

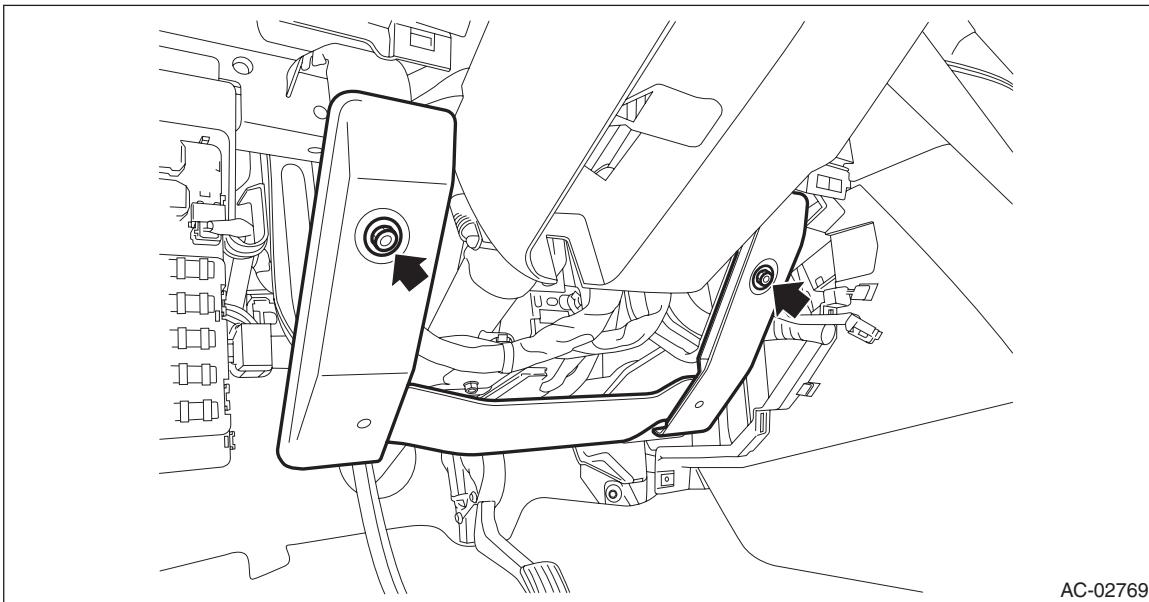
Mode Door Actuator

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

28. Mode Door Actuator

A: REMOVAL

- 1) Remove the instrument panel lower cover. <Ref. to EI-63, REMOVAL, Instrument Panel Lower Cover.>
- 2) Remove the bolt and detach the knee protector.

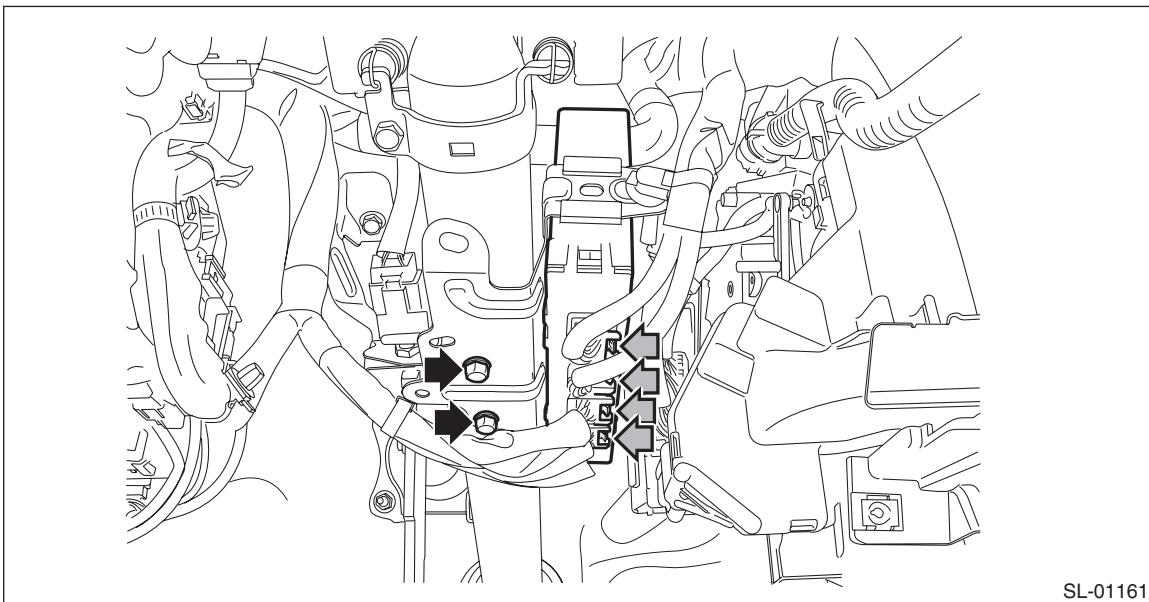


- 3) Remove the body integrated unit.

CAUTION:

Be careful to keep water and other foreign materials away from body integrated unit.

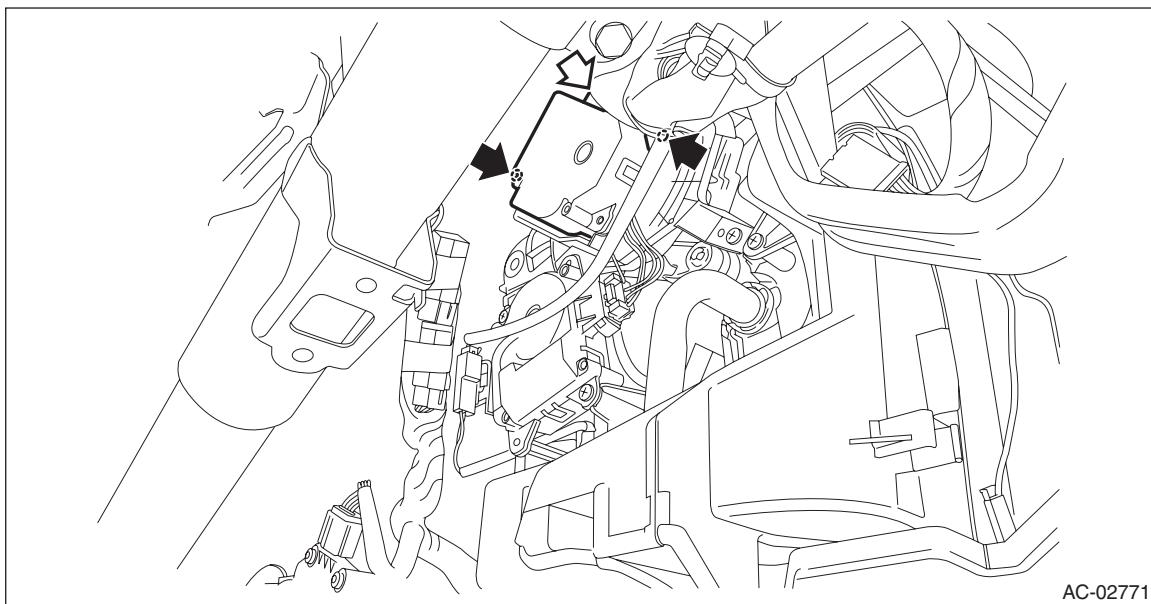
- (1) Remove the harness clip and connector.
- (2) Remove the bolts, and remove the body integrated unit.



4) Remove the mode door actuator.

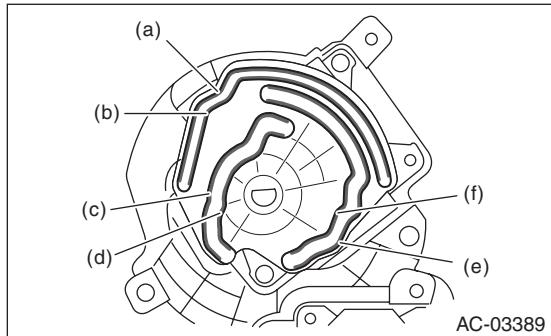
(1) Disconnect the connector.

(2) Remove the screws, and remove the mode door actuator.



B: INSTALLATION

1) When replacing the door actuator with a new part, apply a thin coat of grease evenly to the contact area (a) inside the rail of link plate by using approx. 5 mm (approx. 0.1 g) of grease squeezed out from a tube. Also apply a thin coat of grease evenly to the contact areas (b) through (f), by using the same amount of grease to each area.



NOTE:

After installing the door actuator, perform 3 — 5 times of break-in operation for the grease to fit in.

Grease:

SUBARU genuine grease (Part No. 72129AJ000)

2) Install each part in the reverse order of removal.

Tightening torque:

Knee protector: 7.5 N·m (0.76 kgf-m, 5.5 ft-lb)

Body integrated unit: 7.5 N·m (0.76 kgf-m, 5.5 ft-lb)

C: INSPECTION

1. ACTUATOR LINK

- 1) Visually check the operating range of the link, and remove the foreign matter if any.
- 2) Operate the mode change switch, and check that the link operates normally.
- 3) If the actuator does not operate normally, check the mode door actuator unit.

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2. CHECK ACTUATOR OPERATION

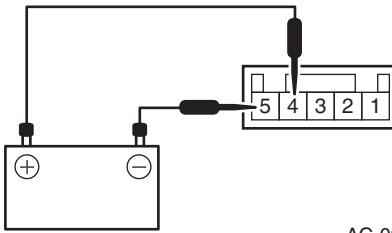
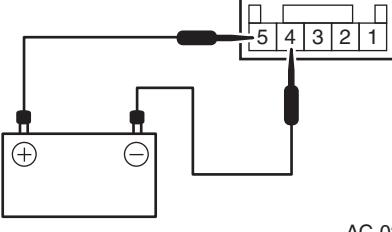
Preparation tool:

Circuit tester

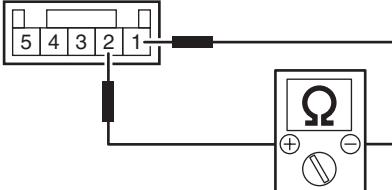
1) Check the actuator operation when battery voltage is applied between the terminals of mode door actuator.

CAUTION:

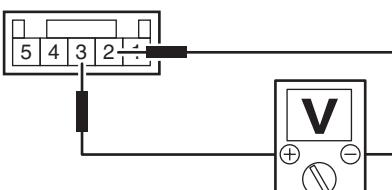
Disconnect the battery immediately after the actuator stops operation. Otherwise, the motor may be damaged.

Terminal No.	Inspection conditions	Operating position	Connection diagram
4 (+) — 5 (-)	Connect battery to the terminals	FACE	 AC-02579
5 (+) — 4 (-)		DEF	 AC-02580

2) Check the resistance between terminals of the mode door actuator.

Terminal No.	Inspection conditions	Standard	Connection diagram
1 — 2	Always	4.2 — 7.8 Ω	 AC-02581

3) Connect the mode door actuator connector, turn the ignition switch to ON and check the voltage between terminals of the mode door actuator.

Terminal No.	Inspection conditions	Standard	Connection diagram
3 (+) — 2 (-)	FACE	Approx. 4.0 V	 AC-02582
	DEF	Approx. 1.0 V	

4) Replace the mode door actuator if it is found defective.