

DTC	46	AIR MIX DAMPER CONTROL SERVOMOTOR CIRCUIT (DRIVER SIDE)
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CIRCUIT DESCRIPTION

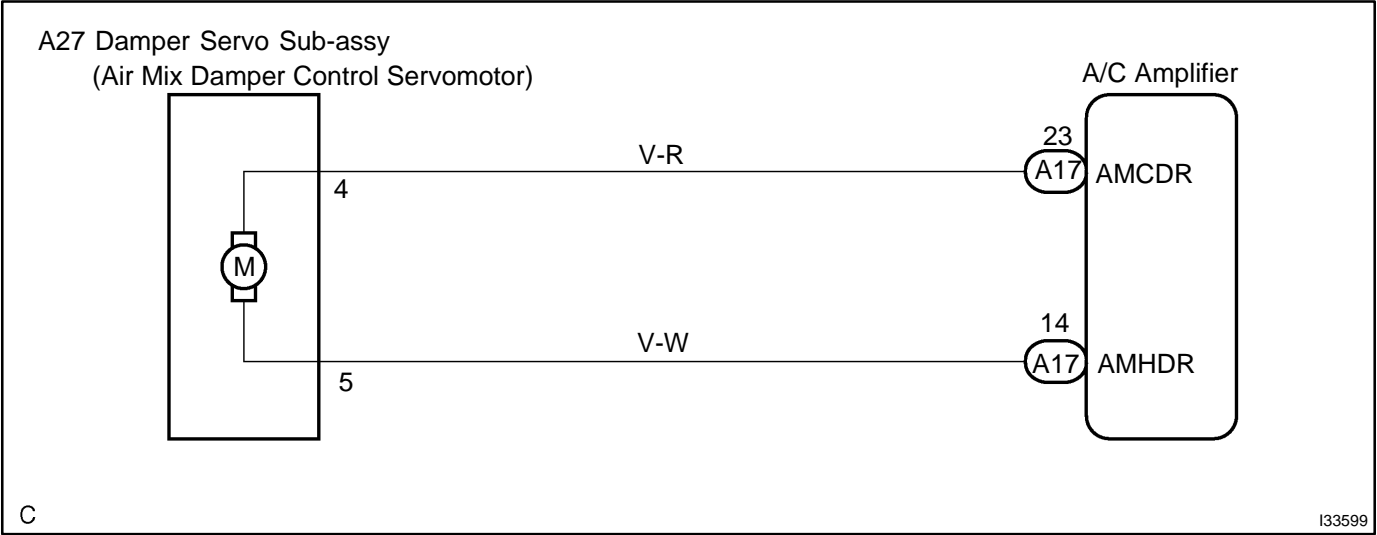
The damper servo sub-assy (air mix damper control servomotor) is controlled by the A/C amplifier and moves the air mix damper to the desired position.

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">• Damper servo sub-assy (air mix damper control servomotor)• Harness or connector between damper servo sub-assy (air mix control servomotor) and A/C amplifier• A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE**1 PERFORM ACTUATOR CHECK**

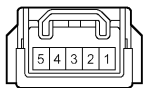
- (a) Operate A/C control panel to enter the actuator check mode (See page 05-516).
(b) Press the DEF switch and change to step operation.
(c) Check the air flow temperature by hand.

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**

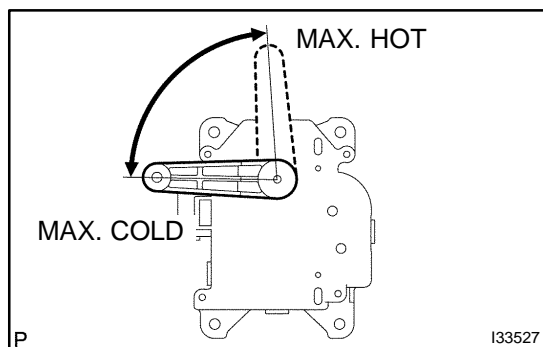
2 INSPECT DAMPER SERVO SUB-ASSY



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- (a) Remove the damper servo sub-assy.
- (b) 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.
- (c) 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.



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REPLACE DAMPER SERVO SUB-ASSY

OK

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

- (a) 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](#)).

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4 CHECK DIAGNOSTIC TROUBLE CODE

- (a) Start up the DTC check mode.
- (b) Check that DTC 46 is not output again.

Standard: DTC 46 is not output.

OK

SYSTEM OK

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CHECK AND REPLACE AIR CONDITIONING AMPLIFIER