

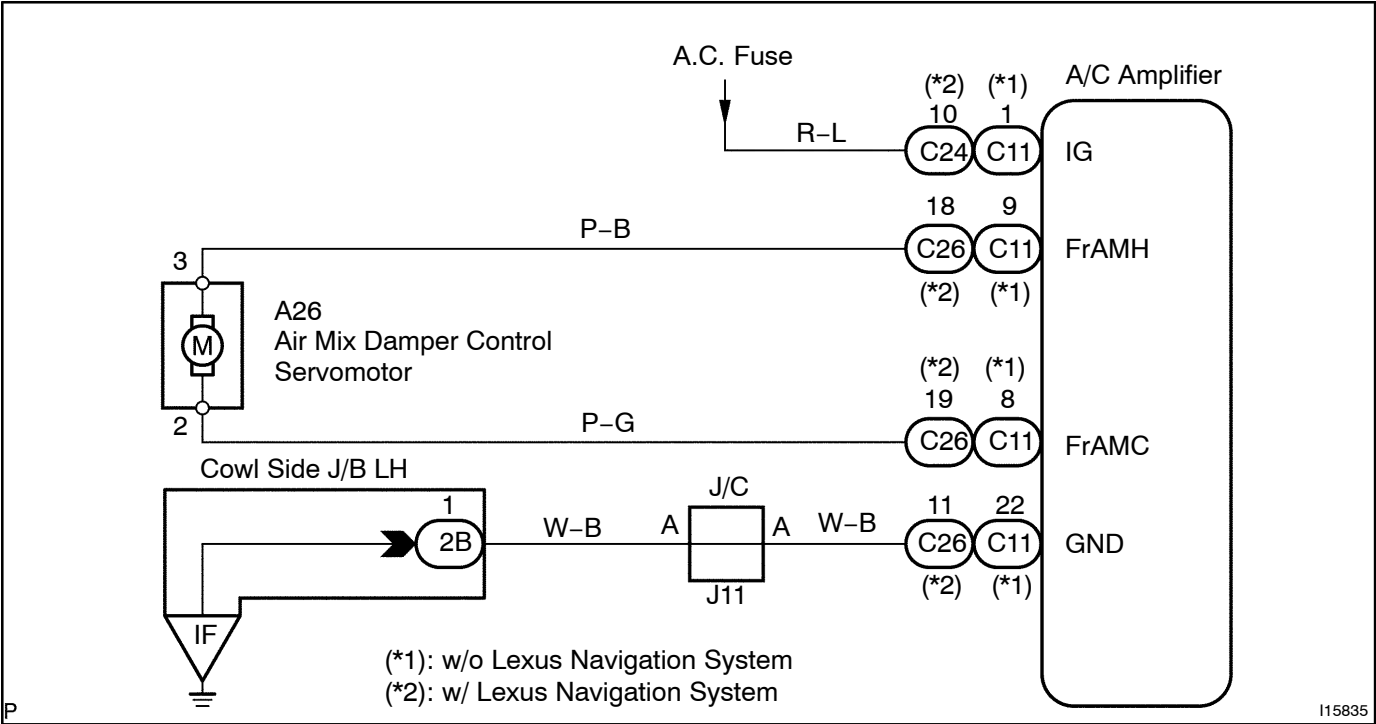
DTC	41	Front Air Mix Damper Control Servomotor Circuit
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CIRCUIT DESCRIPTION

The front air mix damper control servomotor is controlled by the A/C control assembly and moves the air mix damper to the desired position.

DTC No.	Detection Item	Trouble Area
41	Air mix damper position sensor value does not change even if A/C control assembly operates air mix damper control servomotor.	• Front air mix damper control servomotor. • Front air mix damper position sensor. • Harness or connector between front air mix control servomotor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

In case of w/ Navigation system, start the inspection step 1 and in case of w/o Navigation system, start the inspection step 2.

1	Actuator check.
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PREPARATION:

- (a) Warm up the engine.
- (b) Set the actuator check mode (See page [DI-943](#)).
- (c) Press the UPDr switch and change it to step operation.

CHECK:

Press the UPDr switch and check the operation of the air mix damper and the condition of the blower.

OK:

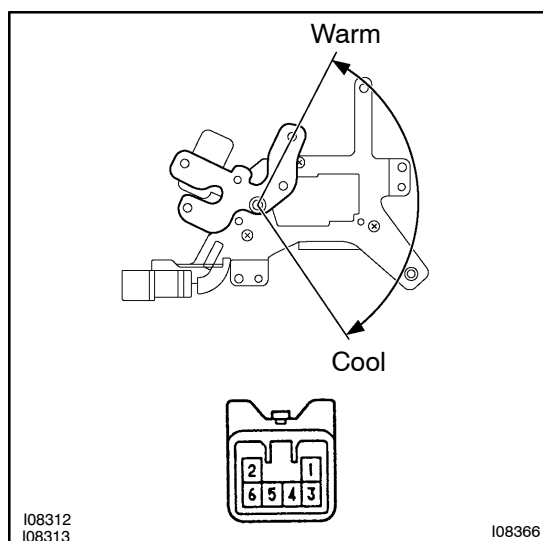
Display Code	Air Mix Damper	Condition
0 – 3	0 % (Fully closed)	Cool air comes out
4 – 5	50 %	
6 – 9	100 % (Full opened)	Warm air comes out

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-956](#)).

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2	Check front air mix damper control servomotor.
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PREPARATION:

Remove front air mix damper control servomotor (See page [AC-84](#)).

CHECK:

Connect positive (+) lead to terminal 3 and negative (-) lead to terminal 2.

OK:

The lever turns smoothly to Warm side.

CHECK:

Connect positive (+) lead to terminal 2 and negative (-) lead to terminal 3.

OK:

The lever turns smoothly to Cool side.

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Replace front air mix damper control servomotor assembly.

OK

3

Check harness and connector between A/C amplifier and front air mix damper control servomotor assembly (See page [IN-34](#)).

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Repair or replace harness or connector.

OK

Check and replace A/C amplifier.