

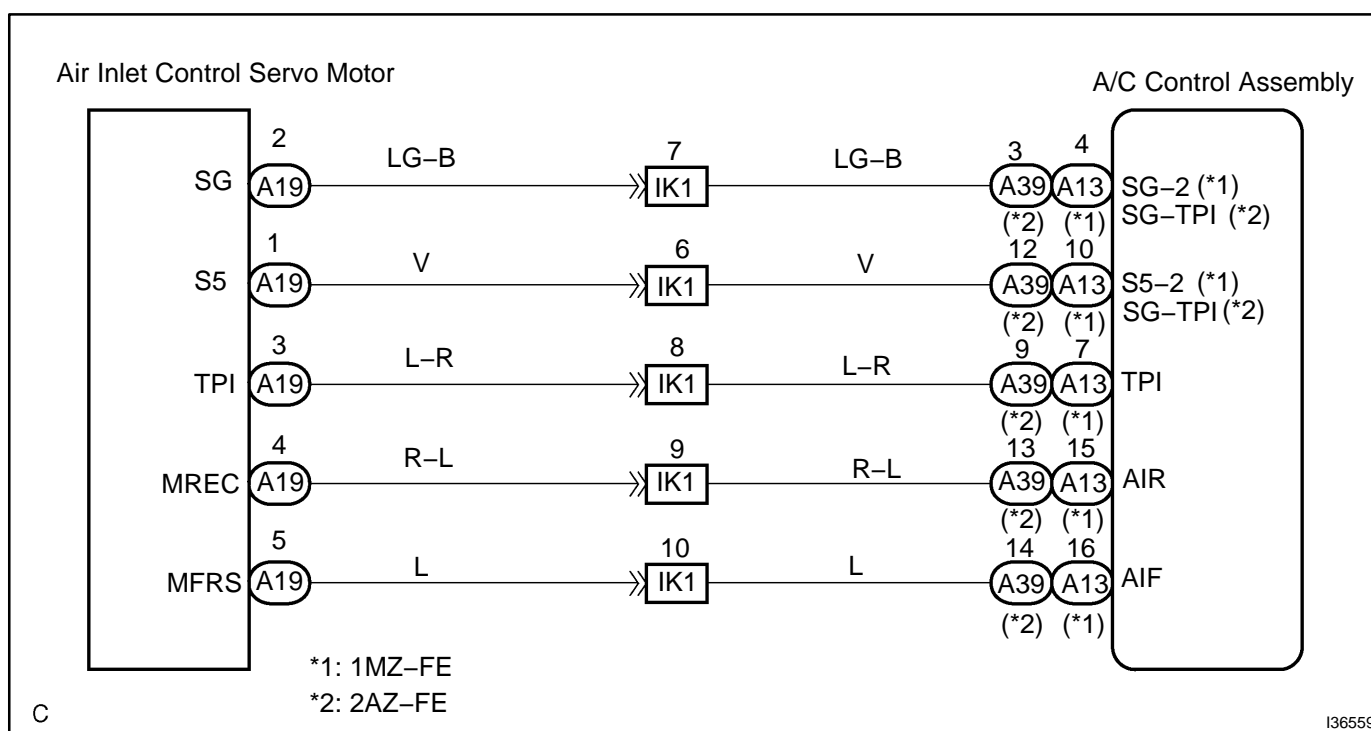
DTC	42	AIR INLET DAMPER CONTROL SERVOMOTOR CIRCUIT
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CIRCUIT DESCRIPTION

The air inlet control servomotor is controlled by the A/C amplifier and moves the air inlet damper to the desired position.

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

WIRING DIAGRAM



INSPECTION PROCEDURE**1 PERFORM ACTUATOR CHECK**

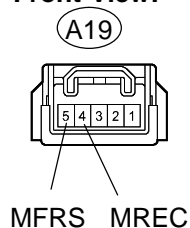
- (a) Remove the glove box to see and check the recirculation damper operation.
- (b) Set to actuator check mode (See page [05-1363](#)).
- (c) Press the DEF switch and change it to step operation.
- (d) Check the operation of recirculation damper.

Display code	Recirculation damper position
0	FRESH
1	FRESH
2	FRESH
3	FRESH/RECIRCULATION
4	RECIRCULATION
5	RECIRCULATION
6	RECIRCULATION
7	RECIRCULATION
8	RECIRCULATION
9	RECIRCULATION

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

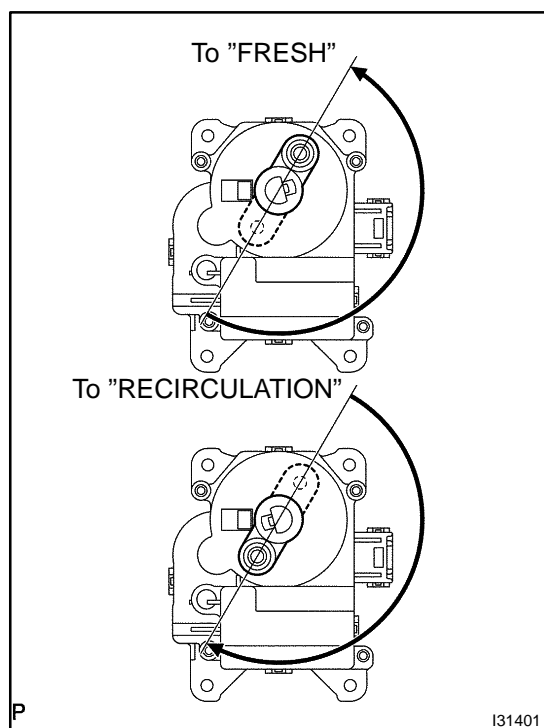
2 INSPECT RECIRCULATION DAMPER SERVO SUB-ASSY

Air Inlet Control Servo Motor Connector Front View:



I30157

- (a) Remove the recirculation damper servo sub-assy.
- (b) Connect the positive (+) lead to from the battery to terminal 5 and negative (-) lead to terminal 4, then check that the lever turns to "FRESH" side smoothly.
- (c) Connect the positive (+) lead to from the battery to terminal 4 and negative (-) lead to terminal 5, then check that the lever turns to "RECIRCULATION" side smoothly.

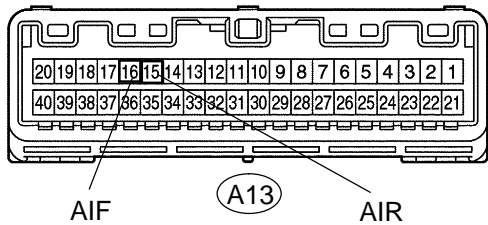


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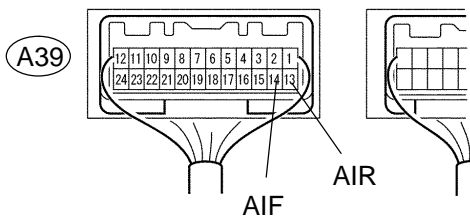
**REPLACE RECIRCULATION DAMPER SERVO
SUB-ASSY**

OK

3**CHECK HARNESS AND CONNECTOR(RECIRCULATION DAMPER SERVOMOTOR – 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
A13-16 (AIF) – Body ground	FRESH	10 to 14 V
A13-16 (AIF) – Body ground	RECIRCULATION	Below 1.0 V
A13-15 (AIR) – Body ground	FRESH	Below 1.0 V
A13-15 (AIR) – Body ground	RECIRCULATION	10 to 14 V

- (c) 2AZ-FE:
 Measure voltage according to the value(s) in the table below.

Standard:

Terminal No.	Condition	Specified Condition
A39-14 (AIF) – Body ground	FRESH	10 to 14 V
A39-14 (AIF) – Body ground	RECIRCULATION	Below 1.0 V
A39-13 (AIR) – Body ground	FRESH	Below 1.0 V
A39-13 (AIR) – Body ground	RECIRCULATION	10 to 14 V

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