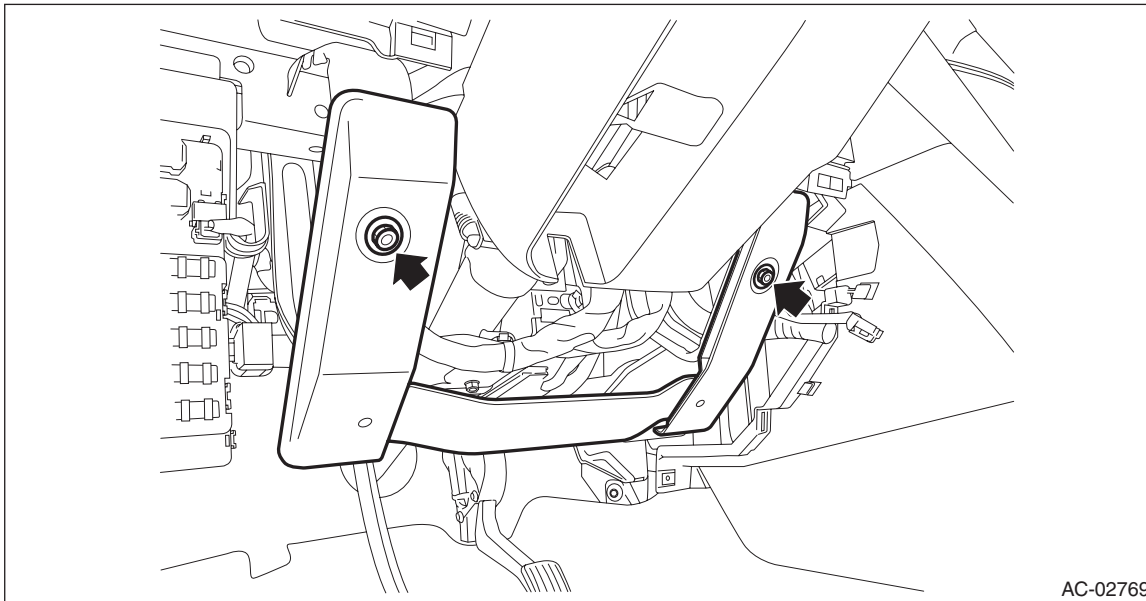


29. Air Mix Door Actuator

A: REMOVAL

1. DRIVER'S SEAT

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

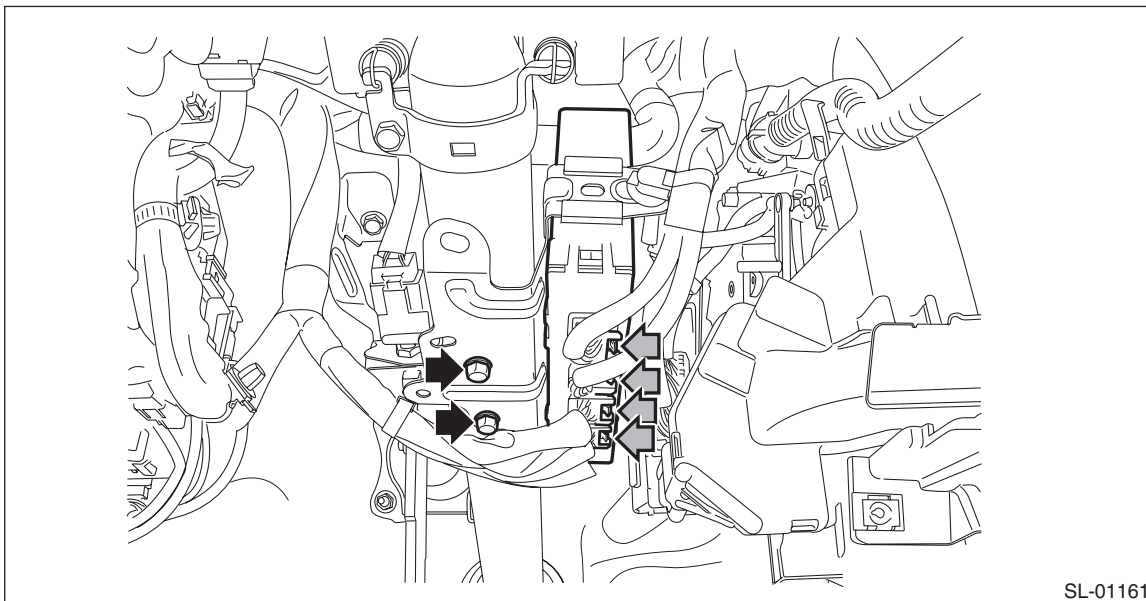


- 3) Remove the body integrated unit.

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.



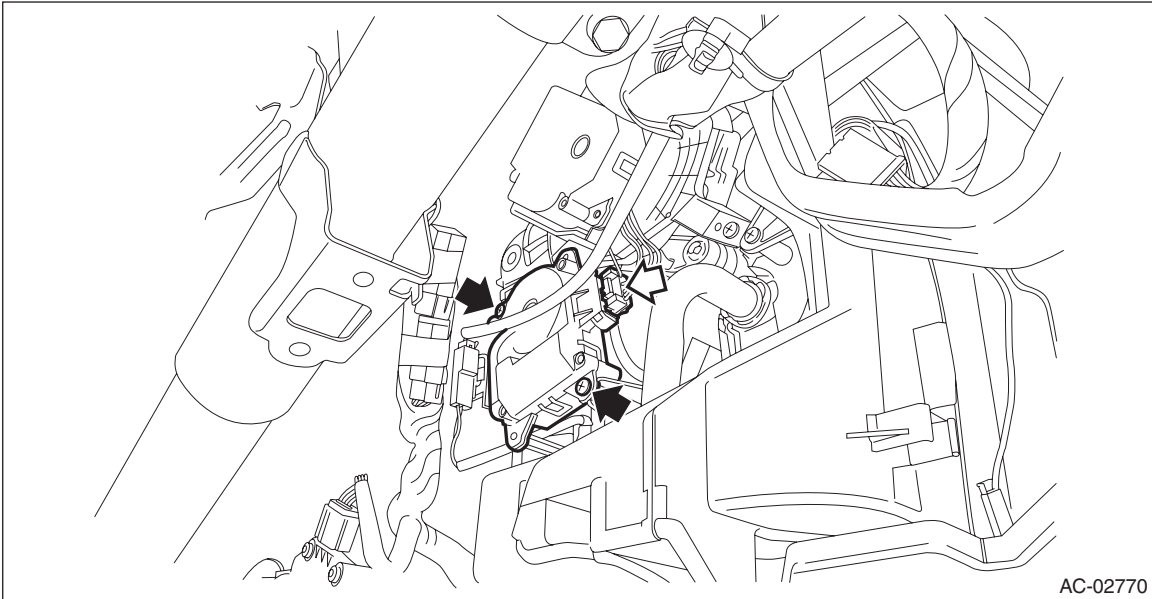
Air Mix Door Actuator

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

4) Remove the air mix door actuator.

(1) Disconnect the connector.

(2) Remove the screw, and remove the air mix door actuator.

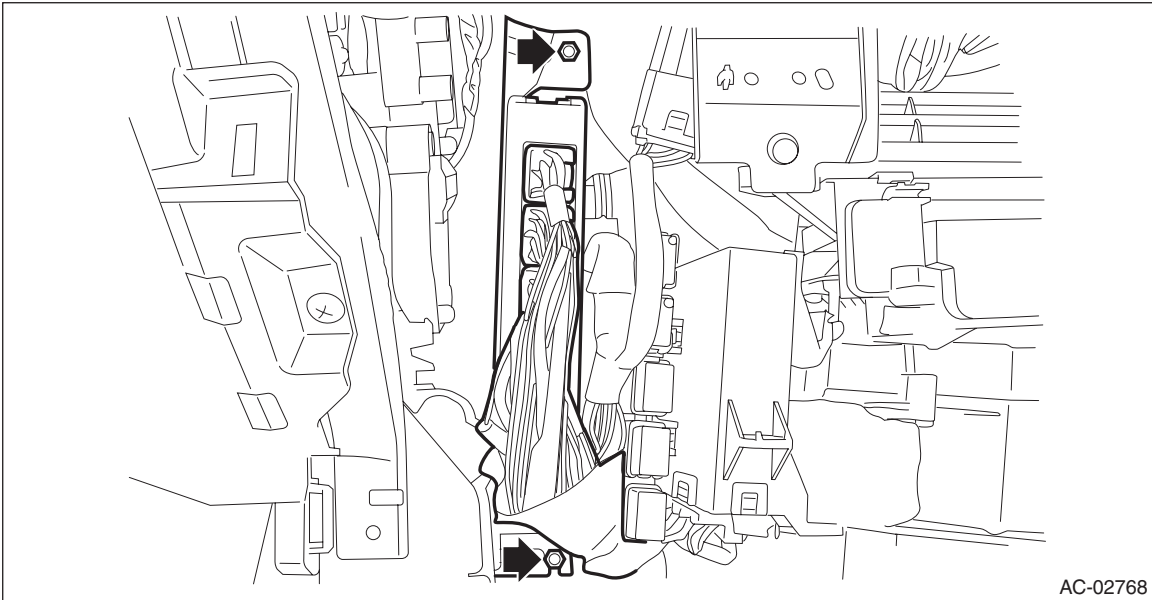


AC-02770

2. PASSENGER'S SEAT

1) Remove the glove box. <Ref. to EI-65, REMOVAL, Glove Box.>

2) Remove the nuts, and remove the engine control module (ECM).

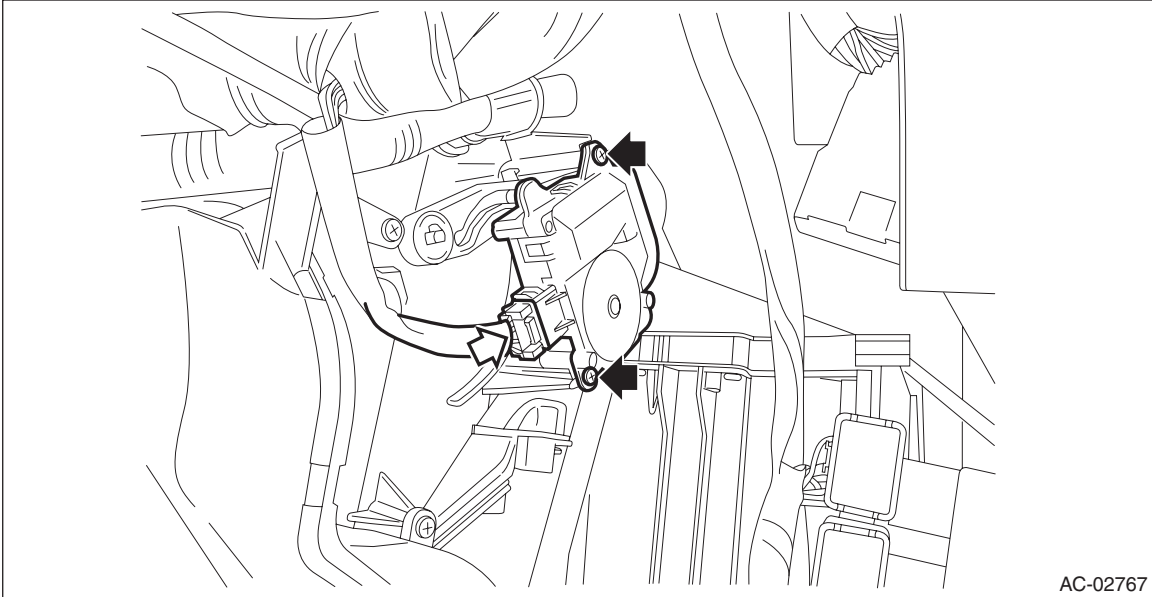


AC-02768

Air Mix Door Actuator

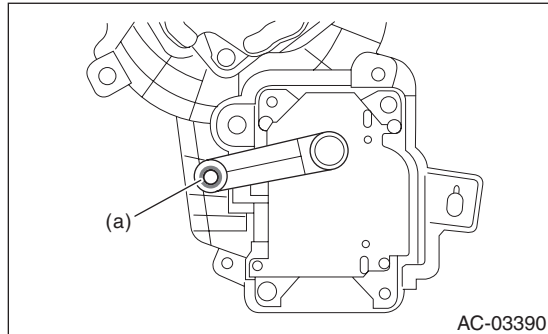
HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

- 3) Remove the air mix door actuator.
 - (1) Disconnect the connector.
 - (2) Remove the screw, and remove the air mix door actuator.



B: INSTALLATION

- 1) When replacing the door actuator with a new part, apply a thin coat of grease evenly to the side face (a) of lever pin by using approx. 5 mm (approx. 0.1 g) of grease squeezed out from a tube.



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.

Air Mix Door Actuator

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

C: INSPECTION

1. ACTUATOR LINK

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

2. CHECK ACTUATOR OPERATION

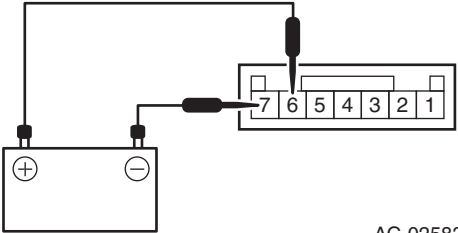
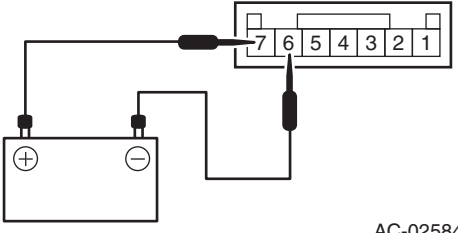
Preparation tool:

Circuit tester

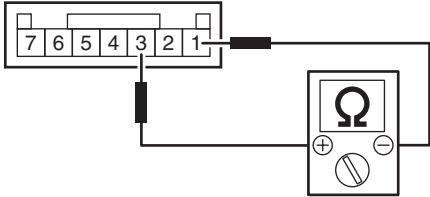
- 1) Check the actuator operation when battery voltage is applied between the terminals of air mix door actuator.

CAUTION:

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

Terminal No.	Inspection conditions	Operating position	Connection diagram
6 (+) — 7 (–)	Connect battery to the terminals	•Driver's seat: COOL •Passenger's seat: HOT	 AC-02583
7 (+) — 6 (–)		•Driver's seat: HOT •Passenger's seat: COOL	 AC-02584

- 2) Check the resistance between terminals of the air mix door actuator.

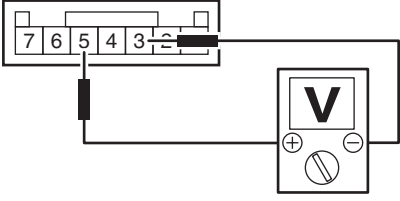
Terminal No.	Inspection conditions	Standard	Connection diagram
1 — 3	Always	4.2 — 7.8 Ω	 AC-02585

Air Mix Door Actuator

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

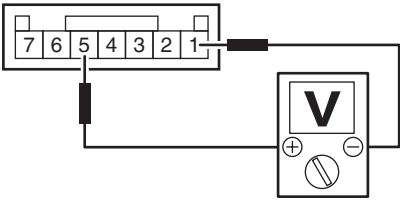
3) Connect the air mix door actuator connector, turn the ignition switch to ON and check the voltage between terminals of the air mix door actuator.

- Driver's seat

Terminal No.	Inspection conditions	Standard	Connection diagram
5 (+) — 3 (–)	HOT	Approx. 1.0 V	
	COOL	Approx. 4.0 V	

AC-02587

- Passenger's seat

Terminal No.	Inspection conditions	Standard	Connection diagram
5 (+) — 1 (–)	HOT	Approx. 1.0 V	
	COOL	Approx. 4.0 V	

AC-02586

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