

VTL
SECTION
VENTILATION SYSTEM

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000007801144

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:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never 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.

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PREPARATION

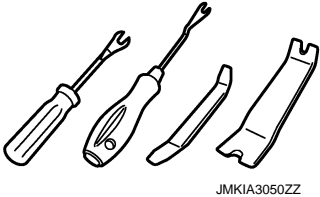
< PREPARATION >

PREPARATION

PREPARATION

Commercial Service Tool

INFOID:000000006888169

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

VENTILATION SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

VENTILATION SYSTEM

System Description

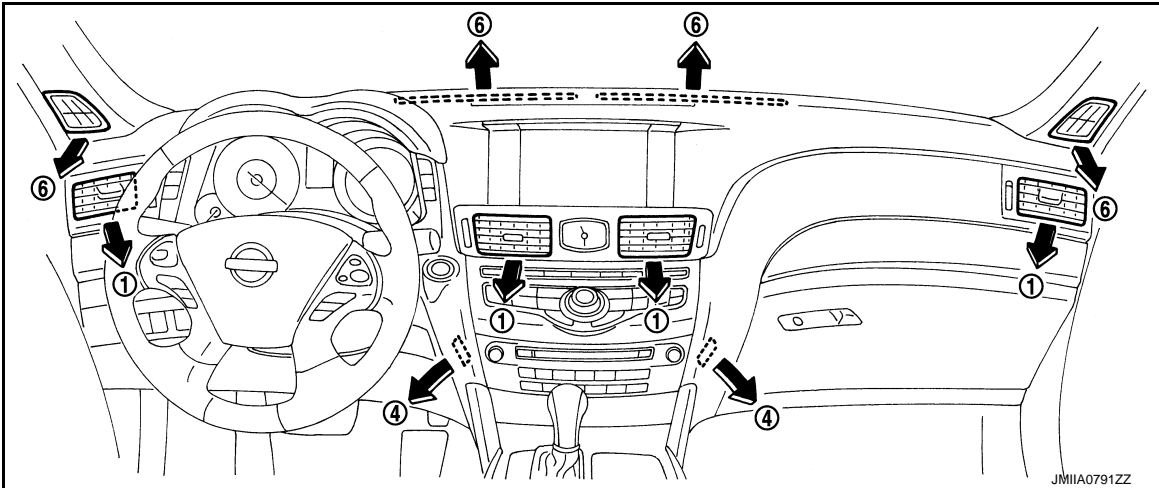
INFOID:000000006888170

OUTLINE

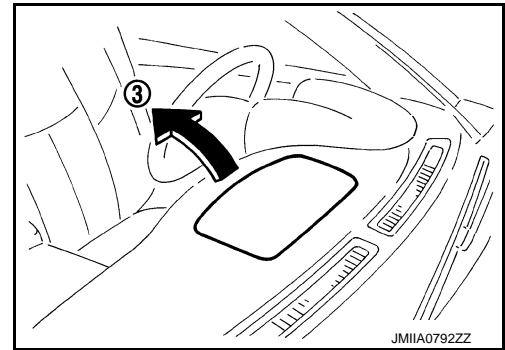
Ventilation system is controlled by A/C auto amp. For details of automatic air conditioner system, refer to [HAC-19. "AUTOMATIC AIR CONDITIONING SYSTEM \(WITH FOREST AIR\) : System Description"](#).

AIR FLOW

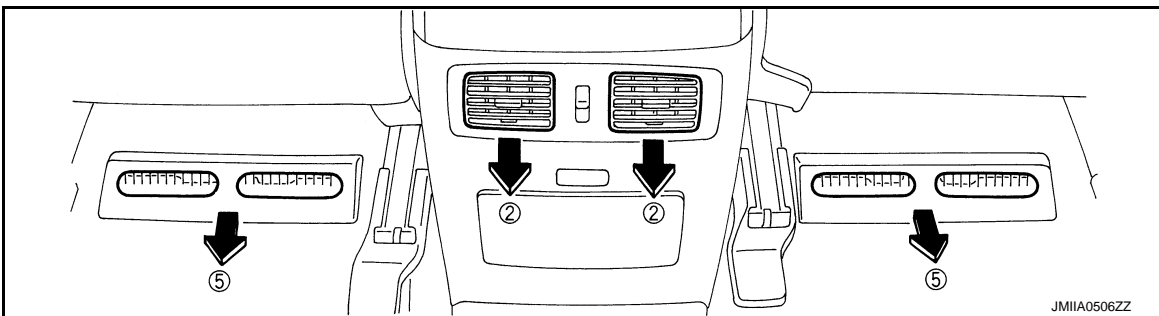
Front



Upper



Rear



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VENTILATION SYSTEM

< SYSTEM DESCRIPTION >

Discharge air flow											
Mode position	Condition				Air outlet / distribution						
					VENT				FOOT		DEF (6)
					Front		Upper (3)	Rear (2)	Front (4)	Rear (5)	
					Center (1)	Side (1)					
	Upper Vent: ON	Temperature control switch (Driver side)	18°C (60°F)	×	×	×	×	×	—	—	
			Other than 18°C (60°F)*1	×	×	×	×	—	—	—	
	<ul style="list-style-type: none"> • DUAL: OFF • Rear ventilator: Close 		—	×	×	×	×	×	×	—	
			—	—	×	×	×	×	×	×	×
			—	—	—	×	×	×	×	×	×
			—	—	—	×	—	—	—	—	×
			—	—	—	×	—	×	—	×	×

- *1: Air blow is also supplied to front foot until passenger room temperature stabilizes when temperature setting is other than 18°C (60°F). At that time, air blowing is the same as 18°C (60°F) setting.
- *2: During automatic defogging control. (Forest air system)

DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

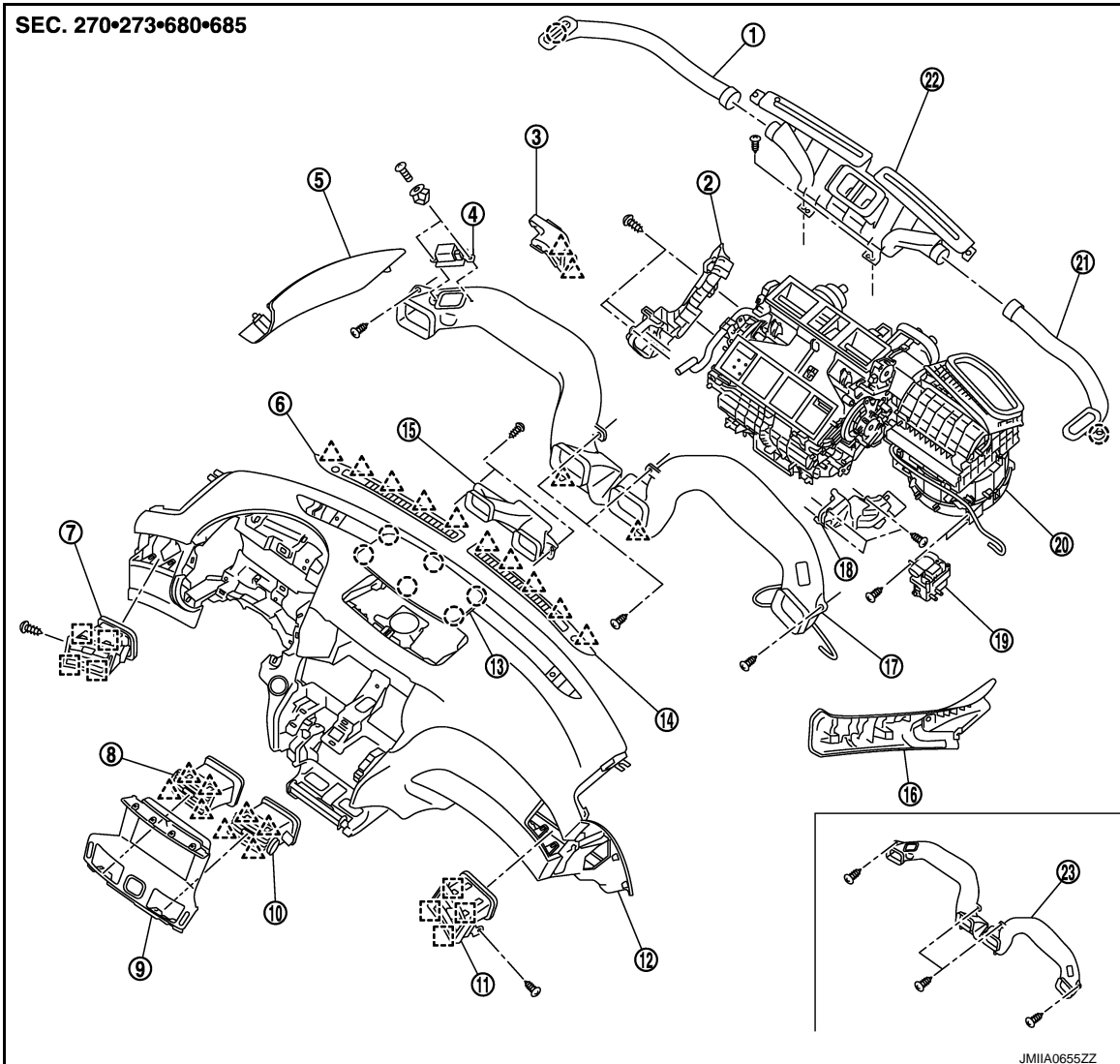
REMOVAL AND INSTALLATION

DUCT AND GRILLE

Exploded View

INFOID:000000006888171

FRONT



- | | | |
|---|--|-------------------------------|
| 1. Side defroster nozzle LH | 2. Foot duct LH | 3. Foot grille LH |
| 4. Ionizer | 5. Side defroster duct LH
(Front pillar garnish LH) | 6. Front defroster grille LH |
| 7. Side defroster grille LH | 8. Center ventilator grille LH | 9. Center ventilator assembly |
| 10. Center ventilator grille RH | 11. Side ventilator grille RH | 12. Instrument panel assembly |
| 13. Upper ventilator grille | 14. Front ventilator grille RH | 15. Upper ventilator duct |
| 16. Side defroster duct RH
(Front pillar garnish RH) | 17. Ventilator duct | 18. Foot duct RH |
| 19. Aroma unit | 20. A/C unit assembly | 21. Side defroster nozzle RH |
| 22. Front defroster nozzle | 23. Ventilator duct | |

○ : Clip

△ : Pawl

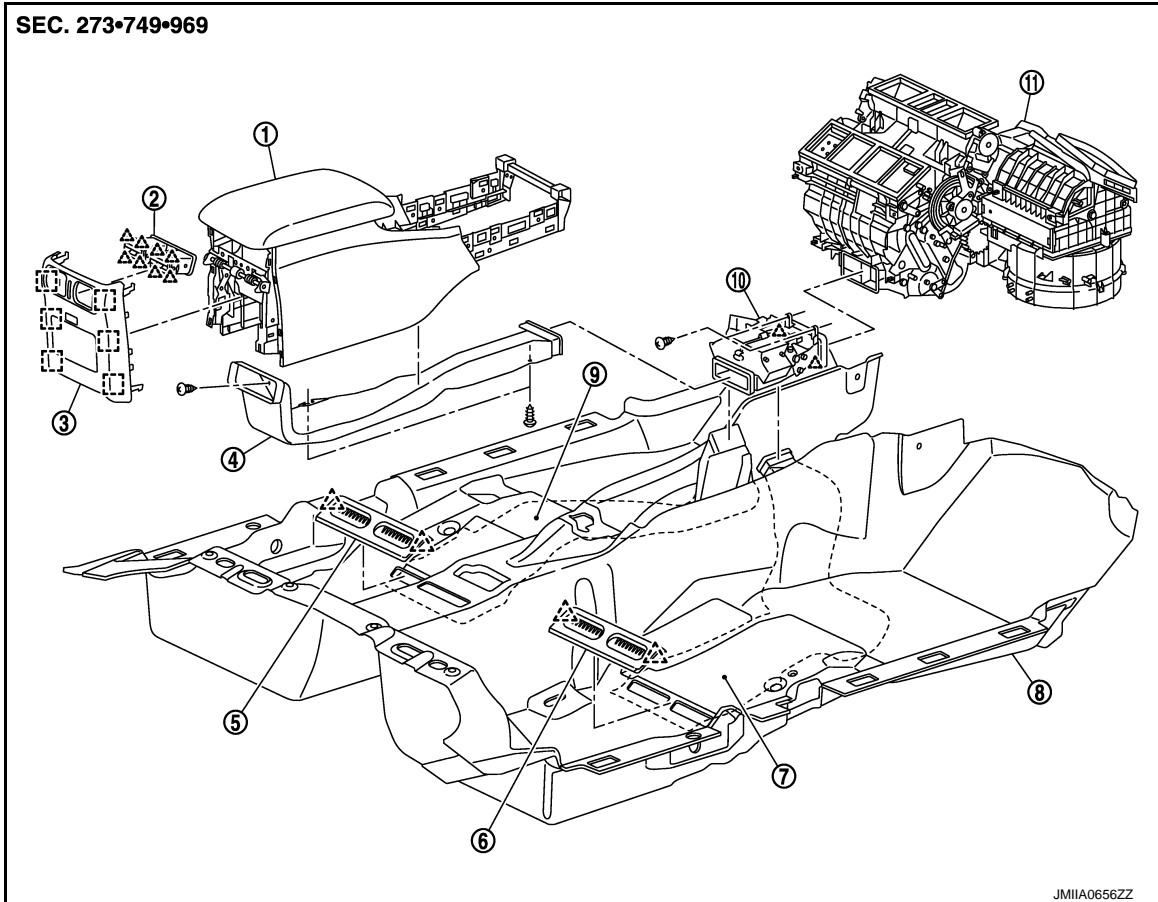
□ : Metal clip

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
DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

REAR



- | | | |
|----------------------------|---------------------------|--------------------------|
| 1. Center console assembly | 2. Rear ventilator grille | 3. Console rear finisher |
| 4. Rear ventilator duct | 5. Floor duct grille LH | 6. Floor duct grille RH |
| 7. Floor duct RH | 8. Floor trim | 9. Floor duct LH |
| 10. Rear mode door case | 11. A/C unit assembly | |

 : Pawl

 : Metal clip


CENTER VENTILATOR GRILLE

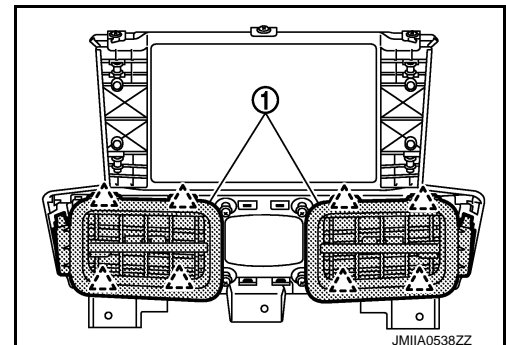
CENTER VENTILATOR GRILLE : Removal and Installation

INFOID:00000000688172

REMOVAL

1. Remove center ventilator assembly. Refer to [IP-13. "Removal and Installation"](#).
2. Disengage fixing pawls, and then remove center ventilator grille (1).

 : Pawl



INSTALLATION

DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

Install in the reverse order of removal.


SIDE VENTILATOR GRILLE

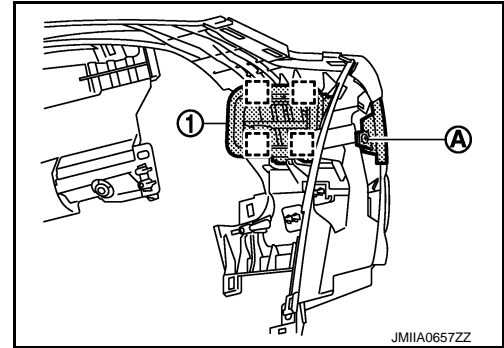
SIDE VENTILATOR GRILLE : Removal and Installation

INFOID:000000006888173

REMOVAL

1. Remove instrument side finisher and instrument lower panel. Refer to [IP-13. "Removal and Installation"](#).
2. Remove fixing screw (A), and then disengage fixing metal clips.
3. Remove side ventilator grille (1).

 : Metal clip



INSTALLATION

Install in the reverse order of removal.

UPPER VENTILATOR GRILLE

UPPER VENTILATOR GRILLE : Removal and Installation

INFOID:000000006888174


REMOVAL

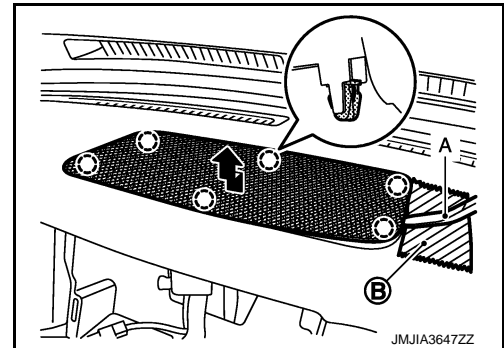
1. Insert a remover tool (A) between upper ventilator grille and instrument panel, and disengage clips.

CAUTION:

Apply protective tape (B) on the part to protect from damage.

2. Lift up upper ventilator grille toward vehicle upper, pull toward vehicle rear, and lift up again toward vehicle upper.

 : Clip



INSTALLATION

Install in the reverse order of removal.

FRONT DEFROSTER GRILLE

FRONT DEFROSTER GRILLE : Removal and Installation

INFOID:000000006888175


REMOVAL

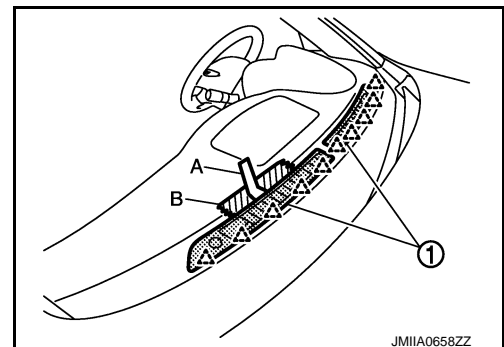
1. Remove front defroster grilles (1), using remover tool (A).

CAUTION:

Apply protective tape (B) on the part to protect from damage.

2. Remove sensors from front defroster grilles.

 : Pawl



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DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

INSTALLATION

Install in the reverse order of removal.

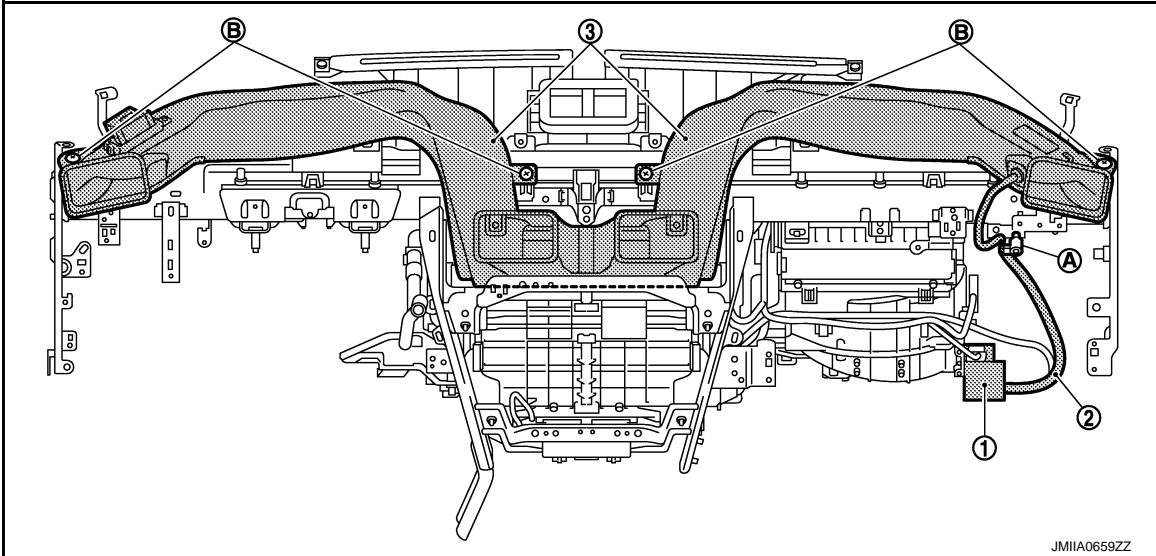
VENTILATOR DUCT

VENTILATOR DUCT : Removal and Installation

INFOID:000000006888176

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-13, "Removal and Installation"](#).
2. Remove tube (2) that is connected to aroma unit (1) and remove clips. (models with forest air conditioning system).
3. Remove fixing screws (B), and then remove ventilator duct (3).



INSTALLATION

Install in the reverse order of removal.

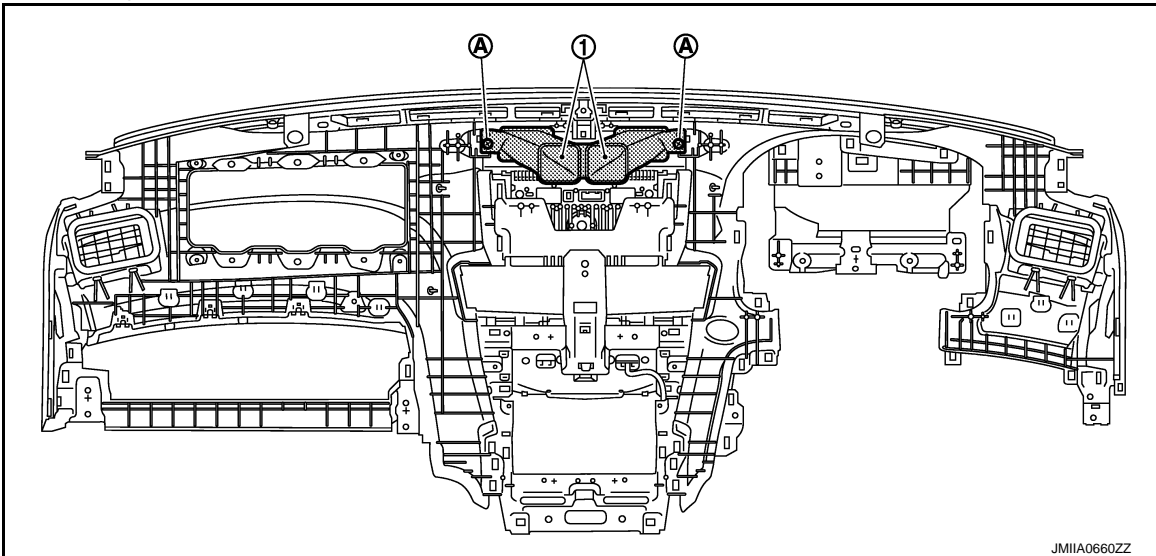
UPPER VENTILATOR DUCT

UPPER VENTILATOR DUCT : Removal and Installation

INFOID:000000006888177

REMOVAL

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



INSTALLATION

DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

Install in the reverse order of removal.

SIDE DEFROSTER DUCT

SIDE DEFROSTER DUCT : Removal and Installation

INFOID:000000006888178

REMOVAL

Remove front pillar garnish. Refer to [INT-30. "FRONT PILLAR GARNISH : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

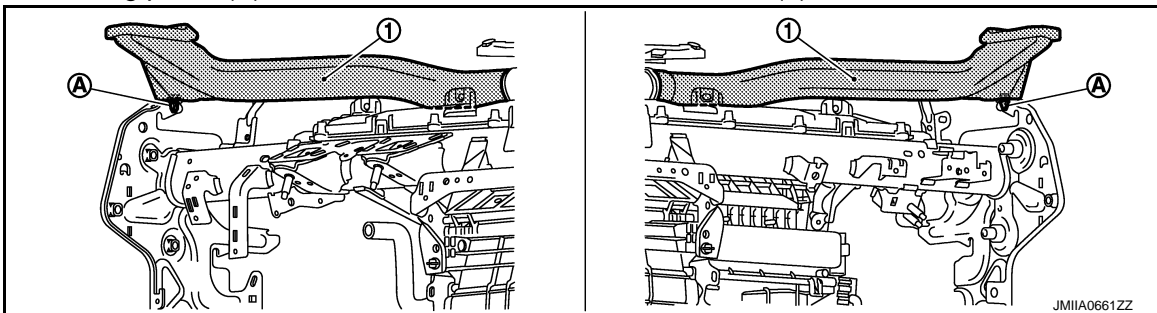
SIDE DEFROSTER NOZZLE

SIDE DEFROSTER NOZZLE : Removal and Installation

INFOID:000000006888179

REMOVAL

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



Driver side

Passenger side

INSTALLATION

Install in the reverse order of removal.

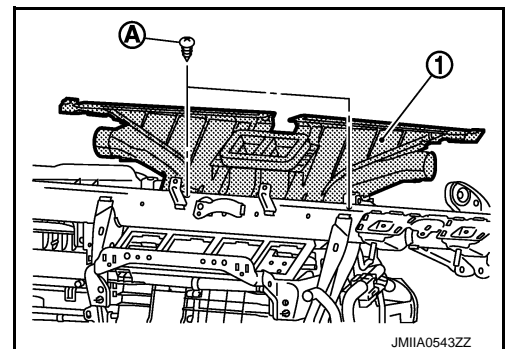
FRONT DEFROSTER NOZZLE

FRONT DEFROSTER NOZZLE : Removal and Installation

INFOID:000000006888180

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-13. "Removal and Installation"](#).
2. Remove side defroster nozzle. Refer to [VTL-11. "SIDE DEFROSTER NOZZLE : Removal and Installation"](#).
3. Remove PCB harness of steering member upper part. Refer to [HA-42. "Exploded View"](#).
4. Remove fixing screws (A), and then remove front defroster nozzle (1).



INSTALLATION

Install in the reverse order of removal.

HEATER DUCT

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DUCT AND GRILLE


< REMOVAL AND INSTALLATION >

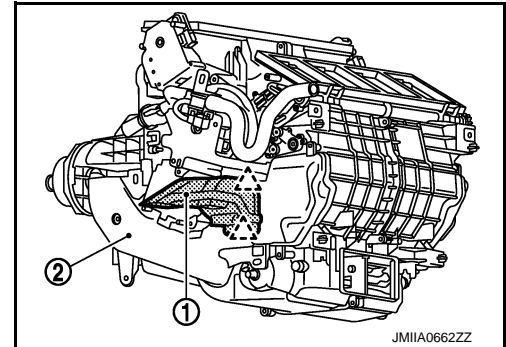
HEATER DUCT : Removal and Installation

INFOID:00000006888181

REMOVAL

Remove fixing pawls, and then remove heater duct (1).

 : Pawl



INSTALLATION

Install in the reverse order of removal.

FOOT DUCT

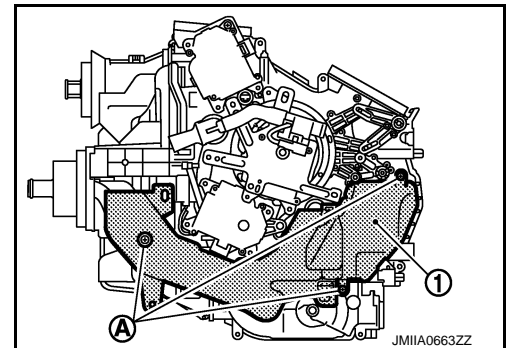
FOOT DUCT : Removal and Installation

INFOID:00000006888182

REMOVAL

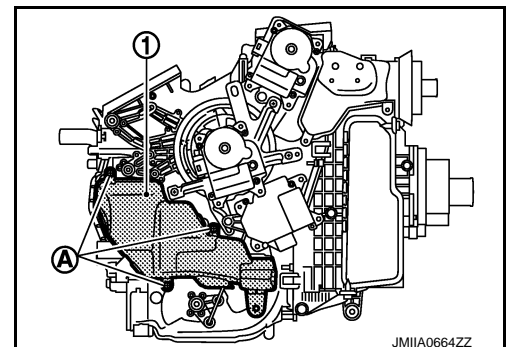
Driver Side

1. Remove A/C unit assembly. Refer to [HA-44, "HEATER & COOLING UNIT ASSEMBLY : Removal and Installation"](#).
2. Remove harness fixing clip and fixing screws (A), and then remove foot duct LH (1).



Passenger Side

1. Remove A/C unit assembly. Refer to [HA-44, "HEATER & COOLING UNIT ASSEMBLY : Removal and Installation"](#).
2. Remove fixing screws (A), and then remove foot duct RH (1).



INSTALLATION

Install in the reverse order of removal.

REAR MODE DOOR CASE

DUCT AND GRILLE


< REMOVAL AND INSTALLATION >

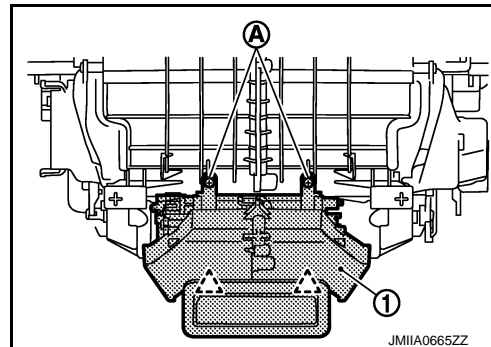
REAR MODE DOOR CASE : Removal and Installation

INFOID:000000006888183

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-13. "Removal and Installation"](#).
2. Remove rear mode door case fixing screws (A).
3. Disengage fixing pawls, and then remove rear mode door case (1).

 : Pawl



INSTALLATION

Install in the reverse order of removal.


REAR VENTILATOR GRILLE

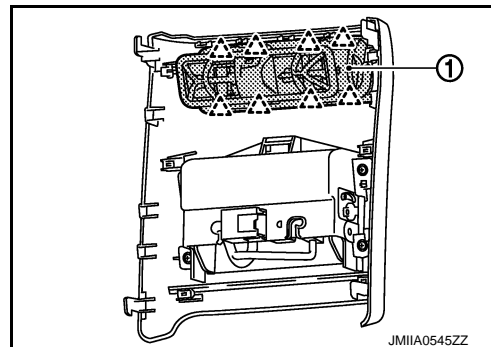
REAR VENTILATOR GRILLE : Removal and Installation

INFOID:000000006888184

REMOVAL

1. Remove rear console finisher. Refer to [IP-24. "Removal and Installation"](#).
2. Disengage fixing pawls, and then remove rear ventilator grille (1).

 : Pawl



INSTALLATION

Install in the reverse order of removal.

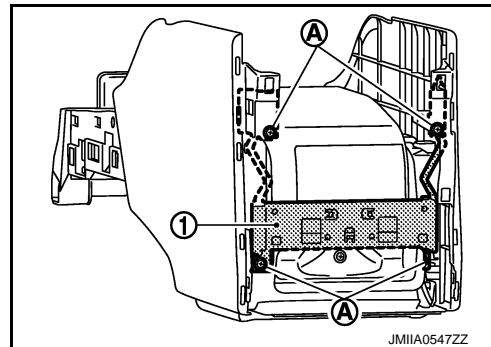
REAR VENTILATOR DUCT

REAR VENTILATOR DUCT : Removal and Installation

INFOID:000000006888185

REMOVAL

1. Remove center console lid assembly. Refer to [IP-27. "Disassembly and Assembly"](#).
2. Remove fixing screws (A), and then remove console rear rain-forcement (1).



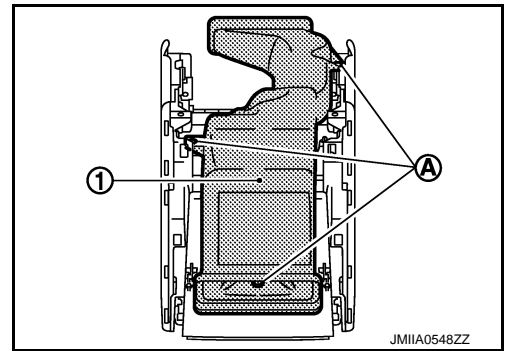
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DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

3. Remove fixing screws (A), and then remove rear ventilator duct (1).



INSTALLATION

Install in the reverse order of removal.

BLOWER UNIT

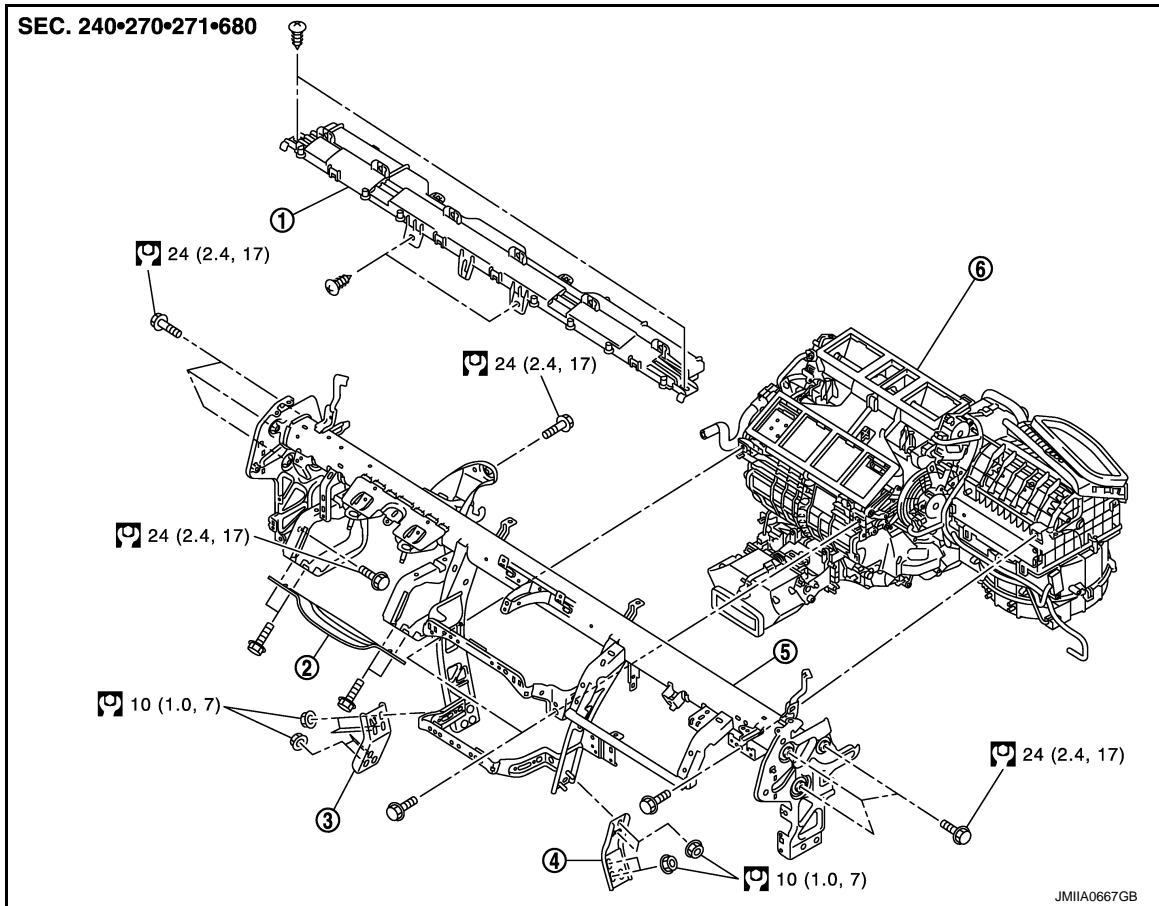
< REMOVAL AND INSTALLATION >

BLOWER UNIT

Exploded View

INFOID:000000006888186

REMOVAL



- 1. PCB harness
- 2. Knee protector
- 3. Instrument stay RH
- 4. Instrument stay LH
- 5. Steering member
- 6. A/C unit assembly

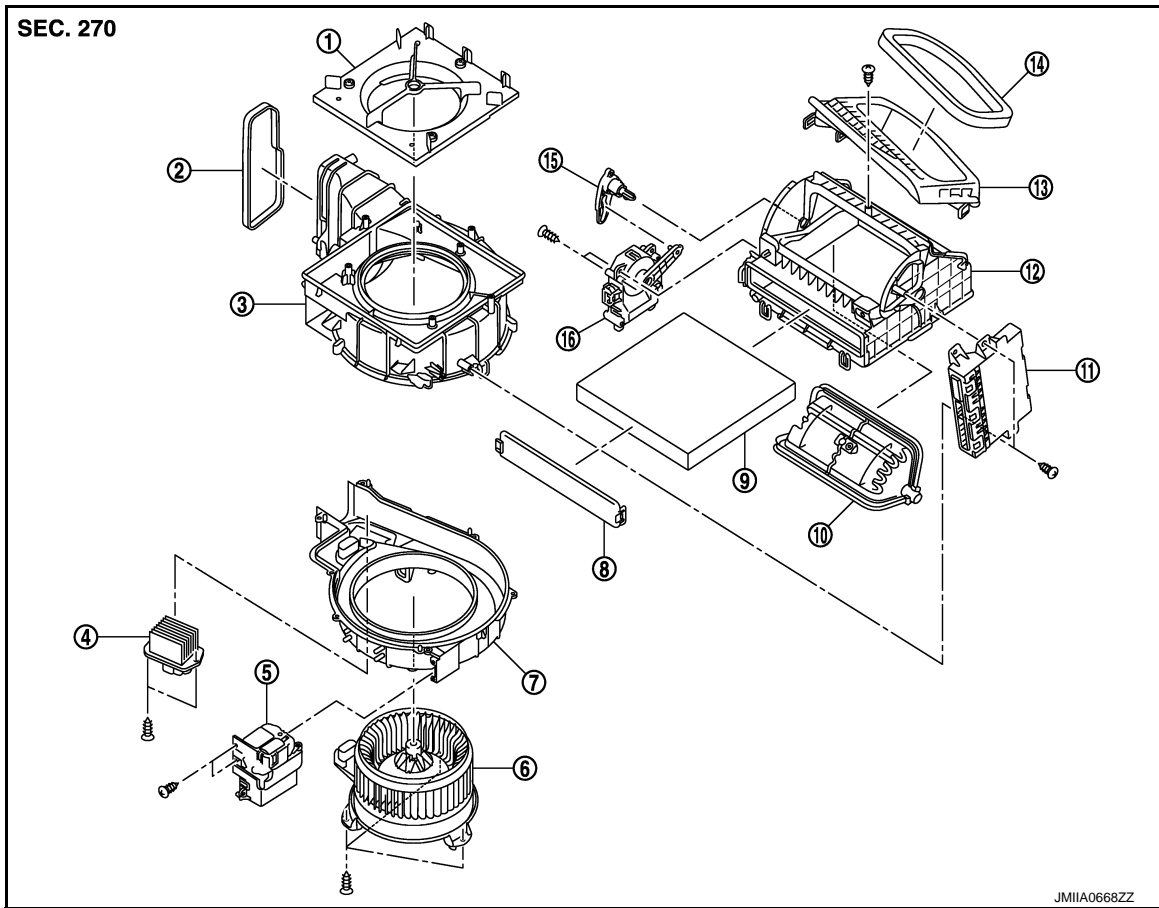
Refer to [GI-4, "Components"](#) for symbols in the figure.

DISASSEMBLY

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BLOWER UNIT

< REMOVAL AND INSTALLATION >



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|----------------------|-------------------|-------------------------|
| 1. Intake bell mouth | 2. Seal | 3. Intake upper case |
| 4. Power transistor | 5. Aroma unit | 6. Blower motor |
| 7. Intake lower case | 8. Filter cover | 9. In-cabin microfilter |
| 10. Intake door | 11. A/C auto amp. | 12. Intake box |
| 13. Intake box duct | 14. Seal | 15. Intake door lever |
| 16. Intake door link | | |

BLOWER UNIT

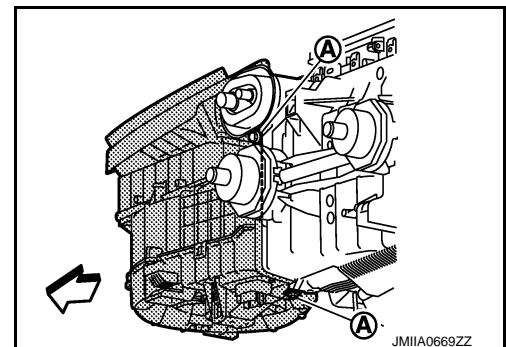
BLOWER UNIT : Removal and Installation

INFOID:000000006888187

REMOVAL

1. Remove A/C unit assembly. Refer to [HA-44, "HEATER & COOLING UNIT ASSEMBLY : Removal and Installation"](#)
2. Remove fixing screws (A), and then separate blower unit and heater & cooling unit assembly.

← : Vehicle front



INSTALLATION

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

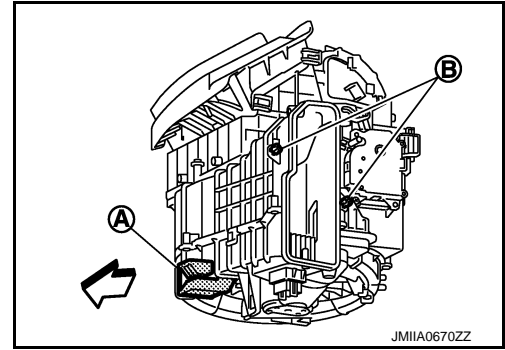
BLOWER UNIT

< REMOVAL AND INSTALLATION >

CAUTION:

Check locating pin (A) and joint portions (B) are fitted completely.

← : Vehicle front



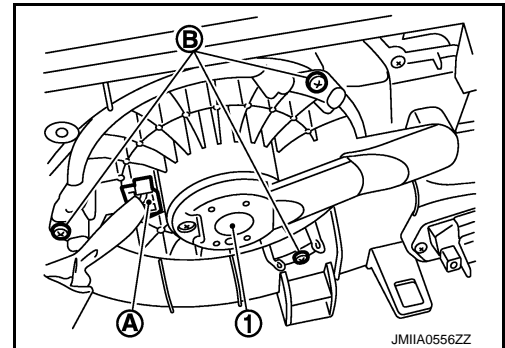
BLOWER MOTOR

BLOWER MOTOR : Removal and Installation

INFOID:000000006888188

REMOVAL

1. Remove instrument lower cover. Refer to [IP-13, "Removal and Installation"](#).
2. Disconnect blower motor connector (A).
3. Remove fixing screws (B), and then remove blower motor (1).



INSTALLATION

Install in the reverse order of removal.

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IN-CABIN MICROFILTER

< REMOVAL AND INSTALLATION >

IN-CABIN MICROFILTER

Exploded View

INFOID:000000006888189

Refer to [VTL-15, "Exploded View"](#).

Removal and Installation

INFOID:000000006888190

REMOVAL

1. Remove instrument lower panel RH. Refer to [IP-13, "Removal and Installation"](#).
2. Remove filter cover, and then remove in-cabin microfilter.

INSTALLATION

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

CAUTION:

- **If the filter is deformed/damaged when removing, replace it with a new one. Deformed/damaged filter may deteriorate the duct collecting performance.**
- **When installing, handle the filter with extreme care to avoid deforming/damaging.**

Replacement

INFOID:000000006888191

Replace in-cabin microfilter.

Refer to [VTL-19, "In-cabin microfilter"](#).

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

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

In-cabin microfilter

INFOID:0000000006888192

Replacement interval	MA-9, "FOR NORTH AMERICA : Schedule 1" and MA-11, "FOR NORTH AMERICA : Schedule 2"
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