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SECTION **VTL**

VENTILATION SYSTEM

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SWITCHES AND THEIR CONTROL FUNCTION

< SYSTEM DESCRIPTION >

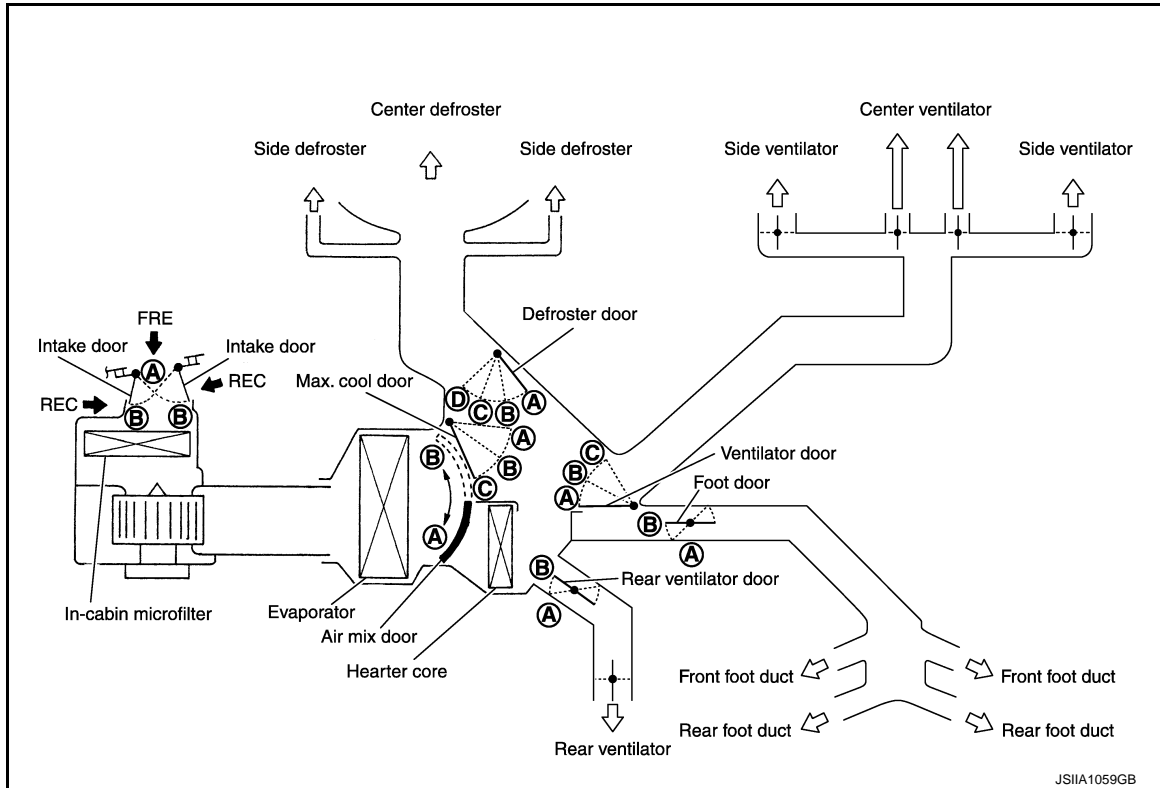
SYSTEM DESCRIPTION

SWITCHES AND THEIR CONTROL FUNCTION

WITHOUT LEFT AND RIGHT VENTILATION TEMPERATURE SEPARATELY CONTROL SYSTEM

WITHOUT LEFT AND RIGHT VENTILATION TEMPERATURE SEPARATELY CONTROL SYSTEM : System Description

INFOID:000000005172834



JSIIA1059GB

Switch position		Door position					
		Ventilator door	Max. cool door	Defroster door	Foot door	Rear ventilator door	Intake door
AUTO switch		AUTO					

SWITCHES AND THEIR CONTROL FUNCTION

< SYSTEM DESCRIPTION >

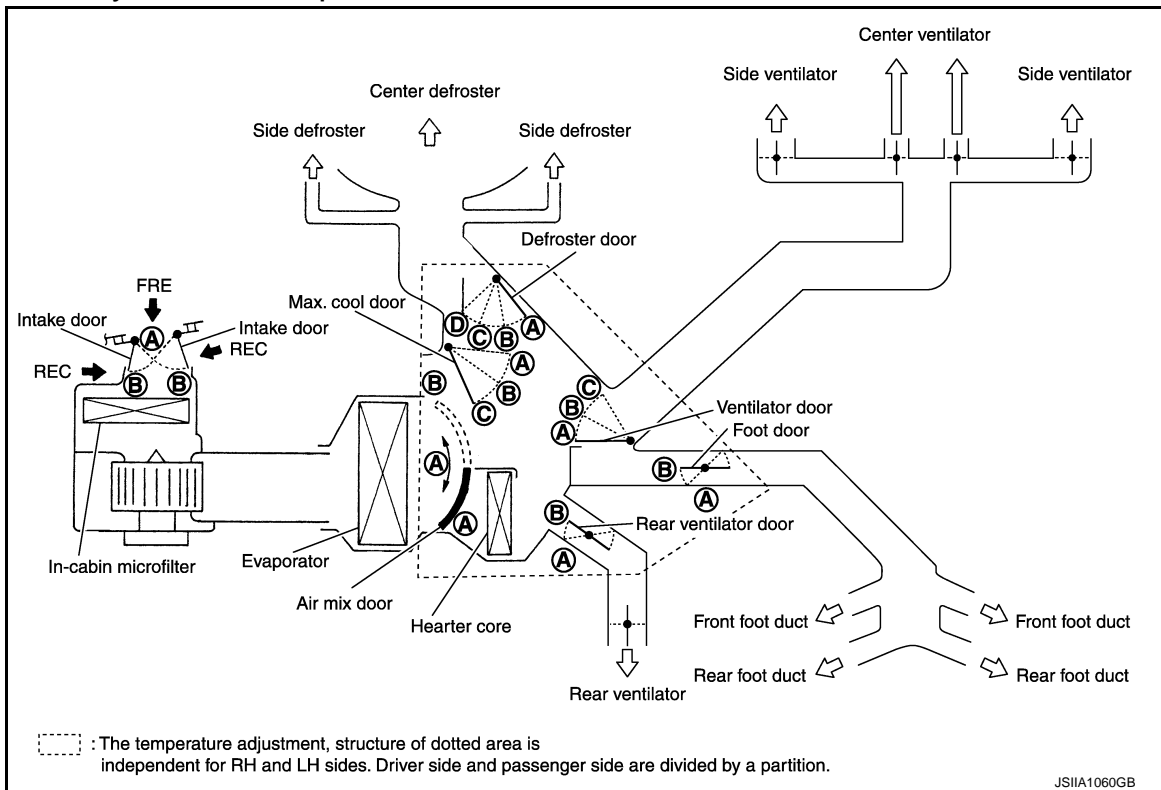
Switch position			Door position						
			Ventilator door	Max. cool door	Defroster door	Foot door	Rear ventilator door	Intake door	Air mix door
MODE switch	VENT		A	A	D	B	B	—	—
	B/L		B	B	D	B	B		
	FOOT		C	C	C	B	B		
	D/F				B	B	B	B	
DEF switch					A	A	A	B	
Intake switch	FRE							B*	
	REC							A*	
Temperature control dial	18.0°C (60°F)		—	—	—	—	—		A
	18.5°C ↔ 31.5°C (61°F ↔ 89°F)							—	AUTO
	32.0°C (90°F)								B
OFF switch			C	C	C	B	B	B	—

*: Inlet status is displayed by indicator when activating automatic control

WITH LEFT AND RIGHT VENTILATION TEMPERATURE SEPARATELY CONTROL SYSTEM

WITH LEFT AND RIGHT VENTILATION TEMPERATURE SEPARATELY CONTROL SYSTEM : System Description

INFOID:000000005172835



Without ACCS

SWITCHES AND THEIR CONTROL FUNCTION

< SYSTEM DESCRIPTION >

Switch position		Door position									
		Ventila- tor door	Max. cool door	Defrost- er door	Foot door	Rear ventila- tor door	Intake door	Air mix door (Driver side)	Air mix door (Passen- ger side)		
AUTO switch				AUTO							
MODE switch	VENT			A	A	D	B	B	—	—	
	B/L			B	B	D	B	B			
	FOOT			C	C	C	B	B			
	D/F					B	B	B			B
DEF switch				—	—	—	—	—	—	—	
Intake switch	FRE										—
	REC			—	—	—	—	—	—	—	
DUAL switch	DUAL										—
	OFF			—	—	—	—	—	—	OFF	
Temperature control dial (Driver side)	DUAL switch: OFF	18.0°C (60°F)								—	—
		18.5°C ⇔ 31.5°C (61°F ⇔ 89°F)		AUTO							
		32.0°C (90°F)		B							
Temperature control dial (Driver side)	DUAL switch: ON	18.0°C (60°F)		—	—	—	—	—	—	A	
		18.5°C ⇔ 31.5°C (61°F ⇔ 89°F)								AUTO	
		32.0°C (90°F)								B	
Temperature control dial (Passenger side)	DUAL switch: ON	18.0°C (60°F)		—	—	—	—	—	—	A	
		18.5°C ⇔ 31.5°C (61°F ⇔ 89°F)								AUTO	
		32.0°C (90°F)								B	
OFF switch				C	C	C	B	B	B	—	—











*: Inlet status is displayed by indicator when activating automatic control

With ACCS

Switch position		Door position									
		Ventila- tor door	Max. cool door	Defrost- er door	Foot door	Rear ventila- tor door	Intake door	Air mix door (Driver side)	Air mix door (Passen- ger side)		
AUTO switch				AUTO							

SWITCHES AND THEIR CONTROL FUNCTION

< SYSTEM DESCRIPTION >

Switch position			Door position							Air mix door (Driver side)	Air mix door (Passenger side)
			Ventila- tor door	Max. cool door	Defrost- er door	Foot door	Rear ventila- tor door	Intake door			
MODE switch	VENT		A	A	D	B	B	—			
	B/L		B	B	D	B	B				
	FOOT		C	C	C	B	B				B
	D/F				A	A	A	B			
DEF switch					A	A	A	B	—	—	
Intake switch	AUTO		—	—	—	—	—	AUTO* ²	—		
	REC							A* ¹			
	FRE							B* ¹			
DUAL switch	DUAL		—	—	—	—	—	—	—	ON	
	OFF									OFF	
Temperature control dial (Driver side)	DUAL switch: OFF	18.0°C (60°F)	—	—	—	—	—	—	—	A	
		18.5°C ↔ 31.5°C (61°F ↔ 89°F)								AUTO	
		32.0°C (90°F)								B	
Temperature control dial (Driver side)	DUAL switch: ON	18.0°C (60°F)	—	—	—	—	—	—	—	A	
		18.5°C ↔ 31.5°C (61°F ↔ 89°F)								AUTO	
		32.0°C (90°F)								B	
Temperature control dial (Passenger side)	DUAL switch: ON	18.0°C (60°F)	—	—	—	—	—	—	—	A	
		18.5°C ↔ 31.5°C (61°F ↔ 89°F)								—	
		32.0°C (90°F)								B	
OFF switch			C	C	C	B	B	B	—	—	

*1: Inlet status is displayed by indicator when activating automatic control

*2: Intake door control applies a gas sensor






AIR DISTRIBUTION

< SYSTEM DESCRIPTION >

AIR DISTRIBUTION

System Description

INFOID:000000005172836

Discharge air flow						
Mode position indication	Condition	Air outlet/distribution				
		VENT		FOOT		DEF
		Front	Rear	Front	Rear	
	DUAL switch: OFF Rear ventilator : OPEN	88%	12%	—	—	—
		49%	10%	25%	16%	—
		10%	12%	33%	22%	23%
		9%	11%	29%	18%	33%
		15%	—	—	—	85%

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

INFOID:000000005172837

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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

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.

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:000000005172838

NOTE:

- Before removing and installing any control units, first turn the push-button 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.

This vehicle is equipped with a push-button ignition switch and a 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 procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Turn the push-button ignition switch to ACC position.
(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.
4. Perform the necessary repair operation.

PRECAUTIONS

< PRECAUTION >

5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

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PREPARATION

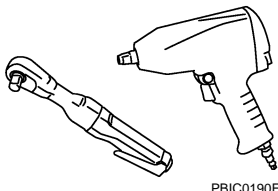
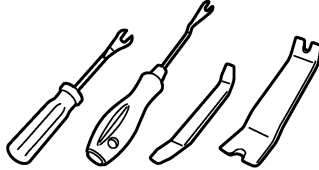
< PREPARATION >

PREPARATION

PREPARATION

Commercial Service Tool

INFOID:000000005172839

Tool name	Description
<p data-bbox="162 514 276 546">Power tool</p>  <p data-bbox="844 630 917 646">PBIC0190E</p>	<p data-bbox="1079 514 1372 546">For loosening bolts and nuts</p>
<p data-bbox="162 766 300 798">Remover tool</p>  <p data-bbox="844 882 933 898">JMK1A3050ZZ</p>	<p data-bbox="1079 766 1412 798">Remove clips, pawls, metal clips</p>

IN-CABIN MICROFILTER

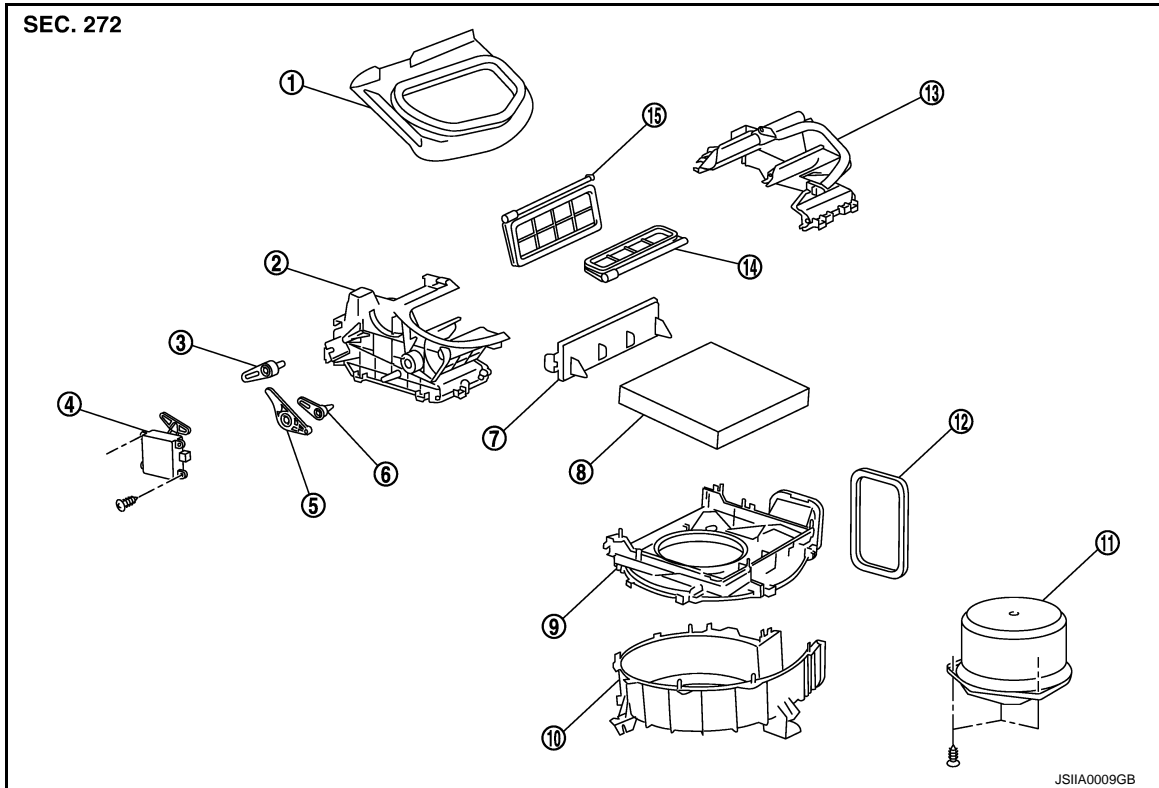
< PERIODIC MAINTENANCE >

PERIODIC MAINTENANCE

IN-CABIN MICROFILTER

Exploded View

INFOID:000000005172840



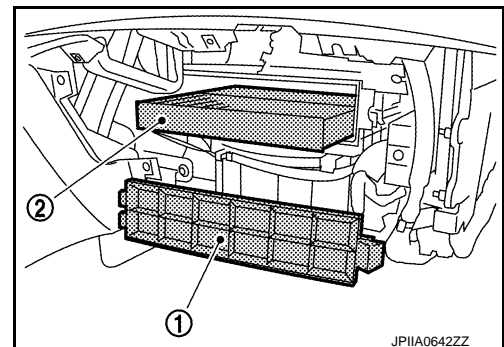
- | | | |
|-----------------------|---------------------------|------------------------|
| 1. Adapter | 2. Intake box (right) | 3. Intake door lever 2 |
| 4. Intake door motor | 5. Intake door link | 6. Intake door lever 1 |
| 7. Filter cover | 8. In-cabin microfilter | 9. Intake upper case |
| 10. Intake lower case | 11. Blower motor assembly | 12. Seal |
| 13. Intake box (left) | 14. Intake door 1 | 15. Intake door 2 |

Removal and Installation

INFOID:000000005172841

REMOVAL

1. Remove instrument lower panel RH. Refer to [IP-11. "Exploded View"](#).
2. Remove filter cover (1), and then remove in-cabin microfilter (2).



INSTALLATION

Installation is basically the reverse order of removal.

IN-CABIN MICROFILTER

< PERIODIC MAINTENANCE >

Replacement

INFOID:000000005172842

Replace in-cabin microfilter.

Refer to [MA-6. "Schedule 1"](#) and [MA-8. "Schedule 2"](#).

Affix a caution label inside the glove box when replacing filter.

DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

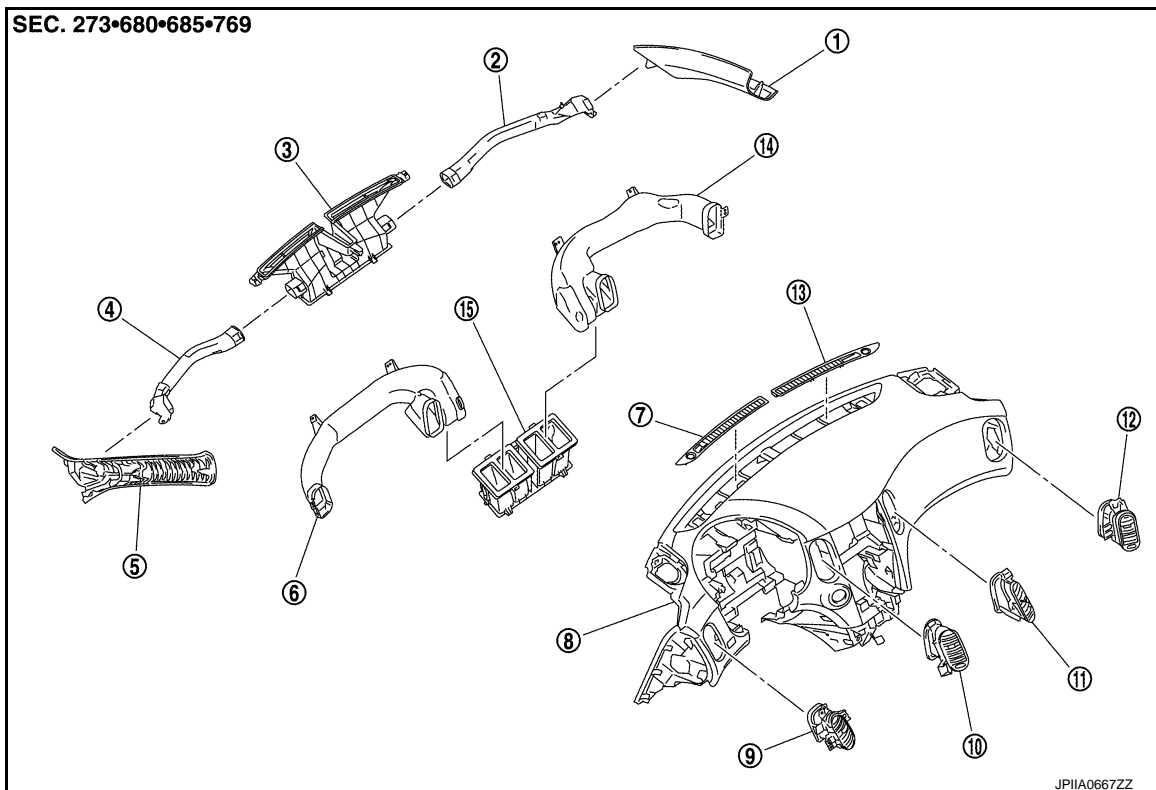
REMOVAL AND INSTALLATION

DUCT AND GRILLE

Exploded View

INFOID:000000005172843

FRONT

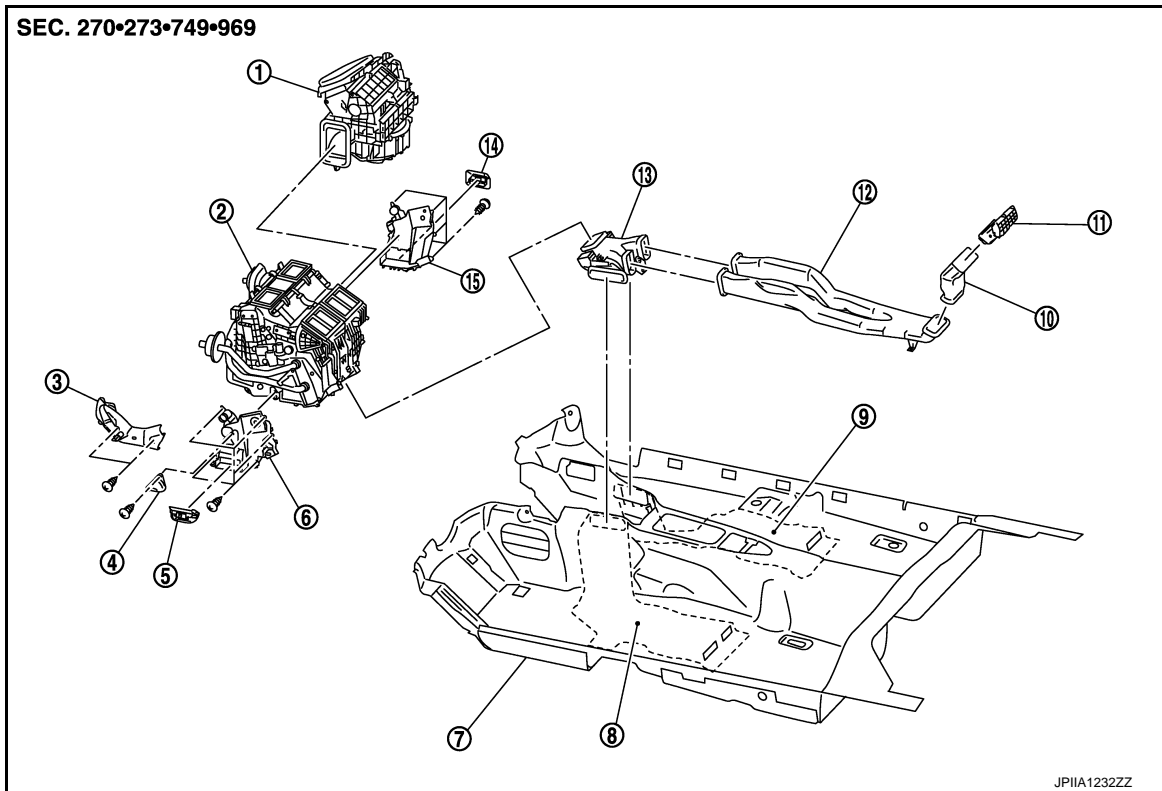


- | | | |
|---|--|------------------------------------|
| 1. Side defroster duct (front pillar garnish) (right) | 2. Side defroster nozzle (right) | 3. Defroster nozzle |
| 4. Side defroster nozzle (left) | 5. Side defroster duct (front pillar garnish) (left) | 6. Ventilator duct (left) |
| 7. Front defroster grille (left) | 8. Instrument panel assembly | 9. Side ventilator grille (left) |
| 10. Center ventilator grille (left) | 11. Center ventilator grille (right) | 12. Side ventilator grille (right) |
| 13. Front defroster grille (right) | 14. Ventilator duct (right) | 15. Adaptor duct |

REAR

DUCT AND GRILLE

< REMOVAL AND INSTALLATION >



- | | | |
|----------------------------|-----------------------------------|------------------------------|
| 1. Blower unit | 2. Heater & cooling unit assembly | 3. Heater pipe cover |
| 4. Heater duct | 5. Foot grille (left) | 6. Foot duct (left) |
| 7. Floor carpet | 8. Rear floor duct 2 (left) | 9. Rear floor duct 2 (right) |
| 10. Rear ventilator duct 2 | 11. Rear ventilator grille | 12. Rear ventilator duct 1 |
| 13. Rear floor duct 1 | 14. Foot grille (right) | 15. Foot duct (right) |

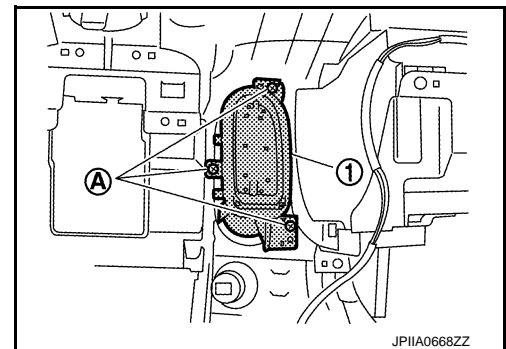
CENTER VENTILATOR GRILLE

CENTER VENTILATOR GRILLE : Removal and Installation

INFOID:000000005172844

REMOVAL

1. Remove ventilator ducts (left and right). Refer to [VTL-13, "Exploded View"](#).
2. Remove mounting screws (A), and then remove center ventilator grilles (1) (left and right).



INSTALLATION

Installation is basically the reverse order of removal.

SIDE VENTILATOR GRILLE

SIDE VENTILATOR GRILLE : Removal and Installation

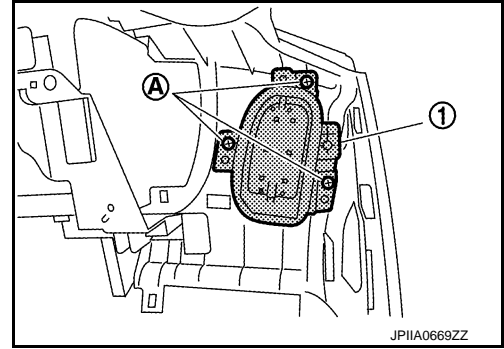
INFOID:000000005172845

REMOVAL

DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

1. Remove ventilator ducts (left and right). Refer to [VTL-13, "Exploded View"](#).
2. Remove mounting screws (A), and then remove side ventilator grilles (1) (left and right).



INSTALLATION

Installation is basically the reverse order of removal.

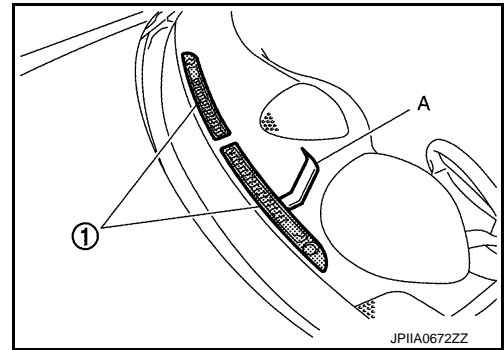
FRONT DEFROSTER GRILLE

FRONT DEFROSTER GRILLE : Removal and Installation

INFOID:000000005172846

REMOVAL

Remove front defroster grilles (1), using remover tools (A).



INSTALLATION

Installation is basically the reverse order of removal.

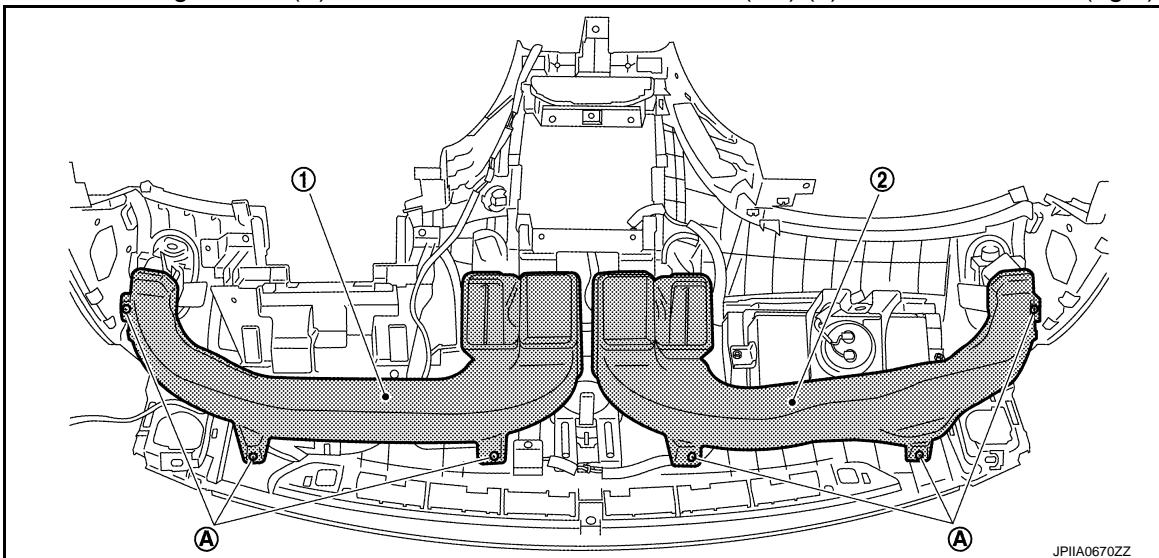
VENTILATOR DUCT

VENTILATOR DUCT : Removal and Installation

INFOID:000000005172847

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting screws (A), and then remove ventilator duct (left) (1) and ventilator duct (right) (2).



DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

INSTALLATION

Installation is basically the reverse order of removal.

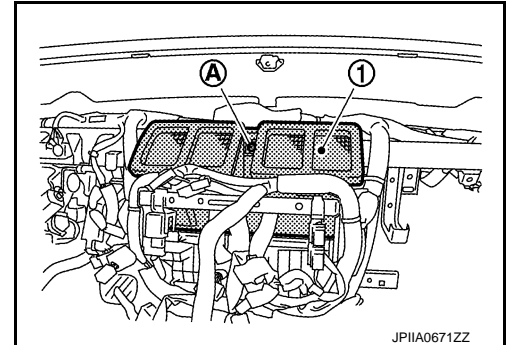
ADAPTOR DUCT

ADAPTOR DUCT : Removal and Installation

INFOID:000000005172848

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting screw (A), and then adaptor duct (1).



INSTALLATION

Installation is basically the reverse order of removal.

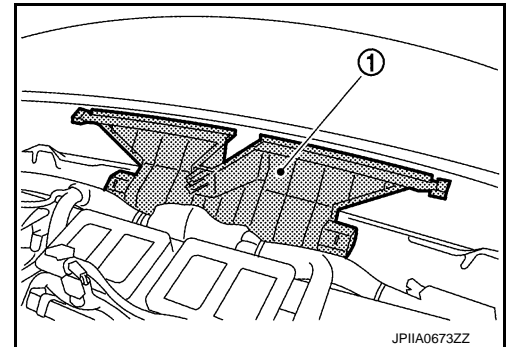
DEFROSTER NOZZLE

DEFROSTER NOZZLE : Removal and Installation

INFOID:000000005172849

REMOVAL

1. Remove side defroster nozzles. Refer to [VTL-13, "Exploded View"](#).
2. Remove defroster nozzle (1).



INSTALLATION

Installation is basically the reverse order of removal.

SIDE DEFROSTER NOZZLE

SIDE DEFROSTER NOZZLE : Removal and Installation

INFOID:000000005172850

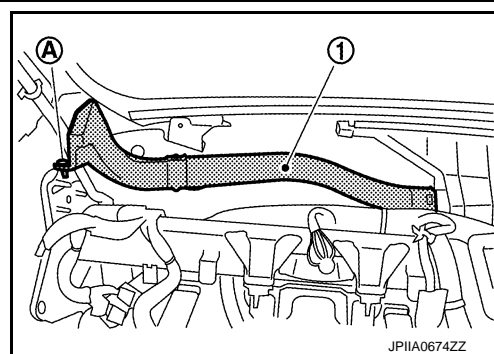
REMOVAL

1. Remove instrument panel assembly. Refer to [IP-11, "Exploded View"](#).

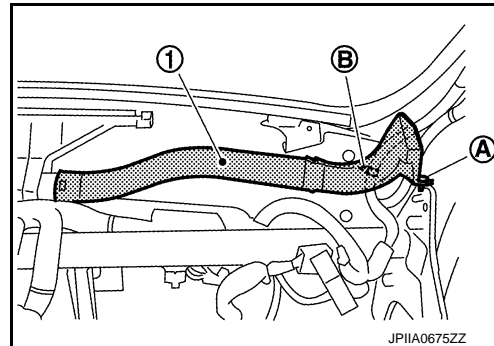
DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

2. Remove clip (A), and then remove side defroster nozzle (left) (1).



3. Remove mounting clip (A).
4. Remove harness clip (B), and then remove side defroster nozzle (right) (1).



INSTALLATION

Installation is basically the reverse order of removal.

SIDE DEFROSTER DUCT

SIDE DEFROSTER DUCT : Removal and Installation

INFOID:000000005172851

REMOVAL

Remove front pillar garnishes Refer to [INT-20, "Exploded View"](#).

INSTALLATION

Installation is basically the reverse order of removal.

REAR VENTILATOR GRILLE

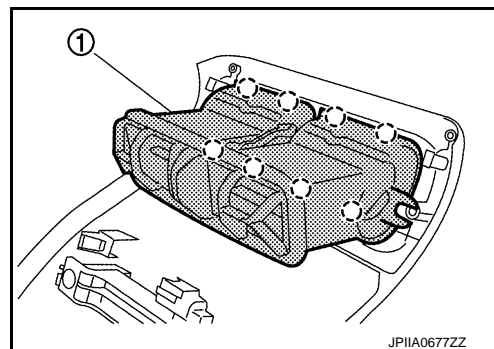
REAR VENTILATOR GRILLE : Removal and Installation

INFOID:000000005172852

REMOVAL

1. Remove console rear finisher. Refer to [IP-22, "Exploded View"](#).
2. Remove rear ventilator grille (1).

 Pawl



INSTALLATION

Installation is basically the reverse order of removal.

REAR VENTILATOR DUCT 1

DUCT AND GRILLE

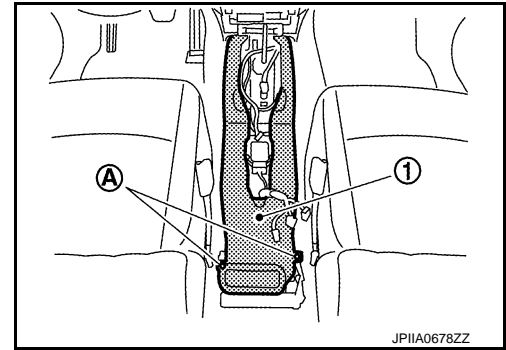
< REMOVAL AND INSTALLATION >

REAR VENTILATOR DUCT 1 : Removal and Installation

INFOID:000000005172853

REMOVAL

1. Remove center console assembly. Refer to [IP-22, "Exploded View"](#).
2. Remove mounting screws (A), and then remove rear ventilator duct 1 (1).



INSTALLATION

Installation is basically the reverse order of removal.

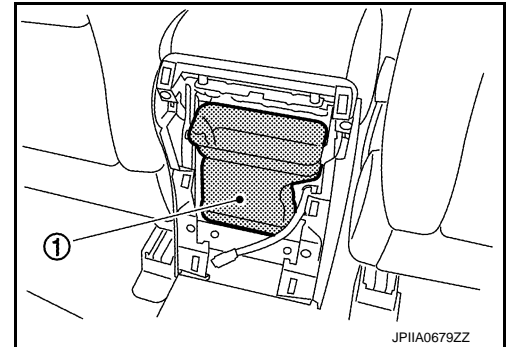
REAR VENTILATOR DUCT 2

REAR VENTILATOR DUCT 2 : Removal and Installation

INFOID:000000005172854

REMOVAL

1. Remove console rear finisher. Refer to [IP-22, "Exploded View"](#).
2. Remove rear ventilator duct 2 (1).



INSTALLATION

Installation is basically the reverse order of removal.

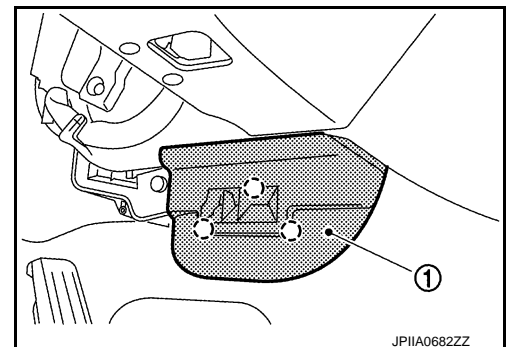
FOOT GRILLE

FOOT GRILLE : Removal and Installation

INFOID:000000005172855

REMOVAL

1. Remove foot grille (left) (1).

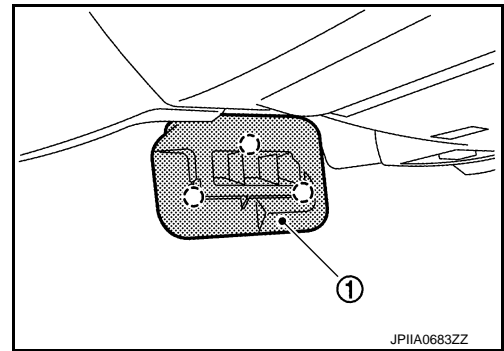


2. Remove foot grille (right) (1).

DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

 Pawl



INSTALLATION

Installation is basically the reverse order of removal.

FOOT DUCT

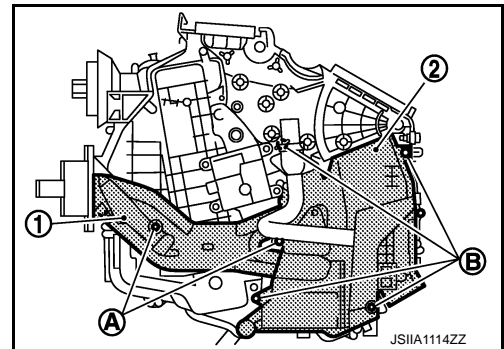
FOOT DUCT : Removal and Installation

INFOID:000000005172856

REMOVAL

Driver side

1. Remove mounting screws (A), and then remove heater pipe cover (1).
2. Remove mounting screws (B), and then remove foot duct (left) (2).



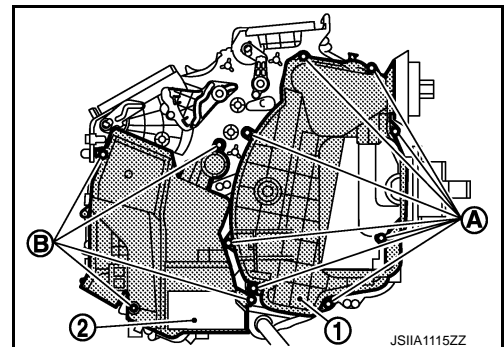
Passenger side

1. Set the temperature at 18°C (64°F).

CAUTION:

The angle may be out, when installing the air mix door motor to the air mix door, unless the above procedure is performed.

2. Disconnect the battery cable from the negative terminal.
3. Remove heater & cooling unit assembly. Refer to [HA-50, "Exploded View"](#).
4. Remove air mix door motor (passenger side). Refer to [HAC-169, "Exploded View"](#).
5. Remove mode door motor and links. Refer to [HAC-169, "Exploded View"](#).
6. Remove mounting screws (A), and then remove evaporator cover (1).
7. Remove mounting screws (B), and then remove foot duct (right) (2).



INSTALLATION

Installation is basically the reverse order of removal.

HEATER DUCT

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

DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

HEATER DUCT : Removal and Installation

INFOID:000000005172857

REMOVAL

1. Remove instrument lower panel LH. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting screw, and then remove heater duct.

INSTALLATION

Installation is basically the reverse order of removal.

REAR FLOOR DUCT 1

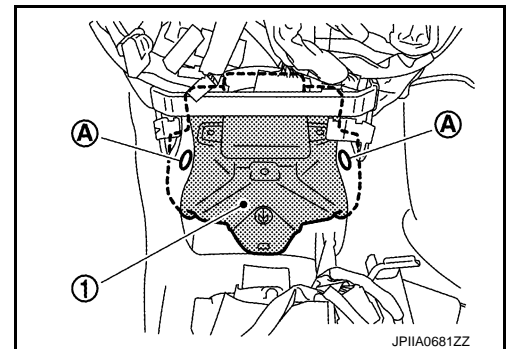
REAR FLOOR DUCT 1 : Removal and Installation

INFOID:000000005172858

REMOVAL

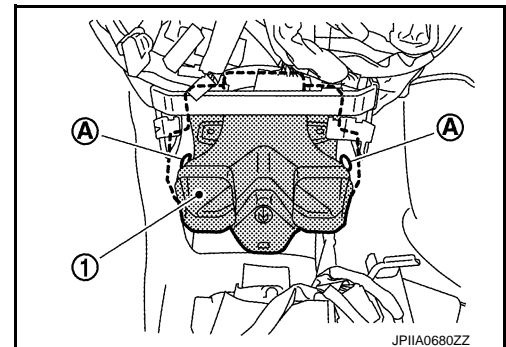
Without Rear Ventilation

1. Remove instrument panel assembly. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting clips (A), and then remove rear floor duct 1 (1).



With Rear Ventilation

1. Remove instrument panel assembly. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting clips (A), and then remove rear floor duct 1 (1).



INSTALLATION

Installation is basically the reverse order of removal.

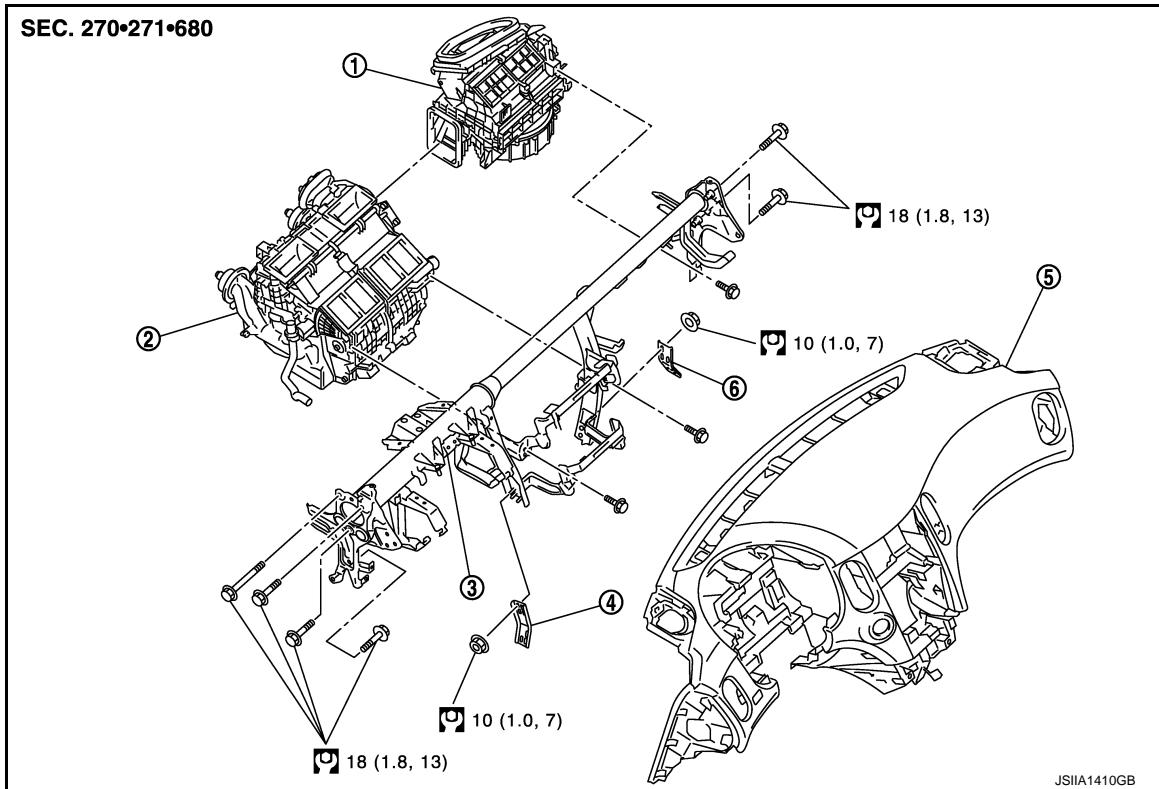
BLOWER UNIT

< REMOVAL AND INSTALLATION >

BLOWER UNIT

Exploded View

INFOID:000000005172859



- | | | |
|---------------------------|-----------------------------------|----------------------------|
| 1. Blower unit | 2. Heater & cooling unit assembly | 3. Steering member |
| 4. Instrument stay (left) | 5. Instrument panel assembly | 6. Instrument stay (right) |

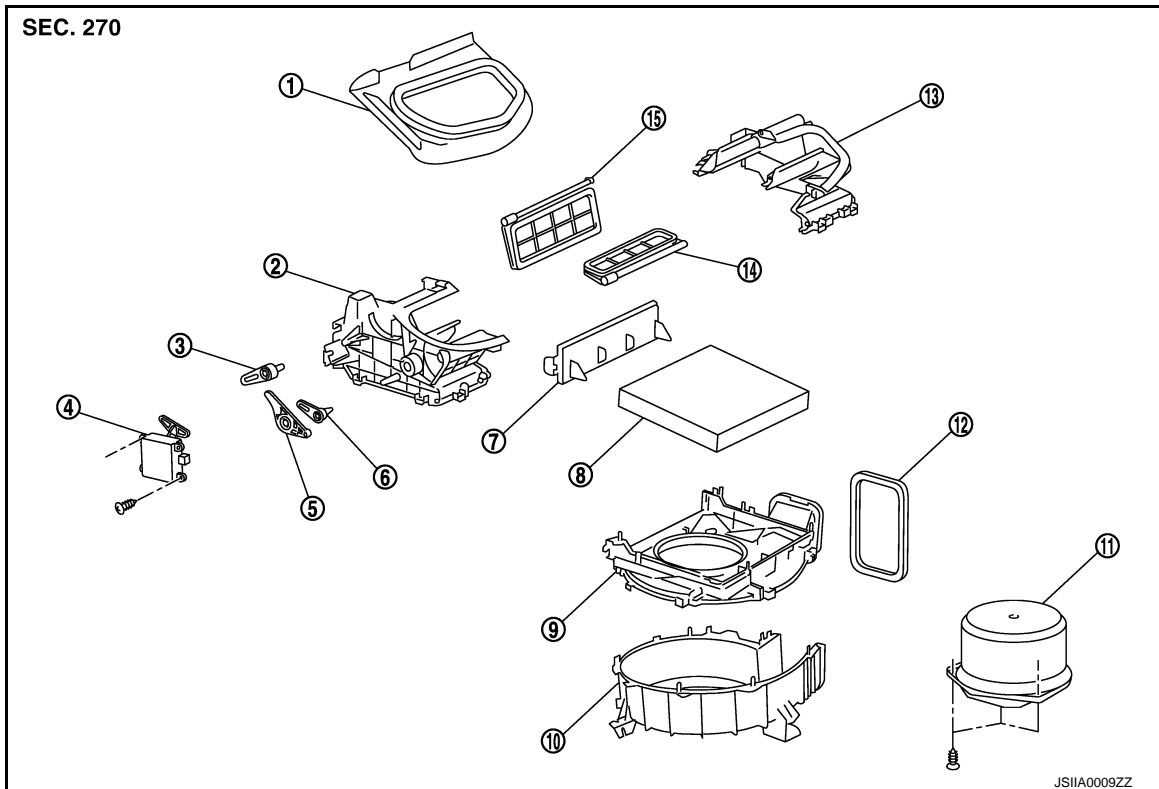
Refer to [GI-4. "Components"](#) for symbols in the figure.

DISASSEMBLY

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

BLOWER UNIT

< REMOVAL AND INSTALLATION >



- | | | |
|-----------------------|---------------------------|------------------------|
| 1. Adapter | 2. Intake box (right) | 3. Intake door lever 2 |
| 4. Intake door motor | 5. Intake door link | 6. Intake door lever 1 |
| 7. Filter cover | 8. In-cabin microfilter | 9. Intake upper case |
| 10. Intake lower case | 11. Blower motor assembly | 12. Seal |
| 13. Intake box (left) | 14. Intake door 1 | 15. Intake door 2 |

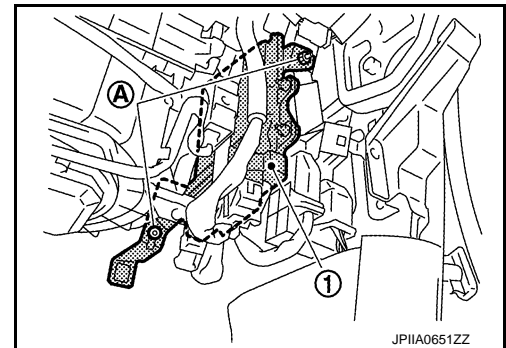
BLOWER UNIT

BLOWER UNIT : Removal and Installation

INFOID:000000005172860

REMOVAL

1. Remove instrument lower panel RH. Refer to [IP-11, "Exploded View"](#).
2. Disconnect AWD control unit connector (AWD). Refer to [DLN-46, "Exploded View"](#).
3. Disconnect ECM (1) connectors.
4. Remove mounting nuts (A), and then remove ECM with bracket attached.
5. Remove power steering control unit. Refer to [STC-21, "Exploded View"](#).



6. Disconnect intake door motor connector and blower motor connector.

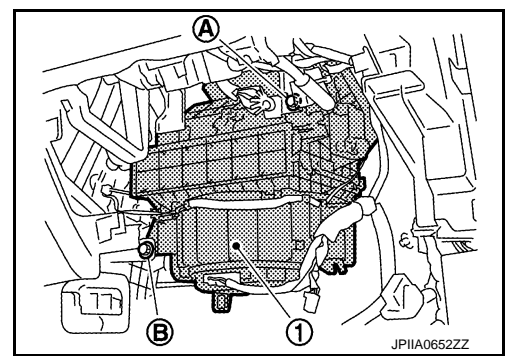
BLOWER UNIT

< REMOVAL AND INSTALLATION >

7. Remove mounting bolt (A) and screw (B), from blower unit (1).
8. Remove blower unit.

CAUTION:

Move blower unit rightward, and remove locating pin (1 part) and joint. Then remove blower unit downward.



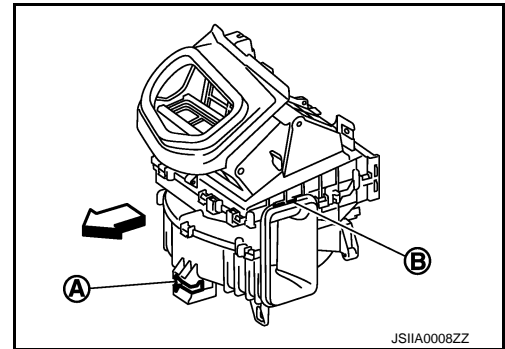
INSTALLATION

Installation is basically the reverse order of removal.

CAUTION:

Make sure locating pin (A) and joint (B) are securely inserted.

←: Vehicle front



BLOWER MOTOR

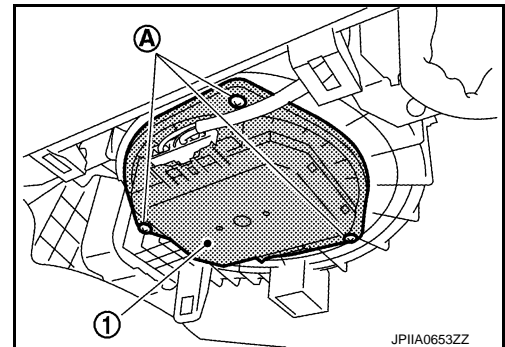
BLOWER MOTOR : Removal and Installation

INFOID:000000005172861

VTL

REMOVAL

1. Remove instrument lower cover. Refer to [IP-11. "Exploded View"](#).
2. Disconnect blower motor connector.
3. Remove mounting screws (A), and then remove blower motor (1).



INSTALLATION

Installation is basically the reverse order of removal.