

SECTION **VTL** VENTILATION SYSTEM

CONTENTS

PRECAUTION	2	SIDE VENTILATOR GRILLE	6
PRECAUTIONS	2	SIDE VENTILATOR GRILLE : Removal and Installation	6
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	2	SIDE DEFROSTER GRILLE	6
Precaution for Work	2	SIDE DEFROSTER GRILLE : Removal and Installation	6
PREPARATION	3	CENTER VENTILATOR DUCT	7
PREPARATION	3	CENTER VENTILATOR DUCT : Removal and Installation	7
Special Service Tool	3	CENTER DEFROSTER DUCT	7
Commercial Service Tool	3	CENTER DEFROSTER DUCT : Removal and Installation	7
SYSTEM DESCRIPTION	4	SIDE DEFROSTER DUCT	7
VENTILATION SYSTEM	4	SIDE DEFROSTER DUCT : Removal and Installation	7
System Description	4	FOOT DUCT	7
REMOVAL AND INSTALLATION	5	FOOT DUCT : Removal and Installation	7
DUCT AND GRILLE	5	REAR FLOOR DUCT	8
Exploded View	5	REAR FLOOR DUCT : Removal and Installation	8
CENTER VENTILATOR GRILLE	6	FRONT BLOWER MOTOR	9
CENTER VENTILATOR GRILLE : Removal and Installation	6	Exploded View	9
		Removal and Installation	9

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000012430544

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, 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 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 Airbag Diagnosis Sensor Unit or other Airbag 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 three minutes before performing any service.

Precaution for Work

INFOID:000000012430545

- 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 >

PREPARATION

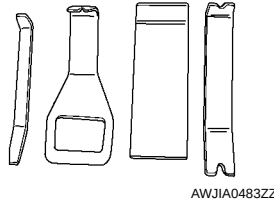
PREPARATION

Special Service Tool

INFOID:0000000012430546

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

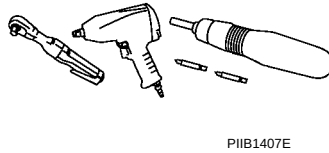
Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set	Removing trim components



Commercial Service Tool

INFOID:0000000012430547

Tool name	Description
Power tool	Loosening nuts, screws and bolts



VENTILATION SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

VENTILATION SYSTEM

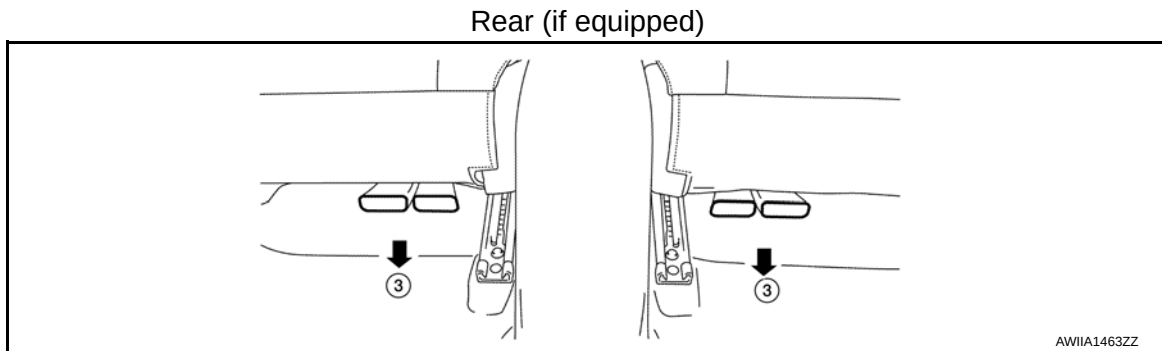
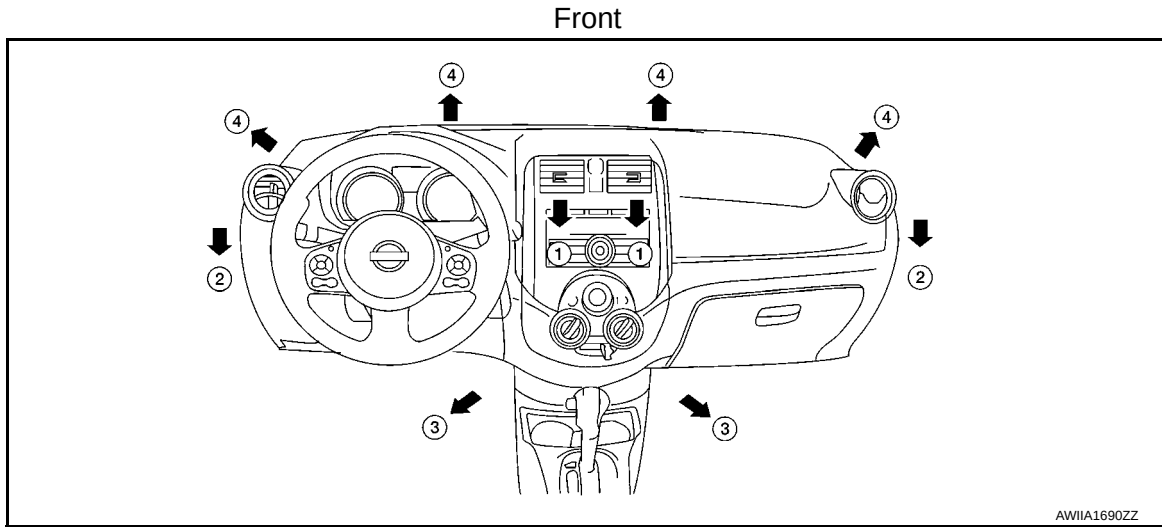
System Description

INFOID:000000012430548

OUTLINE

The ventilation system is controlled by the front air control.

AIR FLOW



×: Applicable

MODE/DEF setting	AIR OUTLET				
	Ventilator		Foot		Defroster (4)
	Center (1)	Side (2)	Front (3)	Rear (3) (Canada only)	
	×	×	—	—	—
	×	×	×	×	—
	—	×	×	×	×
	—	×	×	×	×
	—	×	—	—	×

DUCT AND GRILLE

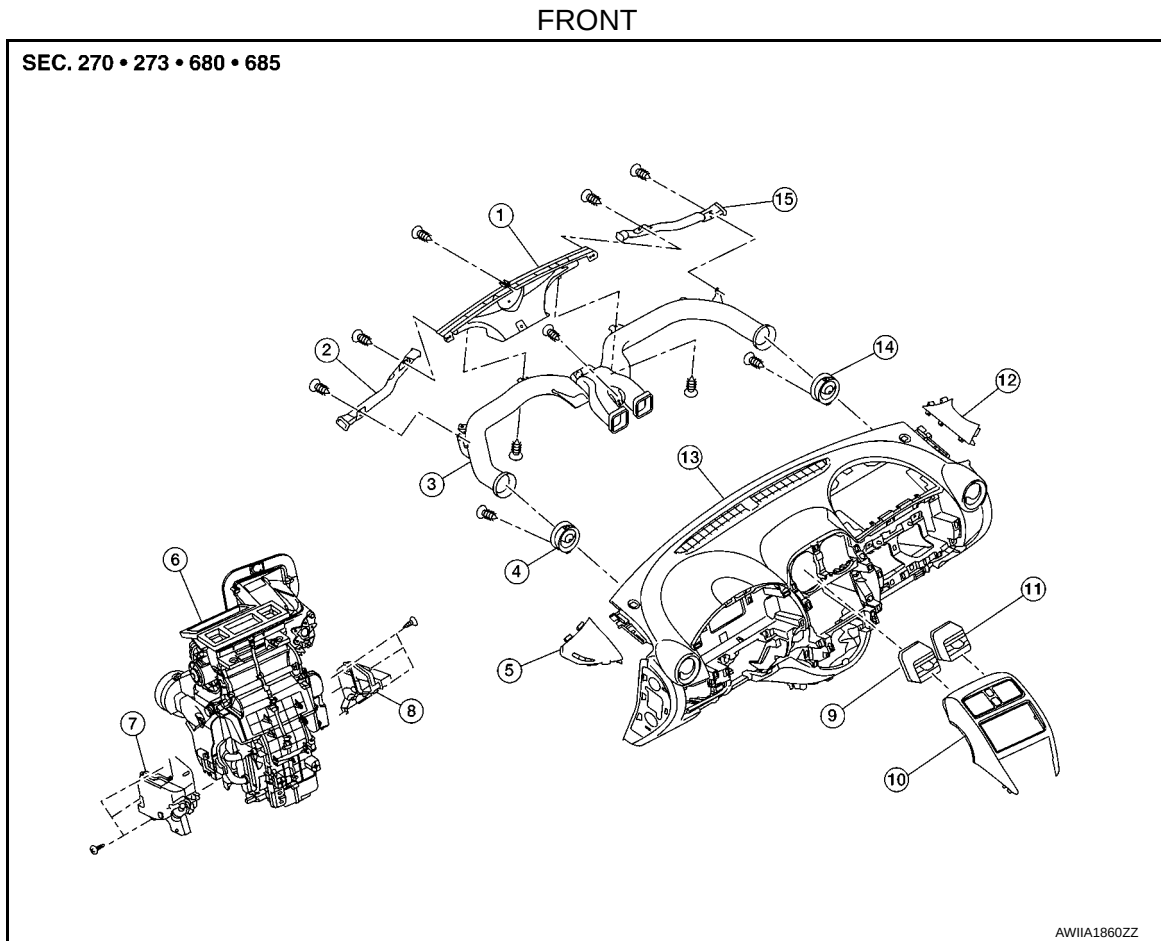
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

DUCT AND GRILLE

Exploded View

INFOID:000000012430549

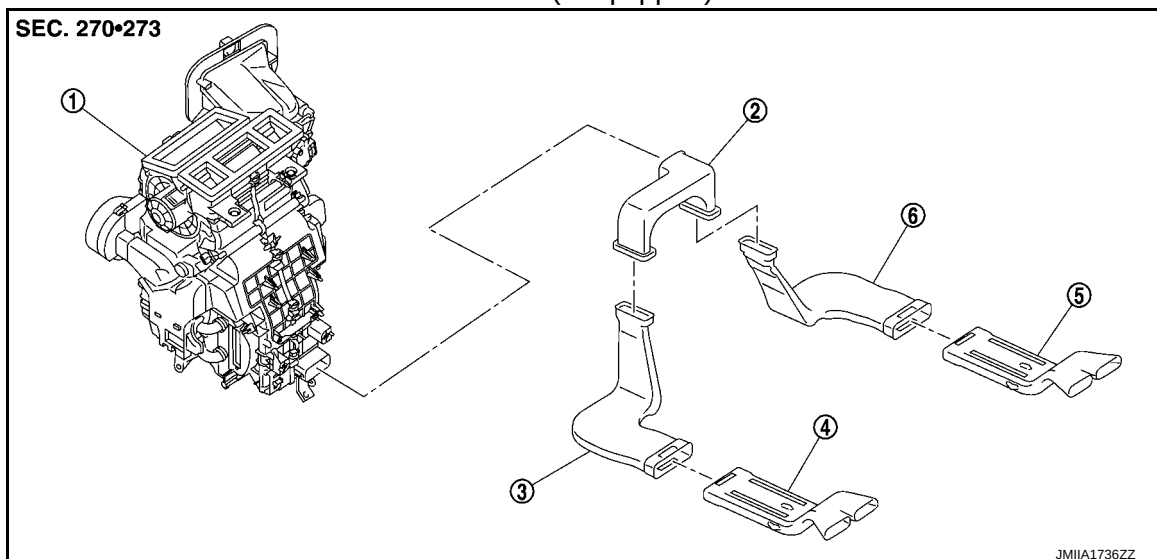


- | | | |
|--------------------------------|-----------------------------------|--------------------------------------|
| 1. Center defroster duct | 2. Side defroster duct (LH) | 3. Center ventilator duct |
| 4. Side ventilator grille (LH) | 5. Side defroster grille (LH) | 6. Heating and cooling unit assembly |
| 7. Foot duct (LH) | 8. Foot duct (RH) | 9. Center ventilator grille (LH) |
| 10. Cluster lid C | 11. Center ventilator grille (RH) | 12. Side defroster grille (RH) |
| 13. Instrument panel assembly | 14. Side ventilator grille (RH) | 15. Side defroster duct (RH) |

DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

REAR (if equipped)



- | | | |
|--------------------------------------|---------------------------|-------------------------|
| 1. Heating and cooling unit assembly | 2. Connector duct | 3. Rear floor duct (LH) |
| 4. Rear floor nozzle (LH) | 5. Rear floor nozzle (RH) | 6. Rear floor duct (RH) |

CENTER VENTILATOR GRILLE

CENTER VENTILATOR GRILLE : Removal and Installation

INFOID:0000000012430550

REMOVAL

1. Remove cluster lid C. Refer to [IP-22, "Removal and Installation"](#).
2. Release pawls and remove the center ventilator grille from cluster lid C.

INSTALLATION

Installation is in the reverse order of removal.

SIDE VENTILATOR GRILLE

SIDE VENTILATOR GRILLE : Removal and Installation

INFOID:0000000012430551

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-15, "Removal and Installation"](#).
2. Remove center ventilator duct. Refer to [VTL-7, "CENTER VENTILATOR DUCT : Removal and Installation"](#).
3. Remove screw and the side ventilator grille.

INSTALLATION

Installation is in the reverse order of removal.

SIDE DEFROSTER GRILLE

SIDE DEFROSTER GRILLE : Removal and Installation

INFOID:0000000012430552

REMOVAL

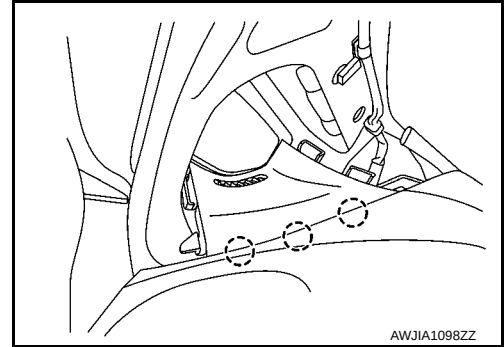
1. Remove front pillar finisher. Refer to [INT-21, "FRONT PILLAR FINISHER : Removal and Installation"](#).

DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

2. Release side defroster grille pawls using a suitable tool and remove.

○: Pawl



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Visually check the pawls for deformation and damage during installation. Replace with a new component if necessary.
- When installing side defroster grille, check that all pawls are securely placed into instrument panel assembly.

CENTER VENTILATOR DUCT

CENTER VENTILATOR DUCT : Removal and Installation

INFOID:0000000012430553

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-15, "Removal and Installation"](#).
2. Remove side defroster ducts. Refer to [VTL-7, "SIDE DEFROSTER DUCT : Removal and Installation"](#).
3. Remove center defroster duct. Refer to [VTL-7, "CENTER DEFROSTER DUCT : Removal and Installation"](#).
4. Remove screw and center ventilator duct from instrument panel assembly.

INSTALLATION

Installation is in the reverse order of removal.

CENTER DEFROSTER DUCT

CENTER DEFROSTER DUCT : Removal and Installation

INFOID:0000000012430554

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-15, "Removal and Installation"](#).
2. Remove screws and center defroster duct from instrument panel assembly.

INSTALLATION

Installation is in the reverse order of removal.

SIDE DEFROSTER DUCT

SIDE DEFROSTER DUCT : Removal and Installation

INFOID:0000000012430555

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-15, "Removal and Installation"](#).
2. Remove screws and side defroster duct from instrument panel assembly.

INSTALLATION

Installation is in the reverse order of removal.

FOOT DUCT

FOOT DUCT : Removal and Installation

INFOID:0000000012430556

FOOT DUCT

DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

Removal

1. Remove instrument panel assembly. Refer to [IP-15, "Removal and Installation"](#).
2. Remove screws and foot duct (LH/RH) from heating and cooling unit assembly.

Installation

Installation is in the reverse order of removal.

REAR FLOOR DUCT

REAR FLOOR DUCT : Removal and Installation

INFOID:0000000012430557

REMOVAL

1. Remove driver seat (if necessary). Refer to [SE-20, "DRIVER SIDE : Removal and Installation"](#).
2. Remove passenger seat (if necessary). Refer to [SE-22, "PASSENGER SIDE : Removal and Installation"](#).
3. Remove rear seat cushion. Refer to [SE-26, "SEAT CUSHION : Removal and Installation"](#).
4. Remove dash side finisher (LH/RH). Refer to [INT-24, "DASH SIDE FINISHER : Removal and Installation"](#).
5. Remove center pillar lower finisher (LH/RH). Refer to [INT-25, "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).
6. Remove center console lower. Refer to [IP-20, "Removal and Installation"](#).
7. Position floor trim and floor insulators aside.
8. Release and remove rear floor ducts.

INSTALLATION

Install in the reverse order of removal.

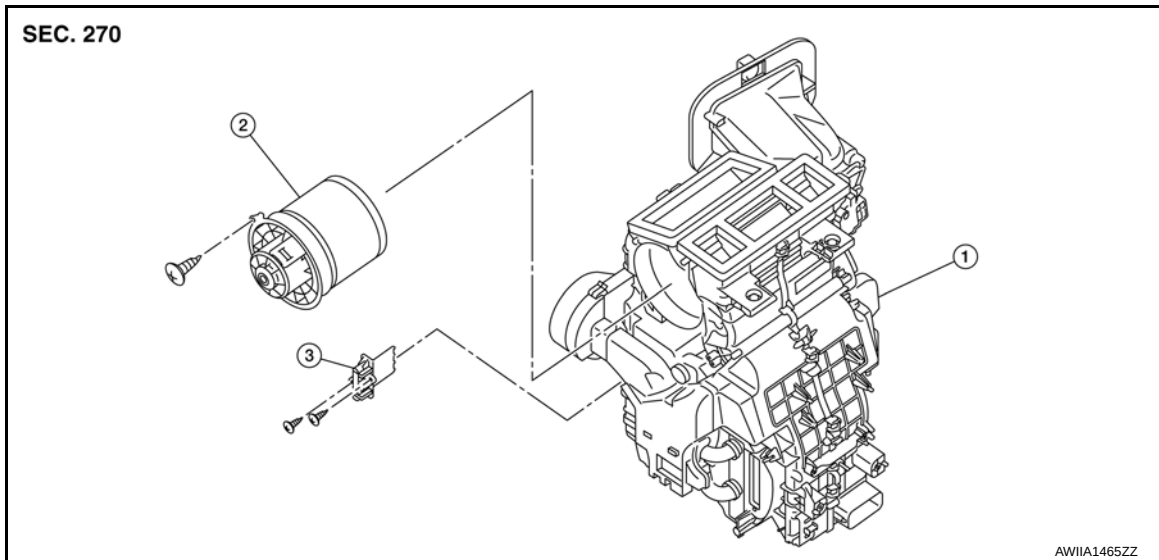
FRONT BLOWER MOTOR

< REMOVAL AND INSTALLATION >

FRONT BLOWER MOTOR

Exploded View

INFOID:000000012430558



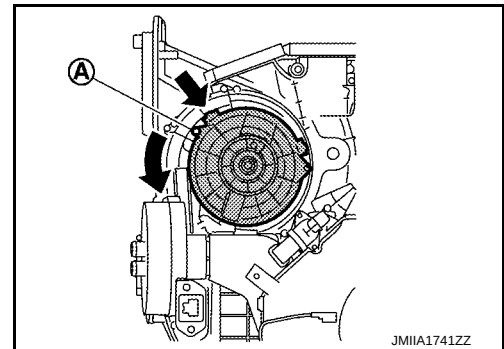
1. Heating and cooling unit assembly 2. Front blower motor 3. Front blower motor resistor

Removal and Installation

INFOID:000000012430559

REMOVAL

1. Disconnect the negative battery terminal. Refer to [PG-70, "Exploded View"](#).
2. Remove instrument lower panel LH. Refer to [IP-24, "Removal and Installation"](#).
3. Remove knee bolster. Refer to [IP-14, "Exploded View"](#).
4. Remove the accelerator pedal assembly. Refer to [ACC-3, "Removal and Installation"](#).
5. Remove the brake pedal assembly. Refer to [BR-20, "Removal and Installation"](#).
6. Disconnect the harness connectors from the front blower motor.
7. Disconnect the harness connector from the thermo control amp.
8. Remove the front blower motor screw (A).
9. Press the flange holding hook, turn the front blower motor counterclockwise and remove.



INSTALLATION

Installation is in the reverse order of removal.