SECTION VENTILATION SYSTEM

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< PRECAUTION >

PRECAUTION PRECAUTIONS

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

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 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 3 minutes before performing any service.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

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NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYS-TEM).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

- Connect both battery cables.
 NOTE: Supply power using jumper cables if battery is discharged.
- 2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
- 3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.

PRECAUTIONS

< PRECAUTION >

- 5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- 6. Perform a self-diagnosis check of all control units using CONSULT-III.

Precaution for Working with HFC-134a (R-134a)

WARNING:

- CFC-12 (R-12) refrigerant and HFC-134a (R-134a) refrigerant are not compatible. If the refrigerants are mixed compressor failure is likely to occur. Refer to <u>HA-4</u>, <u>"Contaminated Refrigerant"</u>. To determine the purity of HFC-134a (R-134a) in the vehicle and recovery tank, use refrigerant recovery/recycling equipment and refrigerant identifier.
- Use only specified oil for the HFC-134a (R-134a) A/C system and HFC-134a (R-134a) components. If oil other than that specified is used, compressor failure is likely to occur.
- The specified HFC-134a (R-134a) oil rapidly absorbs moisture from the atmosphere. The following handling precautions must be observed:
- When removing refrigerant components from a vehicle, immediately cap (seal) the component to minimize the entry of moisture from the atmosphere.
- When installing refrigerant components to a vehicle, do not remove the caps (unseal) until just before connecting the components. Connect all refrigerant loop components as quickly as possible to minimize the entry of moisture into system.
- Only use the specified oil from a sealed container. Immediately reseal containers of oil. Without proper sealing, oil will become moisture saturated and should not be used.
- Avoid breathing A/C refrigerant and oil vapor or mist. Exposure may irritate eyes, nose and throat. Remove HFC-134a (R-134a) from the A/C system using certified service equipment meeting requirements of SAE J2210 [HFC-134a (R-134a) recycling equipment], or SAE J2209 [HFC-134a (R-134a) recovery equipment]. If accidental system discharge occurs, ventilate work area before resuming service. Additional health and safety information may be obtained from refrigerant and oil manufacturers.

- Do not allow the refrigerant oil to come in contact with styrofoam parts. Damage may result.

Precaution for Work

- 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 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, and wring the water out of the cloth to wipe the dirty area.
 - Then rub with a soft and 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, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.

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

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PREPARATION

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PREPARATION PREPARATION

Special Service Tool

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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
 (J-46534) Trim tool set	ANJIAO483ZZ	For removing trim

Commercial Service Tool

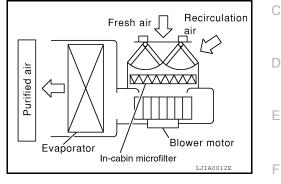
Tool name		Description
Power tool		Loosening bolts, screws and nuts
	PIIB1407E	

<u>SYSTEM DESCRIPTION ></u> SYSTEM DESCRIPTION IN-CABIN MICROFILTER

Description

FUNCTION

The air inside the passenger compartment is filtered by the in-cabin microfilters when the heater or A/C controls are set on either the recirculation or fresh mode. The two in-cabin microfilters are located in the front heater and cooling unit assembly. The rear heater and cooling unit assembly only draws in air from the passenger compartment to recirculate into the passenger compartment, so the rear heater and cooling unit assembly is not equipped with in-cabin microfilters.



REPLACEMENT TIMING

Replacement of the two in-cabin microfilters is recommended on a regular interval depending on the driving conditions. Refer to <u>MA-11</u>, "FOR USA AND CANADA : Introduction to Periodic Maintenance" (United States and Canada) or <u>MA-15</u>, "FOR MEXICO : Periodic Maintenance Schedule" (Mexico). It may also be necessary to replace the two in-cabin microfilters as part of a component replacement if the in-cabin microfilters are damaged.

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< PERIODIC MAINTENANCE >

PERIODIC MAINTENANCE **IN-CABIN MICROFILTER**

Removal and Installation

REPLACEMENT PROCEDURE

1. Open the lower glove box and press in on the sides as shown so that it will open completely, allowing it to hang by the cord.

2. Gently lift up on the lock tab (1) then pull the in-cabin microfilter cover rearward (toward the rear of the vehicle) and then down (2) to remove the in-cabin microfilters (3) from the front heater and cooling unit housing. CAUTION:

Use care when lifting up on the tab to avoid damaging it.

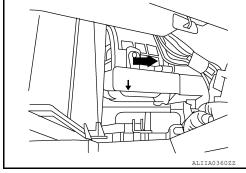
3. Insert the first new in-cabin microfilter into the front heater and cooling unit housing and slide it over to the right. Insert the second new in-cabin microfilter into the front heater and cooling unit housing as shown.

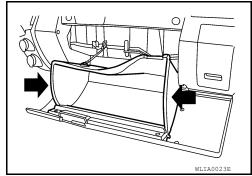
NOTE:

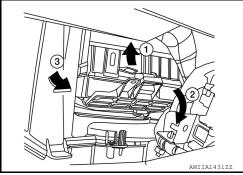
The in-cabin microfilters are marked with air flow arrows. The end of the microfilter with the arrow should face the rear of the vehicle. The arrows should point downward.

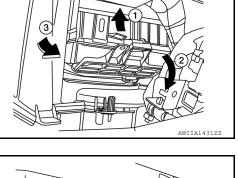
Install the in-cabin microfilter cover making sure the lock tab is 4. securely locked in place as shown.

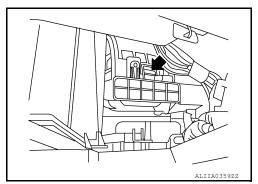
5. Close the lower glove box completely.











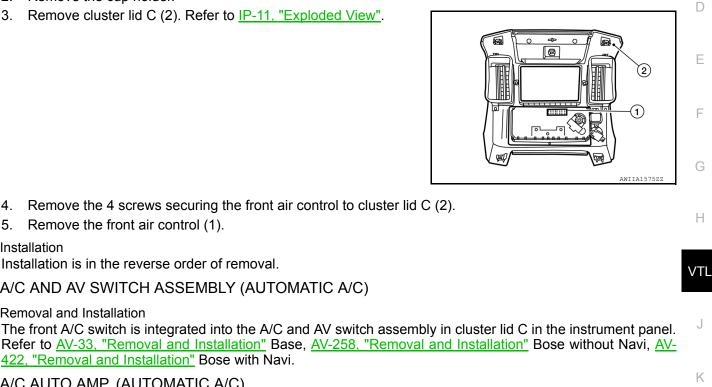
REMOVAL AND INSTALLATION CONTROL UNIT

Removal and Installation

FRONT AIR CONTROL (MANUAL A/C)

Removal

- Remove the AT finisher. Refer to <u>IP-11, "Exploded View"</u>
- 2. Remove the cup holder.
- 3. Remove cluster lid C (2). Refer to IP-11, "Exploded View".



Removal

5.

Installation

Removal and Installation

Remove the display unit. Refer to AV-33, "Removal and Installation" Base, AV-258, "Removal and Installation" Bose without Navi, AV-422, "Removal and Installation" Bose with Navi.

Installation

Installation is in the reverse order of removal.

REAR AIR CONTROL (FRONT)

Remove the front air control (1).

Installation is in the reverse order of removal.

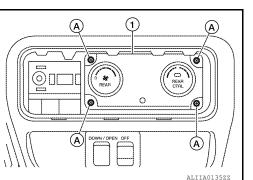
422, "Removal and Installation" Bose with Navi.

A/C AUTO AMP. (AUTOMATIC A/C)

A/C AND AV SWITCH ASSEMBLY (AUTOMATIC A/C)

Removal

- Remove the front roof console finisher from the front roof console. Refer to INT-22, "Removal and Installa-1. tion".
- 2. Remove the 4 rear air control (front) screws (A), disconnect the rear air control (front) connector and remove the rear air control (front) (1) from the front roof console.



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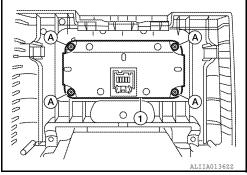
Installation

Installation is in the reverse order of removal.

REAR AIR CONTROL (REAR)

Removal

- 1. Remove the rear finisher assembly from the center console. Refer to <u>IP-11, "Exploded View"</u>.
- 2. Remove the 4 rear air control (rear) screws (A) and the rear air control (rear) (1) from the rear finisher assembly.



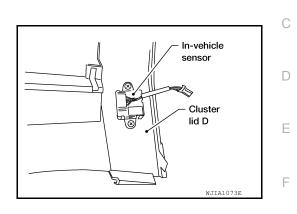
Installation Installation is in the reverse order of removal.

IN-VEHICLE SENSOR

Removal and Installation

REMOVAL

- 1. Remove the cluster lid D. Refer to IP-17, "Removal and Installation".
- 2. Disconnect the in-vehicle sensor harness connector.
- 3. Remove the 2 screws and the in-vehicle sensor.



INSTALLATION Installation is in the reverse order of removal.

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OPTICAL SENSOR

Removal and Installation

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REMOVAL

- 1. Remove the optical sensor and bezel from the center of the instrument panel.
- 2. Disconnect the optical sensor connector.
- 3. Remove the optical sensor from the bezel.

INSTALLATION

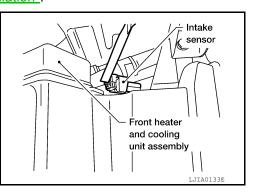
Installation is in the reverse order of removal.

INTAKE SENSOR

Removal and Installation

REMOVAL

- 1. Remove lower dash side finisher. Refer to INT-18, "Component".
- 2. Partialy remove front door welt.
- 3. Remove the upper glove box. Refer to IP-18, "Removal and Installation".
- Disconnect the intake sensor electrical connector.
 NOTE: The intake sensor is located on the top of the front heater and
- cooling unit assembly next to the A/C evaporator cover.5. Remove the intake sensor from the front heater and cooling unit assembly.



INSTALLATION Installation is in the reverse order of removal.

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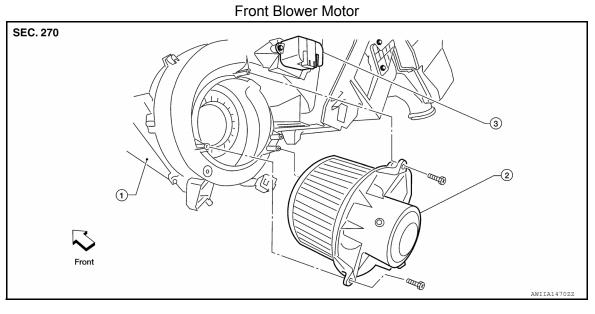
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BLOWER MOTOR

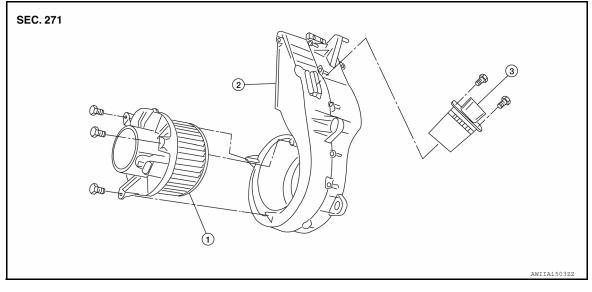
Component

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- 1. Front heater and cooling unit assembly 2. Front blower motor
 - 3.
- Variable blower control (Automatic A/C)/ Blower motor resistor (Manual A/C)

Rear Blower Motor



Rear blower motor 1.

Rear blower motor case 3.

Variable blower control (Automatic A/C) / Blower motor resistor (Manual A/C)

Removal and Installation

FRONT BLOWER MOTOR

Removal

1. Remove the lower glove box assembly. Refer to <u>IP-19</u>, "Removal and Installation".

2.

- 2. Disconnect the front blower motor electrical connector.
- 3. Remove the 3 screws and the front blower motor.
- 4. Remove the blower motor wheel.

VTL-12

2011 Pathfinder

BLOWER MOTOR

< REMOVAL AND INSTALLATION >	
Installation Installation is in the reverse order of removal.	A
REAR BLOWER MOTOR	
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 Remove the rear heater and cooling unit assembly. Refer to <u>VTL-18</u>, "<u>Removal and Inst</u> Disconnect the rear blower motor electrical connector. Remove the 3 screws and the rear blower motor. Remove the blower motor wheel. 	allation". C
Installation Installation is in the reverse order of removal.	D
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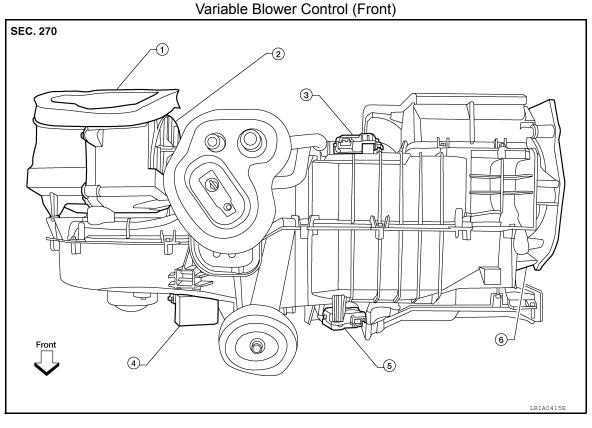
VARIABLE BLOWER CONTROL

< REMOVAL AND INSTALLATION >

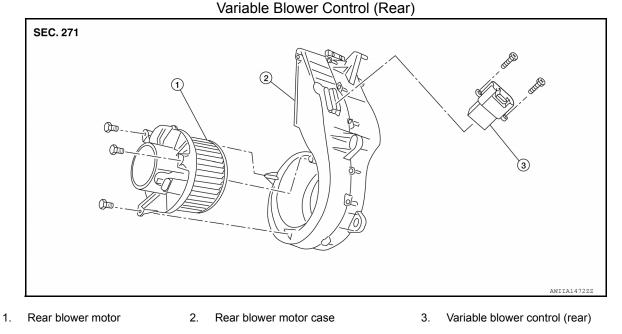
VARIABLE BLOWER CONTROL

Component

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- Front heater and cooling unit assembly 1.
- Variable blower control (front) 4.
- 2. Intake door motor 5.
 - Air mix door motor (driver)
- 3. Air mix door motor (passenger)
- 6. Mode door motor



Removal and Installation

FRONT VARIABLE BLOWER CONTROL

Revision: March 2012

VARIABLE BLOWER CONTROL

< R	EMOVAL AND INSTALLATION >	
Ren	noval	
1.	Disconnect the variable blower control (front) electrical connector.	А
2.	Remove the 2 screws and the variable blower control (front).	
	allation allation is in the reverse order of removal.	В
RE	AR VARIABLE BLOWER CONTROL	
Rem	noval	С
2.	Remove the rear heater and cooling unit assembly. Refer to <u>VTL-18, "Removal and Installation"</u> . Disconnect the variable blower control (rear) electrical connector. Remove the 2 screws and the variable blower control (rear).	D
	allation allation is in the reverse order of removal.	Е
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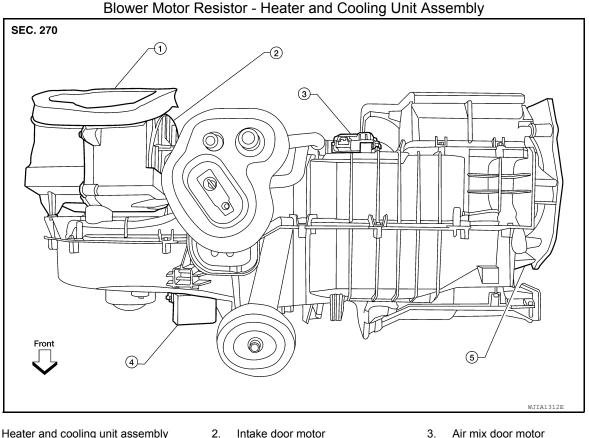
FRONT BLOWER MOTOR RESISTOR

< REMOVAL AND INSTALLATION >

FRONT BLOWER MOTOR RESISTOR

Removal and Installation

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1. Heater and cooling unit assembly

Blower motor resistor

- Intake door motor Mode door motor 5.
- 3. Air mix door motor

REMOVAL

4.

- 1. Disconnect the blower motor resistor electrical connector.
- Remove the 2 screws and the blower motor resistor. 2.

INSTALLATION

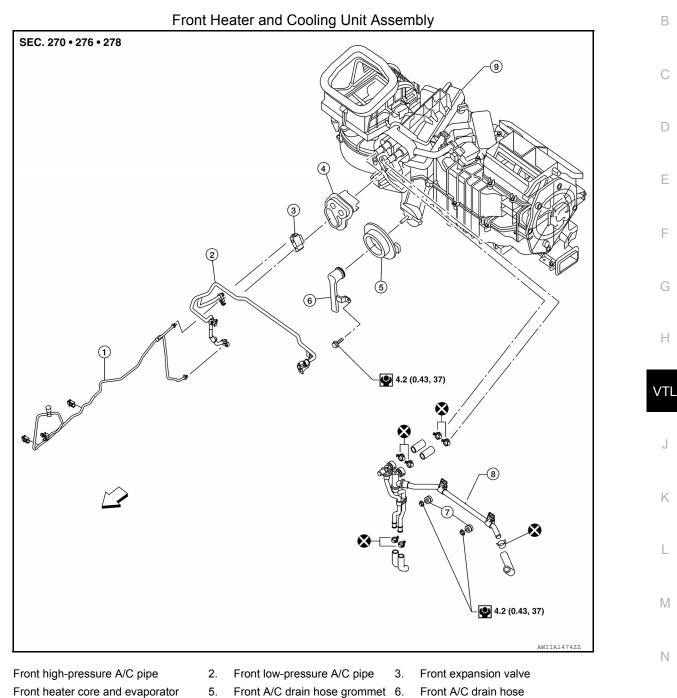
Installation is in the reverse order of removal.

HEATER & COOLING UNIT ASSEMBLY

Component

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- 1.
- 4. Front heater core and evaporator pipes grommet
- Front heater core pipe mounts 7.
- 8. Front heater core pipes
- 9. Front heater and cooling unit assembly

√ Vehicle front

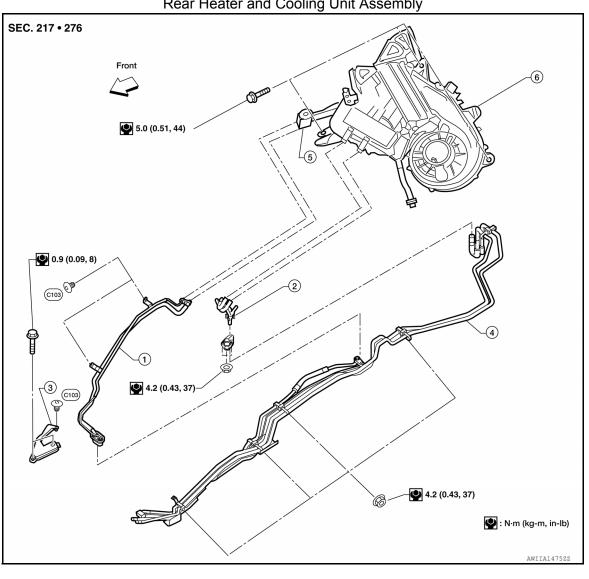
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HEATER & COOLING UNIT ASSEMBLY

< REMOVAL AND INSTALLATION >

Rear Heater and Cooling Unit Assembly



Rear high- and low-pressure A/C pipes 1. 2.

- 3. Rear high- and low-pressure A/C pipes cover
- 4. Underfloor rear high- and low-pressure A/C 5. Rear expansion valve 6. Rear heater and cooling unit assembly and heater core pipes

NOTE:

When removing components such as hoses, tubes/lines, etc., cap or plug openings to prevent fluid from spilling.

Rear heater core hoses

Removal and Installation

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FRONT HEATER AND COOLING UNIT ASSEMBLY

CAUTION:

Before servicing, turn the ignition switch off, disconnect both battery terminals and wait least 3 minutes.

Removal

- 1. Discharge the refrigerant from the A/C system. Refer to <u>HA-36</u>, "HFC-134a (R-134a) Service Procedure".
- 2. Drain the coolant from the engine cooling system. Refer to CO-13, "Changing Engine Coolant" (VQ40DE), CO-44, "Changing Engine Coolant" (VK56DE).
- 3. Move the 2 front seats to the rearmost position on the seat track.
- 4. Disconnect the battery negative and positive terminals.

HEATER & COOLING UNIT ASSEMBLY

< REMOVAL AND INSTALLATION >

- 5. Remove the front heater core pipes RH nut.
- 6. Disconnect the front heater core hoses from the front heater core.
- 7. Disconnect the high- and low-pressure A/C pipes from the front expansion valve.
- Remove the instrument panel and center console. Refer to <u>IP-12, "Removal and Installation"</u>.
- 9. Remove the two front floor ducts. Refer to <u>VTL-31, "Compo-</u><u>nent"</u>.
- 10. Remove the steering column. Refer to <u>ST-19, "Removal and</u> <u>Installation"</u>.
- 11. Disconnect the instrument panel wire harness at the RH and LH in-line connector brackets, and the fuse block (SMJ) electrical connectors. Refer to <u>PG-39</u>, "Harness Layout".
- 12. Remove the covers then remove the three steering member bolts from each side to disconnect the steering member from the vehicle body. Refer to <u>IP-11, "Exploded View"</u>.
- 13. Remove the front heater and cooling unit assembly with it attached to the steering member, from the vehicle.

CAUTION:

Use care not to damage the seats and interior trim panels when removing the front heater and cooling unit assembly with it attached to the steering member.

14. Remove the front heater and cooling unit assembly from the steering member.

Installation

Installation is in the reverse order of removal.

- CAUTION:
- Do not reuse O-rings.
- Apply A/C oil to the O-ring of the low-pressure A/C pipe and high-pressure A/C pipe for installation. Refer to <u>HA-34</u>, "Component".
- After charging the refrigerant, check for leaks. Refer to <u>HA-29, "Checking of Refrigerant Leaks"</u>.

REAR HEATER AND COOLING UNIT ASSEMBLY

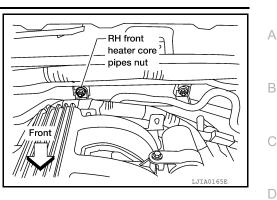
Removal

- 1. Discharge the refrigerant from the A/C system. Refer to HA-36. "HFC-134a (R-134a) Service Procedure".
- Drain the coolant from the engine cooling system. Refer to <u>CO-13, "Changing Engine Coolant"</u> (VQ40DE), K <u>CO-44, "Changing Engine Coolant"</u> (VK56DE).
- 3. Remove the luggage side lower and upper finisher RH. Refer to INT-25, "Removal and Installation".
- 4. Disconnect the rear heater core hoses from the rear heater core.
- 5. Disconnect the rear A/C high- and low-pressure A/C pipes from the rear expansion valve.
- 6. Disconnect the following electrical connectors:
 - Rear blower motor
 - Rear variable blower control (rear)
 - Rear air mix door motor
- 7. Disconnect the ducts from the rear heater and cooling unit assembly.
- 8. Remove the 3 bolts and the rear heater and cooling unit assembly.

Installation

Installation is in the reverse order of removal.

- Do not reuse O-rings.
- Apply A/C oil to the O-ring of the low-pressure A/C pipe and high-pressure A/C pipe for installation.
 Refer to <u>HA-34, "Component"</u>.
- After charging the refrigerant, check for leaks. Refer to <u>HA-29, "Checking of Refrigerant Leaks"</u>.



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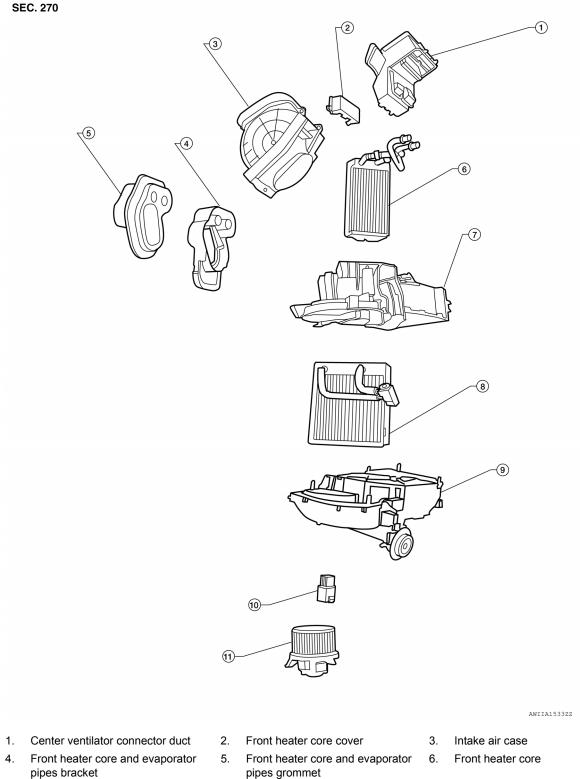
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EVAPORATOR

Removal and Installation for Front Evaporator

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- 7. Upper heater and cooling unit case
- 10. Variable blower control (front)
- pipes grommet
- 8. Front evaporator and expansion valve assembly
- Blower motor 11.

9. Lower heater and cooling unit case

EVAPORATOR

< REMOVAL AND IN	STALLATION >
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REMOVAL

- 1. Remove the front heater and cooling unit assembly. Refer to <u>VTL-18</u>, "Removal and Installation".
- 2. Separate the heater and cooling unit case.
- 3. Remove the front evaporator and expansion valve assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Do not reuse O-rings.
- Apply A/C oil to the O-rings on the front A/C low-pressure flexible A/C hose and the front high-pressure A/C pipe for installation.

Removal and Installation for Rear Evaporator

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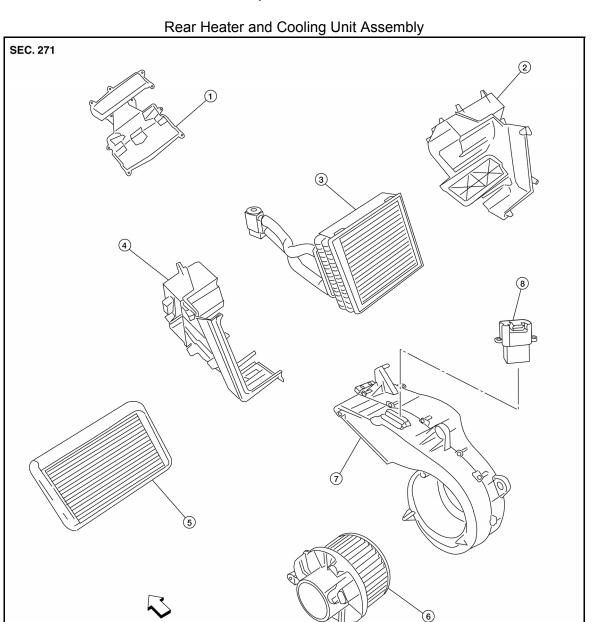
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- 1. Front cover
- 4. Side cover
- 7. Blower motor case
- 2. Rear evaporator and heater core case
- 5. Rear heater core
- 8. Variable blower control (rear)
- 3. Rear evaporator
- 6. Rear blower motor
- ∠ Front



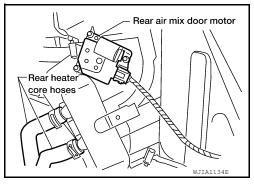
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EVAPORATOR

< REMOVAL AND INSTALLATION >

REMOVAL

- 1. Remove the rear heater and cooling unit assembly from the vehicle. Refer to <u>VTL-18</u>, "Removal and <u>Installation"</u>.
- 2. Remove the rear blower motor.
- 3. Remove the variable blower control (rear).
- 4. Remove the rear air mix door motor.
- 5. Remove the rear duct and blend door assembly. Refer to <u>VTL-</u> <u>33. "Removal and Installation"</u>.
- 6. Disassemble the rear heater and cooling unit assembly to remove the rear evaporator.



INSTALLATION

Installation is in the reverse order of removal. **CAUTION:**

- Do not reuse O-rings.
- Apply A/C oil to the O-rings on the rear high- and low-pressure A/C pipes for installation.
- After charging refrigerant, check for leaks.

< R	EMOVAL AND INSTALLATION >			
EΣ	(PANSION VALVE			А
Re	moval and Installation for Rear Expansio	n Valve	INFOID:000000006245378	~
RE	MOVAL			В
1.	Discharge the refrigerant. Refer to HA-36. "HFC-134	<u>4a (R-134a) Service Procedure".</u>		
2.	Reposition the third row seat out of the way.			
3.	Remove the luggage side lower finisher RH access	door.		С
4.	Disconnect the rear high- and low-pressure A/C pipe	es from the rear expansion valve.		
	CAUTION: Cap or wrap the A/C refrigerant pipe ends with a entry of air and contaminants.	a suitable material such as vinyl tar	be to avoid the	D
5.	Remove the expansion valve.			
INS	STALLATION			E
Ins	allation is in the reverse order of removal.			
	Expansion valve bolts	: Refer to <u>HA-34, "Component"</u> .		F
	A/C refrigerant pipe to expansion valve bolt	: Refer to <u>HA-34, "Component"</u> .		
	UTION:			G
	o not reuse O-rings. pply A/C oil to the O-rings on the rear expansion	on valve and the rear high- and low	-pressure A/C	
	ipes for installation.		P. 3000.0 700	Ш
• A	fter charging refrigerant, check for leaks.			Н

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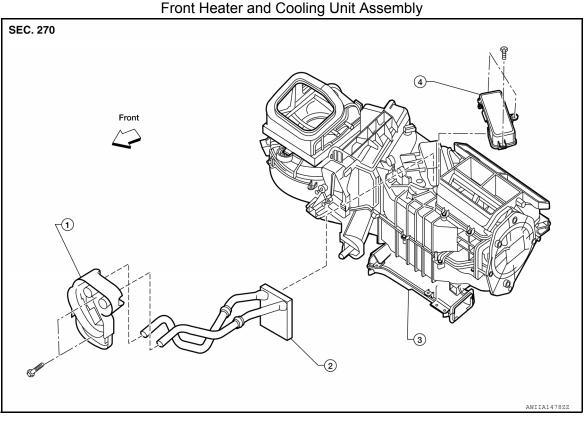
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HEATER CORE

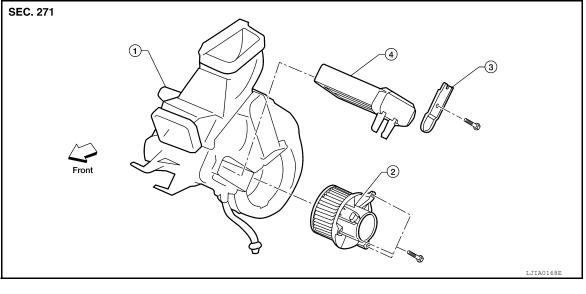
Component

INFOID:000000006245379



- 1. Front heater core and evaporator pipe
 2. Front heater core
 3. Front heater and cooling unit assembly bracket
- 4. Front heater core cover

Rear Heater and Cooling Unit Assembly



- 1. Rear heater and cooling unit assembly 2. Rear blower motor
- 3. Rear heater core bracket

4. Rear heater core

HEATER CORE

< REMOVAL AND INSTALLATION >		
Removal and Installation	А	
FRONT HEATER CORE	A	
Removal		
 Remove the front heater and cooling unit assembly. Refer to <u>VTL-18, "Removal and Installation"</u>. Remove the screws and the front heater core cover. 	В	
3. Remove the front heater core and evaporator pipe bracket.	С	
4. Remove the front heater core.		
NOTE: If the in-cabin microfilters are contaminated from coolant leaking from the front heater core, replace the in- cabin microfilters with new ones before installing the new front heater core.	D	
Installation Installation is in the reverse order of removal.	E	
REAR HEATER CORE		
Removal		
1. Partially drain the engine cooling system. Refer to <u>CO-13</u> , " <u>Changing Engine Coolant</u> " (VQ40DE), <u>CO-44</u> , <u>"Changing Engine Coolant</u> " (VK56DE).		
2. Remove the rear heater and cooling unit assembly. Refer to VTL-18, "Removal and Installation".	G	
3. Remove the rear heater core bracket.		
4. Remove the heater core.	Н	
Installation Installation is in the reverse order of removal.	Π	
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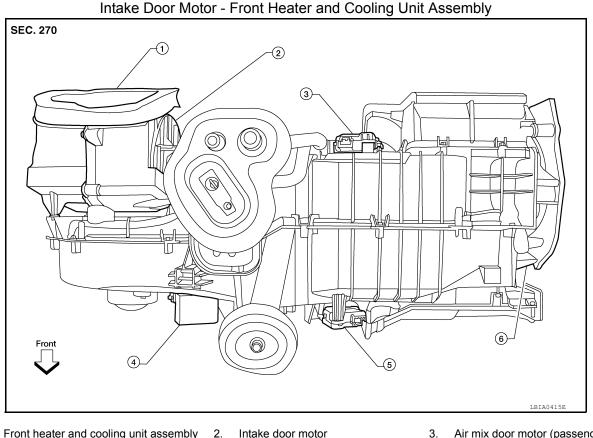
INTAKE DOOR MOTOR

< REMOVAL AND INSTALLATION >

INTAKE DOOR MOTOR

Removal and Installation

INFOID:000000006245381



- Front heater and cooling unit assembly
 Variable blower control (front)
- Intake door motor
 Air mix door motor (driver)
- Air mix door motor (passenger)
 Mode door motor

REMOVAL

- 1. Remove the front heater and cooling unit assembly. Refer to <u>VTL-18, "Removal and Installation"</u>.
- 2. Remove the steering member from the front heater and cooling unit assembly.
- 3. Disconnect the intake door motor electrical connector.
- 4. Remove the 3 screws and the intake door motor.

INSTALLATION

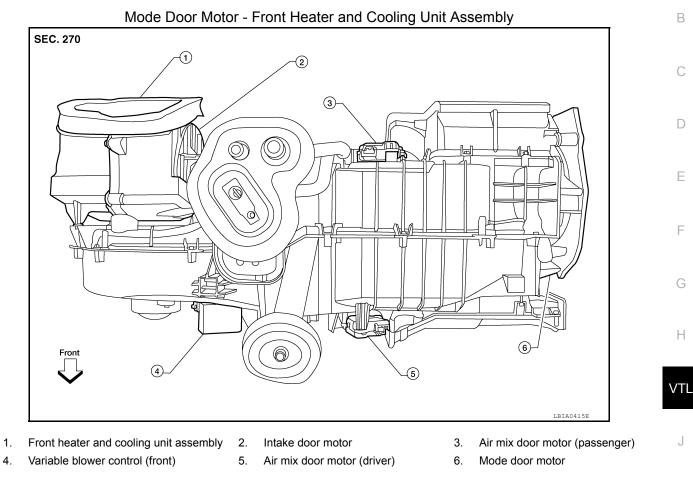
Installation is in the reverse order of removal.

MODE DOOR MOTOR

Removal and Installation

INFOID:000000006245382

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REMOVAL

- 1. Remove the BCM. Refer to <u>BCS-55, "Removal and Installation"</u>.
- 2. Disconnect the mode door motor electrical connector.
- 3. Remove the 3 screws and the mode door motor.

INSTALLATION

Installation is in the reverse order of removal.

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Revision: March 2012

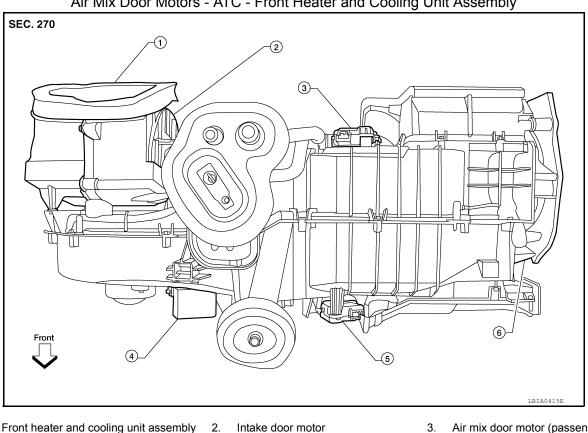
AIR MIX DOOR MOTOR

< REMOVAL AND INSTALLATION >

AIR MIX DOOR MOTOR

Component

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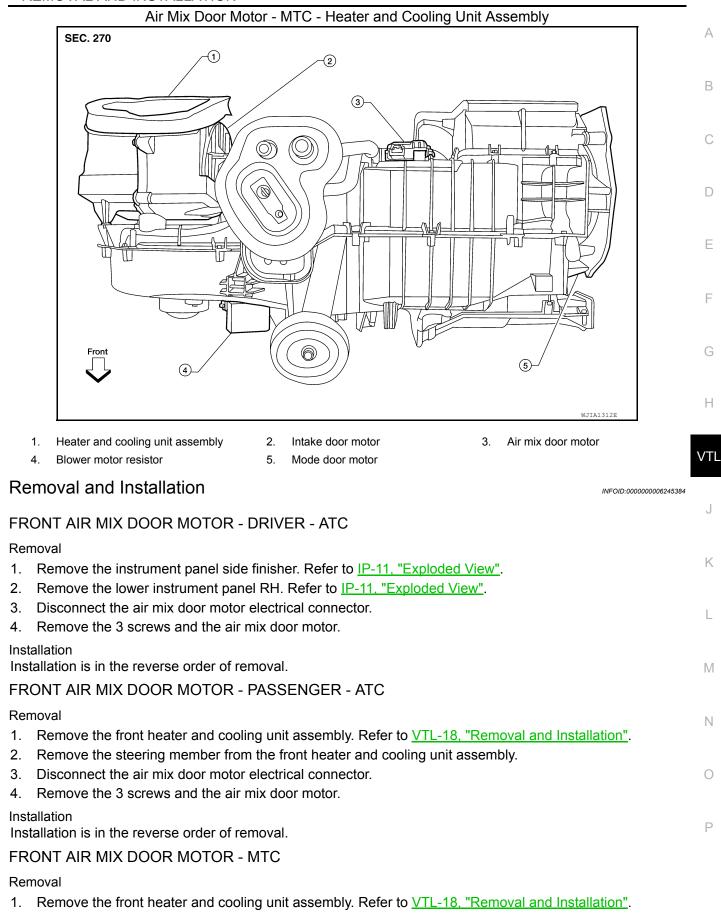


Air Mix Door Motors - ATC - Front Heater and Cooling Unit Assembly

- 1. Front heater and cooling unit assembly
- 4. Variable blower control (front)
- Intake door motor
- 5. Air mix door motor (driver)
- 3. Air mix door motor (passenger)
- 6. Mode door motor

AIR MIX DOOR MOTOR

< REMOVAL AND INSTALLATION >



- 2. Remove the steering member from the front heater and cooling unit assembly.
- 3. Disconnect the air mix door motor electrical connector.

AIR MIX DOOR MOTOR

< REMOVAL AND INSTALLATION >

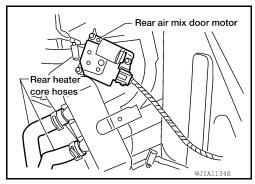
4. Remove the 3 screws and the air mix door motor.

Installation Installation is in the reverse order of removal.

REAR AIR MIX DOOR MOTOR

Removal

- 1. Remove the luggage side lower and upper finisher RH. Refer to INT-24, "Component".
- 2. Disconnect the rear air mix door motor electrical connector.
- 3. Remove the 3 screws and the rear air mix door motor.



Installation Installation is in the reverse order of removal.

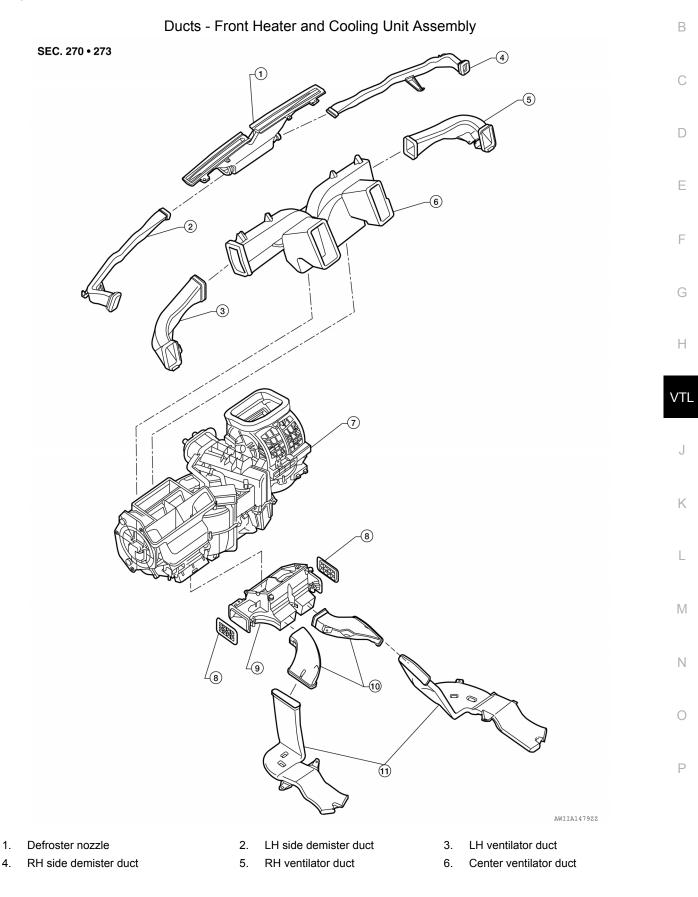
< REMOVAL AND INSTALLATION >

DUCTS AND GRILLES

Component

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А



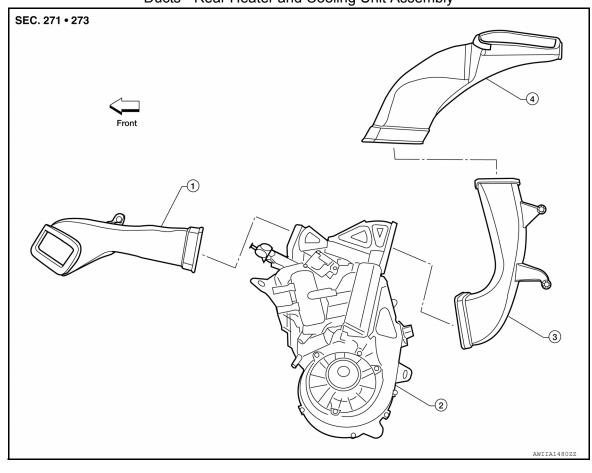
Revision: March 2012

< REMOVAL AND INSTALLATION >

- Front heater and cooling unit assembly 7.
- 10. Front floor ducts

- 8. Floor connector duct grilles 11. Rear floor ducts
- 9. Floor connector duct

- Ducts Rear Heater and Cooling Unit Assembly

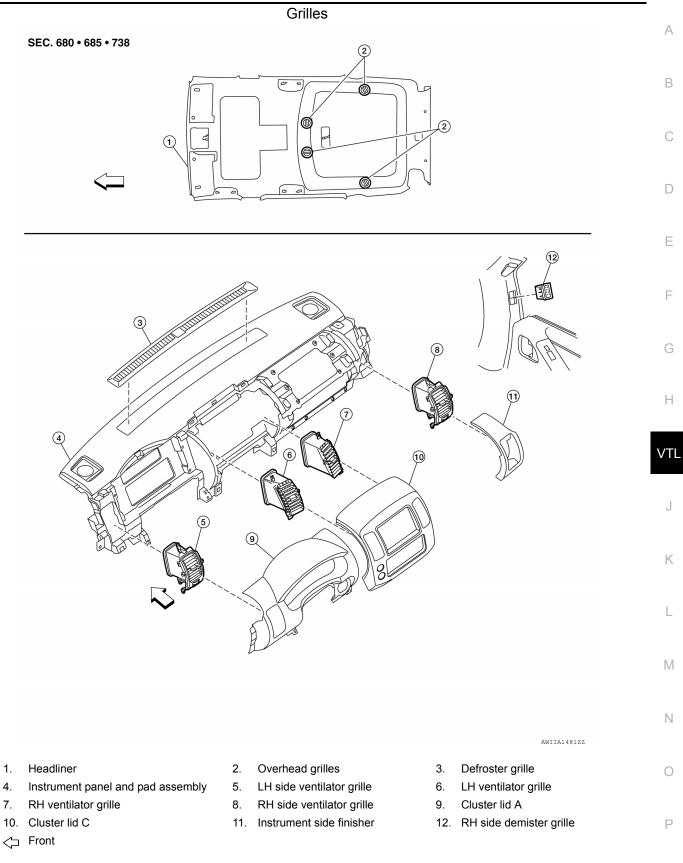


- 1. Side rear floor duct
- Rear heater and cooling unit assembly
- Rear lower overhead duct

3.

4. Rear upper overhead duct 2.

< REMOVAL AND INSTALLATION >



Removal and Installation

DEFROSTER NOZZLE

Removal

< REMOVAL AND INSTALLATION >

- 1. Remove the front heater and cooling unit assembly. Refer to VTL-18. "Removal and Installation".
- 2. Remove the defroster nozzle.

Installation

Installation is in the reverse order of removal.

RH AND LH SIDE DEMISTER DUCT

Removal

- 1. Remove the front heater and cooling unit assembly. Refer to VTL-18. "Removal and Installation".
- 2. Remove the RH or LH side demister duct.

Installation

Installation is in the reverse order of removal.

RH AND LH VENTILATOR DUCT

Removal

- 1. Remove the front heater and cooling unit assembly. Refer to <u>VTL-18, "Removal and Installation"</u>.
- 2. Remove the RH or LH ventilator duct.

Installation

Installation is in the reverse order of removal.

CENTER VENTILATOR DUCT

Removal

- 1. Remove the front heater and cooling unit assembly. Refer to VTL-18, "Removal and Installation".
- 2. Remove the defroster nozzle.
- 3. Remove the RH and LH ventilator ducts.
- 4. Remove the RH and LH side demister ducts.
- 5. Remove the center ventilator duct.

Installation

Installation is in the reverse order of removal.

FLOOR CONNECTOR DUCT

Removal

- 1. Remove the front heater and cooling unit assembly. Refer to VTL-18. "Removal and Installation".
- 2. Remove the floor connector duct.

Installation

Installation is in the reverse order of removal.

FRONT AND REAR FLOOR DUCTS

Removal

- 1. Remove the center console. Refer to IP-21, "Removal and Installation".
- 2. Remove the floor carpet. Refer to <u>INT-21, "Removal and Installation"</u>.
- 3. Remove the clips and remove the front and rear floor ducts.

Installation

Installation is in the reverse order of removal.

REAR OVERHEAD DUCTS

Removal

- 1. Remove the luggage side lower finisher RH. Refer to INT-24, "Component".
- Remove the headliner. Refer to <u>INT-22, "Removal and Installation"</u>. NOTE:

The rear headliner duct (connected to the rear upper overhead duct) is part of the headliner and is replaced as an assembly.

3. Remove the clips and remove the rear upper and lower overhead ducts.

< R	REMOVAL AND INSTALLATION >	
	allation tallation is in the reverse order of removal.	А
SIE	DE REAR FLOOR DUCT	
1.	noval Remove the luggage side lower finisher RH. Refer to <u>INT-24, "Component"</u> .	В
2. 3.	Reposition the floor carpet out of the way. Remove the clips and remove the side rear floor duct.	С
Installation Installation is in the reverse order of removal.		D
GR	RILLES	
Rer	noval	
1.	Remove the necessary interior trim panel(s) to access the grille. Refer to <u>INT-18, "Component"</u> . NOTE:	E
	The overhead grilles are part of the headliner. To replace the overhead grilles the headliner must be replaced. Refer to <u>VTL-33</u> , "Removal and Installation".	F
2.	Remove the grille from the interior trim panel.	
	allation tallation is in the reverse order of removal.	G

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