

## Repair Instructions

### HVAC Unit Components

S7RW0C7106001

For non-A/C and manual A/C, refer to "HVAC Unit Components: Manual Type in Section 7B".

For auto A/C, refer to "HVAC Unit Components: Automatic Type in Section 7B".

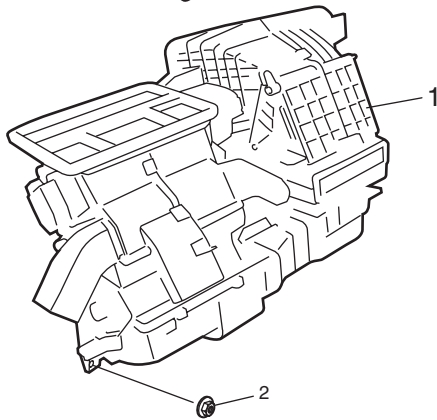
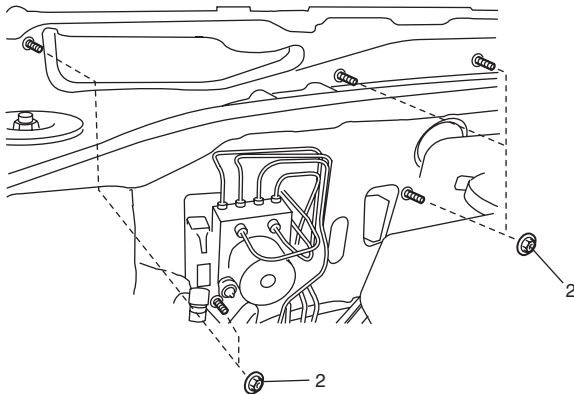
### HVAC Unit Removal and Installation (Non-A/C)

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For manual A/C and auto A/C, refer to "HVAC Unit Removal and Installation: Manual Type in Section 7B".

#### Removal

- 1) Drain engine coolant referring to "Cooling System Draining in Section 1F", and then disconnect heater hoses from HVAC unit.
- 2) Remove cowl top cover from vehicle body referring to "Radiator Grille Removal and Installation in Section 9K".
- 3) Remove instrument panel from vehicle body referring to "Instrument Panel Removal and Installation in Section 9C".
- 4) Remove HVAC unit (1) from vehicle body by removing nuts (2).



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#### Installation

Reverse removal procedure noting the following instructions.

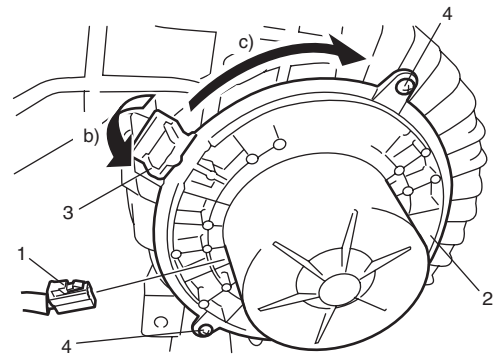
- Be careful not to catch any cable and wiring harness in inappropriate position.
- Adjust control cables of HVAC control unit referring to "HVAC Control Unit Removal and Installation".
- Refill cooling system with coolant referring to "Cooling System Flush and Refill in Section 1F".

### Blower Motor Removal and Installation

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#### Removal

- 1) Disconnect negative (-) cable from battery.
- 2) Disconnect connector (1) from blower motor (2).
- 3) Remove blower motor (2) from HVAC unit as follows.
  - a) Remove screws (4).
  - b) Release tub (3) to arrow direction.
  - c) Hold Step b) and turn blower motor (2) to arrow direction.



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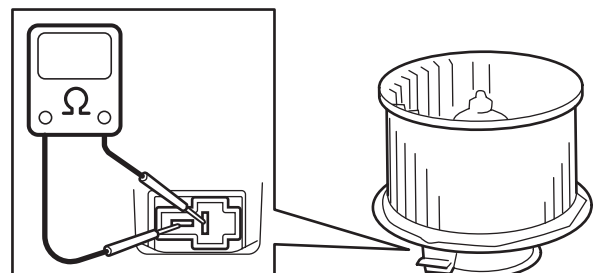
#### Installation

Reverse removal procedure.

### Blower Motor Inspection

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- Check blower motor for resistance between two terminals as shown. If there is no continuity, replace blower motor.

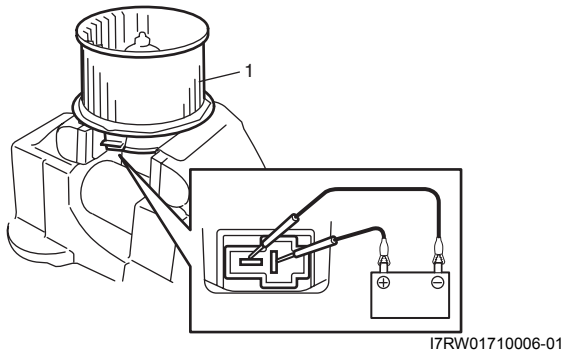


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## 7A-6 Heater and Ventilation:

- Check for operation and current.
  - a. Put blower motor (1) in a soft-jawed vise.
  - b. Connect battery to blower motor as shown.
  - c. Check if blower motor operates smoothly without noise.
  - d. Check if ammeter indicates the specified current. If measured current is out of specification, replace blower motor.

**Blower motor specified current at 12 V**  
**18.5 A maximum at 20 – 25 °C (68 – 77 °F)**

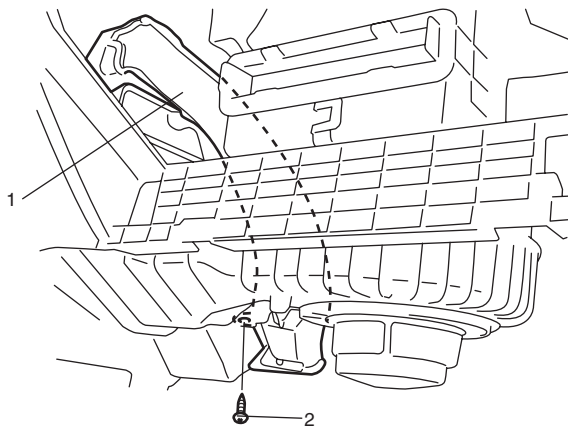


### Blower Motor Resistor Removal and Installation

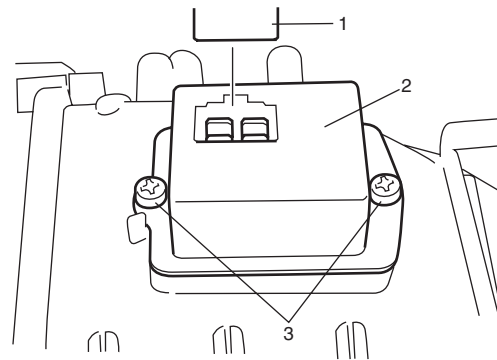
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#### Removal

- 1) Disconnect negative (–) cable from battery.
- 2) Remove glove box from instrument panel.
- 3) Remove passenger side foot duct (1) from HVAC unit by removing screw (2).



- 4) Disconnect connector (1) from blower motor resistor (2), and then remove blower motor resistor from HVAC unit by removing screws (3).



#### Installation

Reverse removal procedure.

#### Blower Motor Resistor Inspection

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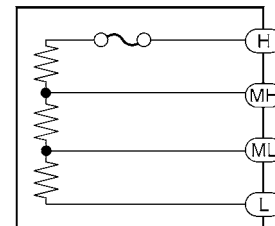
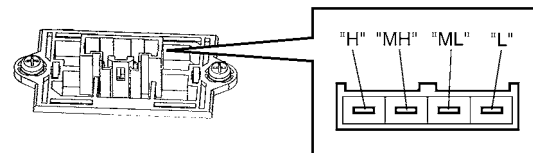
Measure each terminal-to-terminal resistance. If measured resistance is out of specification, replace blower motor resistor.

#### Blower motor resistor resistance

“H” – “MH”: Approx. 0.43  $\Omega$  at 20 – 25 °C (68 – 77 °F)

“MH” – “ML”: Approx. 0.6  $\Omega$  at 20 – 25 °C (68 – 77 °F)

“ML” – “L”: Approx. 2.0  $\Omega$  at 20 – 25 °C (68 – 77 °F)

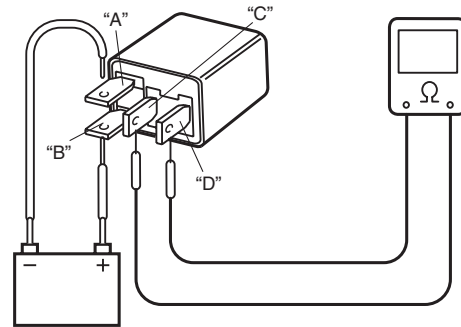
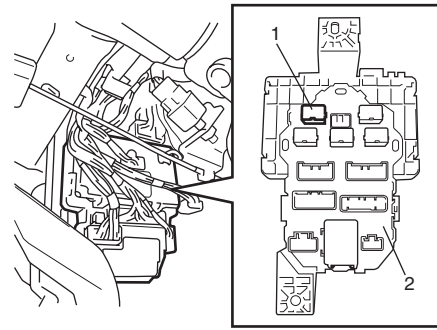


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### Blower Motor Relay Inspection

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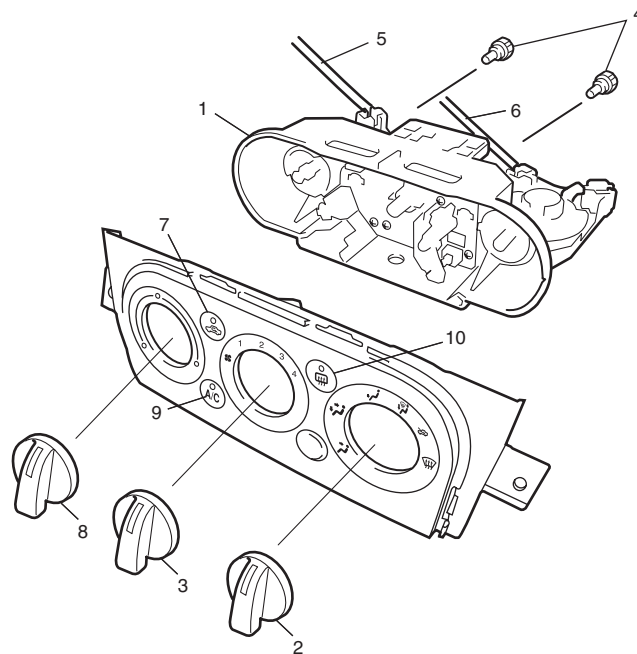
- 1) Disconnect negative (-) cable at battery.
- 2) Disable air bag system referring to “Disabling Air Bag System in Section 8B”.
- 3) Remove junction block assembly (2).
- 4) Disconnect blower motor relay (1) from junction block assembly (2).
- 5) Check that there is no continuity between terminal “C” and “D”. If there is continuity, replace relay.
- 6) Connect battery positive (+) terminal to terminal “B” of relay. Connect battery negative (-) terminal “A” of relay.  
Check continuity between terminal “C” and “D”.  
If there is no continuity when relay is connected to the battery, replace relay.



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### HVAC Control Unit Components

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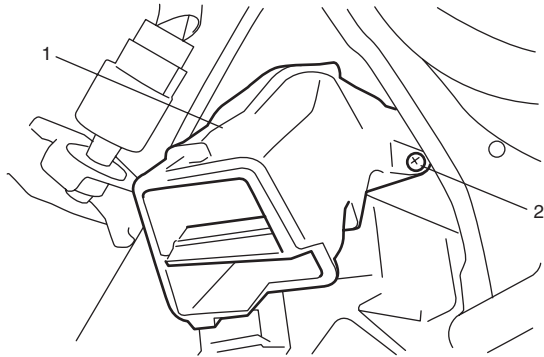
1. Heater control body assembly	4. Bulb	7. Air intake selector	10. Rear defogger switch
2. Air flow selector	5. Temperature control cable	8. Temperature selector	
3. Blower speed selector	6. Air flow control cable	9. A/C switch (if equipped)	

**HVAC Control Unit Removal and Installation**

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**Removal**

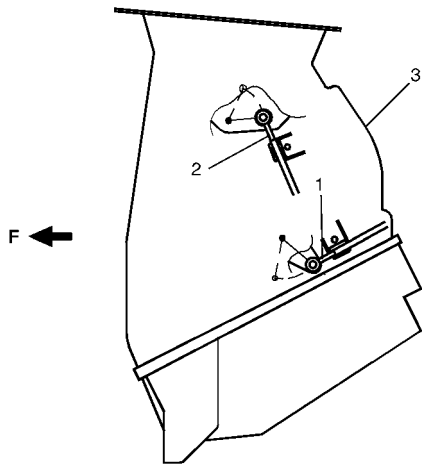
- 1) Disconnect negative (-) cable at battery.
- 2) Remove steering column hole cover from instrument panel.
- 3) Remove audio unit from instrument panel referring to "Audio Unit Removal and Installation (If Equipped) in Section 9C".
- 4) Remove driver side foot duct (1) from HVAC unit by removing screw (2).



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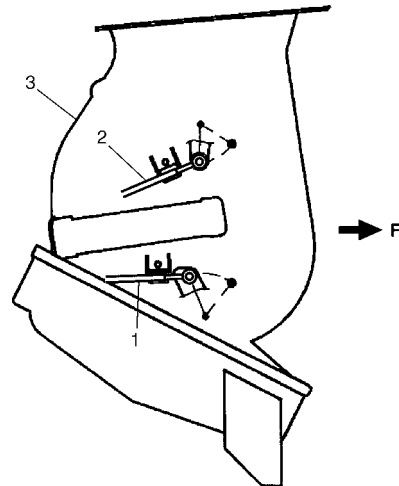
- 5) Disconnect temperature control cable (1) and air flow control cable (2) from HVAC unit (3).

**LH steering vehicle**



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**RH steering vehicle**



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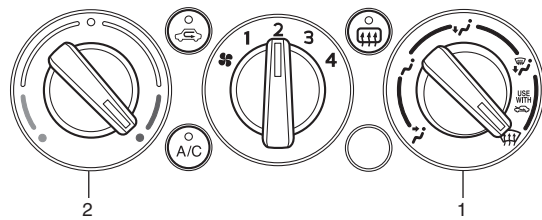
F: Vehicle forward

- 6) Remove center garnish from instrument panel.
- 7) Remove HVAC control unit from instrument panel.
- 8) Disconnect connectors from HVAC control unit.

**Installation**

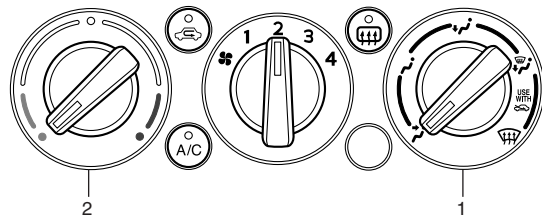
Reverse removal procedure noting the following instructions.

- Connect temperature control cable and air flow control cable of HVAC control unit to links of HVAC unit.
  - a. For LH steering vehicle, set airflow selector (1) to "DEF" position and temperature selector (2) to "MAX HOT" position.



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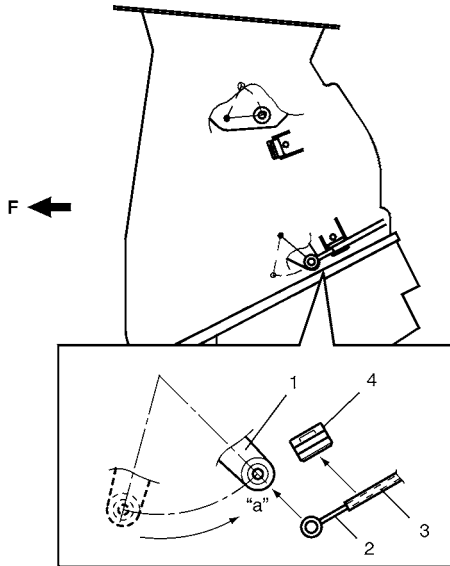
For RH steering vehicle, set airflow selector (1) to "VENT" position and temperature selector (2) to "MAX COOL" position.



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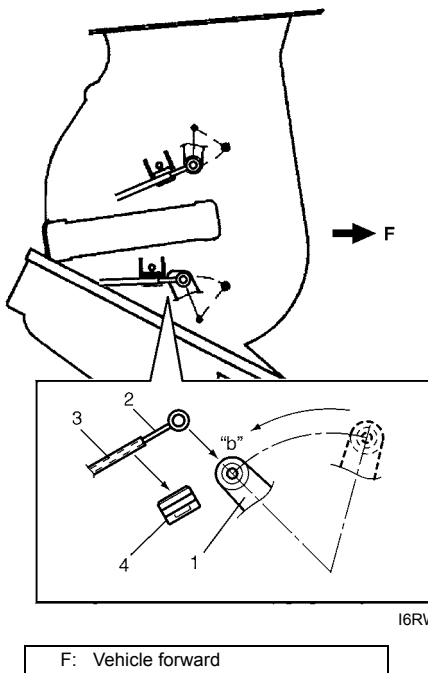
- b. Move temperature control lever (1) to "MAX HOT" position "a" (LH steering vehicle) or "MAX COOL" position "b" (RH steering vehicle), then fix temperature control inner cable (2) to pin of temperature control lever and fix outer cable (3) to cable lock clamp (4).

**LH steering vehicle**



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**RH steering vehicle**

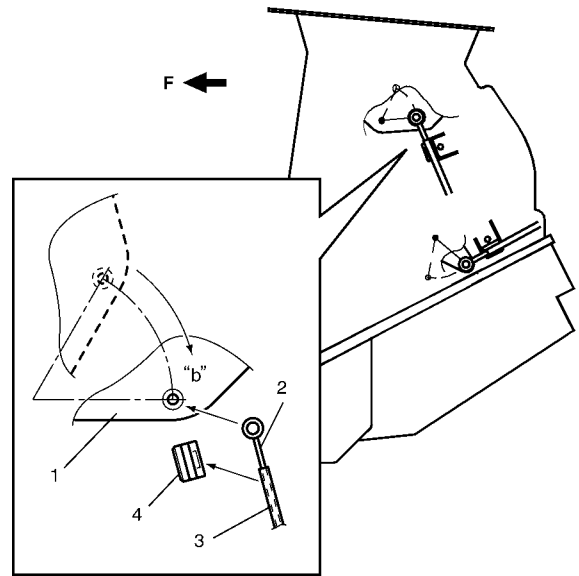


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F: Vehicle forward

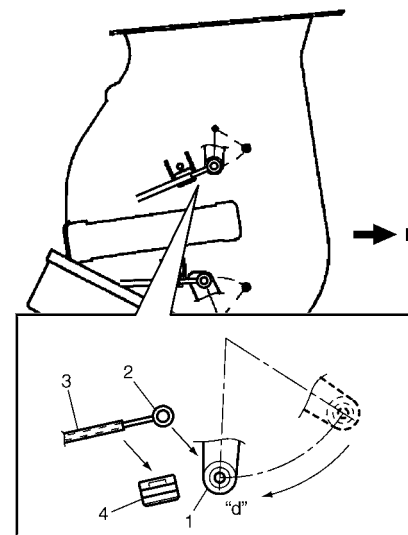
- c. Move air flow control plate (1) to "DEF" position "c" (LH steering vehicle) or "VENT" position "d" (RH steering vehicle), then fix air flow control inner cable (2) to pin of air flow control plate and fix outer cable (3) to cable lock clamp (4).

**LH steering vehicle**



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**RH steering vehicle**



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F: Vehicle forward

**NOTE**

After installing control cables, make sure that control lever and plate move smoothly and stop at proper position.

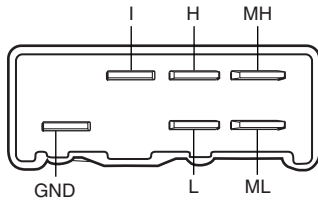
- Make sure that air flow outlet changes correctly as air flow selector is changed.

## 7A-10 Heater and Ventilation:

### Blower Speed Selector Inspection

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Check blower speed selector for each terminal to terminal continuity. If check result does not meet the following conditions, replace HVAC control unit.



Terminal Position	GND	I	L	ML	MH	H
OFF	○					
1	○	○	○			
2	○	○		○		
3	○	○			○	
4	○	○				○

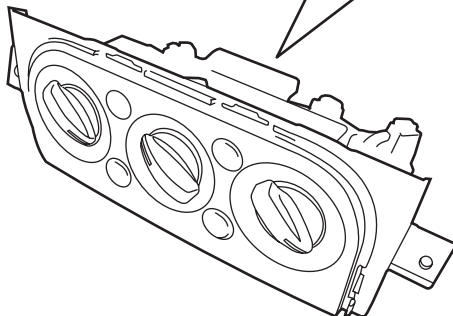
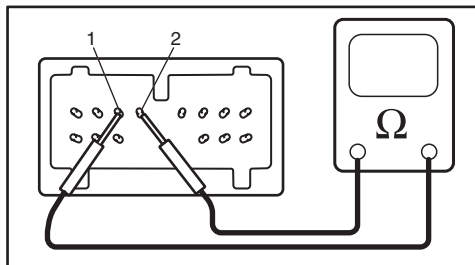
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### Air Intake Selector Inspection

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- Check that there is continuity between terminal (1) and terminal (2) when air intake selector is at "FRE" position.
- Check that there is no continuity between terminal (1) and terminal (2) when air intake selector is at "REC" position.

If check result does not meet the above conditions, replace HVAC control unit.



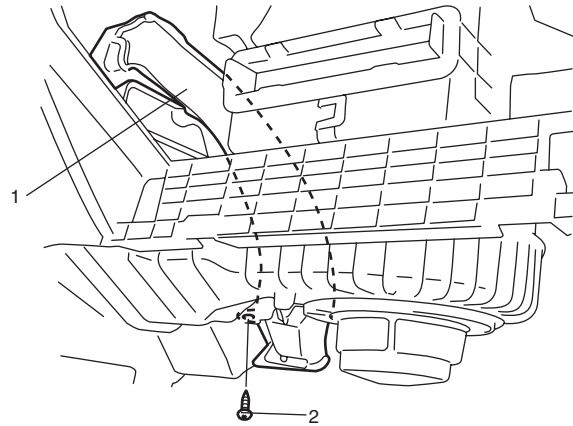
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### Air Intake Control Actuator Removal and Installation

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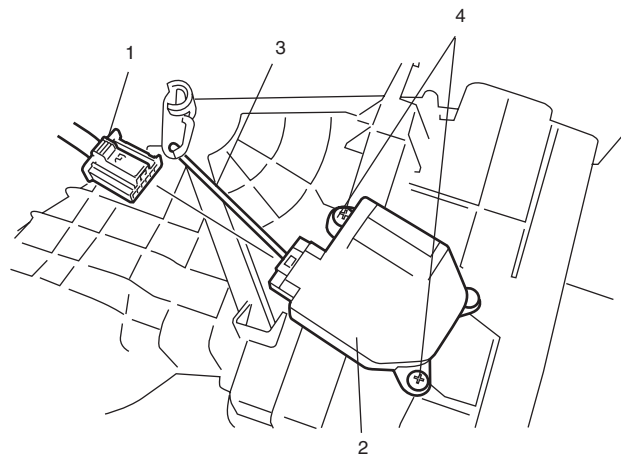
#### Removal

- 1) Disconnect negative cable from battery.
- 2) Remove glove box from instrument panel.
- 3) Remove passenger side foot duct (1) from HVAC unit by removing screw (2). (LH steering vehicle only.)



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- 4) Disconnect connector (1) from air intake control actuator (2).
- 5) Detach linkage rod (3) and remove air intake control actuator (2) by removing screws (4).



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### Center Ventilation Louver Removal and Installation

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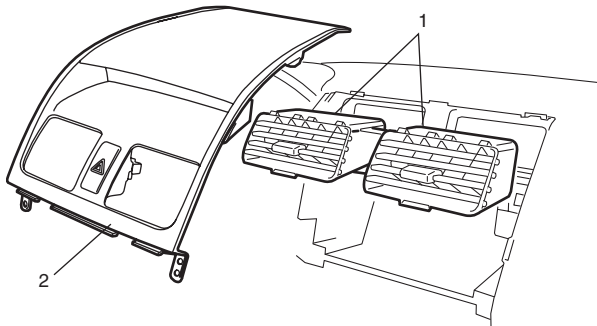
#### Removal

- 1) Disconnect negative (-) cable from battery.
- 2) Remove audio unit from instrument panel referring to "Audio Unit Removal and Installation (If Equipped) in Section 9C".
- 3) Remove center ventilation louver (1) with garnish (2) from instrument panel, and then disconnect connector from hazard switch.

#### NOTE

**Garnish is fitted to instrument panel with six clips. When removing garnish from instrument panel, be careful not to break them.**

- 4) Separate center ventilation louver and garnish.



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#### Installation

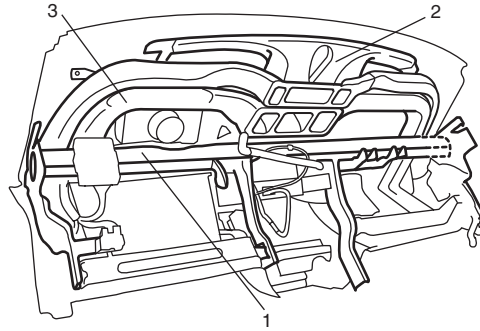
Reverse removal procedure.

### Side Ventilation Louver Removal and Installation

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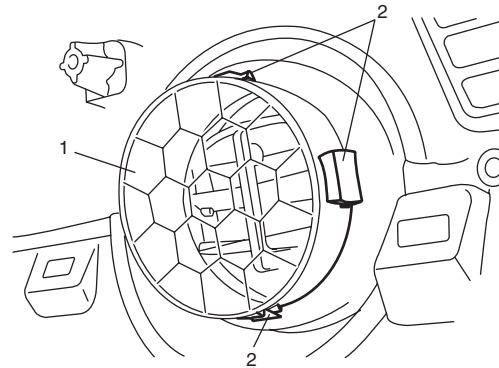
#### Removal

- 1) Remove instrument panel from vehicle body referring to "Instrument Panel Removal and Installation in Section 9C"
- 2) Remove steering support member (1), defroster nozzle (2) and ventilator duct (3) from instrument panel.



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- 3) Remove side ventilation louver (1) from instrument panel while pressing clips (2).

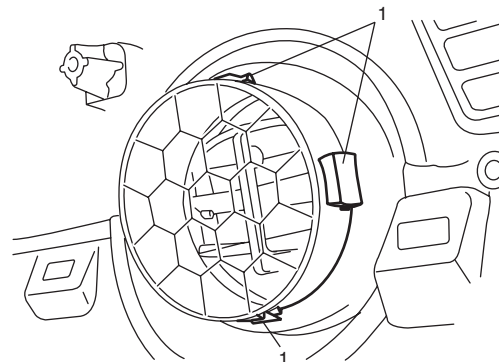


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#### Installation

Reverse removal procedure noting the following instruction.

- Side ventilation louver is fitted to instrument panel with four clips (1). When installing side ventilation louver to instrument panel, position the smallest clip to the top.

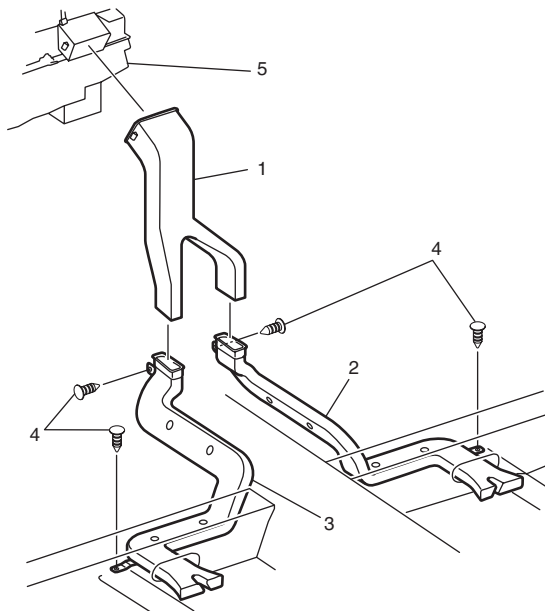


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## Rear Duct Removal and Installation (If Equipped)

S7RW0C7106016



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1. Center rear duct	4. Clip
2. Right rear duct	5. HVAC unit
3. Left rear duct	

### Removal

- 1) Disconnect negative (-) cable at battery.
- 2) Remove front seats referring to "Front Seat Removal and Installation in Section 9G".
- 3) Remove console box referring to "Console Box Components in Section 9H".
- 4) Take off carpet till rear ducts is totally exposed.
- 5) Remove right and left rear ducts.
- 6) Remove center rear duct as follows, if necessary.
  - a) Remove HVAC control unit referring to "HVAC Control Unit Removal and Installation" (non-A/C or manual A/C) or "HVAC Control Module Removal and Installation: Automatic Type in Section 7B" (auto A/C).
  - b) Remove center rear duct from HVAC unit.

### Installation

Reverse removal procedure noting the following instructions.

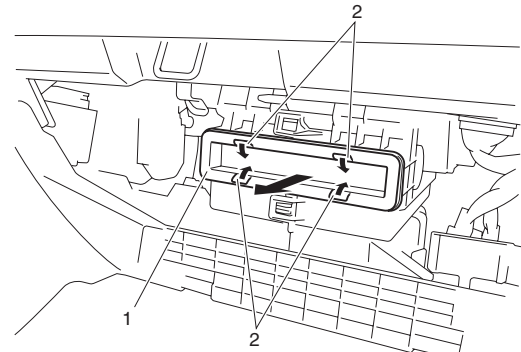
- Install HVAC control unit referring to "HVAC Control Unit Removal and Installation" (non-A/C or manual A/C) or "HVAC Control Module Removal and Installation: Automatic Type in Section 7B" (auto A/C), if removed.
- Install console box referring to "Console Box Components in Section 9H".
- Install front seats referring to "Front Seat Removal and Installation in Section 9G".

## HVAC Air Filter Removal and Installation (If Equipped)

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### Removal

- 1) Remove glove box from instrument panel.
- 2) Remove air filter (1) from HVAC unit while releasing claws (2).

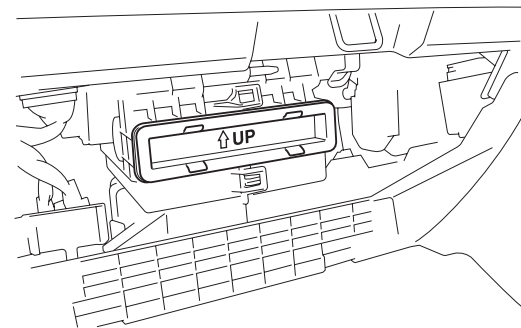


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### Installation

Reverse removal procedure noting the following instructions.

- Position air filter by directing its arrow mark to the upward.



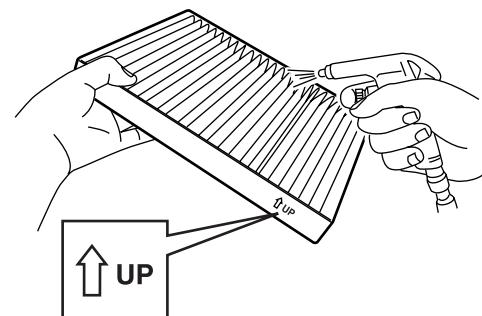
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## HVAC Air Filter Inspection (If Equipped)

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Reference: "HVAC Air Filter Removal and Installation (If Equipped)"

Check that filter is not excessively dirty, damage or oily, clean filter with compressed air from air outlet side of filter. If abnormality is found, replace filter with new one.



I4RS0A710032-01