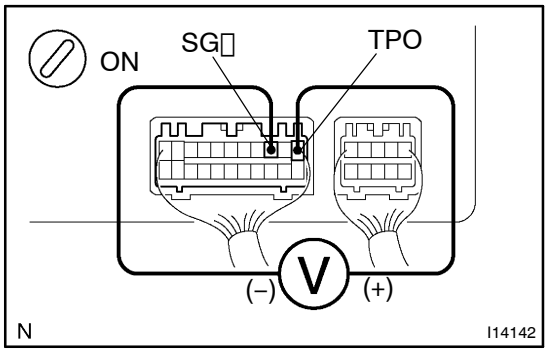
This sensor detects the position of the air mix damper and sends the appropriate signals to the A/C control assembly.
The position sensor is built into the air outlet damper control servomotor assembly.

DTC No.	Detection Item	Trouble Area
33	Short to ground or power source circuit in air outlet damper position sensor circuit.	• Air outlet damper position sensor. • Harness or connector between air outlet damper control servomotor assembly and A/C control assembly. • A/C control assembly.
43	Air outlet damper position sensor value does not change even if A/C control assembly operates air outlet damper control servomotor.	

WIRING DIAGRAM



1	**Check voltage between terminals TPO and SG of A/C control assembly connector.**



PREPARATION:

(a) Remove A/C control assembly with connectors still connected.

(b) Turn ignition switch ON.

CHECK:

Measure the voltage between terminals TPO and SG of A/C control assembly.

OK:

Air inlet selector	Voltage
FACE	3.5 – 4.5 V
DEF	0.5 – 1.5 V

HINT:

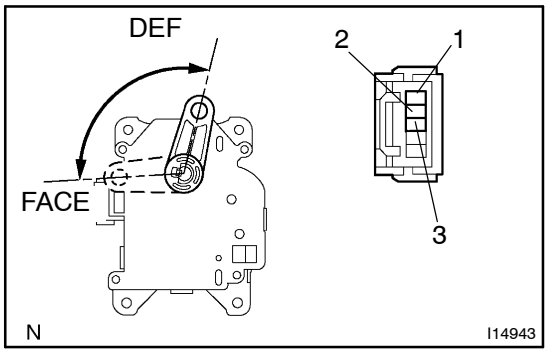
As the air outlet damper control servomotor is moved from VENT side to DEF side, the voltage decreases gradually without interruption.

NG → **Go to step 2.**

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI–432). However, if DTC 34 or 44 is displayed, check and replace A/C control assembly.

2	Check air outlet damper position sensor.



PREPARATION:

(a) Remove air outlet servomotor (See page AC–55).

(b) Disconnect air outlet damper control servomotor assembly connector.

CHECK:

Measure resistance between terminals 1 and 2 of air outlet servomotor assembly connector.

OK:

Resistance: 4.2 – 7.8 kΩ

CHECK:

While operating air outlet damper control servomotor as in the procedure on page DI–461, measure resistance between terminals 2 and 3 of air outlet damper control servomotor.

OK:

Resistance:

Damper Position	Resistance
DEF	0.5 – 1.1 kΩ
FACE	3.6 – 6.8 kΩ

HINT:

As the air outlet servomotor moves from DEF side to FACE side, the resistance decreases gradually without interruption.

NG	Replace air outlet control servomotor assembly.

OK

3	Check harness and connector between A/C control assembly and air outlet control servomotor assembly (See page IN–30).

NG	Repair or replace harness or connector.

OK

Check and replace A/C control assembly.