

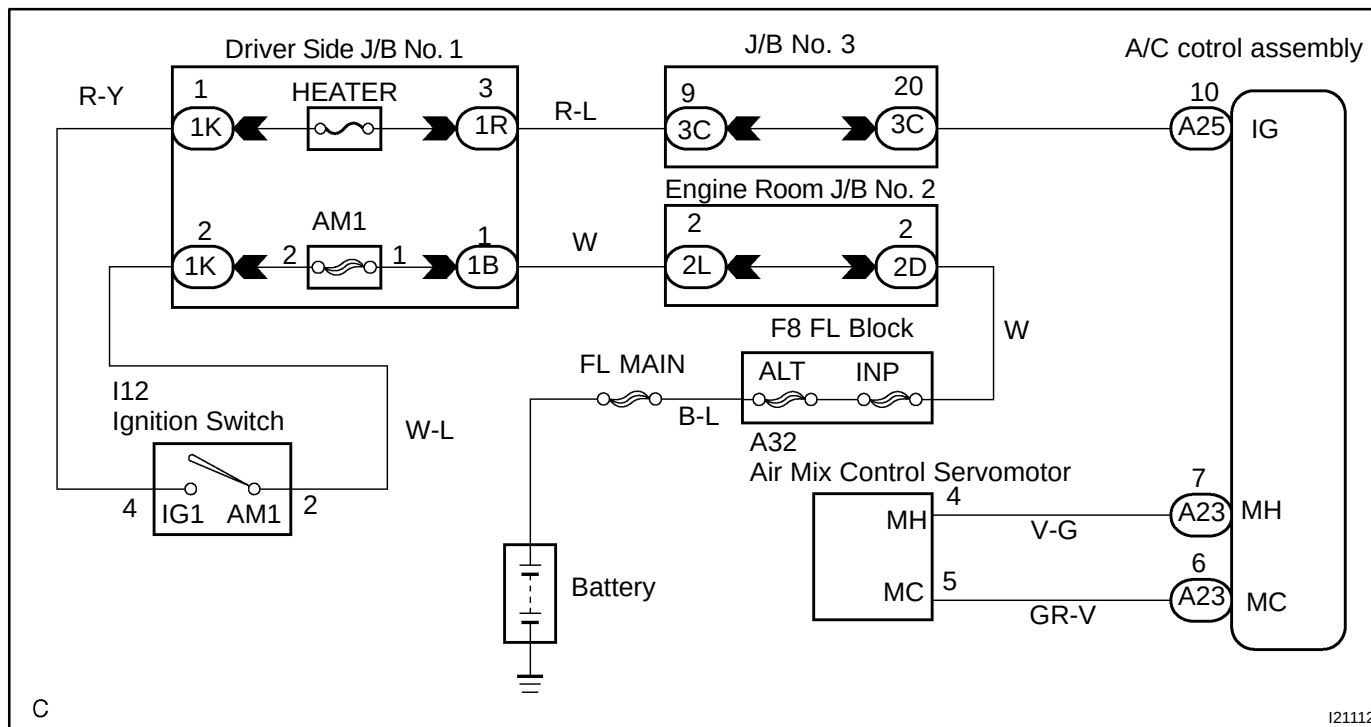
DTC	41	Front Air Mix Damper Control Servomotor Circuit
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CIRCUIT DESCRIPTION

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 control assembly • A/C control assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Actuator check
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PREPARATION:

- (a) Warm up the engine.
- (b) Set to the actuator check mode (See page [DI-689](#)).
- (c) Press the DEF switch and change it to step operation.

CHECK:

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

OK:

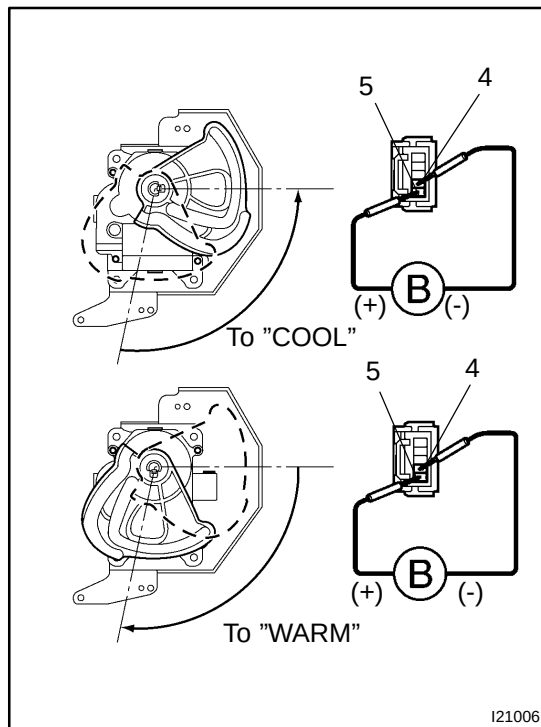
Display Code	Air Mix Damper	Condition
0 - 3	0 % (Fully closed)	Cool air comes out
4 - 5	50 %	
6 - 9	100 % (Fully opened)	Warm air comes out

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-697](#)).

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2 Check front air mix damper control servomotor.



PREPARATION:

Remove front air mix damper control servomotor (See page [AC-90](#)).

CHECK:

Connect positive (+) lead to terminal 4 and negative (-) lead to terminal 5.

CHECK:

Connect positive (+) lead to terminal 5 and negative (-) lead to terminal 4.

OK:

The lever turns smoothly to "COOL" side.

OK:

The lever turns smoothly to "WARM" side.

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Replace front air mix damper control servomotor assembly.

OK

3 Check harness and connector between A/C control assembly and front air mix damper control servomotor assembly (See page [IN-31](#)).

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Repair or replace harness or connector.

OK

Check and replace A/C control assembly.