

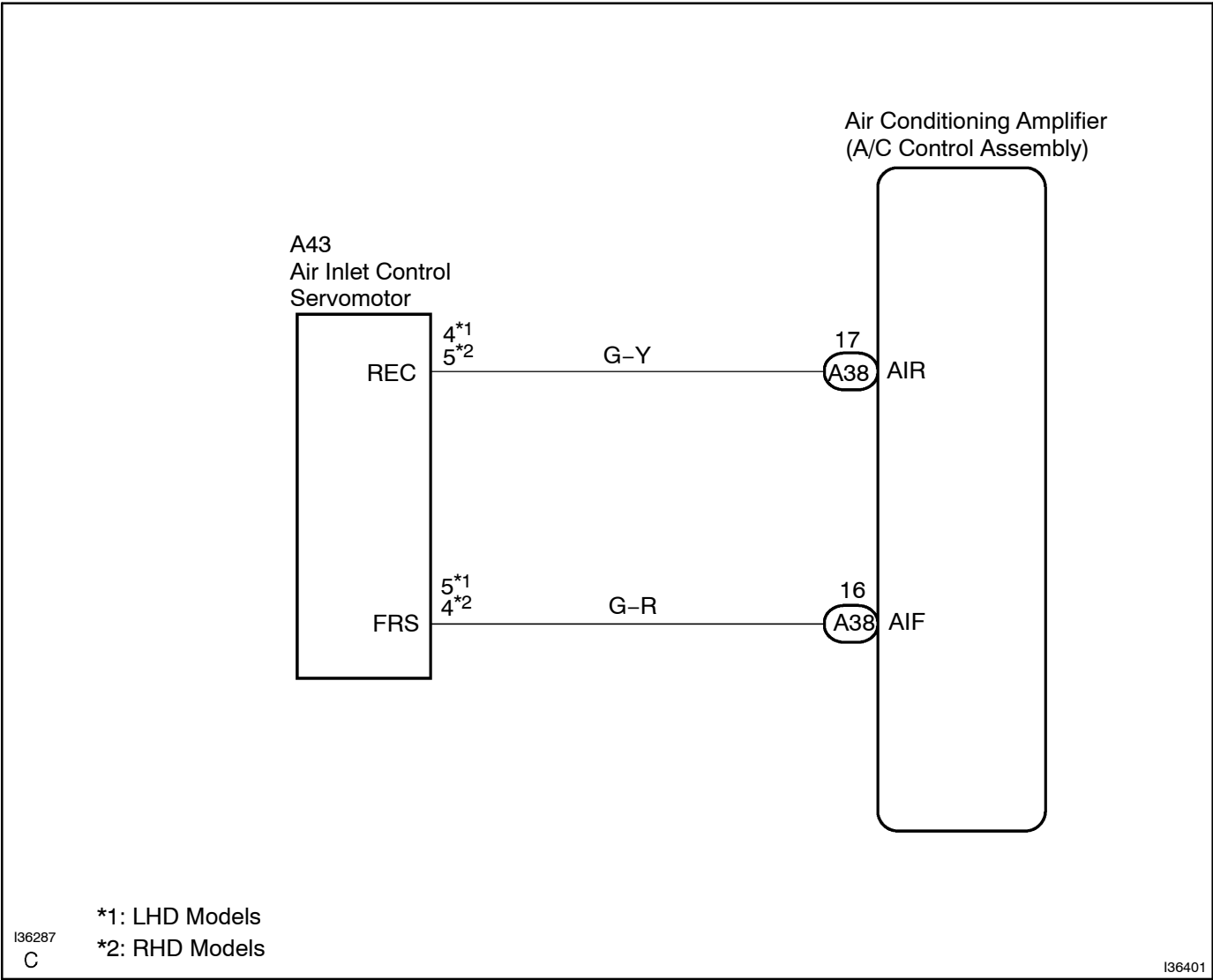
DTC	B1442	AIR INLET DAMPER CONTROL SERVOMOTOR CIRCUIT
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CIRCUIT DESCRIPTION

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

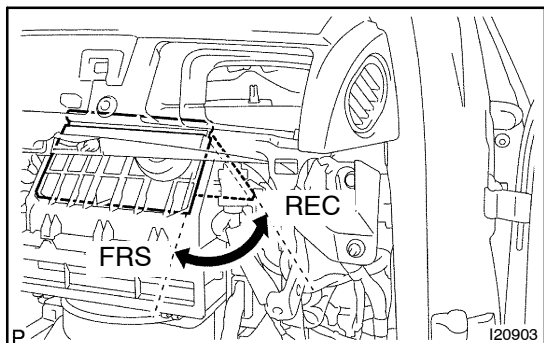
DTC No.	Detection Item	Trouble Area
B1442	Air inlet damper control servomotor circuit (Open or short)	• Air inlet servomotor • Harness or connector between air inlet servomotor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1 PERFORM ACTUATOR CHECK



- Remove the glove box to see and check the air inlet servomotor operation.
- Set the actuator check mode (see page 05-774).
- Press the DEF switch to set the step operation.
- 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

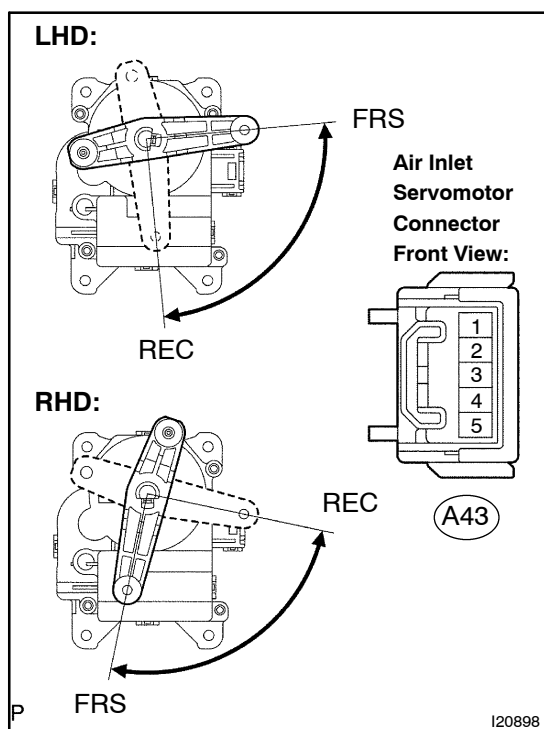
**PROCEED TO NEXT CIRCUIT INSPECTION
SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-778)**

C

**REPLACE AIR CONDITIONING AMPLIFIER
(SEE PAGE 55-16)**

A

2 INSPECT AIR INLET SERVOMOTOR



- Remove the air inlet servomotor.
- 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.
- 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

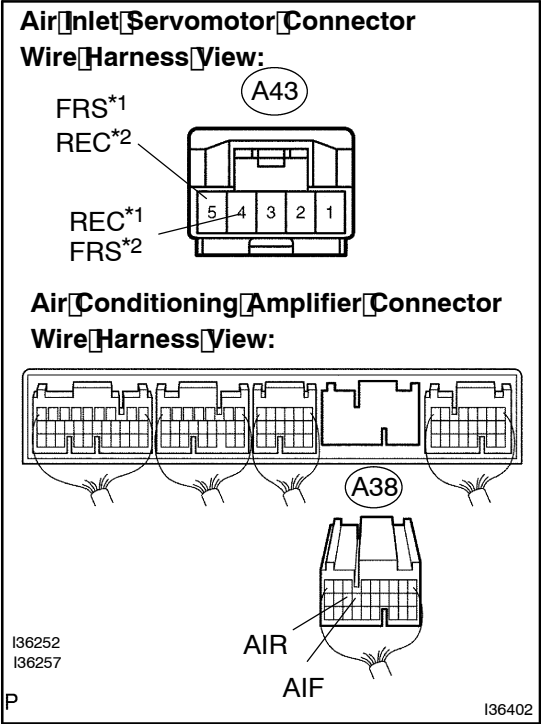
NG

REPLACE AIR INLET SERVOMOTOR

OK

3

CHECK HARNESS AND CONNECTOR (AIR INLET SERVOMOTOR – AIR CONDITIONING AMPLIFIER) (SEE PAGE 01-44)



(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)