

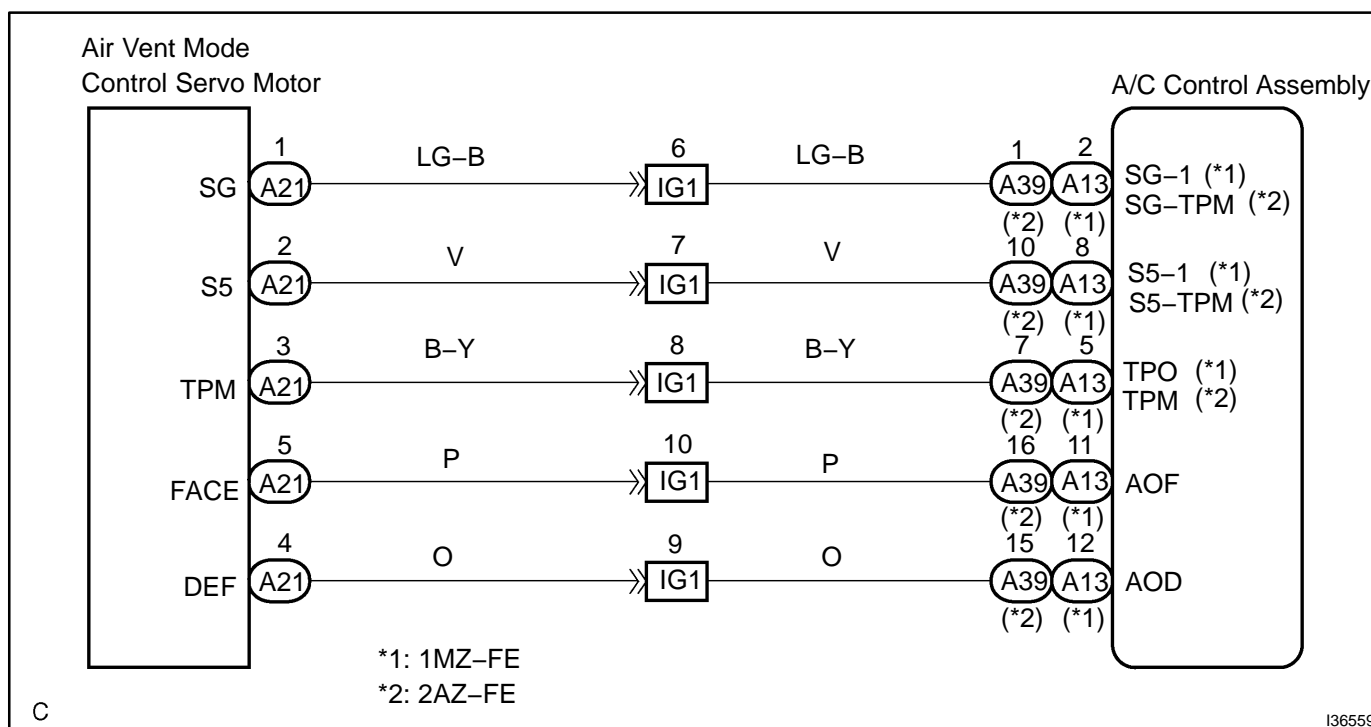
DTC	43	AIR OUTLET DAMPER CONTROL SERVOMOTOR CIRCUIT
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CIRCUIT DESCRIPTION

This circuit turns the servomotor and changes each mode damper position by the signals from the air conditioner amplifier. When the AUTO switch is on, the air conditioner amplifier changes the mode automatically between (FACE), (BI-LEVEL) and (FOOT) according to the temperature setting.

DTC No.	Detection Item	Trouble Area
43	Air outlet damper position sensor value does not change even if air conditioner amplifier operated air outlet damper control servomotor.	<ul style="list-style-type: none"> • Air outlet damper control servomotor • Harness or connector between A/C amplifier and air outlet damper control servomotor • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE**1 PERFORM ACTUATOR CHECK**

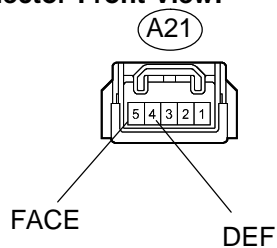
- (a) Warm up engine.
- (b) Set to actuator check mode (See page [05-1363](#)).
- (c) Press the DEF switch and change it to step operation.
- (d) Check that the air flow by hand.

Display code	Air flow condition
0	FACE
1	FACE
2	FACE
3	FACE
4	FACE
5	B/L
6	FOOT
7	FOOT
8	FOOT/DEF
9	DEF

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

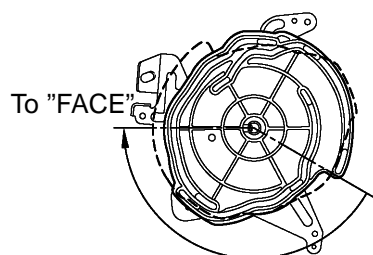
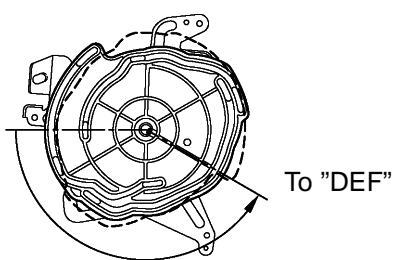
2 INSPECT MODE DAMPER SERVO SUB-ASSY

Air Vent Mode Control Servo Motor Connector Front View:



I30157

- Remove the mode damper servo sub-assy.
- Connect the positive (+) lead from the battery to terminal 4 and negative (–) lead to terminal 5 then check that the lever turns to "DEF" position.
- Connect the positive (+) lead from the battery to terminal 5 and negative (–) lead to terminal 4 then check that the lever turn to "FACE" position.



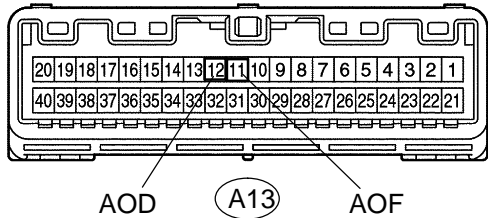
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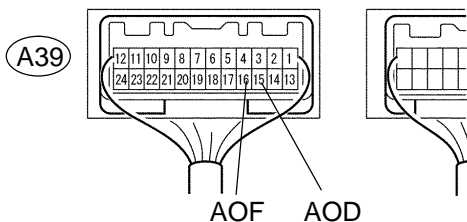
REPLACE MODE DAMPER SERVO SUB-ASSY

OK

3**CHECK HARNESS AND CONNECTOR(MODE DAMPER SERVO SUB-ASSY – HEATER CONTROL HOUSING SUB-ASSY)****1MZ-FE: A/C Control Assembly
Connector Wire Harness View:**

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

C

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(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
A13-11 (AOF) – Body ground	FACE	10 to 14 V
A13-11 (AOF) – Body ground	DEF	Below 1.0 V
A13-12 (AOD) – Body ground	FACE	Below 1.0 V
A13-12 (AOD) – Body ground	DEF	10 to 14 V

(c) 2AZ-FE:

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

Standard:

Terminal No.	Condition	Specified Condition
A39-16 (AOF) – Body ground	FACE	10 to 14 V
A39-16 (AOF) – Body ground	DEF	Below 1.0 V
A39-15 (AOD) – Body ground	FACE	Below 1.0 V
A39-15 (AOD) – Body ground	DEF	10 to 14 V

NG**REPAIR OR REPLACE HARNESS OR CONNECTOR****OK****CHECK AND REPLACE HEATER CONTROL HOUSING SUB-ASSY**