

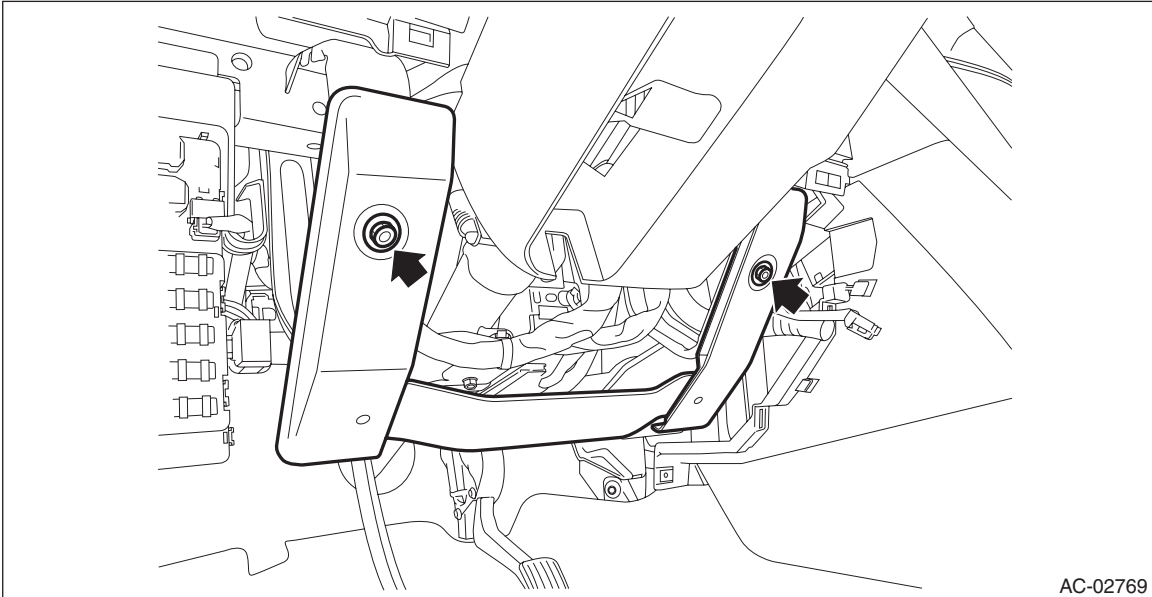
Mode Door Actuator

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.



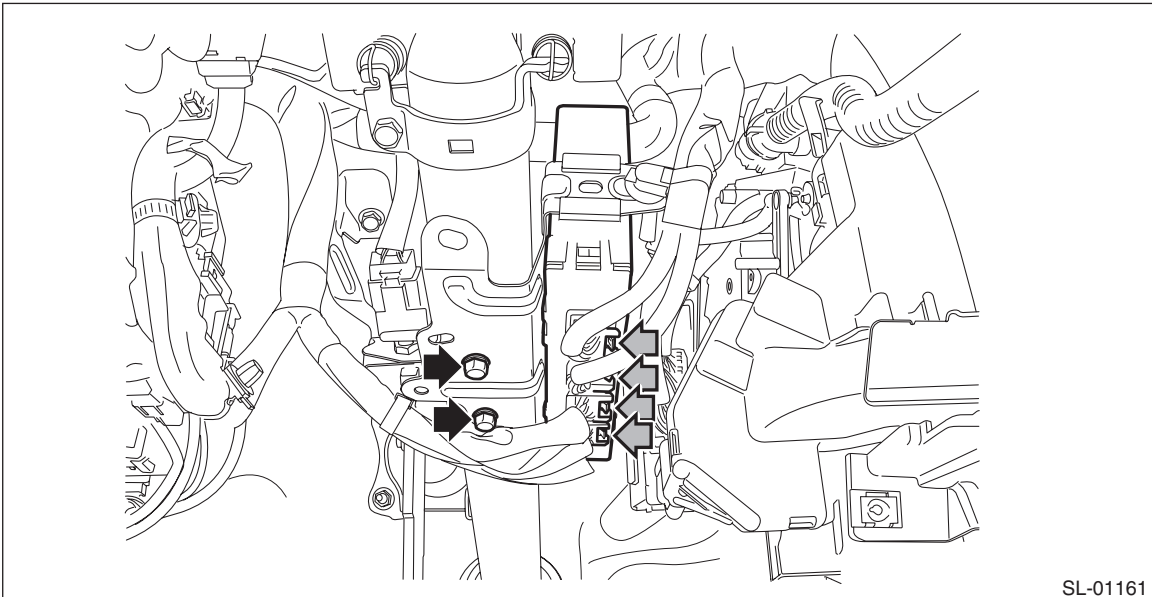
AC-02769

- 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.

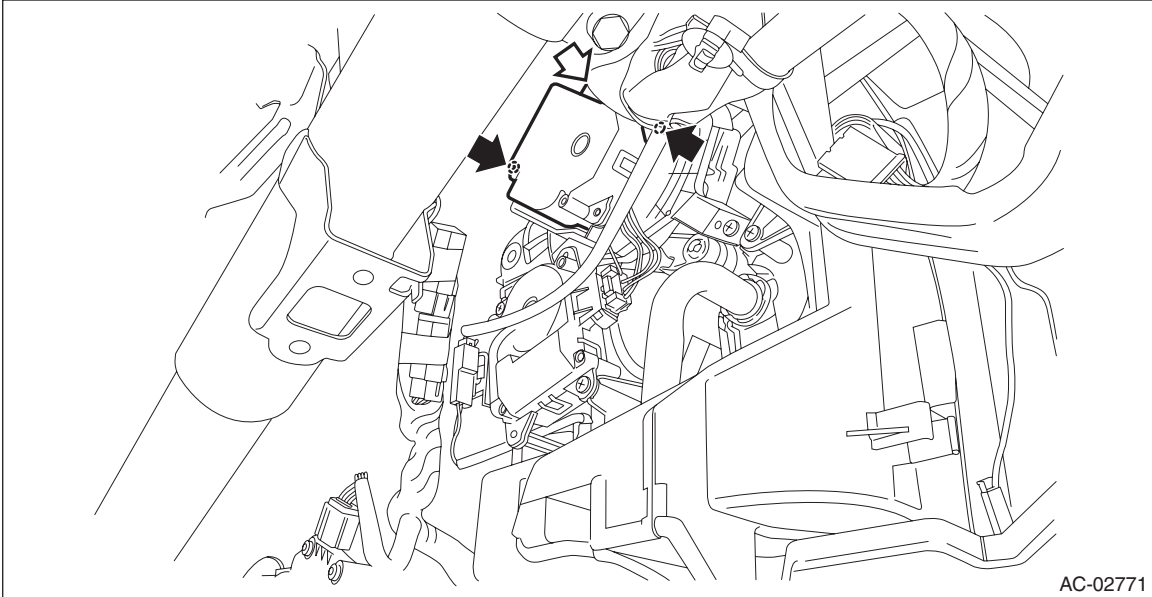


SL-01161

Mode Door Actuator

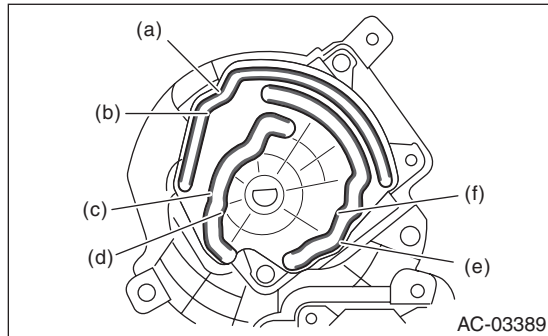
HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

- 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

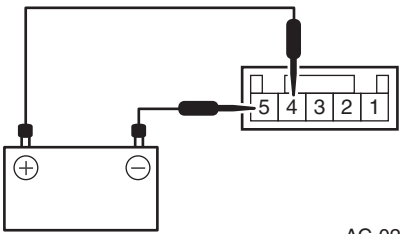
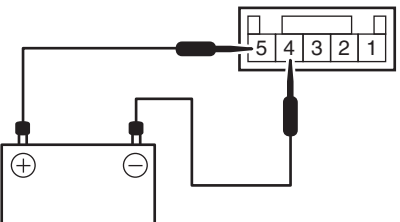
Preparation tool:

Circuit tester

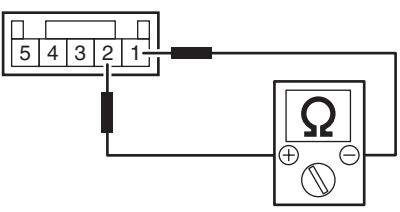
1) Check the actuator operation when battery voltage is applied between the terminals of mode door actuator.

CAUTION:

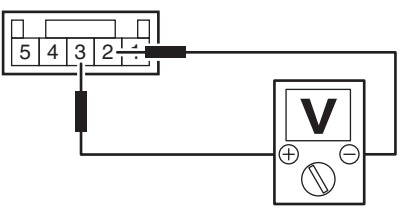
Disconnect the battery immediately after the actuator stops operation. Otherwise, the motor may be damaged.

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

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	 <p>AC-02581</p>

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	 <p>AC-02582</p>
	DEF	Approx. 1.0 V	

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