

<b>DTC</b>	<b>46</b>	<b>AIR MIX DAMPER CONTROL SERVOMOTOR CIRCUIT (DRIVER SIDE)</b>
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### CIRCUIT DESCRIPTION

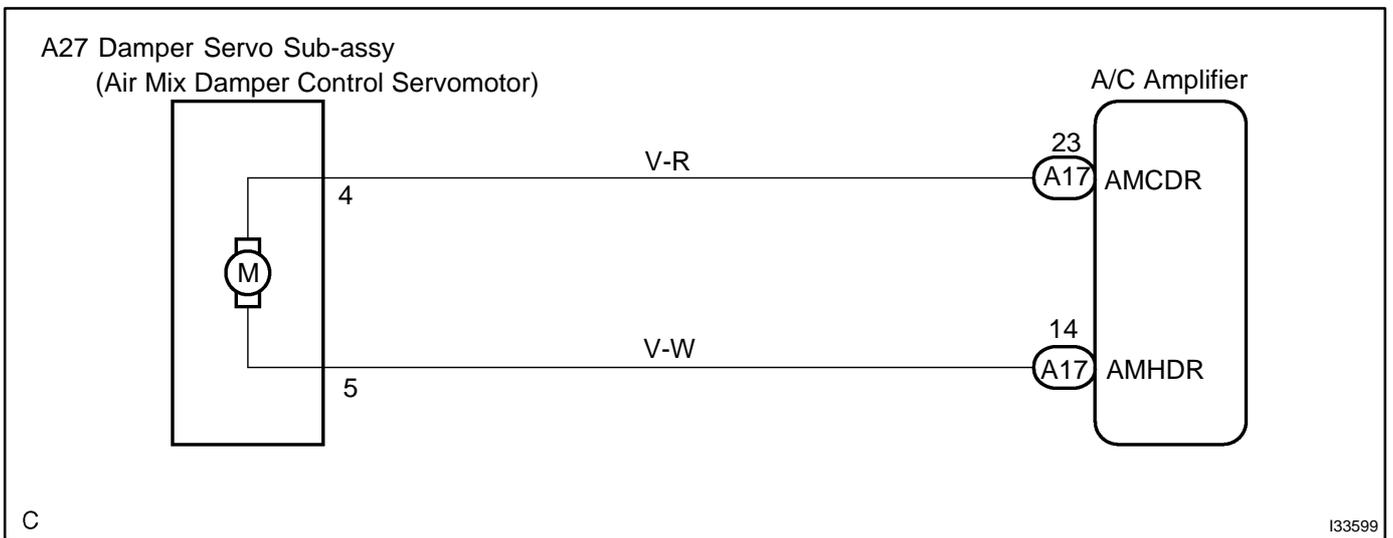
The damper servo sub-assy (air mix damper control servomotor) is controlled by the A/C amplifier and moves the air mix damper to the desired position.

HINT:

This DTC is displayed for only limited grade (right/left independent temperature control system).

DTC No.	Detection Item	Trouble Area
46	Air mix damper position sensor value does not change even if A/C amplifier operates air mix control servomotor.	<ul style="list-style-type: none"> <li>• Damper servo sub-assy (air mix damper control servomotor)</li> <li>• Harness or connector between damper servo sub-assy (air mix control servomotor) and A/C amplifier</li> <li>• A/C amplifier</li> </ul>

### WIRING DIAGRAM



## INSPECTION PROCEDURE

### 1 PERFORM ACTUATOR CHECK

- (a) Operate A/C control panel to enter the actuator check mode (See page 05-516 ).
- (b) Press the DEF switch and change to step operation.
- (c) Check the air flow temperature by hand.

#### Standard:

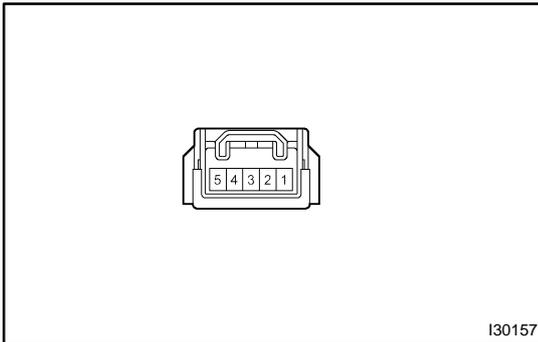
Display Code	Air Mix Damper Operation
0	COLD side (0 % open)
1	COLD side (0 % open)
2	COLD side (0 % open)
3	COLD/HOT (50 % open)
4	COLD/HOT (50 % open)
5	COLD/HOT (50 % open)
6	COLD/HOT (50 % open)
7	HOT side (100 % open)
8	HOT side (100 % open)
9	HOT side (100 % open)

OK

**PROCEED TO NEXT CIRCUIT INSPECTION  
SHOWN ON PROBLEM SYMPTOMS TABLE**

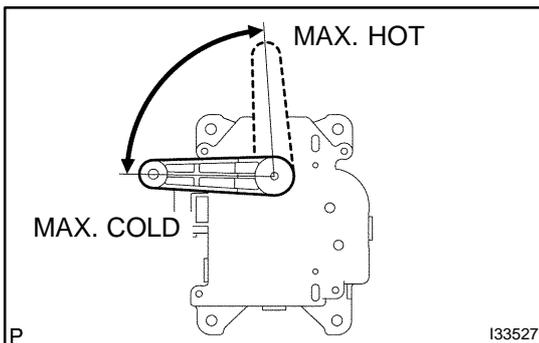
NG

## 2 INSPECT DAMPER SERVO SUB-ASSY



- Remove the damper servo sub-assy.
- Connect the battery positive (+) lead to terminal 4 and the battery negative (-) lead to terminal 5, then check that the lever turns to "COLD" side smoothly.
- Connect the battery positive (+) lead to terminal 5 and the battery negative (-) lead to terminal 4, then check that the lever turns to "HOT" side smoothly.

**Standard: Motor operates is smoothly.**



**NG** → REPLACE DAMPER SERVO SUB-ASSY

**OK**

## 3 CHECK HARNESS AND CONNECTOR(BETWEEN DAMPER SERVO SUB-ASSY AND AIR CONDITIONING AMPLIFIER)

- Check for open and short in the harness and the connector between the damper servo sub-assy (air mix damper control servomotor) and the A/C amplifier (See page [01-35](#)).

**NG** → REPAIR OR REPLACE HARNESS OR CONNECTOR

**OK**

## 4 CHECK DIAGNOSTIC TROUBLE CODE

- Start up the DTC check mode.
- Check that DTC 46 is not output again.

**Standard: DTC 46 is not output.**

**OK** → SYSTEM OK

**NG**

**CHECK AND REPLACE AIR CONDITIONING AMPLIFIER**