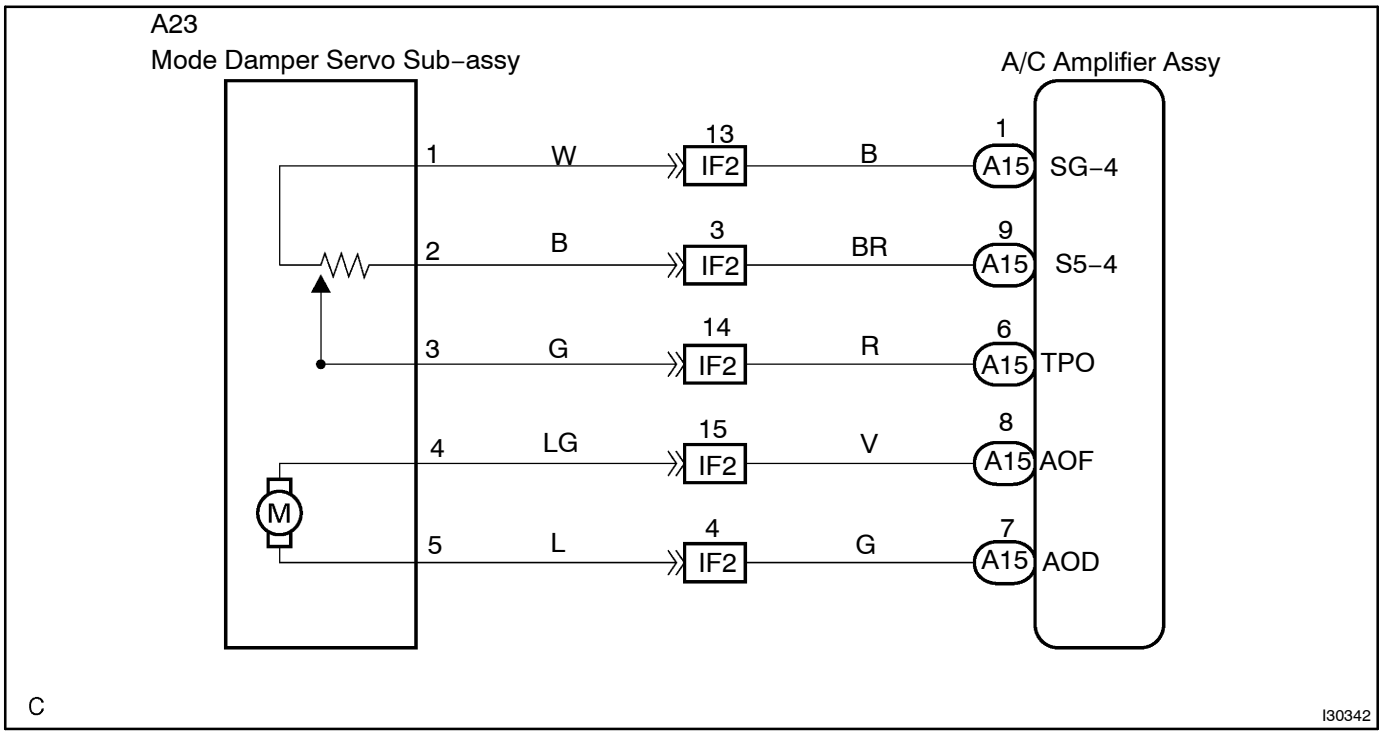
DTC	B1443/43	AIR OUTLET DAMPER CONTROL SERVOMOTOR CIRCUIT

CIRCUIT DESCRIPTION

This circuit turns the servomotor and changes each mode damper position by the signals from the A/C amplifier assy. When the AUTO switch is on, the A/C amplifier assy changes the mode automatically between (FACE), (BI–LEVEL) and (FOOT) according to the temperature setting.

DTC No.	Detection Item	Trouble Area
B1443/43	Air outlet damper position sensor value does not change even if A/C amplifier assy operates air mode damper servo sub–assy.	• Mode damper servo sub–assy. • Harness or connector between mode damper servo sub–assy and A/C amplifier assy. • A/C amplifier assy.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	PERFORM ACTUATOR CHECK

(a) Warm up engine.
(b) Set to actuator check mode (see page 05–423).
(c) Press the DEF switch and change it to step operation
(d) Press the DEF switch and check that the air flow by hand.

Display code	Air flow condition
0	FACE
1	FACE
2	FACE
3	FACE
4	FACE
5	B/L
6	FOOT
7	FOOT
8	FOOT/DEF
9	DEF

OK:

Air flow position changes in accordance with each display code.

Result:

NG	A
OK (Checking from the PROBLEM SYMPTOMS TABLE)	B
OK (Checking from the DTC)	C

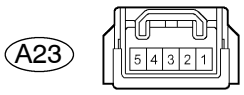
B → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–435)**

C → **REPLACE AIRCONDITIONER AMPLIFIER ASSY**

A

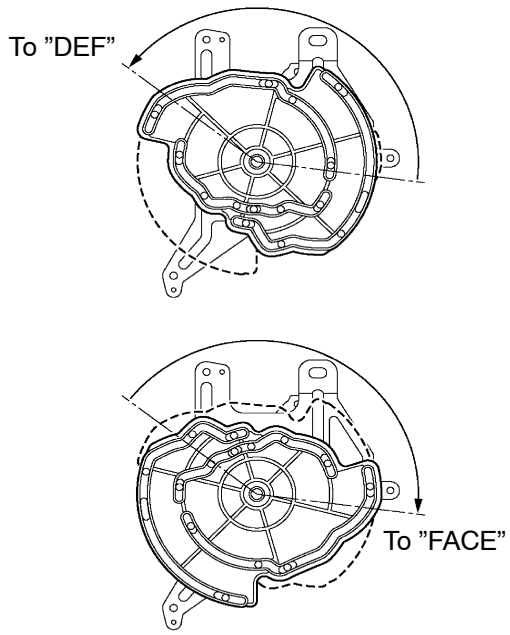
2 INSPECT MODE DAMPER SERVO SUB–ASSY

Mode Damper Servo Sub–assy Connector Wire Harness View:



I30157

(a) Remove the air mode damper servo sub–assy.
(b) Connect the positive (+) lead from the battery to terminal 4 and negative (–) lead to terminal 5 then check that the lever turns to ”DEF” position.
(c) Connect the positive (+) lead from the battery to terminal 5 and negative (–) lead to terminal 4 then check that the lever turns to ”FACE” position.



I41039

NG → **REPLACE MODE DAMPER SERVO SUB–ASSY**

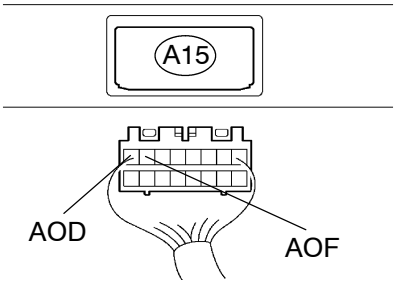
OK

3	CHECK HARNESS AND CONNECTOR(MODE DAMPER SERVO SUB–ASSY – A/C AMPLIFIER ASSY)

Mode Damper Servo Sub–assy Wire Harness View:



A/C Amplifier Connector Wire Harness View:



I41014

(a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A15–8 (AOF) – A23–4	Always	Below 1 Ω
A15–7 (AOD) – A23–5	Always	Below 1 Ω
A15–8 (AOF) – Body ground	Always	10 kΩ or higher
A15–7 (AOD) – Body ground	Always	10 kΩ or higher

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE AIRCONDITIONER AMPLIFIER ASSY