

|            |                  |                                                        |
|------------|------------------|--------------------------------------------------------|
| <b>DTC</b> | <b>RrDEF, M1</b> | <b>Front Air Mix Damper Control Servomotor Circuit</b> |
|------------|------------------|--------------------------------------------------------|

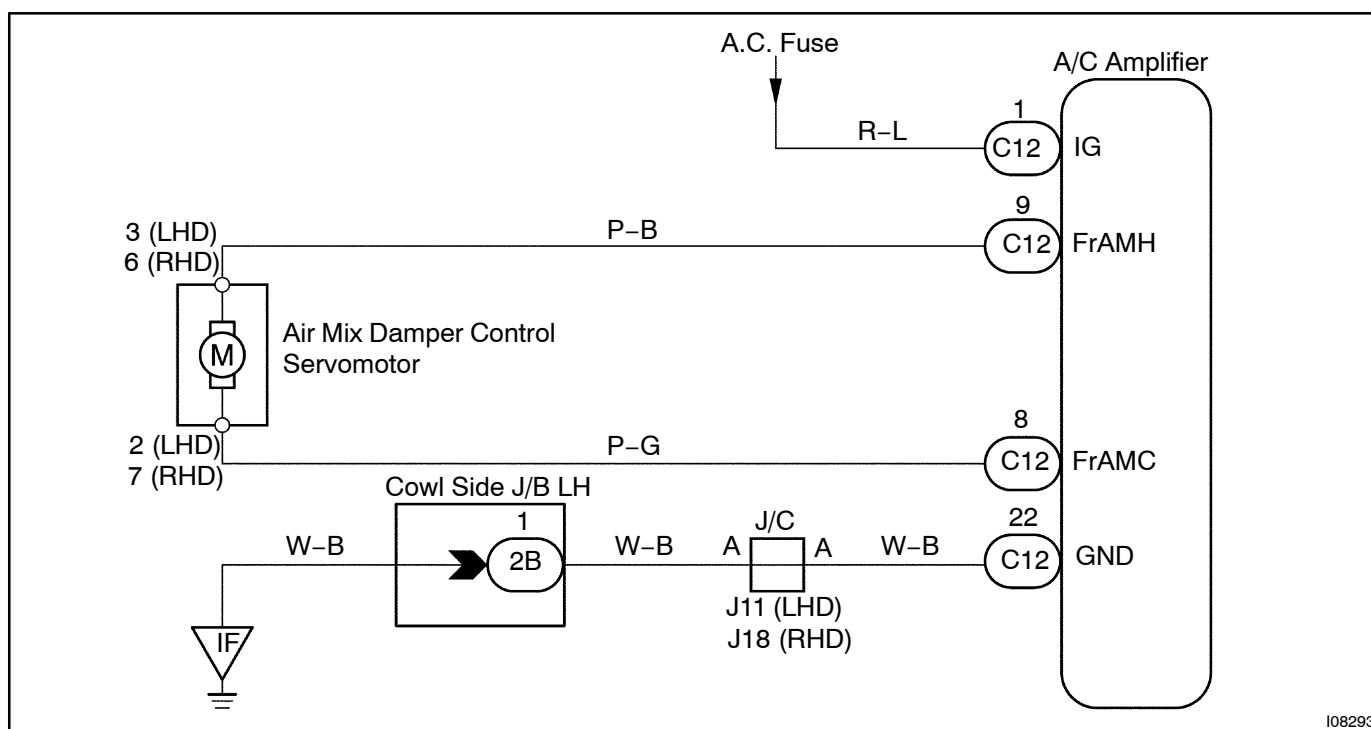
|            |           |                                                        |
|------------|-----------|--------------------------------------------------------|
| <b>DTC</b> | <b>41</b> | <b>Front Air Mix Damper Control Servomotor Circuit</b> |
|------------|-----------|--------------------------------------------------------|

## 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 light | Detection Item                                                                                                                | Trouble Area                                                                                                                                                                                                                                                      |
|----------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RrDEF<br>M1    | Air mix damper position sensor value does not change even if A/C control assembly operates air mix damper control servomotor. | <ul style="list-style-type: none"> <li>• Front air mix damper control servomotor</li> <li>• Front air mix damper position sensor</li> <li>• Harness or connector between front air mix control servomotor and A/C amplifier</li> <li>• A/C amplifier</li> </ul>   |
| 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. | <ul style="list-style-type: none"> <li>• Front air mix damper control servomotor.</li> <li>• Front air mix damper position sensor.</li> <li>• Harness or connector between front air mix control servomotor and A/C amplifier</li> <li>• A/C amplifier</li> </ul> |

## WIRING DIAGRAM



108293

## 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 | <b>Actuator check.</b> |
|---|------------------------|

### PREPARATION:

- (a) Warm up the engine.
- (b) Set the actuator check mode ([See page DI-115](#)).
- (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.

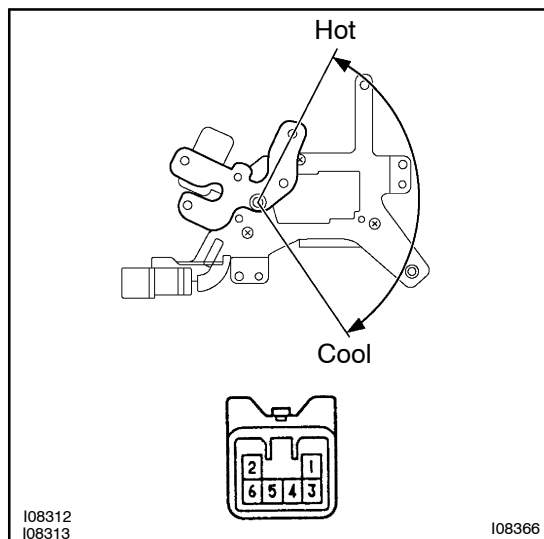
### OK:

| 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-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 amplifier.**