SECTION VTL
VENTILATION SYSTEM

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PRECAUTION

PRECAUTIONS

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

INFOID:0000000014852587

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 SR and SB section 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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, 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 SR section.**
- **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

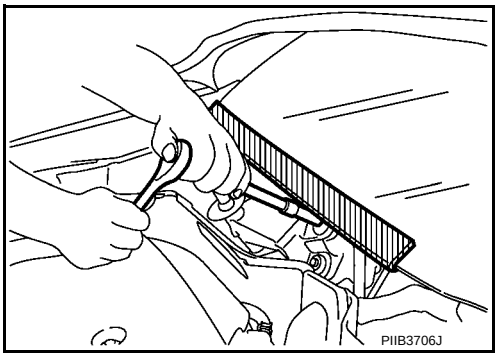
WARNING:

- **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 or batteries, and wait at least three minutes before performing any service.**

Procedure without Cowl Top Cover

INFOID:0000000014625842

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc. to prevent damage to the windshield.



Precaution for Work

INFOID:0000000014625843

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:

- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

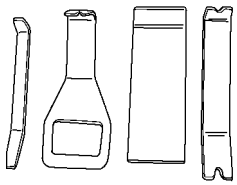
PREPARATION

PREPARATION

Special Service Tool

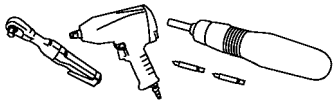
INFOID:0000000014625844

The actual shape of tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tool

INFOID:0000000014625845

(TechMate No.) Tool name	Description
(—) Power Tool  PIIB1407E	Loosening nuts, screws and bolts

PERIODIC MAINTENANCE

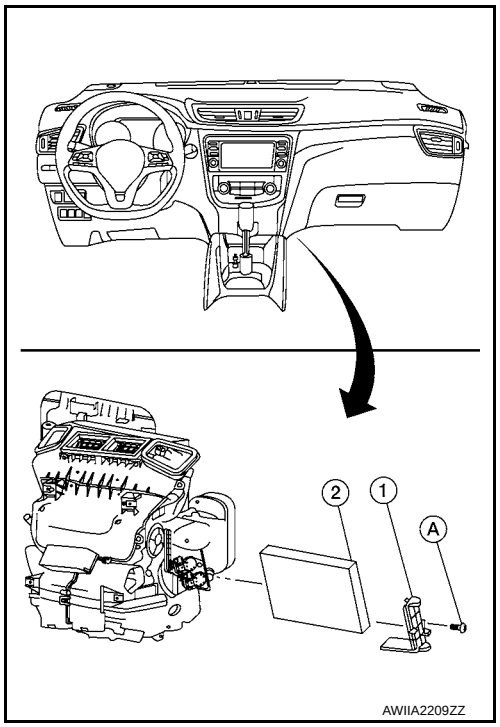
IN-CABIN MICROFILTER

Removal and Installation

INFOID:0000000014625846

REMOVAL

1. Remove center console side finisher (RH). Refer to IP-18, "Exploded View".
2. Remove screw (A), then release the tab and remove the in-cabin microfilter cover (1).
   CAUTION:
   Use care when lifting up on the in-cabin microfilter tab to avoid damaging it.
3. Remove the in-cabin microfilter (2).
   CAUTION:
   If the filter is deformed/damaged when removing, replace it with a new one. A deformed or damaged filter may affect the dust collecting performance.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

When installing, handle the in-cabin microfilter with extreme care to avoid deformation or damage.

SYSTEM DESCRIPTION

VENTILATION SYSTEM

System Description

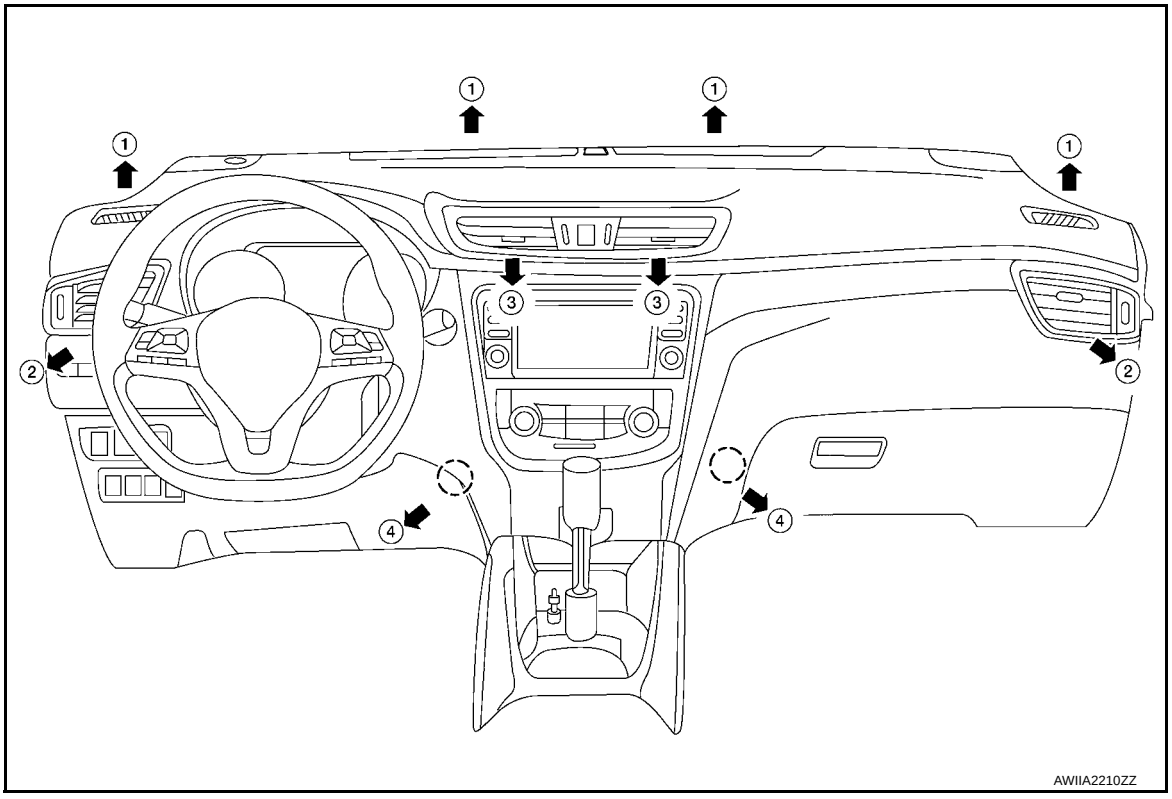
INFOID:0000000014625847

OUTLINE

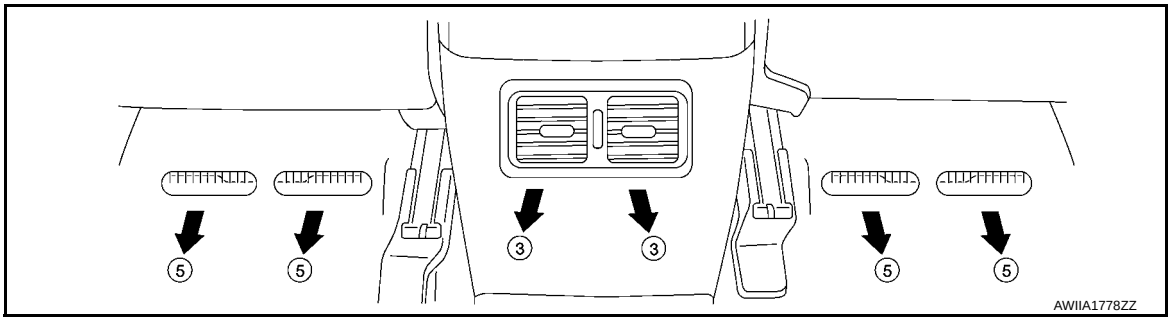
Automatic A/C
The ventilation system is controlled by the A/C switch assembly. For details of the automatic air conditioner system, refer to HAC-15, "System Description".

AIR FLOW

Front



Rear



×: Applicable

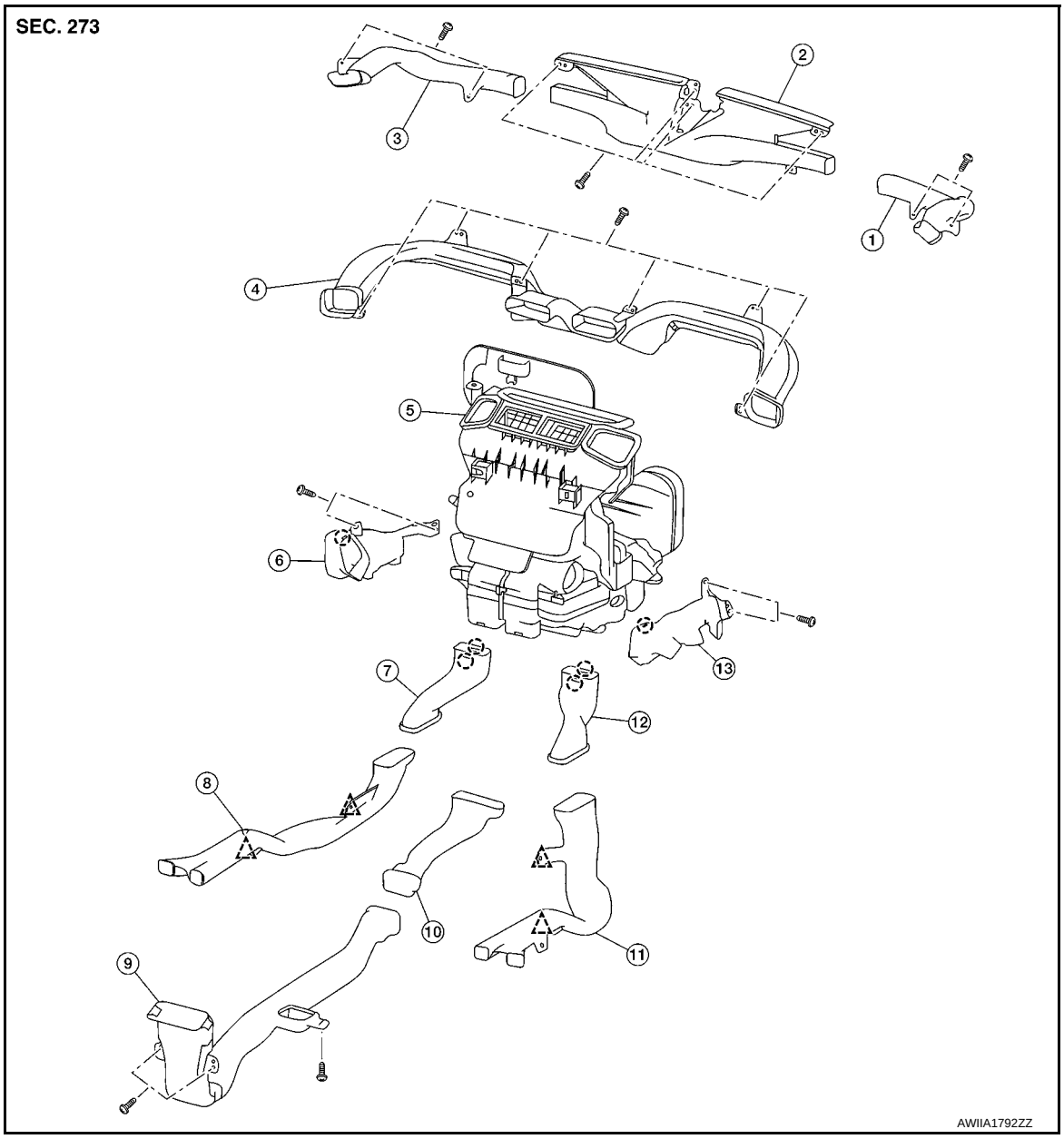
Discharge air flow						
MODE/DEF setting position	Air outlet/distribution					
	Ventilator			Foot		Defroster (6)
	Front		Rear (3)	Front (4)	Rear (5)	
	Center (1)	Side (2)				
	×	×	×	—	—	—
	×	×	×	×	×	—
	—	×	×	×	×	×
	—	×	×	×	×	×
	—	×	×	—	—	×

REMOVAL AND INSTALLATION

DUCTS AND GRILLES

Exploded View

INFOID:0000000014625848



1. Side defroster duct (RH)
2. Defroster nozzle
3. Side defroster duct (LH)
4. Center ventilator duct
5. Heating and cooling unit assembly
6. Front foot duct (LH)
7. Front floor connecting duct (LH)
8. Front floor duct (LH)
9. Rear center ventilator duct
10. Adaptor duct
11. Front floor duct (RH)
12. Front floor connecting duct (RH)
13. Front foot duct (RH)

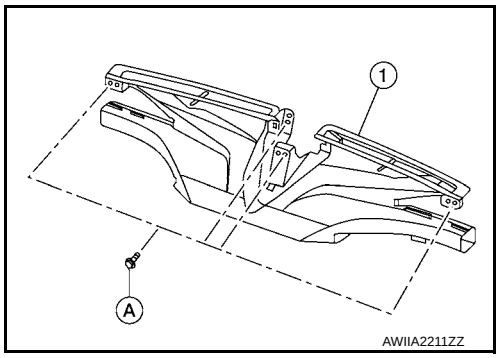
DEFROSTER NOZZLE

DEFROSTER NOZZLE : Removal and Installation

INFOID:0000000014625849

REMOVAL

1. Remove side defroster ducts (LH/RH). Refer to VTL-9, "SIDE DEFROSTER DUCT : Removal and Installation".
2. Remove screws (A) and defroster nozzle (1).



INSTALLATION
Installation is in the reverse order of removal.

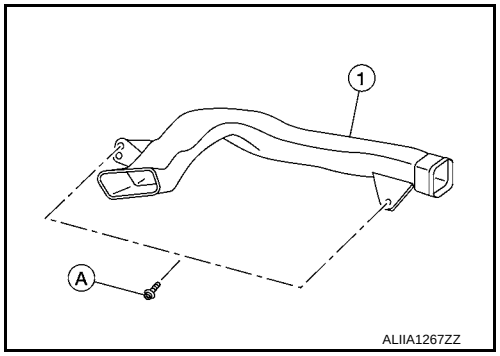
SIDE DEFROSTER DUCT

SIDE DEFROSTER DUCT : Removal and Installation

INFOID:0000000014625850

REMOVAL

1. Remove the instrument panel assembly. Refer to IP-14, "INSTRUMENT PANEL ASSEMBLY : Removal and Installation".
2. Remove the screws (A) and the side defroster duct (LH) (1).
   NOTE:
   LH side shown; RH similar.



INSTALLATION
Installation is in the reverse order of removal.

CENTER VENTILATOR DUCT

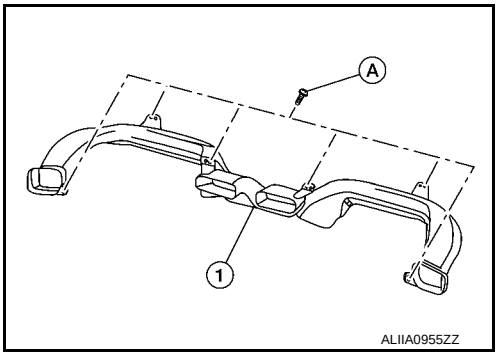
CENTER VENTILATOR DUCT : Removal and Installation

INFOID:0000000014625851

REMOVAL

1. Remove instrument panel assembly. Refer to IP-14, "INSTRUMENT PANEL ASSEMBLY : Removal and Installation".

2. Remove screws (A) and center ventilator duct (1).



INSTALLATION
Installation is in the reverse order of removal.

FRONT FOOT DUCT

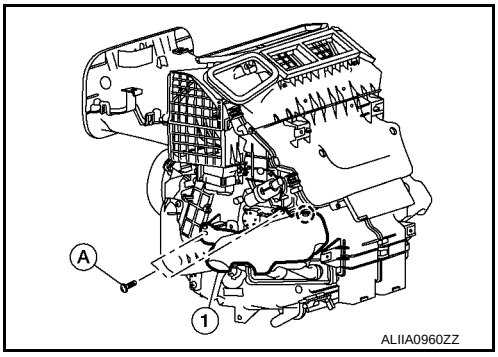
FRONT FOOT DUCT : Removal and Installation

INFOID:0000000014625852

REMOVAL

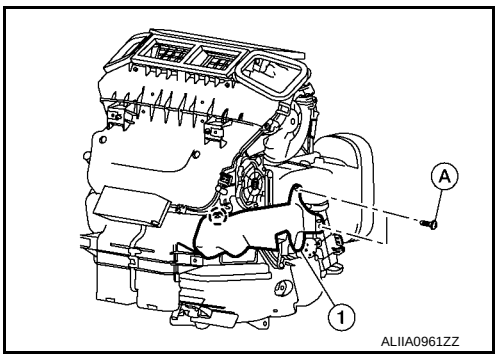
Front foot duct (LH)

1. Remove instrument lower panel (LH). Refer to IP-22, "Removal and Installation".
2. Remove center console side finisher (LH). Refer to IP-18, "Exploded View".
3. Remove screws (A).
4. Release the pawl and remove front foot duct (LH) (1).
   ◌: Pawl



Front foot duct (RH)

1. Remove glove box assembly. Refer to IP-23, "Removal and Installation".
2. Remove screws (A).
3. Release the pawl and remove front foot duct (RH) (1).
   ◌: Pawl



INSTALLATION
Installation is in the reverse order of removal.

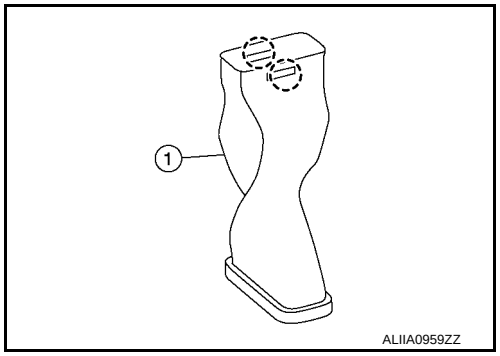
FRONT FLOOR DUCT

FRONT FLOOR DUCT : Removal and Installation - Front Floor Connecting Duct

INFOID:0000000014625853

REMOVAL

1. Remove the center console assembly. Refer to IP-18, "Removal and Installation".
2. Release the pawls and remove front floor connecting duct (LH) (1).
   : Pawl
   NOTE:
   LH side shown; RH similar.



INSTALLATION

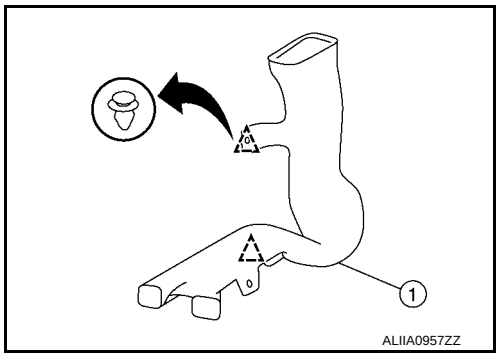
Installation is in the reverse order of removal.

FRONT FLOOR DUCT : Removal and Installation - Front Floor Duct

INFOID:0000000014625854

REMOVAL

1. Remove front seat (LH or RH). Refer to SE-34, "DRIVER SIDE : Removal and Installation" (LH) or SE-36, "PASSENGER SIDE : Removal and Installation" (RH).
2. Remove center console. Refer to IP-18, "Removal and Installation".
3. Remove dash side finisher. Refer to INT-24, "DASH SIDE FINISHER : Removal and Installation".
4. Remove front floor connecting duct (LH or RH). Refer to VTL-11, "FRONT FLOOR DUCT : Removal and Installation - Front Floor Connecting Duct".
5. Place aside carpet.
6. Release clips using a suitable tool and remove front floor duct (LH) (1).
   : Clip
   NOTE:
   RH side shown; LH similar.



INSTALLATION

Installation is in the reverse order of removal.

ADAPTOR DUCT

ADAPTOR DUCT : Removal and Installation

INFOID:0000000014625855

REMOVAL

1. Remove center console assembly. Refer to IP-18, "Removal and Installation".
2. Remove the adaptor duct.

INSTALLATION

Installation is in the reverse order of removal.

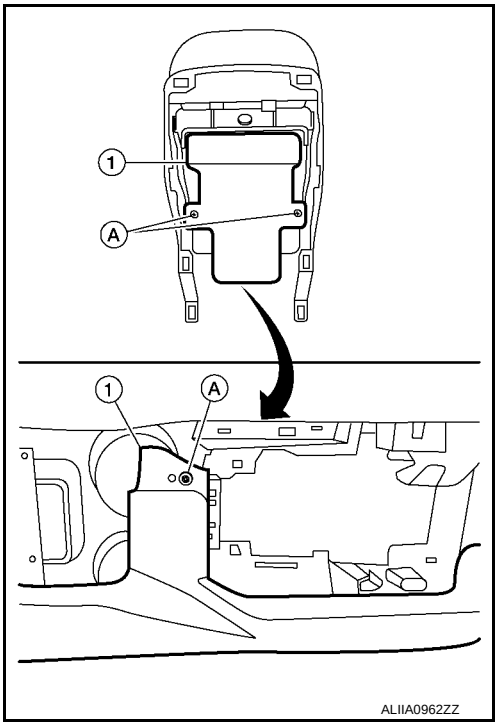
REAR CENTER VENTILATOR DUCT

REAR CENTER VENTILATOR DUCT : Removal and Installation

INFOID:0000000014625856

REMOVAL

1. Remove center console assembly. Refer to IP-18, "Removal and Installation".
2. Remove screws (A), then remove rear center ventilator duct (1).

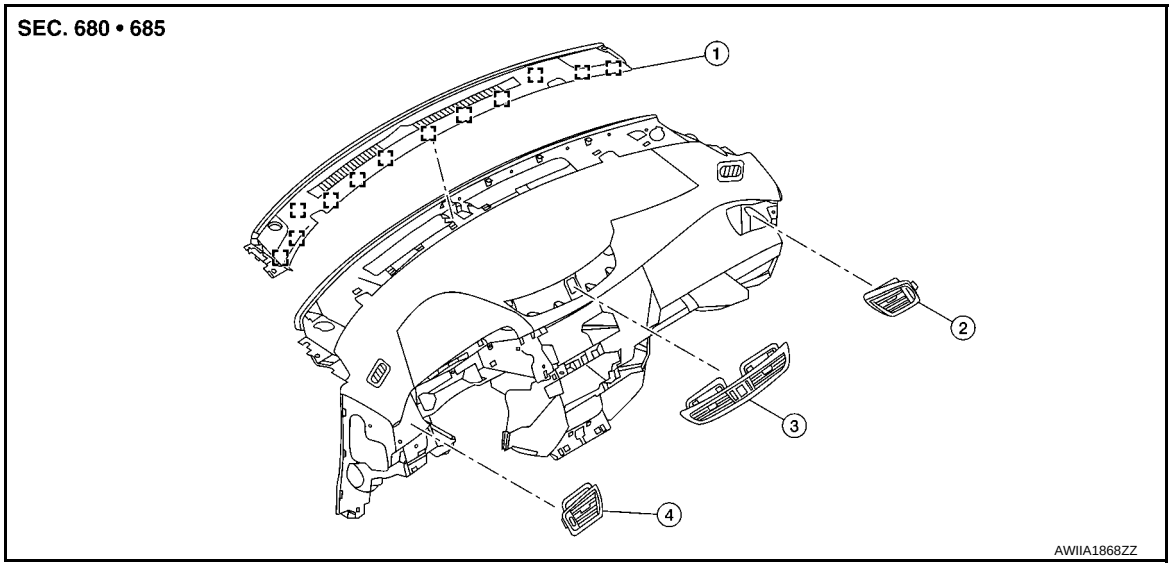


INSTALLATION

Installation is in the reverse order of removal.

Exploded View

INFOID:0000000014625857



1. Defroster grille
2. Side ventilator grille (RH)
3. Center ventilator grille
4. Side ventilator grille (RH)

DEFROSTER GRILLE

DEFROSTER GRILLE : Removal and Installation

INFOID:0000000014625858

REMOVAL

1. Remove front pillar finishers (LH/RH). Refer to INT-20, "FRONT PILLAR FINISHER : Removal and Installation".
2. Release defroster grille clips using a suitable tool.
3. Remove defroster grille.

INSTALLATION

Installation is in the reverse order of removal.

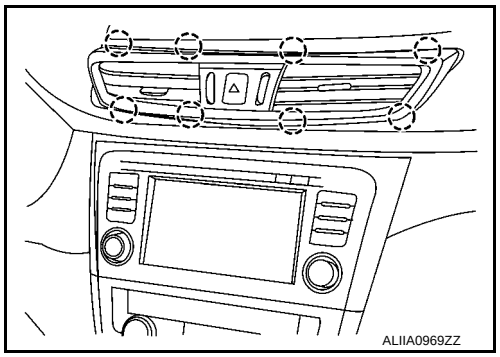
CENTER VENTILATOR GRILLE

CENTER VENTILATOR GRILLE : Removal and Installation

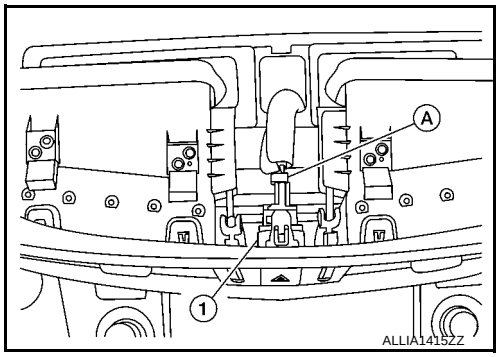
INFOID:0000000014625859

REMOVAL

1. Release the pawls using a suitable tool and remove center ventilator grille from instrument panel.
   ◌: Pawl



2. Disconnect the harness connector (A) from hazard switch (1).



INSTALLATION

Installation is in the reverse order of removal.

SIDE VENTILATOR GRILLE

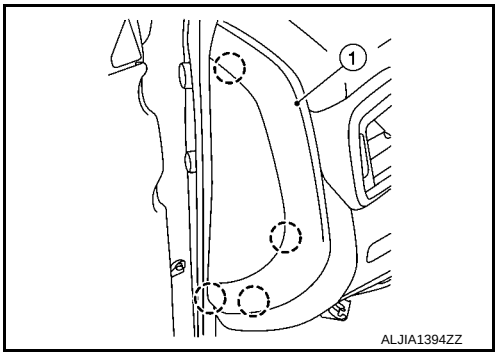
SIDE VENTILATOR GRILLE : Removal and Installation

INFOID:0000000014625860

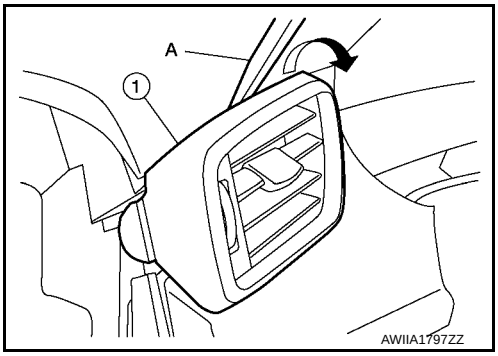
REMOVAL

Side ventilator grille (LH)

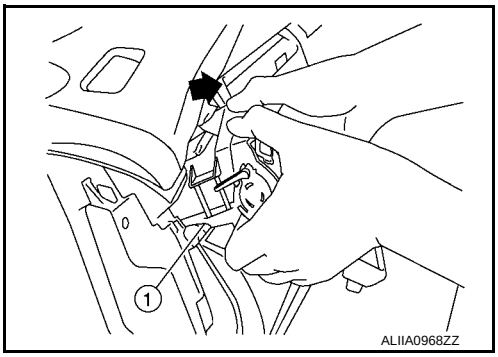
1. Release the pawls using a suitable tool, then remove instrument side finisher (LH) (1).
   ◌: Pawl



2. Insert a suitable tool (A) at the top of the side ventilator grille (LH) (1) and release as shown.

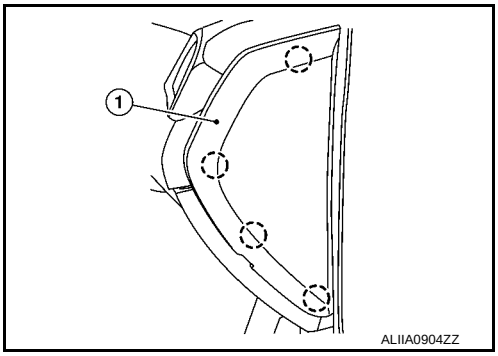


3. Remove side ventilator grille (1) in the direction shown (⬅).

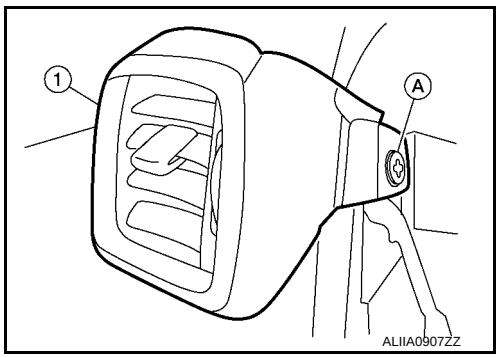


Side ventilator grille (RH)

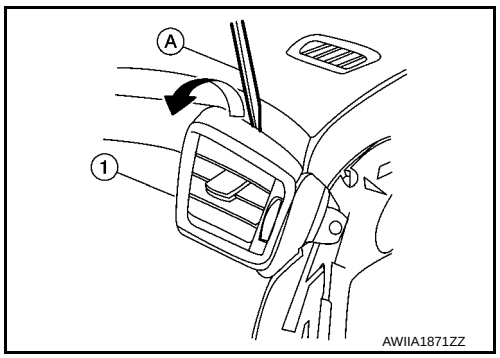
1. Release the pawls using a suitable tool and remove instrument side finisher (1).
   ◌: Pawl



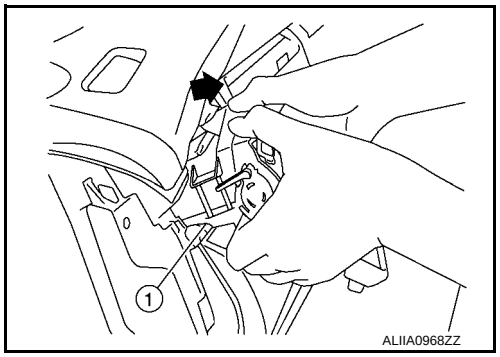
2. Remove side ventilator grille (RH) screw (A).



3. Insert a suitable tool (A) at the top of the side ventilator grille (1) and release as shown.



4. Remove side ventilator grille (1) in the direction shown (⬅).
NOTE:
LH side shown; RH side similar.



INSTALLATION
Installation is in the reverse order of removal.

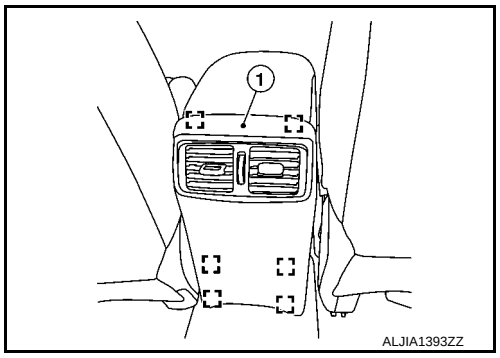
REAR CENTER VENTILATOR GRILLE

REAR CENTER VENTILATOR GRILLE : Removal and Installation

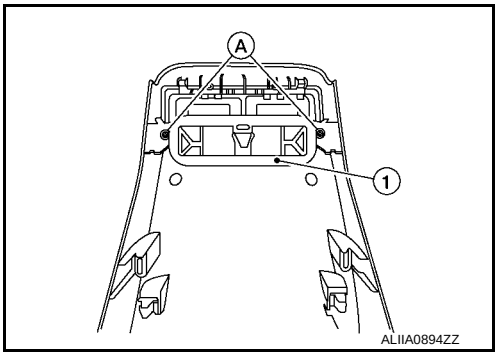
INFOID:0000000014625861

REMOVAL

1. Release clips using a suitable tool, then remove center console rear finisher (1).
⬚: Metal clip



2. Remove screws (A) and rear center ventilator grille (1).



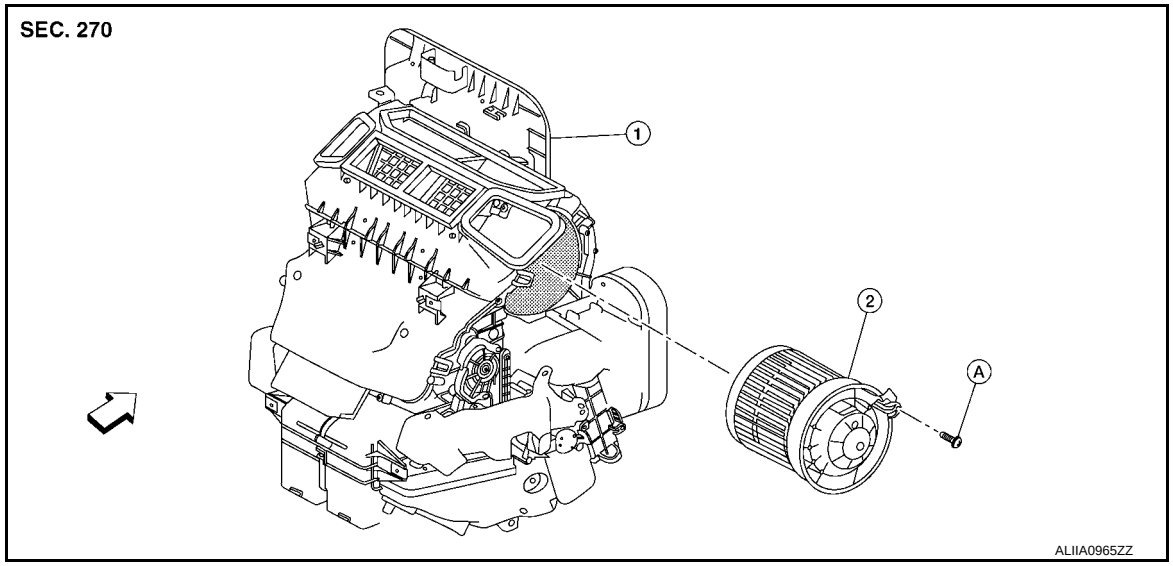
INSTALLATION

Installation is in the reverse order of removal.

BLOWER MOTOR

Exploded View

INFOID:0000000014625862



1. Heating and cooling unit assembly
2. Blower motor
A. Screw

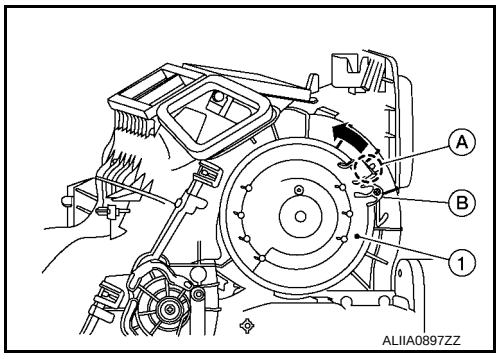
⇦ Front

Removal and Installation

INFOID:0000000014625863

REMOVAL

1. Remove glove box assembly and housing. Refer to IP-23, "Removal and Installation".
2. Remove center console side finisher (LH/RH). Refer to IP-18, "Exploded View".
3. Disconnect the harness connector from the blower motor.
4. Remove blower motor screw (B).
5. Release hook (A) then rotate the blower motor (1) counterclockwise and remove.
   ◌: Hook



INSTALLATION

Installation is in the reverse order of removal.

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

In-cabin Microfilter

INFOID:0000000014625864

Replacement interval	Refer to MA-7, "Introduction of Periodic Maintenance".