

**SECTION** **VTL**  
**VENTILATION SYSTEM**

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# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

#### Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000006753025

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

The vehicle may be equipped with a passenger air bag deactivation switch. Because no rear seat exists where a rear-facing child restraint can be placed, the switch is designed to turn off the passenger air bag so that a rear-facing child restraint can be used in the front passenger seat. The switch is located in the center of the instrument panel, near the ashtray. When the switch is turned to the ON position, the passenger air bag is enabled and could inflate for certain types of collision. When the switch is turned to the OFF position, the passenger air bag is disabled and will not inflate. A passenger air bag OFF indicator on the instrument panel lights up when the passenger air bag is switched OFF. The driver air bag always remains enabled and is not affected by the passenger air bag deactivation switch.

#### **WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.
- The vehicle may be equipped with a passenger air bag deactivation switch which can be operated by the customer. When the passenger air bag is switched OFF, the passenger air bag is disabled and will not inflate. When the passenger air bag is switched ON, the passenger air bag is enabled and could inflate for certain types of collision. After SRS maintenance or repair, make sure the passenger air bag deactivation switch is in the same position (ON or OFF) as when the vehicle arrived for service.

#### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

#### **WARNING:**

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

#### Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000006753027

#### **NOTE:**

- Before removing and installing any control units, first turn the ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

# PRECAUTIONS

< PRECAUTION >

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## OPERATION PROCEDURE

1. Connect both battery cables. A  
**NOTE:**  
Supply power using jumper cables if battery is discharged.
2. Turn the ignition switch to ACC position. B  
(At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned. C
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.) D
6. Perform self-diagnosis check of all control units using CONSULT-III. E

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# PREPARATION

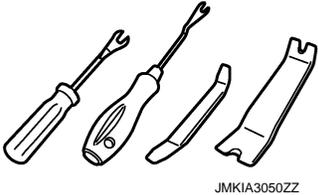
< PREPARATION >

## PREPARATION

### PREPARATION

Commercial Service Tool

INFOID:000000006485566

Tool name	Description
Remover tool  JMKIA3050ZZ	Remove clips, pawls, and metal clips

# VENTILATION SYSTEM

< SYSTEM DESCRIPTION >

## SYSTEM DESCRIPTION

### VENTILATION SYSTEM

#### System Description

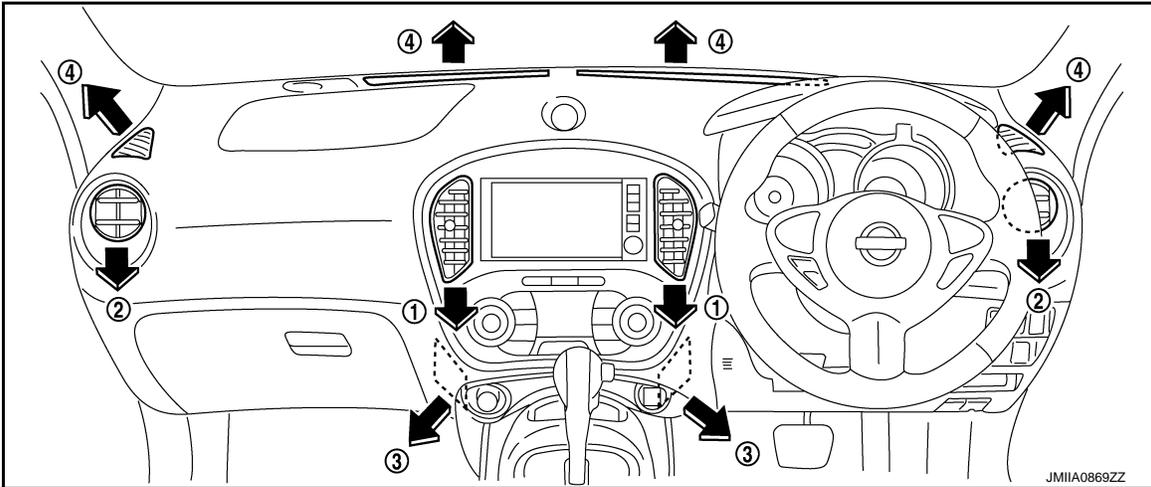
INFOID:000000006485567

#### OUTLINE

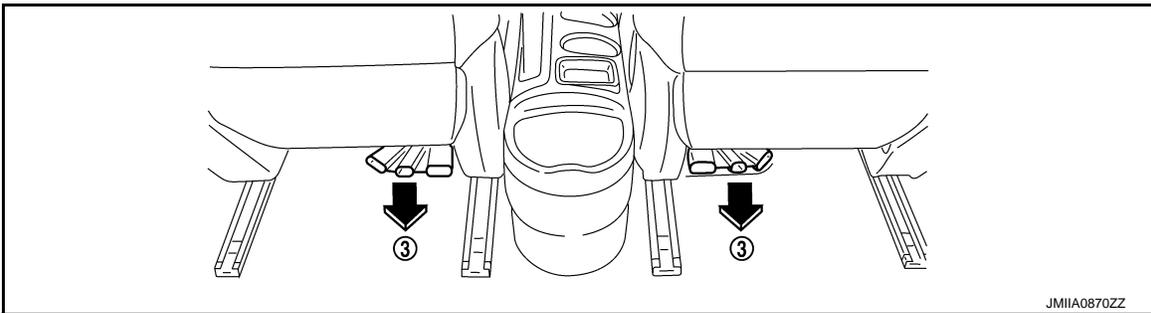
Ventilation system is controlled by A/C auto amp. (AUTOMATIC AIR CONDITIONING) or A/C control (MANUAL AIR CONDITIONING and MANUAL HEATER). For details of air conditioner system, refer to [HAC-17, "System Description"](#) (AUTOMATIC AIR CONDITIONING), [HAC-203, "System Description"](#) (MANUAL AIR CONDITIONING) or [HAC-315, "System Description"](#) (MANUAL HEATER).

#### AIR FLOW

Front



Rear



With rear heater duct

x: Applicable

MODE/DEF position indication	AIR OUTRET				
	Ventilator		Foot		Defroster (4)
	Center (1)	Side (2)	Front (3)	Rear (3)	
	x	x	—	—	—
	x	x	x	x	—
	—	x	x	x	x
	—	x	x	x	x
	—	x	—	—	x

Without rear heater duct

# VENTILATION SYSTEM

< SYSTEM DESCRIPTION >

MODE/DEF position in- dication	AIR OUTRET			
	Ventilator		Foot (3)	Defroster (4)
	Center (1)	Side (2)		
	×	×	—	—
	×	×	×	—
	—	×	×	×
	—	×	×	×
	—	×	—	×

# DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

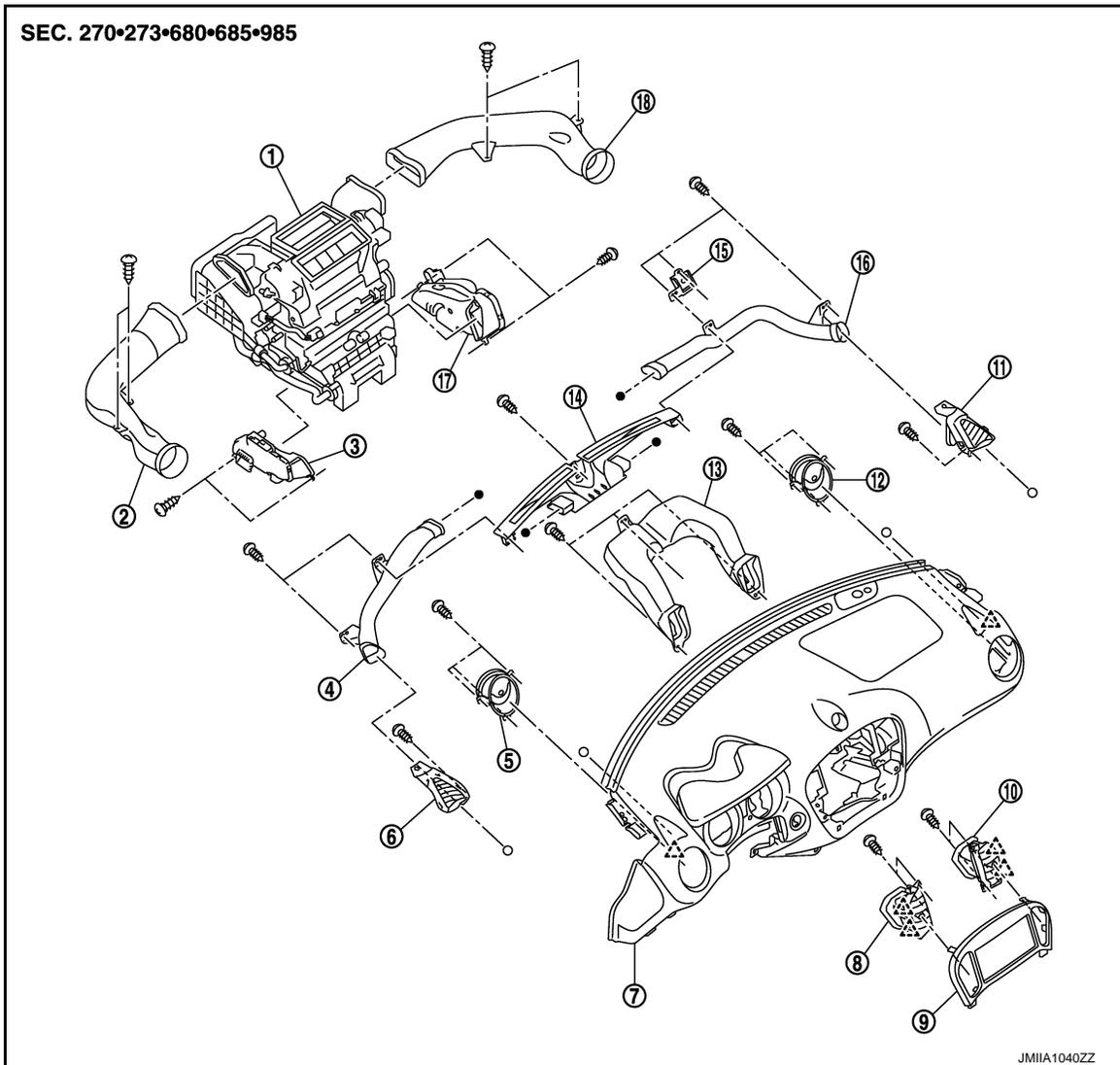
### DUCT AND GRILLE

Exploded View

INFOID:000000006485568

FRONT

LHD models



- |                                 |                                |                               |
|---------------------------------|--------------------------------|-------------------------------|
| 1. A/C unit assembly            | 2. Side ventilator duct LH     | 3. Foot duct LH               |
| 4. Side defroster nozzle LH     | 5. Side ventilator grille LH   | 6. Side defroster grille LH   |
| 7. Instrument panel assembly    | 8. Center ventilator grille LH | 9. Cluster lid C              |
| 10. Center ventilator grille RH | 11. Side defroster grille RH   | 12. Side ventilator grille RH |
| 13. Center ventilator duct      | 14. Front defroster nozzle     | 15. Instrument panel bracket  |
| 16. Side defroster nozzle RH    | 17. Foot duct RH               | 18. Side ventilator duct RH   |

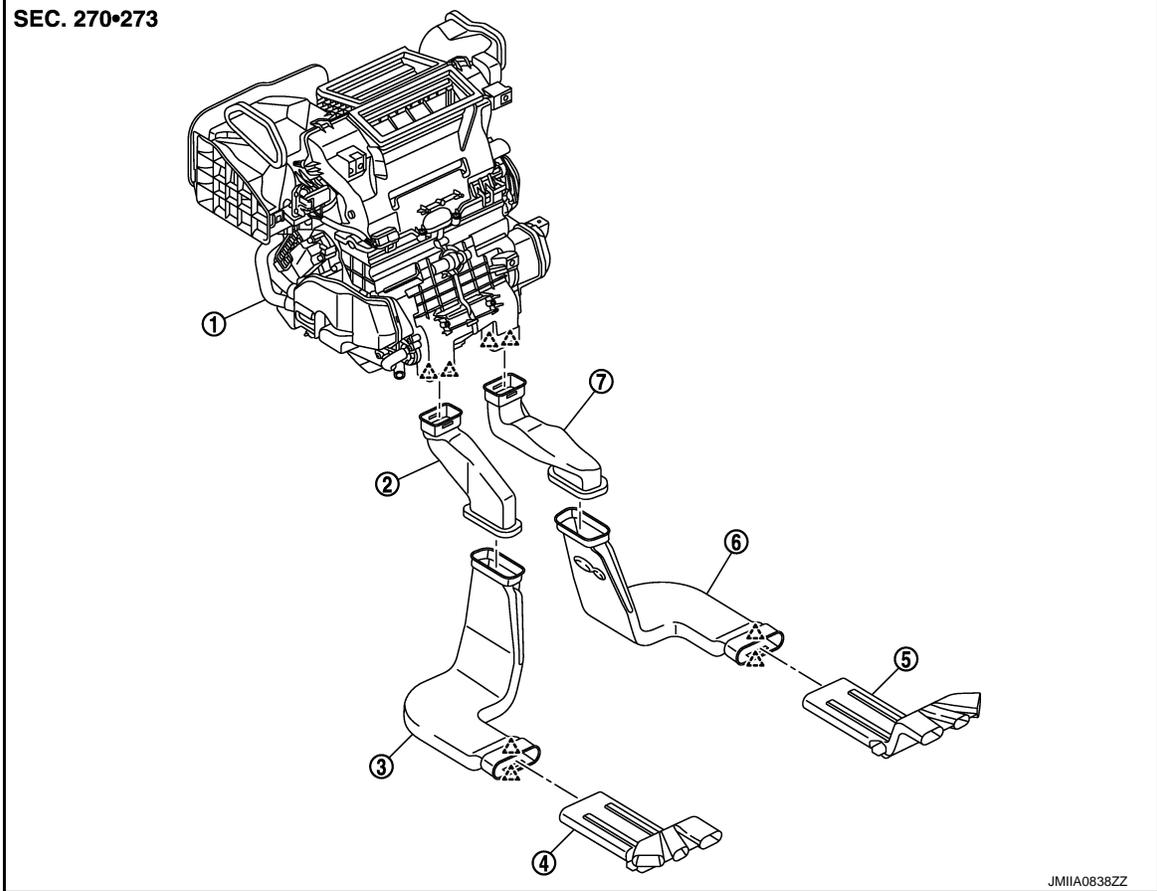
△ : Pawl

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# DUCT AND GRILLE

< REMOVAL AND INSTALLATION >



- |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|
| 1. A/C unit assembly      | 2. Rear heater duct 1 LH* | 3. Rear heater duct 2 LH* |
| 4. Rear heater duct 3 LH* | 5. Rear heater duct 1 RH* | 6. Rear heater duct 2 RH* |
| 7. Rear heater duct 3 RH* |                           |                           |

 : Pawl

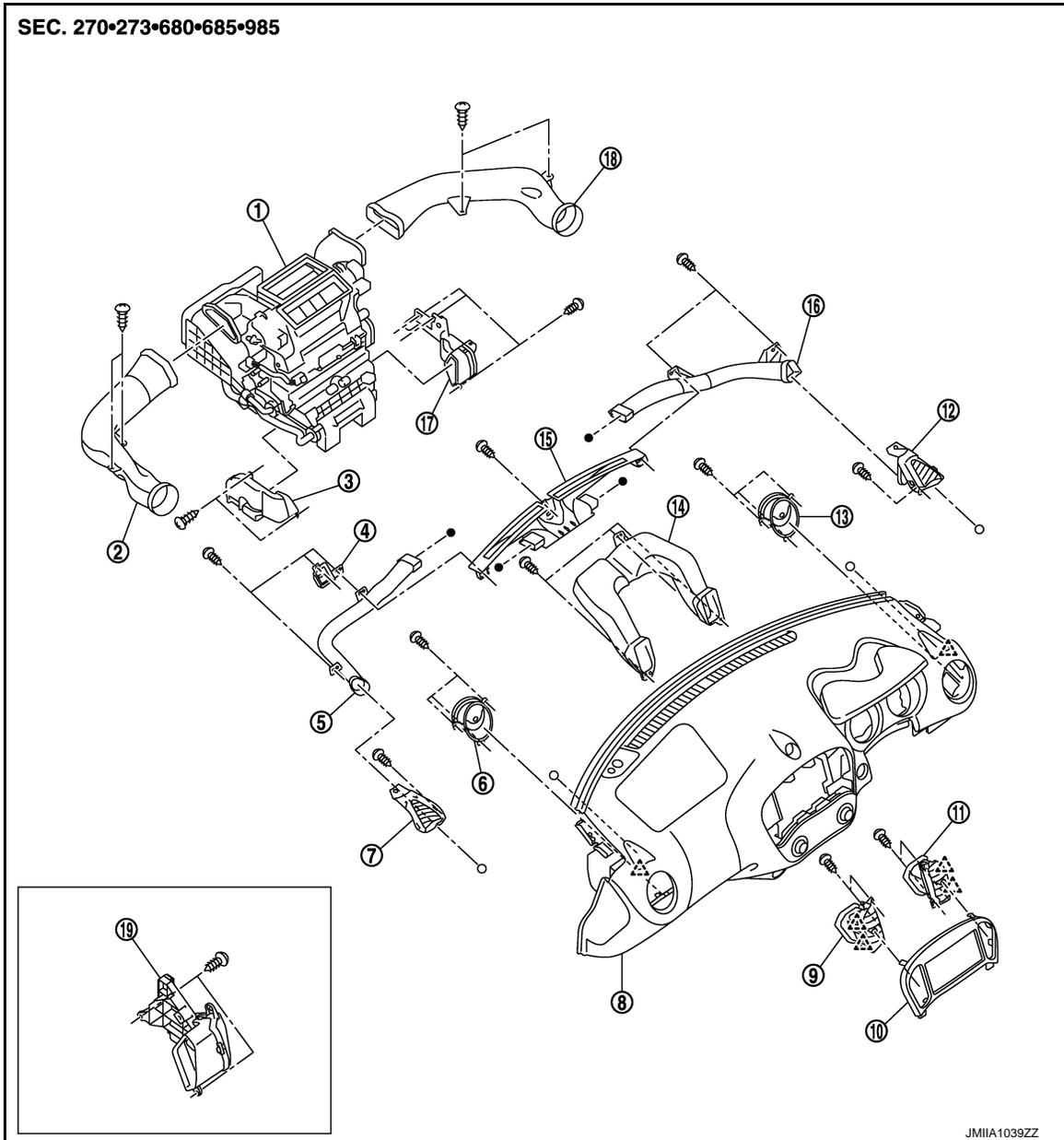
\*: Only LHD models for cold areas.

FRONT

# DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

RHD models



- |                               |                                 |                                |
|-------------------------------|---------------------------------|--------------------------------|
| 1. A/C unit assembly          | 2. Side ventilator duct LH      | 3. Foot duct LH                |
| 4. Instrument panel bracket   | 5. Side defroster nozzle LH     | 6. Side ventilator grille LH   |
| 7. Side defroster grille LH   | 8. Instrument panel assembly    | 9. Center ventilator grille LH |
| 10. Cluster lid C             | 11. Center ventilator grille RH | 12. Side defroster grille RH   |
| 13. Side ventilator grille RH | 14. Center ventilator duct      | 15. Front defroster nozzle     |
| 16. Side defroster nozzle RH  | 17. Foot duct RH                | 18. Side ventilator duct RH    |
| 19. Foot duct RH (2WD models) |                                 |                                |

 : Pawl

## CENTER VENTILATOR GRILLE

### CENTER VENTILATOR GRILLE : Removal and Installation

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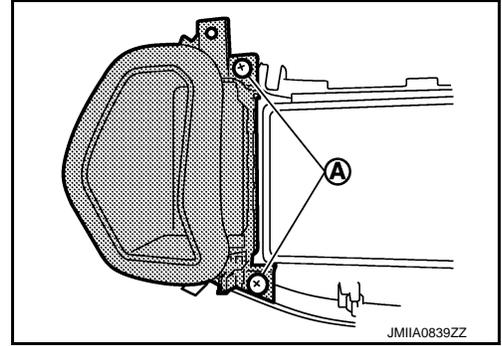
#### REMOVAL

1. Remove cluster lid C. Refer to [IP-13, "Removal and Installation"](#).

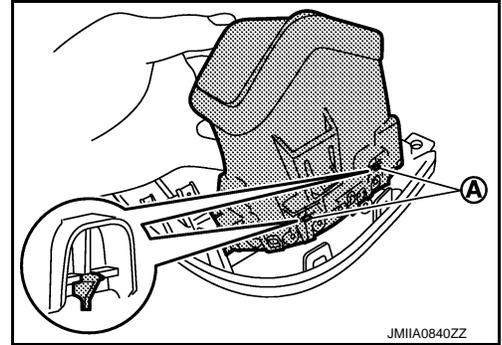
## DUCT AND GRILLE

### < REMOVAL AND INSTALLATION >

2. Remove fixing screws (A).



3. Disengage fixing pawls (A), and then remove center ventilator grille from cluster lid C.



### INSTALLATION

Install in the reverse order of removal.

### SIDE DEFROSTER NOZZLE

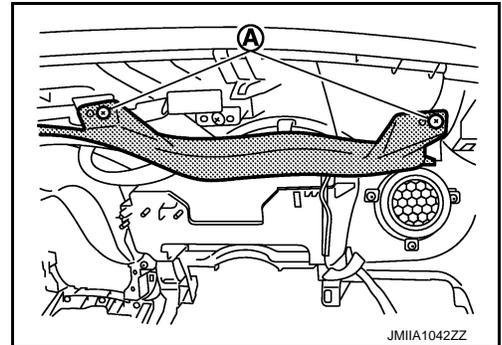
### SIDE DEFROSTER NOZZLE : Removal and Installation

INFOID:000000006486706

### REMOVAL

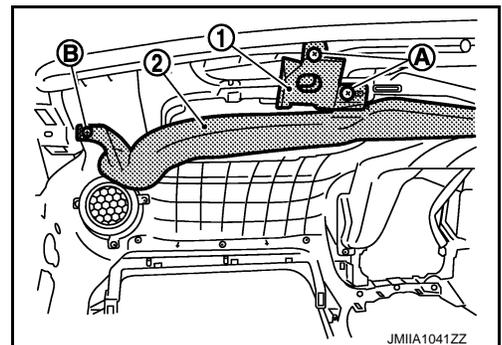
Driver side

1. Remove instrument panel assembly. Refer to [IP-13. "Removal and Installation"](#).
2. Remove fixing screws (A), and then remove side defroster nozzle from instrument panel assembly.



Passenger side

1. Remove instrument panel assembly. Refer to [IP-13. "Removal and Installation"](#).
2. Remove fixing screws (A), and then remove instrument panel bracket (1).
3. Remove fixing screw (B), and then remove side defroster nozzle (2) from instrument panel assembly.



# DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

## INSTALLATION

Install in the reverse order of removal.

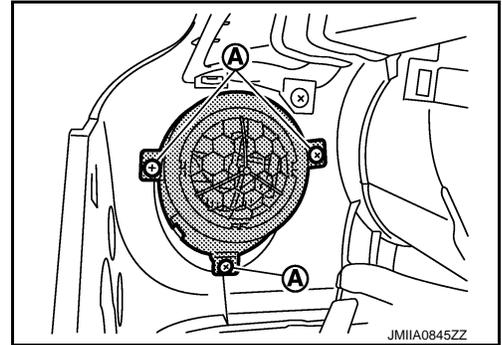
### SIDE VENTILATOR GRILLE

#### SIDE VENTILATOR GRILLE : Removal and Installation

INFOID:000000006485570

#### REMOVAL

1. Remove instrument panel assembly. Refer to [IP-13, "Removal and Installation"](#).
2. Remove fixing screws (A), and then remove side ventilator grille from instrument panel assembly.



#### INSTALLATION

Install in the reverse order of removal.

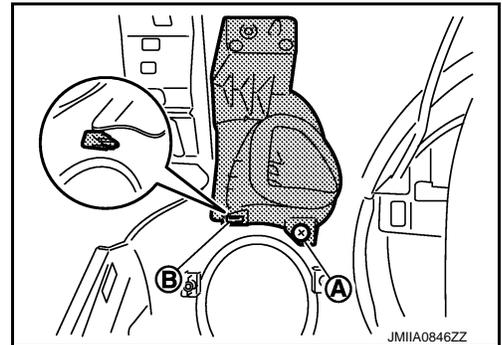
### SIDE DEFROSTER GRILLE

#### SIDE DEFROSTER GRILLE : Removal and Installation

INFOID:000000006486707

#### REMOVAL

1. Remove instrument panel assembly. Refer to [IP-13, "Removal and Installation"](#).
2. Remove side defroster nozzle. Refer to [VTL-10, "SIDE DEFROSTER NOZZLE : Removal and Installation"](#).
3. Remove fixing screw (A) and disengage fixing pawl (B), and then remove side defroster grille from instrument panel assembly.



#### INSTALLATION

Install in the reverse order of removal.

### FRONT DEFROSTER NOZZLE

#### FRONT DEFROSTER NOZZLE : Removal and Installation

INFOID:000000006486708

#### REMOVAL

1. Remove instrument panel assembly. Refer to [IP-13, "Removal and Installation"](#).
2. Remove side defroster nozzle. Refer to [VTL-10, "SIDE DEFROSTER NOZZLE : Removal and Installation"](#).

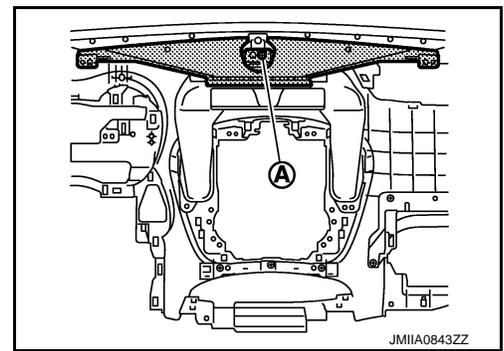
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VTL

# DUCT AND GRILLE

## < REMOVAL AND INSTALLATION >

3. Remove fixing screw (A), and then remove front defroster nozzle from instrument panel assembly.



## INSTALLATION

Install in the reverse order of removal.

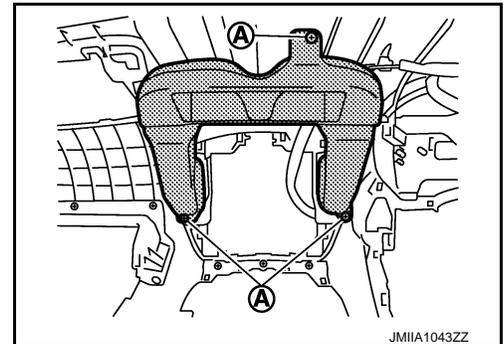
## CENTER VENTILATOR DUCT

### CENTER VENTILATOR DUCT : Removal and Installation

INFOID:00000000648571

## REMOVAL

1. Remove instrument panel assembly. Refer to [IP-13, "Removal and Installation"](#).
2. Remove side defroster nozzle (LH and RH). Refer to [VTL-10, "SIDE DEFROSTER NOZZLE : Removal and Installation"](#).
3. Remove front defroster nozzle. Refer to [VTL-11, "FRONT DEFROSTER NOZZLE : Removal and Installation"](#).
4. Remove fixing screws (A), and then remove center ventilator duct from instrument panel assembly.



## INSTALLATION

Install in the reverse order of removal.

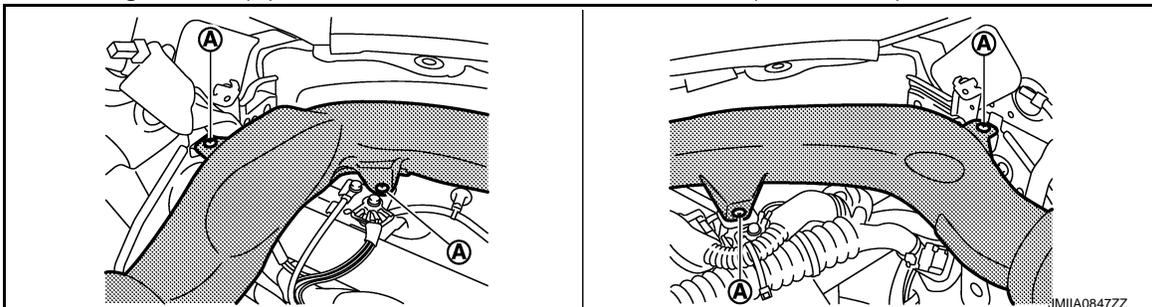
## SIDE VENTILATOR DUCT

### SIDE VENTILATOR DUCT : Removal and Installation

INFOID:000000006486709

## REMOVAL

1. Remove instrument panel assembly. Refer to [IP-13, "Removal and Installation"](#).
2. Remove fixing screws (A), and then remove side ventilator duct (LH and RH) from the vehicle.



## INSTALLATION

Install in the reverse order of removal.

# DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

## REAR HEATER DUCT 1

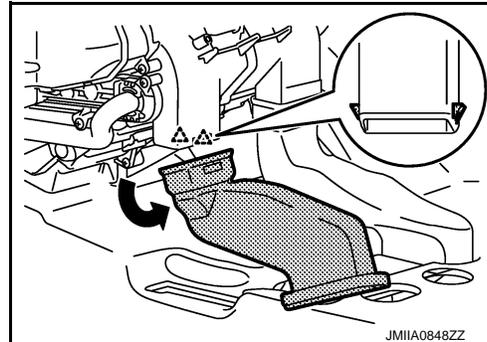
### REAR HEATER DUCT 1 : Removal and Installation

INFOID:000000006486715

#### REMOVAL

1. Remove center console assembly. Refer to [IP-23. "Removal and Installation"](#).
2. Disengage fixing pawls, and then remove rear heater duct 1 (LH and RH) from A/C unit assembly.

 : Pawl



#### INSTALLATION

Install in the reverse order of removal.

## REAR HEATER DUCT 2

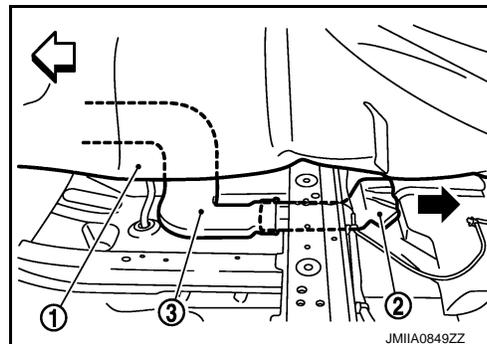
### REAR HEATER DUCT 2 : Removal and Installation

INFOID:000000006486716

#### REMOVAL

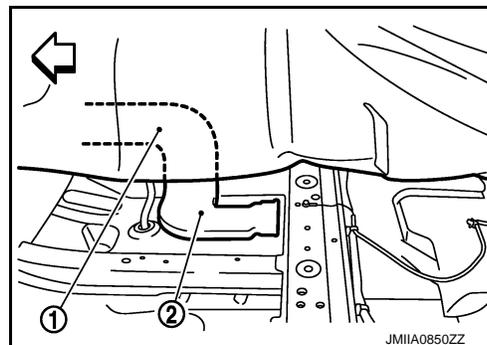
1. Remove center console assembly. Refer to [IP-23. "Removal and Installation"](#).
2. Remove front seat assmby. Refer to [SE-19. "Removal and Installation"](#).
3. Remove front kicking plate inner and rear kicking plate inner. Refer to [INT-19. "KICKING PLATE INNER : Removal and Installation"](#).
4. Remove center pillar lower garnish. Refer to [INT-20. "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).
5. Remove dash side finisher. Refer to [INT-20. "DASH SIDE FINISHER : Removal and Installation"](#).
6. Remove rear heater duct 2.
  - Peel off floor carpet (1).
  - Remove rear heater duct 3 (2) from rear heater duct 2 (3).

 : Vehicle front



- Remove front floor spacer, and then remove rear heater duct 2 (2) from rear heater duct 1 (1).

 : Vehicle front



#### INSTALLATION

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# DUCT AND GRILLE

## < REMOVAL AND INSTALLATION >

Install in the reverse order of removal.

### REAR HEATER DUCT 3

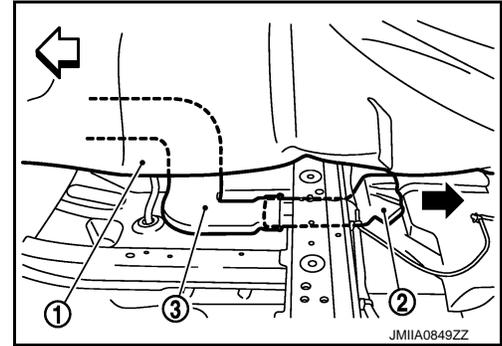
#### REAR HEATER DUCT 3 : Removal and Installation

INFOID:000000006486717

##### REMOVAL

1. Remove center console assembly. Refer to [IP-23, "Removal and Installation"](#).
2. Remove front seat assembly. Refer to [SE-19, "Removal and Installation"](#).
3. Remove front kicking plate inner and rear kicking plate inner. Refer to [INT-19, "KICKING PLATE INNER : Removal and Installation"](#).
4. Remove center pillar lower garnish. Refer to [INT-20, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).
5. Remove dash side finisher. Refer to [INT-20, "DASH SIDE FINISHER : Removal and Installation"](#).
6. Remove rear heater duct 3.
  - Peel off floor carpet (1).
  - Remove rear floor spacer, and then remove rear heater duct 3 (2) from rear heater duct 2 (3).

↔ : Vehicle front



##### INSTALLATION

Install in the reverse order of removal.

### FOOT DUCT

#### FOOT DUCT : Removal and Installation

INFOID:000000006485572

##### REMOVAL

Driver side

1. Remove instrument lower panel. Refer to [IP-13, "Removal and Installation"](#).
2. Remove foot duct (LH/RH).
  - Disconnect harness connector.
  - Remove harness connector mounting clamp.
  - Remove fixing screws, and then remove foot duct (LH/RH).

Passenger side

1. Remove glove box assembly. Refer to [IP-13, "Removal and Installation"](#).
2. Remove fixing screws, and then remove foot duct (LH/RH).

##### INSTALLATION

Install in the reverse order of removal.

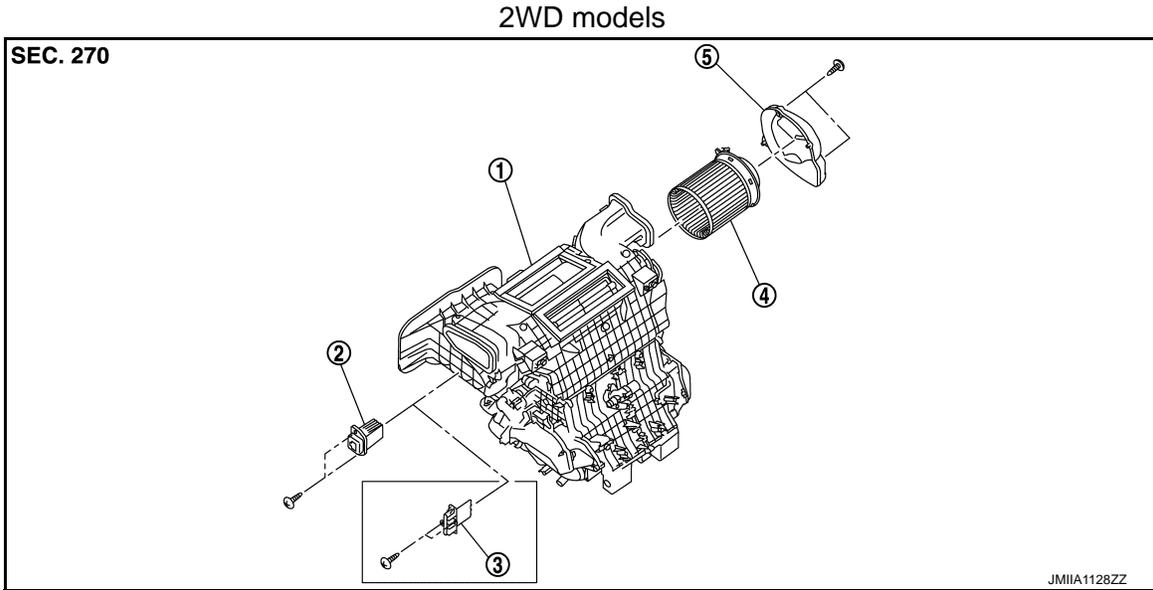
# BLOWER MOTOR

< REMOVAL AND INSTALLATION >

## BLOWER MOTOR

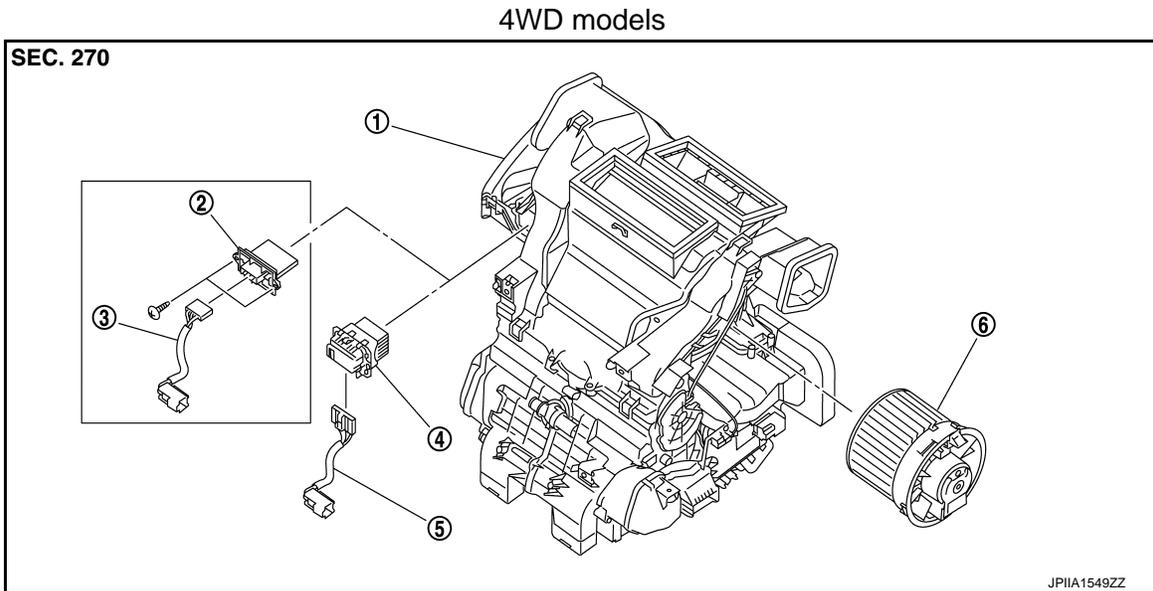
### Exploded View

INFOID:000000006657568



- |                      |                       |                          |
|----------------------|-----------------------|--------------------------|
| 1. A/C unit assembly | 2. Fan control amp.*1 | 3. Blower fan resistor*2 |
| 4. Blower motor      | 5. Blower motor cover |                          |

- \*1: Automatic air conditioner
- \*2: Manual air conditioner or Manual heater



- |                       |                          |                  |
|-----------------------|--------------------------|------------------|
| 1. A/C unit assembly  | 2. Blower fan resistor*1 | 3. Sub harness*1 |
| 4. Power transistor*2 | 5. Sub harness*2         | 6. Blower motor  |

- \*1: Manual air conditioner
- \*2: Automatic air conditioner

### Removal and Installation (LHD models)

INFOID:000000006657569

**WARNING:**

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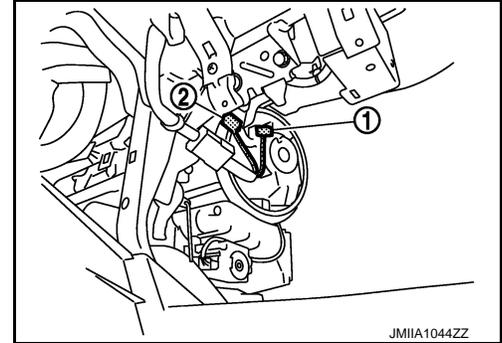
# BLOWER MOTOR

## < REMOVAL AND INSTALLATION >

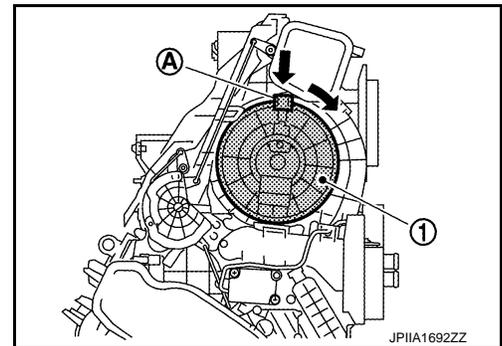
- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Always work from the side of air bag module. Never work in front of it.
- Never use the air tools or the electric tools for servicing.

### REMOVAL

1. Remove glove box assembly. Refer to [IP-13, "Removal and Installation"](#).
2. Disconnect blower motor harness connector (1) and front passenger air bag module harness connector (2).



3. Remove fixing screws, and then remove blower motor cover. (2WD models only)
4. Remove front passenger air bag module. Refer to [SR-19, "Removal and Installation"](#).
5. Press flange holding hook (A), and then turn blower motor (1) clockwise.



6. Pull outside, and then remove blower motor.

### INSTALLATION

Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

- Never use the old mounting bolts after removal, replace with the new bolts.
- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-12, "On Board Diagnosis Function"](#) or [SRC-16, "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

### Removal and Installation (RHD models)

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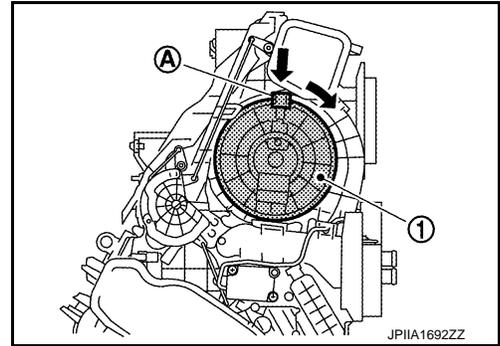
### REMOVAL

1. Remove instrument lower panel. Refer to [IP-13, "Removal and Installation"](#).
2. Remove steering column upper cover and steering column lower cover. Refer to [IP-13, "Removal and Installation"](#).
3. Remove mounting nuts and harness connector from steering column assembly. Refer to [ST-10, "Removal and Installation"](#).
4. Move steering column assembly aside.
5. Disconnect blower motor connector.

# BLOWER MOTOR

## < REMOVAL AND INSTALLATION >

6. Press flange holding hook (A), and then turn blower motor (1) clockwise.



7. Pull outside, and then remove blower motor.

## INSTALLATION

Install in the reverse order of removal.

A  
B  
C  
D  
E  
F  
G  
H  
VTL  
J  
K  
L  
M  
N  
O  
P

# AIR CONDITIONER FILTER

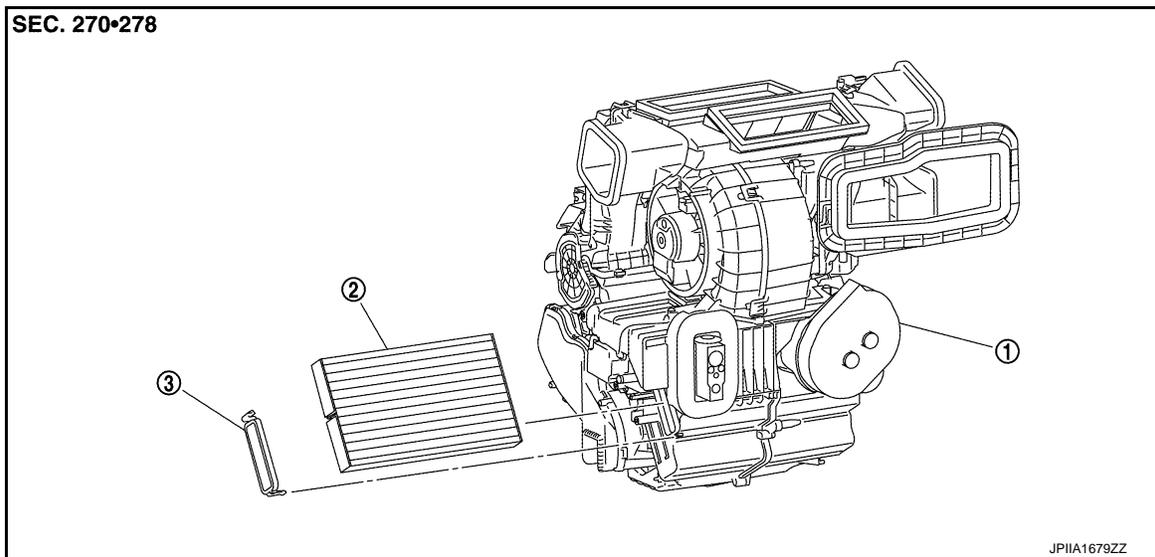
< REMOVAL AND INSTALLATION >

## AIR CONDITIONER FILTER

Exploded View

INFOID:000000006485575

LHD models



1. A/C unit assembly

2. Air conditioner filter

3. Filter cover

### Removal and Installation (LHD models)

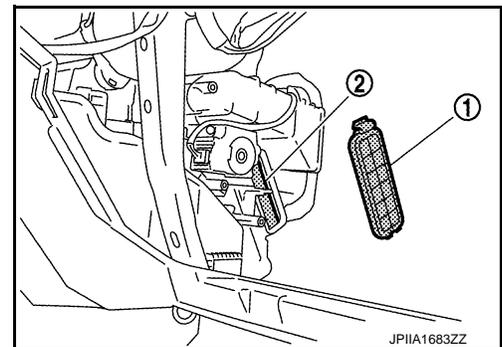
INFOID:000000006657705

#### REMOVAL

1. Remove glove box assembly. Refer to [IP-13. "Removal and Installation"](#).
2. Remove filter cover (1), and then remove air conditioner filter (2) from A/C unit assembly.

**CAUTION:**

If the filter is deformed/damaged when removing, replace it with a new one. Deformed/damaged filter may deteriorate the dust collecting performance.



#### INSTALLATION

Note the following item, and install in the reverse order of removal.

**CAUTION:**

When installing, handle the filter with extreme care to avoid deforming/damaging.

### Removal and Installation (RHD models)

INFOID:000000006657706

#### REMOVAL

**NOTE:**

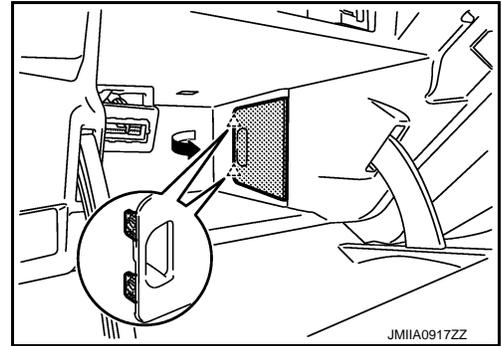
When removing air conditioner filter, visually check the operation through glove box mask opening.

# AIR CONDITIONER FILTER

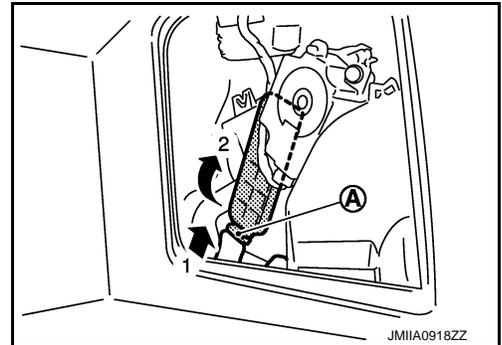
## < REMOVAL AND INSTALLATION >

1. Open glove box lid. Remove glove box mask.

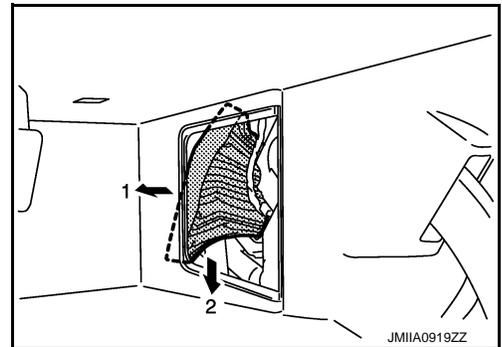
 : Pawl



2. Remove filter cover according to the numerical order as shown in the figure, while putting a hand through bottom of glove box and pressing pawl (A) of filter cover.



3. Pull out air conditioner filter from A/C unit assembly according to the numerical order as shown in the figure. Remove air conditioner filter through bottom of glove box.



### **CAUTION:**

If the filter is deformed/damaged when removing, replace it with a new one. Deformed/damaged filter may deteriorate the dust collecting performance.

### INSTALLATION

#### **NOTE:**

When removing air conditioner filter, visually check the operation through glove box mask opening.

#### **CAUTION:**

When installing, handle the filter with extreme care to avoid deforming/damaging.

### Replacement

INFOID:000000006485577

Replace Air conditioner filter.

Refer to [VTL-20, "Air Conditioner Filter"](#).

A  
B  
C  
D  
E  
F  
G  
H  
VTL  
J  
K  
L  
M  
N  
O  
P

## SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

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## SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Air Conditioner Filter

INFOID:000000006485578

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Replacement interval	<a href="#">MA-7. "Periodic Maintenance"</a>
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