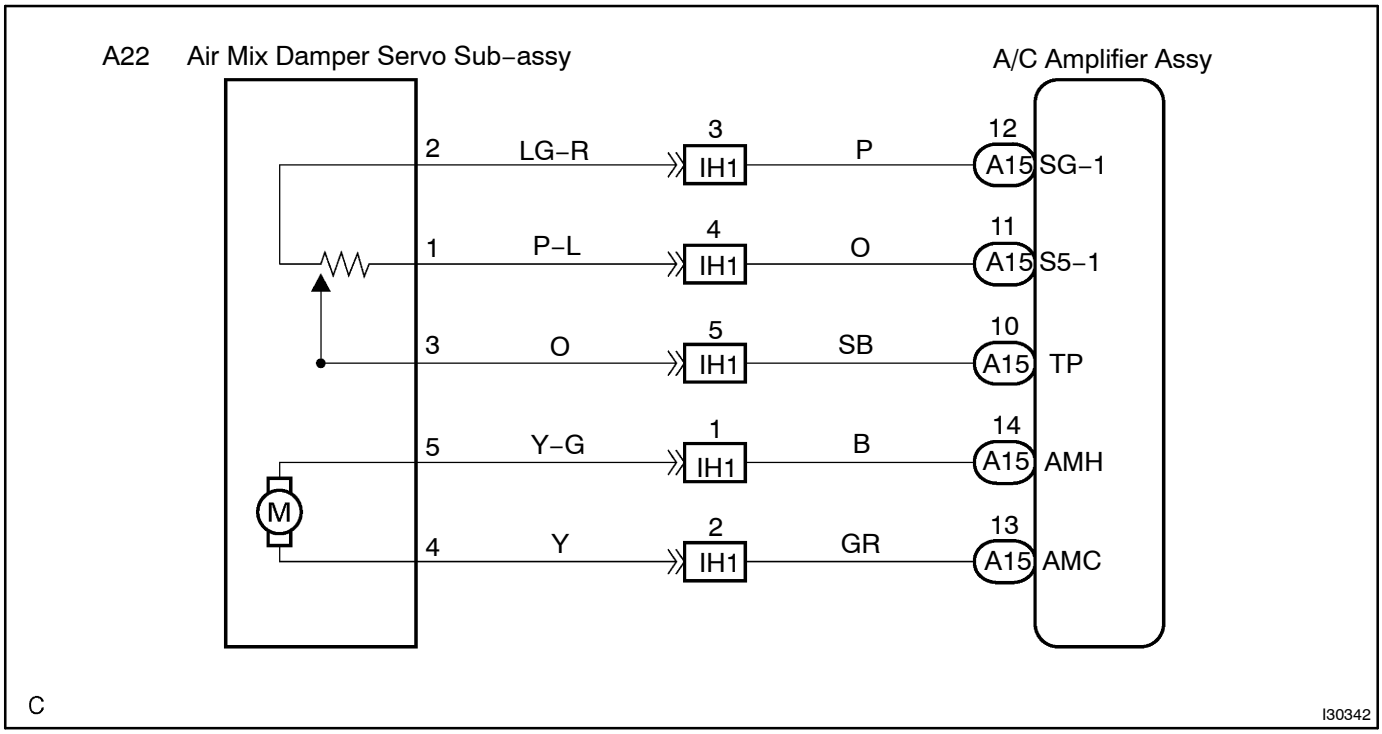
DTC	B1441/41	AIR MIX DAMPER CONTROL SERVOMOTOR CIRCUIT (PASSENGER SIDE)

CIRCUIT DESCRIPTION

This air mix damper servo sub–assy is controlled by the A/C amplifier assy and moves the air mix damper servo sub–assy to the desired position.

DTC No.	Detection Item	Trouble Area
B1441/41	Air mix damper position sensor value does not change even if A/C amplifier assy operates air mix damper servo sub–assy.	• Air mix damper servo sub–assy • Air mix damper position sensor • Harness or connector between air mix damper servo sub–assy and A/C amplifier assy • A/C amplifier assy

WIRING DIAGRAM



INSPECTION PROCEDURE

1	PERFORM ACTUATOR CHECK

(a) Set to actuator check mode (see page 05–423).
(b) Press the DEF switch and change to step operation.
(c) Check the air flow temperature by hand.

Display Code	Air Mix Damper Operation
0	COOL side (–5 % open)
1	COOL side (–5 % open)
2	COOL side (–5 % open)
3	COOL side (–5 % open)
4	COOL/WARM (50 % open)
5	COOL/WARM (50 % open)
6	WARM side (105 % open)
7	WARM side (105 % open)
8	WARM side (105 % open)
9	WARM side (105 % open)

OK:

Air flow temperature changes in accordance with each display code.

Result:

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

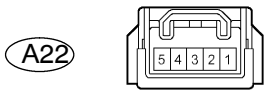
B → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–435)**

C → **REPLACE AIRCONDITIONER AMPLIFIER ASSY**

A

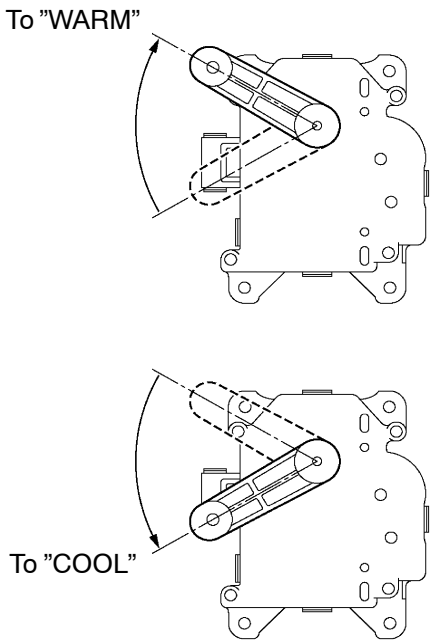
2 INSPECT AIRMIX DAMPER SERVO SUB–ASSY

Air Mix Damper Servo Sub–assy Connector Wire Harness View:



I30157

(a) Remove the air mix 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 "COOL" side smoothly.
(c) Connect the positive (+) lead from the battery to terminal 5 and negative (–) lead to terminal 4, then check that the lever turns to "WARM" side smoothly.



I41037

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

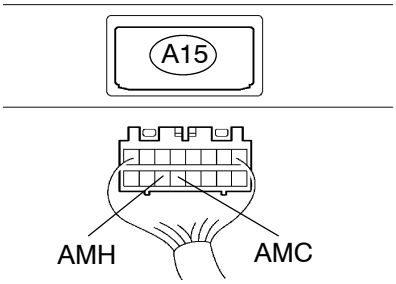
OK

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

Air Mix Damper Servo Sub–assy Connector 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
A15–13 (AMC) – A22–4	Always	Below 1 Ω
A15–14 (AMH) – A22–5	Always	Below 1 Ω
A15–13 (AMC) – Body ground	Always	10 kΩ or higher
A15–14 (AMH) – Body ground	Always	10 kΩ or higher

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

OK

REPLACE AIRCONDITIONER AMPLIFIER ASSY