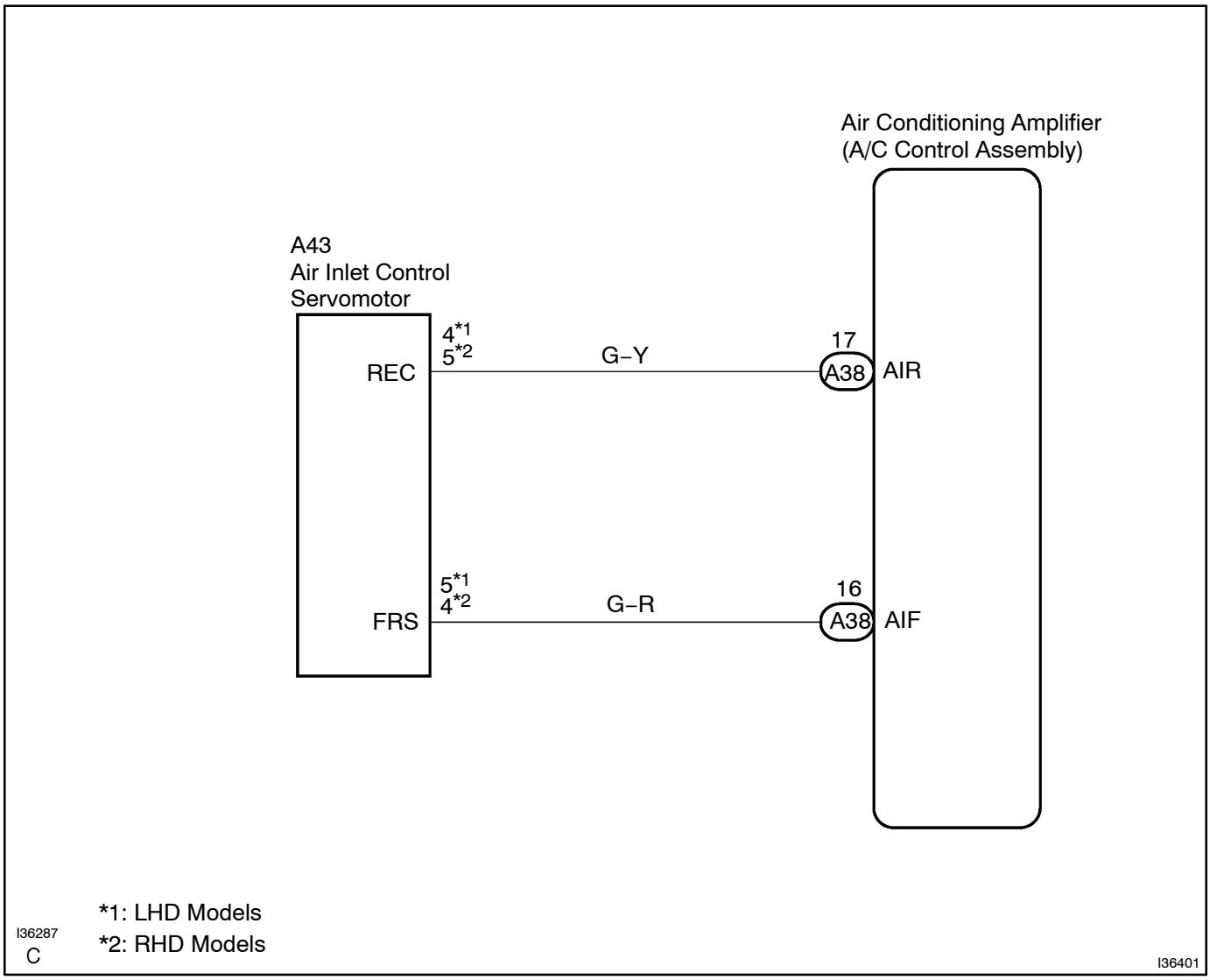
DTC	B1442	AIR INLET DAMPER CONTROL SERVOMOTOR CIRCUIT

CIRCUIT DESCRIPTION

The air inlet servomotor is controlled by the A/C amplifier and moves the air inlet servomotor to the desired position.

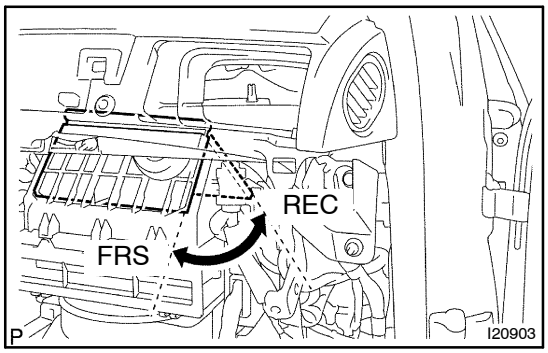
DTC No.	Detection Item	Trouble Area
B1442	Air inlet damper control servomotor circuit (Open or short)	• Air inlet servomotor • Harness or connector between air inlet servomotor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	PERFORM ACTUATOR CHECK



(a) Remove the glove box to see and check the air inlet servomotor operation.
(b) Set the actuator check mode (see page 05–774).
(c) Press the DEF switch to set the step operation.
(d) Press the DEF switch in order and check the operation of the air inlet servomotor.

Display code	Recirculation damper position
0	FRESH
1	FRESH
2	RECIRCULATION / FRESH *2, FRESH *1
3	RECIRCULATION
4	FRESH
5	FRESH
6	FRESH
7	FRESH
8	FRESH
9	FRESH

*1: G.C.C. country models
*2: Except G.C.C. country models

OK:

Recirculation damper changes in accordance with each display code.

Result:

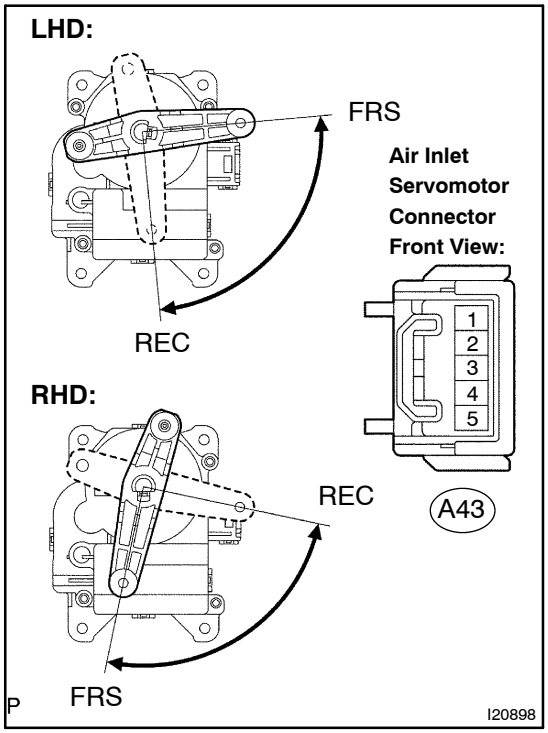
NG	A
OK (Checking from the PROBLEM SYMPTOMS TABLE)	B
OK (Checking from the DTC)	C

B → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–778)**

C → **REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55–15)**

A

2	**INSPECT AIR INLET SERVOMOTOR**



(a) Remove the air inlet servomotor.
(b) Connect the positive (+) lead from the battery to terminal 5 (4) and negative (–) lead to terminal 4 (5), then check that the lever turns to the ”FRESH” position smoothly.
(c) Connect the positive (+) lead from the battery to terminal 4 (5) and negative (–) lead to terminal 5 (4), then check that the lever turns to the ”RECIRCULATION” position smoothly.

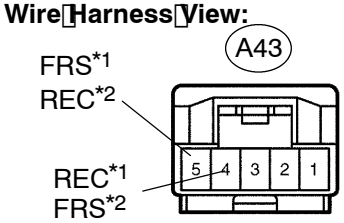
HINT:
( ): RHD models

NG → **REPLACE AIR INLET SERVOMOTOR**

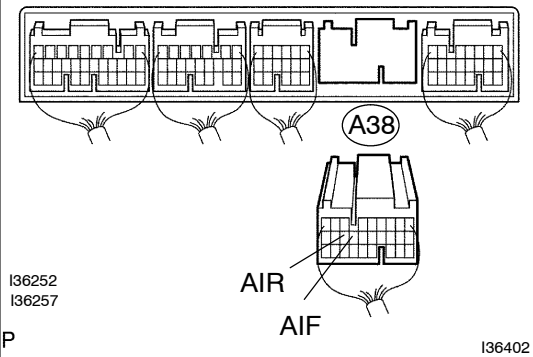
OK

3	CHECK HARNESS AND CONNECTOR (AIR INLET SERVOMOTR – AIR CONDITIONING AMPLIFIER) (SEE PAGE 01–44)

Air Inlet Servomotor Connector
Wire Harness View:



Air Conditioning Amplifier Connector
Wire Harness View:



I36252
I36257
P
I36402

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

Standard:

Tester connection	Condition	Specified condition
A38–17 (AIR) – A43–4 (REC) *1	Always	Below 1 Ω
A38–17 (AIR) – A43–5 (REC) *2	Always	Below 1 Ω
A38–16 (AIF) – A43–5 (FRS) *1	Always	Below 1 Ω
A38–16 (AIF) – A43–4 (FRS) *2	Always	Below 1 Ω
A38–17 (AIR) – Body ground	Always	10 kΩ or higher
A38–16 (AIF) – Body ground	Always	10 kΩ or higher

HINT:
*1: LHD
*2: RHD

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

OK

REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55–16)