DI90Y–01

DTC	RrDEF, M1	Front Air Mix Damper Control Servomotor Circuit

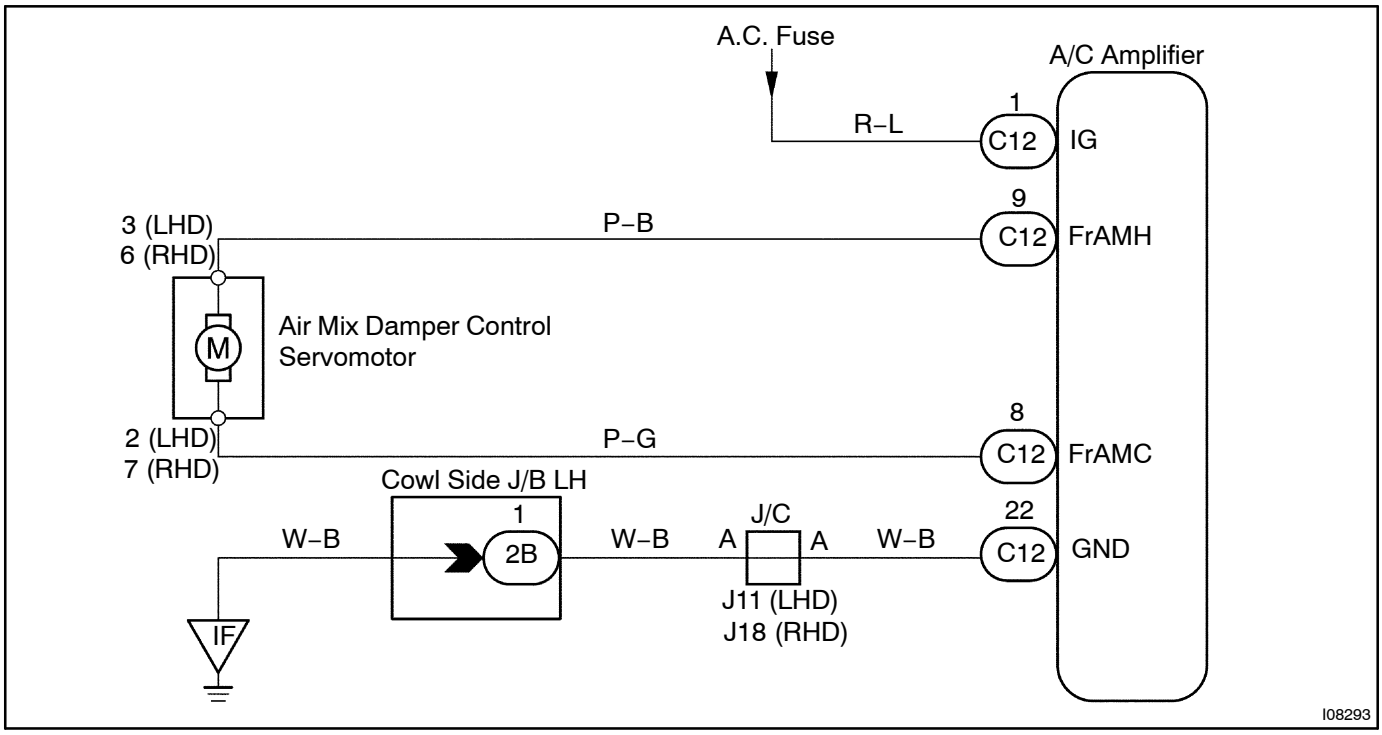
DTC	41	Front Air Mix Damper Control Servomotor Circuit

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.

Blinking lilght	Detection Item	Trouble Area
RrDEF M1	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
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.**

PREPARATION:
(a) Warm up the engine.
(b) Set the actuator check mode. (See page DI–115).
(c) Press the UP Dr switch and change it to step operation.

CHECK:
Press the UP Dr switch and check the operation of the air mix damper and the condition of the blower.

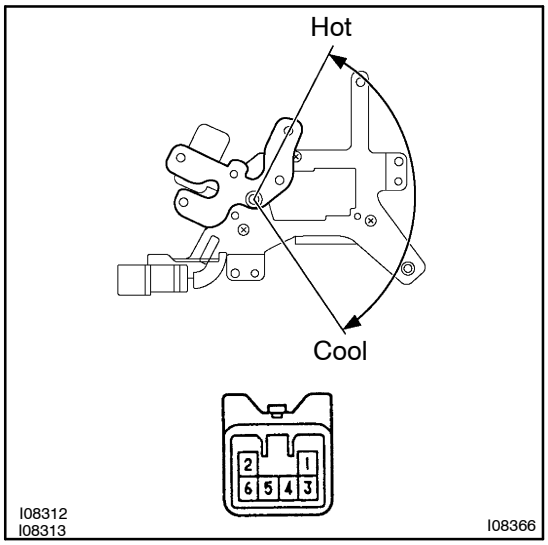
OK:

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–130).**

NG

2	Check front air mix damper control servomotor.



PREPARATION:
Remove front air mix servomotor (See Pub. No. RM616E on page AC–55 and AC–146).

CHECK:
Connect positive (+) lead to terminal 3 and negative (–) lead to terminal 2.

OK:
The lever turns smoothly to Hot side.

CHECK:
Connect positive (+) lead to terminal 2 and negative (–) lead to terminal 3.

OK:
The lever turns smoothly to Cool side.

NG → **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).

NG → **Repair or replace harness or connector.**

OK

Check and replace A/C amplificer.