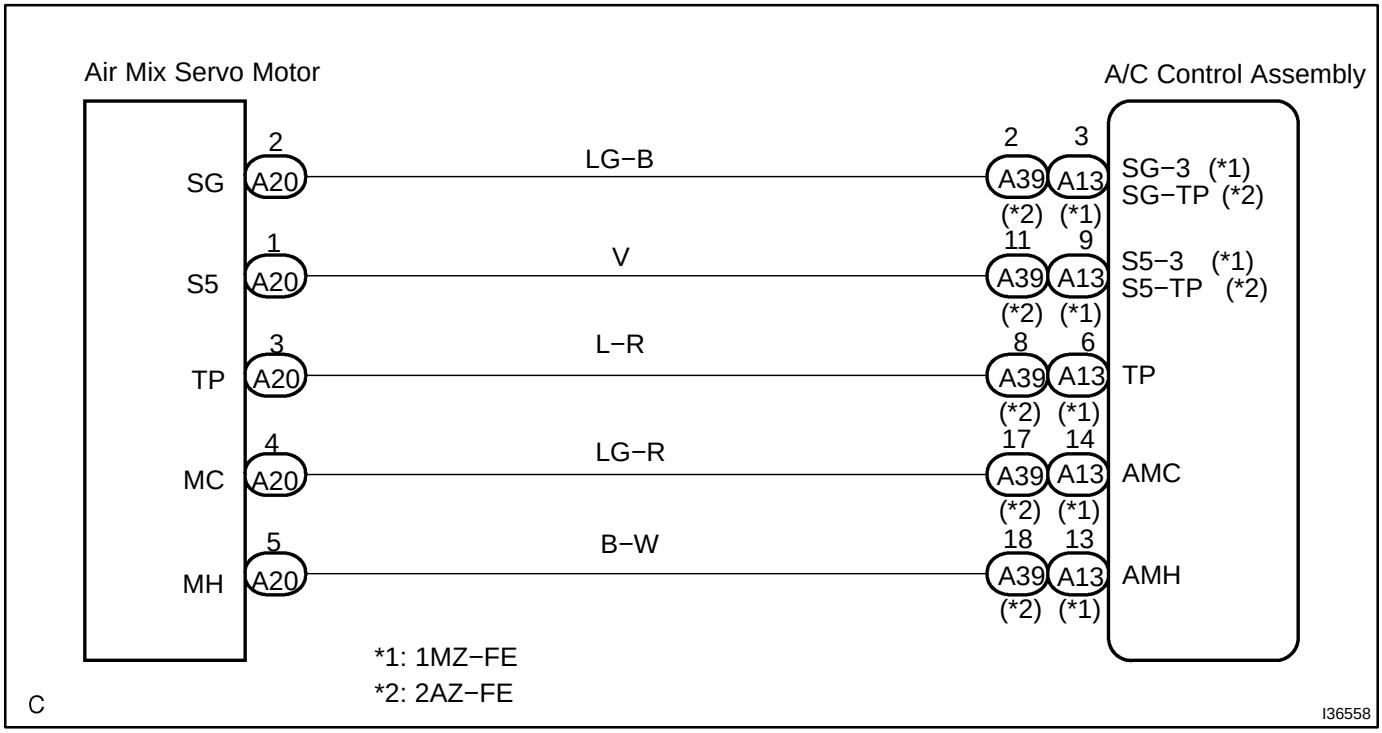
DTC	41	AIR MIX DAMPER CONTROL SERVOMOTOR CIRCUIT(PASSENGER SIDE)

CIRCUIT DESCRIPTION

This air mix 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 air conditioner amplifier assy operates air mix servomotor.	• Air mix servomotor • Harness or connector between A/C amplifier and air mix servomotor • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	PERFORM ACTUATOR CHECK

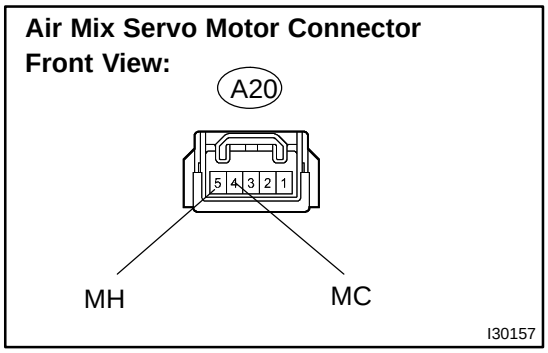
(a) Warm up engine.
(b) Set to actuator check mode (See page 05−1363).
(c) Press the DEF switch and change to step operation.
(d) Check the air flow temperature by hand.

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

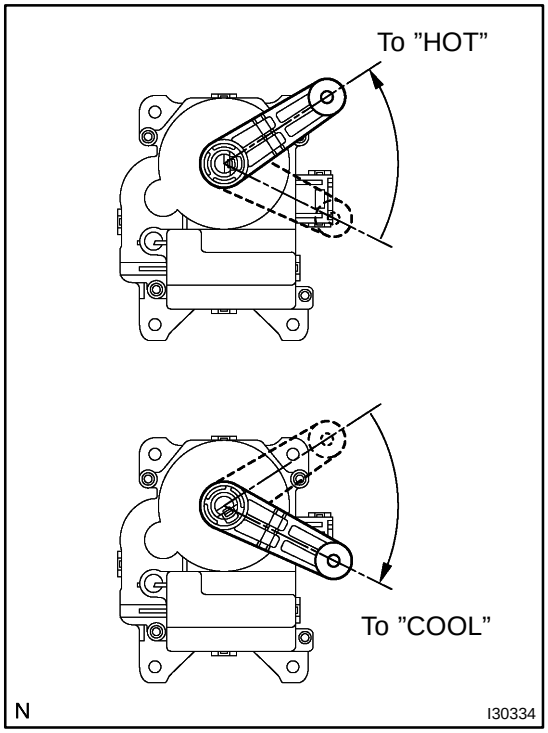
OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

NG

2	**INSPECT AIRMIX DAMPER SERVO SUB−ASSY**



(a) Remove the air mix damper servo sub−assy.
(b) Connect the positive (+) lead from the battery to terminal 4 and negative (−) lead to terminal 5, then check that the lever turns to ”COOL” side smoothly.
(c) Connect the positive (+) lead from the battery to terminal 5 and negative (−) lead to terminal 4, then check that the lever turns to ”HOT” side smoothly.

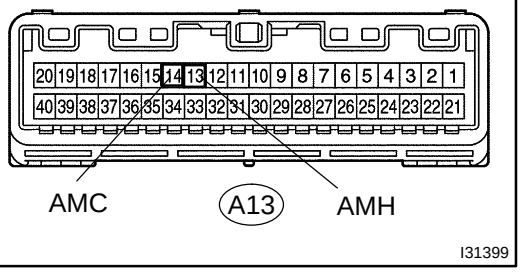


NG → **REPLACE AIRMIX DAMPER SERVO SUB−ASSY**

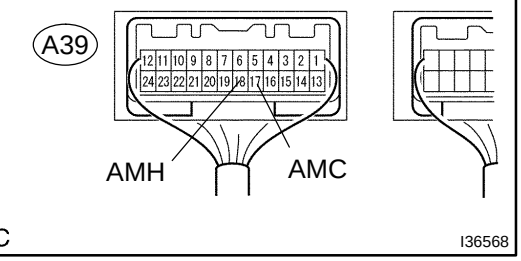
OK

3	CHECK HARNESS AND CONNECTOR(AIR MIX DAMPER CONTROL SERVOMOTOR − HEATER CONTROL HOUSING SUB−ASSY)

1MZ−FE: A/C Control Assembly Connector Wire Harness View:



2AZ−FE: A/C Control Assembly Connector Wire Harness View:



(a) Remove A/C amplifier with connector.

(b) 1MZ−FE:

Measure voltage according to the value(s) in the table below.

Standard:

Terminal No.	Condition	Specified Condition
A13−13 (AMH) − Body ground	MAX. HOT	10 to 14 V
A13−13 (AMH) − Body ground	MAX. COOL	Below 1.0 V
A13−14 (AMC) − Body ground	MAX. HOT	Below 1.0 V
A13−14 (AMC) − Body ground	MAX. COOL	10 to 14 V

(c) 2AZ−FE:

Measure voltage according to the value(s) in the table below.

Standard:

Terminal No.	Condition	Specified Condition
A39−18 (AMH) − Body ground	MAX. HOT	10 to 14 V
A39−18 (AMH) − Body ground	MAX. COOL	Below 1.0 V
A39−17 (AMC) − Body ground	MAX. HOT	Below 1.0 V
A39−17 (AMC) − Body ground	MAX. COOL	10 to 14 V

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

OK

CHECK AND REPLACE HEATER CONTROL HOUSING SUB−ASSY