

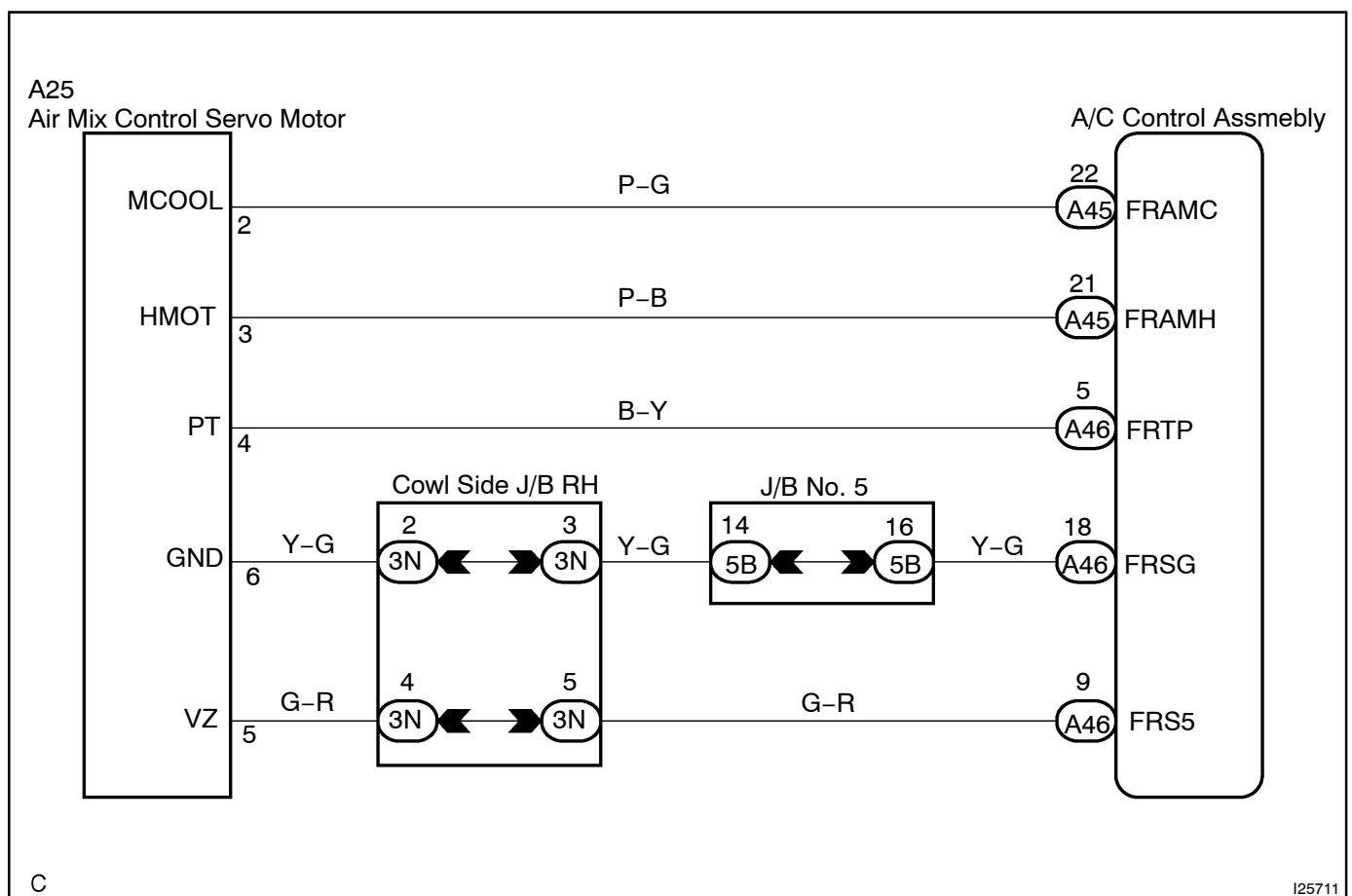
DTC	41	Front Air Mix Damper Control Servomotor Circuit
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CIRCUIT DESCRIPTION

The front air mix damper control servomotor is controlled by the A/C amplifier 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. - Harness or connector between front air mix damper control servomotor and A/C amplifier - A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Actuator check.

PREPARATION:

- (a) Warm up the engine.
- (b) Set to actuator check mode (See page [DI-1302](#)).
- (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:

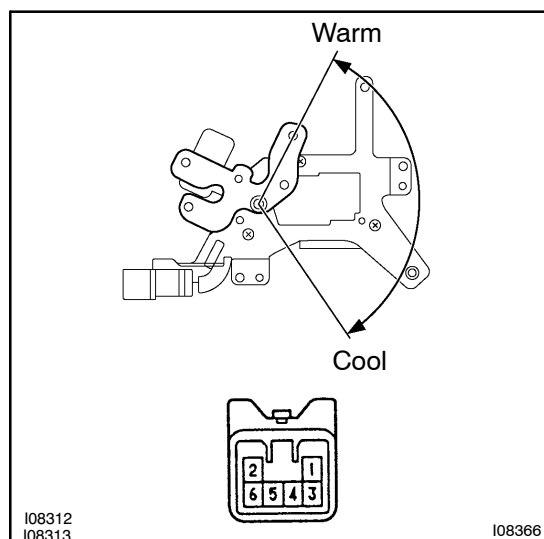
Display Code	Air Mix Damper	Condition
0 – 2	0 % (Fully closed)	Cool air comes out
3 – 4	50 %	–
5 – 7	100 % (Full opened)	Warm air comes out

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-1313](#)).

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2 Check front air mix damper control servomotor.



PREPARATION:

Remove front air mix 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 front air mix damper control servomotor and A/C amplifier (See page IN-36).
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Repair or replace harness or connector.

OK

Check and replace A/C amplifier.