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)

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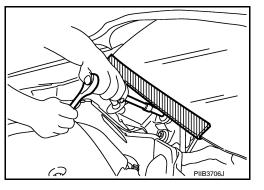
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WARNING:

- 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 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 J2209 [HFC-134a (R-134a) recovery equipment]. If accidental system discharge occurs, ventilate work area before resuming service.
 H Additional health and safety information may be obtained from refrigerant and oil manufacturers.
- Do not allow A/C oil to come in contact with styrofoam parts. Damage may result.

Precaution for Procedure without Cowl Top Cover

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



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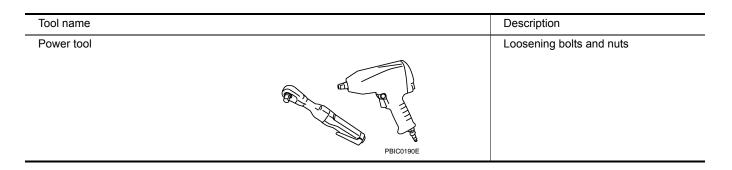
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PREPARATION

Commercial Service Tool

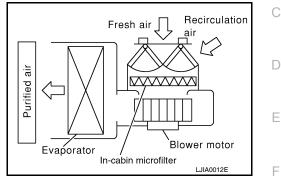


< FUNCTION DIAGNOSIS > FUNCTION DIAGNOSIS IN-CABIN MICROFILTER

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-8</u>, "<u>Introduction of Periodic Maintenance</u>". 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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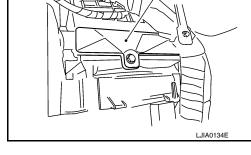
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<u>< ON-VEHICLE MAINTENANCE ></u> ON-VEHICLE MAINTENANCE IN-CABIN MICROFILTER

Removal and Installation

REPLACEMENT PROCEDURE

- 1. Remove the glove box assembly from the instrument panel. Refer to IP-17, "Removal and Installation".
- 2. Remove the screw and remove the in-cabin microfilter cover as shown.
- 3. Remove the two in-cabin microfilters from the front heater and cooling unit assembly housing.



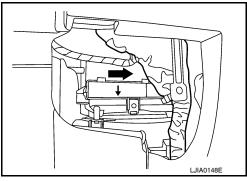
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In-cabin

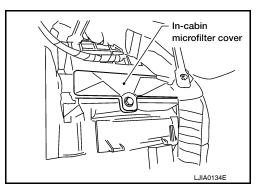
microfilter cover

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



5. Install the in-cabin microfilter cover.



- 6. Install the glove box assembly in the instrument panel. Refer to IP-17, "Removal and Installation".
- 7. Fill out the date information on the small replacement label and attach it to the glove box lid.

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR CONTROL UNIT

Removal and Installation

A/C and AV SWITCH ASSEMBLY

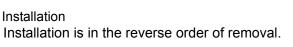
Removal and Installation

The front A/C switch is integrated into the A/C and AV switch assembly in cluster lid C in the instrument panel. Refer to <u>AV-164</u>, "<u>Removal and Installation</u>".

A/C AUTO AMP.

Removal

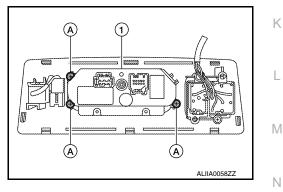
- 1. Remove the display unit. Refer to AV-166, "Removal and Installation".
- 2. Remove the four screws (A) and remove the A/C auto amp. (1) from the back of the display unit (2).



REAR AIR CONTROL (FRONT)

Removal

- 1. Remove the front roof console finisher from the headlining. Refer to INT-17. "Removal and Installation".
- 2. Remove the three screws (A) and remove the rear air control (front) (1).



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(1)

Installation Installation is in the reverse order of removal.

REAR AIR CONTROL (REAR)

Removal

1. Remove the rear roof console finisher from the headlining. Refer to <u>INT-17, "Removal and Installation"</u>.

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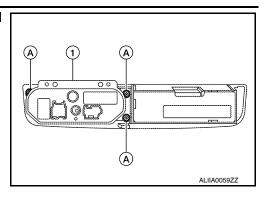
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CONTROL UNIT

< ON-VEHICLE REPAIR >

2. Remove the three screws (A) and remove the rear air control (rear) (1).



Installation Installation is in the reverse order of removal.

IN-VEHICLE SENSOR

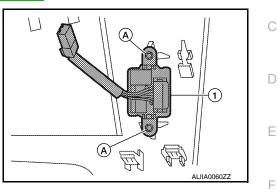
< ON-VEHICLE REPAIR >

IN-VEHICLE SENSOR

Removal and Installation

REMOVAL

- 1. Remove the lower instrument panel LH. Refer to IP-11, "Exploded View".
- 2. Remove the two screws (A) and remove the in-vehicle sensor (1).



INSTALLATION

Installation is in the reverse order of removal.

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OPTICAL SENSOR

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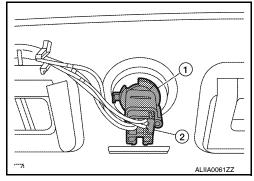
OPTICAL SENSOR

Removal and Installation

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REMOVAL

- 1. Remove the defroster grille from the instrument panel. Refer to VTL-33, "Removal and Installation".
- 2. Disconnect the optical sensor connector (2).
- 3. Twist the optical sensor (1) counter clockwise to remove it from the defroster grille.



INSTALLATION Installation is in the reverse order of removal.

< ON-VEHICLE REPAIR >

INTAKE SENSOR

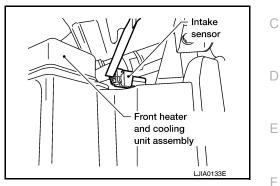
Removal and Installation

REMOVAL

- 1. Remove the instrument panel. Refer to IP-12, "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.

3. Twist the intake sensor to 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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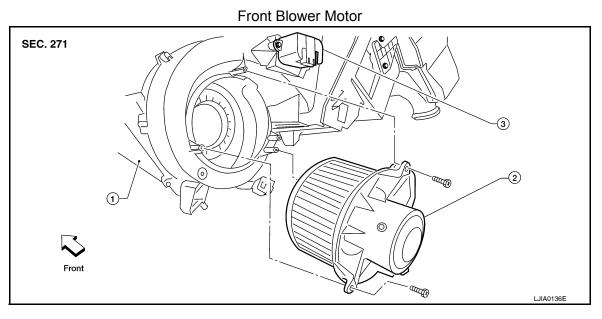
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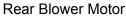
< ON-VEHICLE REPAIR > BLOWER MOTOR

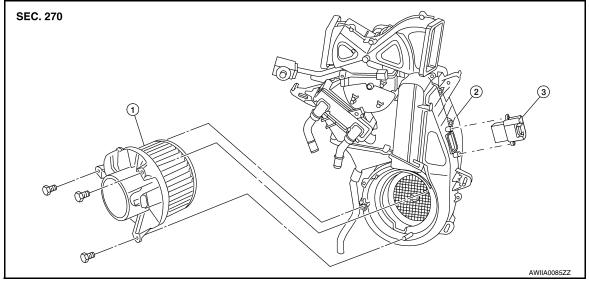
Component

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1. Front heater and cooling unit assembly 2. Front blower motor 3. Front variable blower control





2. Rear heater and cooling unit assembly 3. Rear variable blower control

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Removal and Installation

1. Rear blower motor

FRONT BLOWER MOTOR

Removal

- 1. Remove the glove box assembly. Refer to IP-17, "Removal and Installation".
- 2. Disconnect the front blower motor electrical connector.
- 3. Remove the three screws and remove the front blower motor.

Installation

BLOWER MOTOR

< ON-VEHICLE REPAIR :	>	
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REAR BLOWER MOTOR

Removal

- 1. Remove the luggage side lower finisher RH. Refer to INT-19. "Removal and Installation".
- 2. Disconnect the rear blower motor electrical connector.
- 3. Remove the three screws and remove the rear blower motor.

Installation

Installation is in the reverse order of removal.

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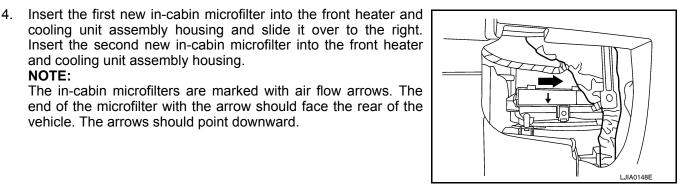
IN-CABIN MICROFILTER

Removal and Installation

REPLACEMENT PROCEDURE

- 1. Remove the glove box assembly from the instrument panel. Refer to IP-17, "Removal and Installation".
- 2. Remove the screw and remove the in-cabin microfilter cover.
- 3. Remove the in-cabin microfilters from the front heater and cooling unit assembly housing.

In-cabin microfilter cover .IIA0134E



5. Install the in-cabin microfilter cover.

and cooling unit assembly housing.

vehicle. The arrows should point downward.

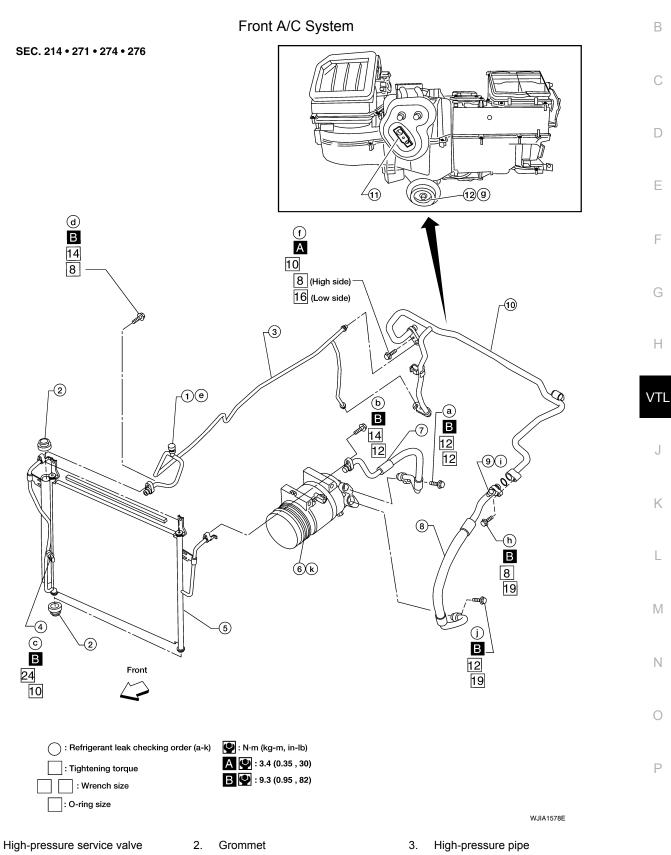
NOTE:

- In-cabin microfilter cover LJIA0134E
- 6. Install the glove box assembly in the instrument panel. Refer to <u>IP-17</u>, "Removal and Installation".
- 7. Fill out the date information on the small replacement label and attach it to the inside of the glove box lid.

< ON-VEHICLE REPAIR >

HEATER & COOLING UNIT ASSEMBLY

Component

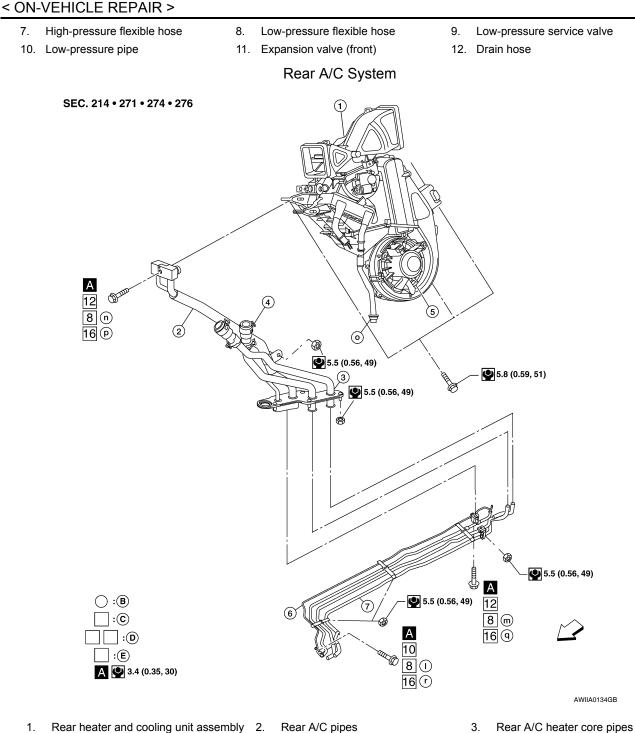


- 4. Refrigerant pressure sensor
- 5. Condenser

6. Compressor shaft seal

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- Rear heater core hose 4.
- Underfloor rear heater core pipes 7.
- C. Tightening torque
- Front ⇐

- Rear A/C pipes
- 5. Rear blower motor
- Α. Bolt torque specification
- D. Wrench size
- NOTE: The O-ring size 8 is the high-side and the O-ring size 16 is the low-side.

NOTE:

Refer to HA-5, "Precaution for Refrigerant Connection".

Removal and Installation

FRONT HEATER AND COOLING UNIT ASSEMBLY

Removal

HEATER & COOLING UNIT ASSEMBLY

Underfloor rear A/C pipes

Leak checking order (I - r)

O-ring size

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HEATER & COOLING UNIT ASSEMBLY

< ON-VEHICLE REPAIR >

1.	Move the two front seats to the rear most position on the seat track.	
2.	Disconnect the battery negative terminal and battery positive terminal.	А
3.	Discharge the refrigerant from the A/C system. Refer to <u>HA-20, "HFC-134a (R-134a) Service Procedure"</u> .	
4.	Drain the coolant from the engine cooling system. Refer to <u>CO-11, "Changing Engine Coolant"</u> .	В
5.	Disconnect the front heater hoses from the front heater core.	D
6.	Disconnect the high/low pressure pipes from the front expansion valve.	
7.	Remove the instrument panel and console panel. Refer to <u>IP-12, "Removal and Installation"</u> .	С
8.	Remove the steering column. Refer to ST-20, "Removal and Installation".	
9.	Disconnect the instrument panel wire harness at the RH and LH in-line connector brackets, and the fuse block (J/B) electrical connectors. Refer to <u>PG-9</u> , "Wiring Diagram — Battery Power Supply —".	D
	Disconnect the steering member from each side of the vehicle body.	
11.	Remove the front heater and cooling unit assembly with it attached to the steering member, from the vehi-	
	cle. CAUTION:	E
10	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.	F
12.	Remove the front heater and cooling unit assembly from the steering member.	
Inst	allation tallation is in the reverse order of removal. UTION:	G
• R p • A	Replace the O-ring of the low-pressure pipe and high-pressure pipe with a new one, and apply com- ressor oil to it when installing it. Ifter charging the refrigerant, check for leaks.	Н
• F	ill the engine cooling system with the specified coolant mixture. Refer to <u>CO-11, "Changing Engine Cool-</u> nt".	VTL
• R	Recharge the A/C system. Refer to <u>HA-20, "HFC-134a (R-134a) Service Procedure"</u> .	
RE.	AR HEATER AND COOLING UNIT ASSEMBLY	
Ren	noval	J
1.	Discharge the refrigerant from the A/C system. Refer to <u>HA-20, "HFC-134a (R-134a) Service Procedure"</u> .	
2. 3.	Drain the coolant from the engine cooling system. Refer to <u>CO-11, "Changing Engine Coolant"</u> . Remove the luggage side finisher lower RH. Refer to <u>INT-19, "Removal and Installation"</u> .	K
4.	Disconnect the rear heater core hoses from the rear heater core.	
5.	Disconnect the rear A/C pipes from the rear expansion valve.	L
6.	Disconnect the following electrical connectors: • Rear blower motor	
	 Rear variable blower control Rear air mix door motor 	\mathbb{M}
7.		
8.	Disconnect the ducts from the rear heater and cooling unit assembly.	
0.		Ν
-	Disconnect the ducts from the rear heater and cooling unit assembly.	Ν
Inst Inst	Disconnect the ducts from the rear heater and cooling unit assembly. Remove the rear heater and cooling unit assembly. callation tallation is in the reverse order of removal.	Ν
Inst Inst CA • R	Disconnect the ducts from the rear heater and cooling unit assembly. Remove the rear heater and cooling unit assembly. callation tallation is in the reverse order of removal. UTION: ceplace the O-ring of the low-pressure pipe and high-pressure pipe with a new one, and apply com-	N
Inst Inst CA • R p • A	Disconnect the ducts from the rear heater and cooling unit assembly. Remove the rear heater and cooling unit assembly. callation tallation is in the reverse order of removal. UTION: Replace the O-ring of the low-pressure pipe and high-pressure pipe with a new one, and apply com- ressor oil to it when installing it. ofter charging the refrigerant, check for leaks.	0
Inst Inst CA • R p • A NO • F	Disconnect the ducts from the rear heater and cooling unit assembly. Remove the rear heater and cooling unit assembly. callation tallation is in the reverse order of removal. UTION: Replace the O-ring of the low-pressure pipe and high-pressure pipe with a new one, and apply com- ressor oil to it when installing it.	

Recharge the A/C system. Refer to <u>HA-20, "HFC-134a (R-134a) Service Procedure"</u>.

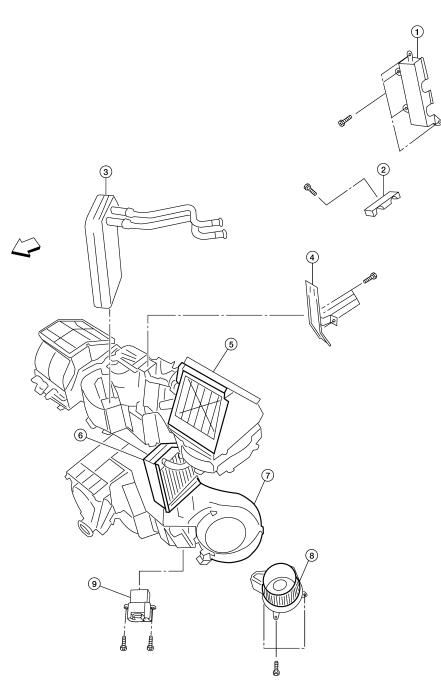
HEATER CORE

Component

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Front Heater and Cooling Unit Assembly

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- 1. Heater core cover
- 2. Heater core pipe bracket
- 5. Upper heater and cooling unit case
- A/C evaporator
 Variable blower control

Heater core

3.

- 4. Upper bracket
- Lower heater and cooling unit case
 8
- ← Front

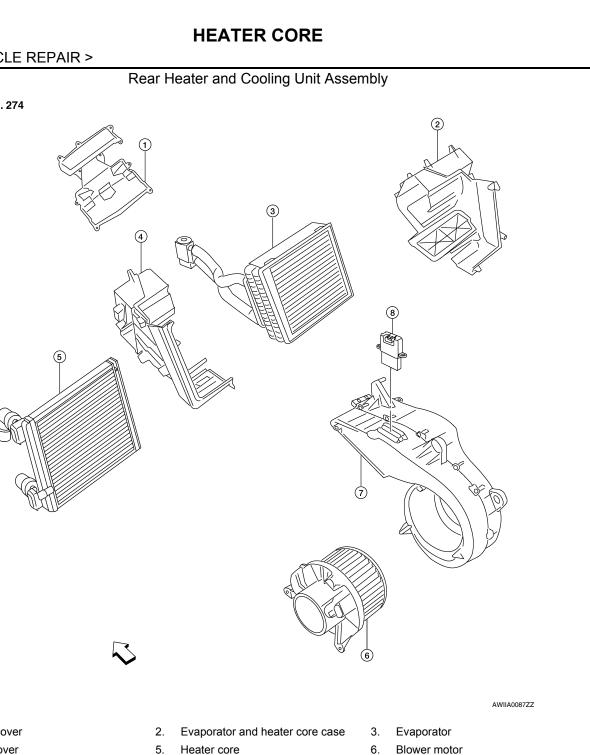
8. Blower motor

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- Front cover 1.
- Side cover 4.
- Blower motor case 7.
- ← Front

Removal and Installation

FRONT HEATER CORE

Removal

1. Remove the front heater and cooling unit assembly. Refer to VTL-16. "Removal and Installation".

Variable blower control

- 2. Remove the four screws and remove the upper bracket.
- Remove the four screws and remove the heater core cover. 3.

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Remove the heater core pipe bracket. 4.

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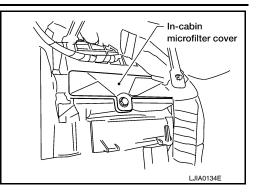
HEATER CORE

< ON-VEHICLE REPAIR >

5. Remove the heater core.

NOTE:

If the in-cabin microfilters are contaminated from coolant leaking from the heater core, replace the in-cabin microfilters with new ones before installing the new heater core.



Installation Installation is in the reverse order of removal.

REAR HEATER CORE

Removal

- 1. Partially drain the engine cooling system. Refer to <u>CO-11, "Changing Engine Coolant"</u>.
- 2. Remove the luggage side finisher lower RH. Refer to INT-19, "Removal and Installation".
- 3. Disconnect the rear heater hoses from the heater core.
- 4. Remove the rear heater core bracket.
- 5. Remove the heater core.

Installation

< ON-VEHICLE REPAIR >

DEFROSTER DOOR MOTOR

Removal and Installation

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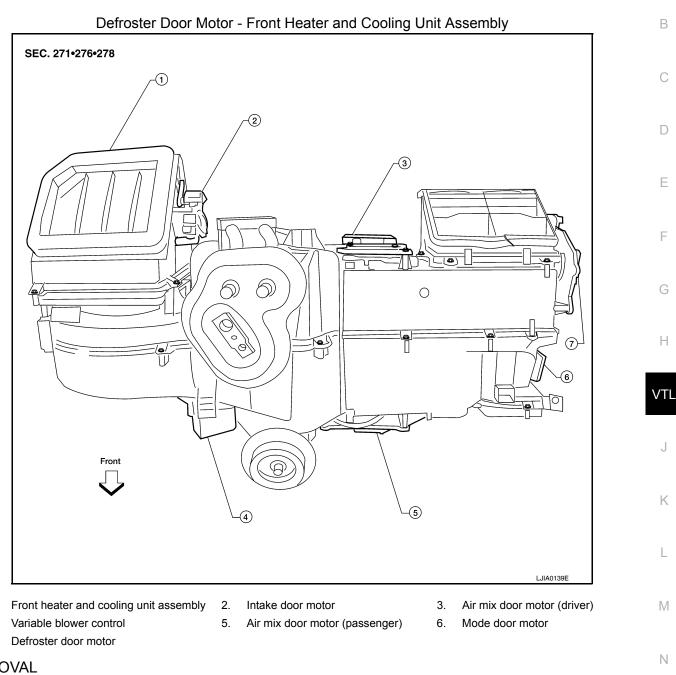
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REMOVAL

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- 1. Remove the BCM. Refer to BCS-55. "Removal and Installation".
- 2. Remove the Bose speaker amplifier. Refer to AV-177, "Removal and Installation".
- 3. Disconnect the defroster door motor electrical connector.
- 4. Remove the three screws and remove the defroster door motor.

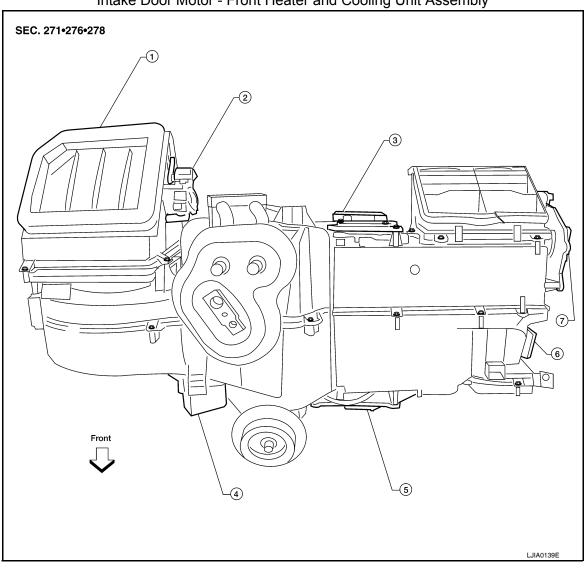
INSTALLATION

< ON-VEHICLE REPAIR >

INTAKE DOOR MOTOR

Removal and Installation

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Intake Door Motor - Front Heater and Cooling Unit Assembly

- Front heater and cooling unit assembly 1.
- 2. Intake door motor
- 3. Air mix door motor (driver)

4. Variable blower control

- Air mix door motor (passenger)
- 6. Mode door motor

Defroster door motor 7.

REMOVAL

- 1. Remove the front heater and cooling unit assembly. Refer to VTL-16, "Removal and Installation".
- 2. Remove the steering member from the front heater and cooling unit assembly.

5.

- 3. Disconnect the intake door motor electrical connector.
- Remove the three screws and remove the intake door motor. 4.

INSTALLATION

MODE DOOR MOTOR

< ON-VEHICLE REPAIR >

MODE DOOR MOTOR

Components

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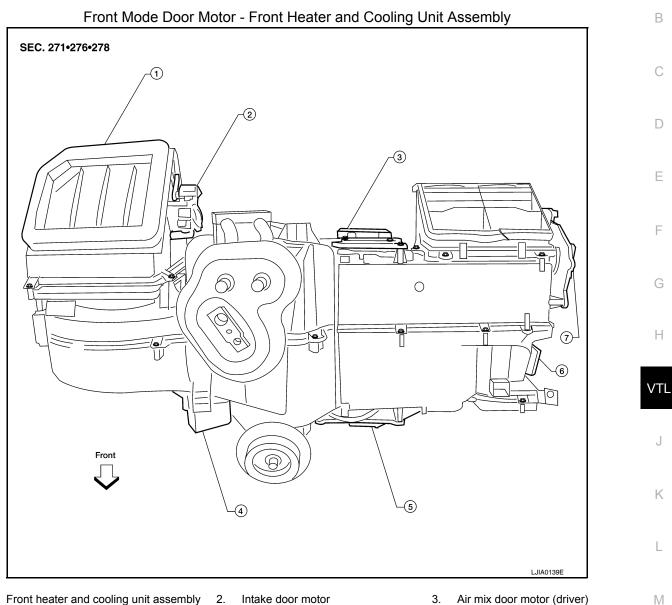
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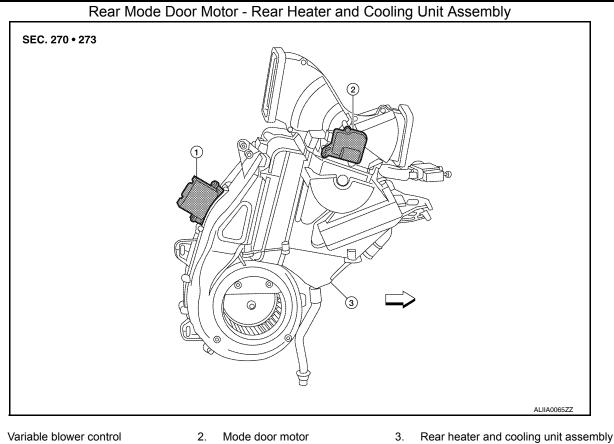
- Front heater and cooling unit assembly 1.
- Intake door motor
 - Air mix door motor (passenger)
- Air mix door motor (driver) Mode door motor 6.

- 4. Variable blower control Defroster door motor 7.
- 5.

Revision: March 2010

MODE DOOR MOTOR

< ON-VEHICLE REPAIR >



⇐ Front

Removal and Installation

FRONT MODE DOOR MOTOR

Removal

1.

- 1. Remove the center console lower cover LH. Refer to IP-20, "Removal and Installation".
- 2. Disconnect the front mode door motor connector.
- 3. Remove the two screws and remove the front mode door motor.

Installation

Installation is in the reverse order of removal.

REAR MODE DOOR MOTOR

Removal

- 1. Remove the luggage side finisher RH. Refer to INT-19. "Removal and Installation".
- 2. Remove the rear heater and cooling unit assembly bolts and tilt the unit outward to access the rear mode door motor.
- 3. Disconnect the rear mode door motor connector.
- 4. Remove the two screws and remove rear mode door motor.

Installation

Installation is in the reverse order of removal.

AIR MIX DOOR MOTOR

< ON-VEHICLE REPAIR >

AIR MIX DOOR MOTOR

Component

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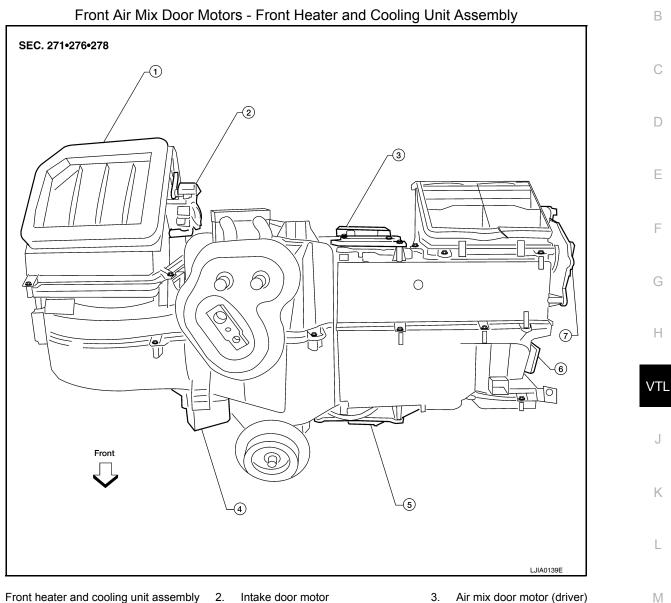
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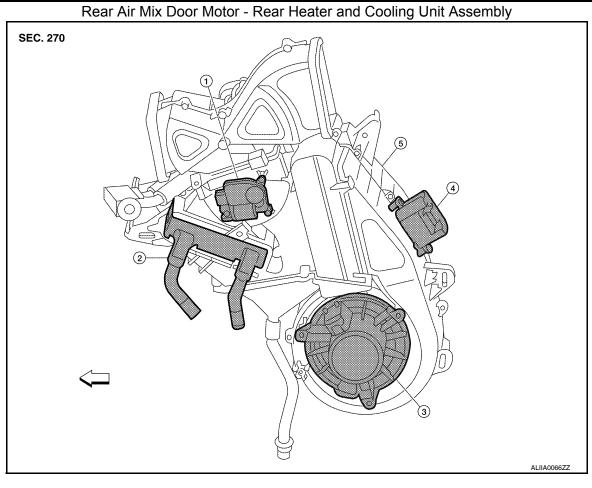
- Front heater and cooling unit assembly 1.
- Intake door motor
- Air mix door motor (passenger)
- Air mix door motor (driver)
- Mode door motor 6.

- 4. Variable blower control Defroster door motor 7.
- 5.

Revision: March 2010

AIR MIX DOOR MOTOR

< ON-VEHICLE REPAIR >



- 1. Air mix door motor
- 4. Variable blower control
- 2. Heater core

Rear heater and cooling unit assembly

- 3. Blower motor
- ⇐ Front

Removal and Installation

INFOID:000000001516619

FRONT AIR MIX DOOR MOTOR (DRIVER)

Removal

- 1. Remove the front heater and cooling unit assembly. Refer to VTL-16. "Removal and Installation".
- 2. Remove the steering member from the front heater and cooling unit assembly.

5.

- 3. Disconnect the air mix door motor electrical connector.
- 4. Remove the three screws and remove the air mix door motor.

Installation

Installation is in the reverse order of removal.

FRONT AIR MIX DOOR MOTOR (PASSENGER)

Removal

- 1. Remove the center console lower cover LH. Refer to IP-12, "Removal and Installation".
- 2. Disconnect the air mix door motor electrical connector.
- 3. Remove the three screws and remove 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 finisher RH. Refer to <u>INT-19, "Removal and Installation"</u>.

VTL-26

AIR MIX DOOR MOTOR

< C	N-VEHICLE REPAIR >	
2.	Disconnect the rear air mix door motor electrical connector.	
3.	Remove the three screws and remove the rear air mix door motor.	А
	allation tallation is in the reverse order of removal.	В
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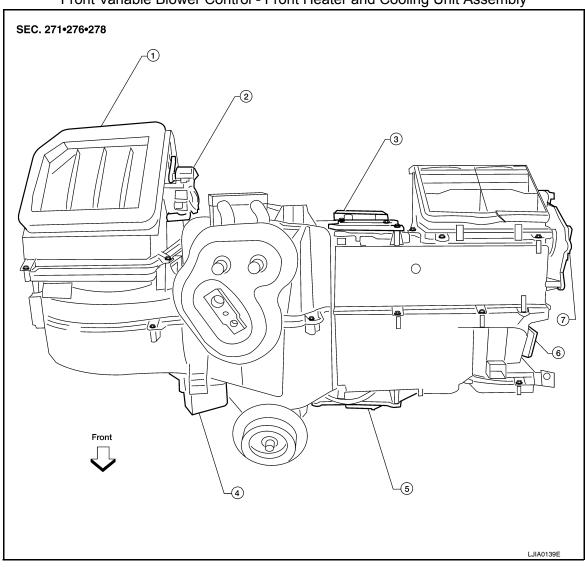
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VARIABLE BLOWER CONTROL

Components

INFOID:000000001516620



Front Variable Blower Control - Front Heater and Cooling Unit Assembly

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

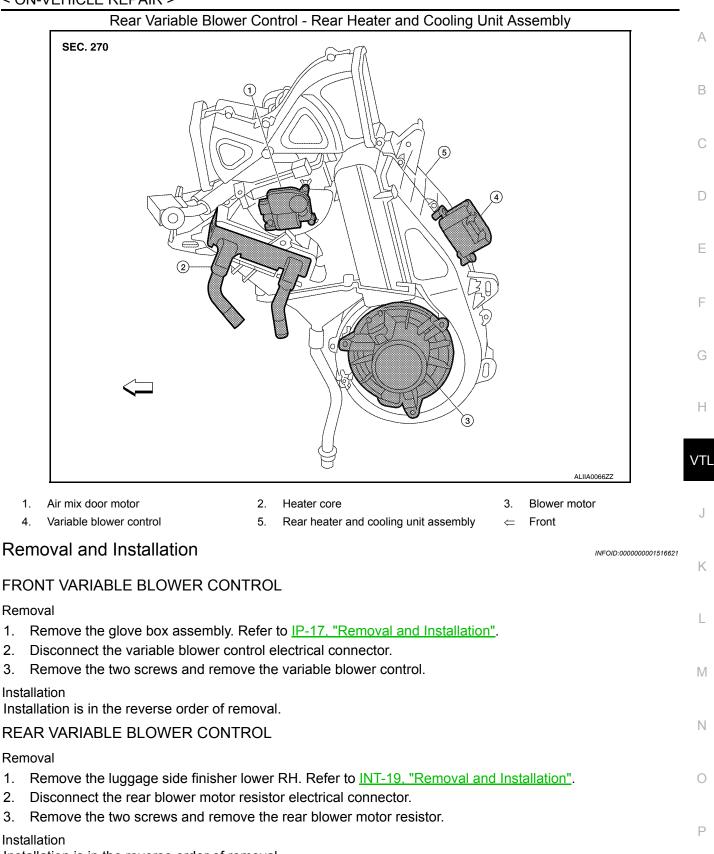
7. Defroster door motor

4.

Variable blower control

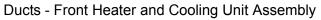
VARIABLE BLOWER CONTROL

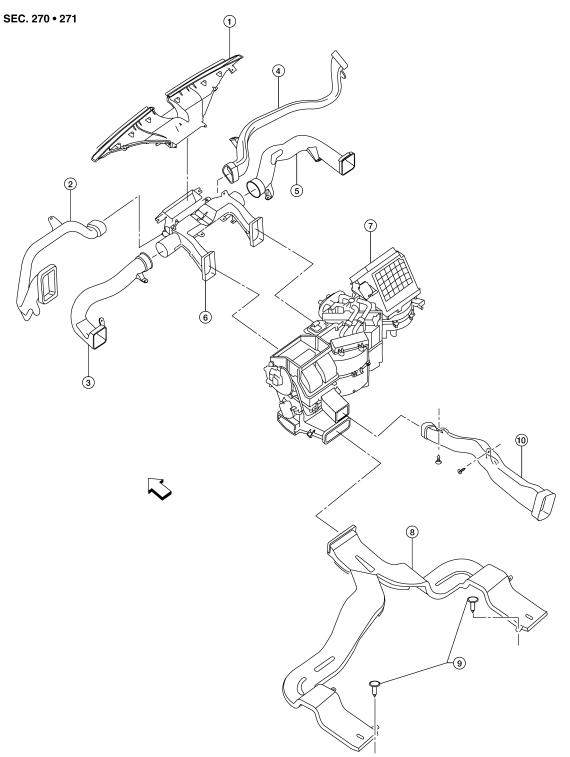
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Component

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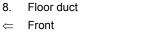


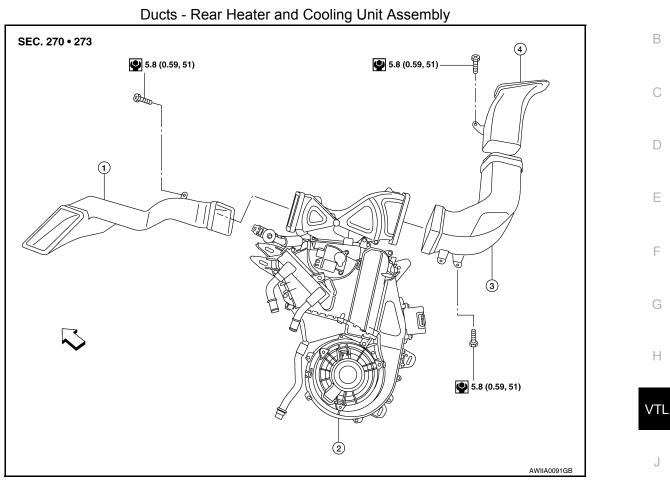
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- 1. Defroster nozzle
- 4. RH side demister duct
- 2. LH side demister duct
- 5. RH ventilator duct
- 3. LH ventilator duct
- 6. Center ventilator duct

< ON-VEHICLE REPAIR >

- Front heater and cooling unit assembly 8. 7.
- 10. Heat duct





1. Rear floor duct

Rear upper overhead duct

4.

Rear heater and cooling unit assembly Front \Leftarrow

2.

Rear lower overhead duct

3.

9. Clips

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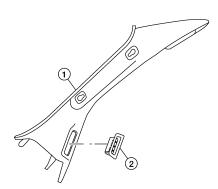
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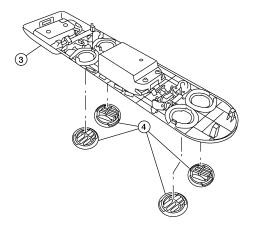
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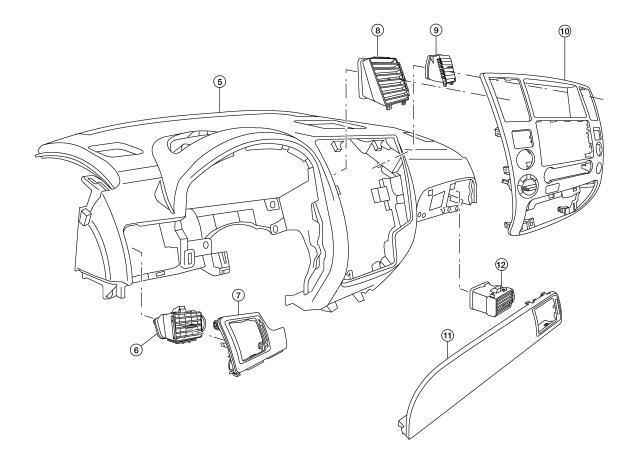
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Grilles









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- 1. Front pillar finisher (RH shown LH 2. similar)
- 4. Rear roof console grilles
- 7. Instrument side finisher (LH)
- 10. Cluster lid C
- ⇐ Front

- Side demister grille (RH shown LH 3. similar)
- 5. Instrument panel
- 8. Ventilator grille (LH)
- 11. Instrument side finisher (RH)
- Rear roof console
- 6. Side ventilator grille (LH)
- 9. Ventilator grille (RH)
- 12. Side ventilator grille (RH)

< ON-VEHICLE REPAIR >	_
Removal and Installation	A
CENTER CONSOLE HEAT DUCT AND REAR FINISHER ASSEMBLY GRILLE	
Removal The center console must be removed and disassembled to remove the heat duct and rear finisher assembly grille. Refer to <u>IP-20</u> , "Removal and Installation".	В
Installation Installation is in the reverse order of removal.	С
DEFROSTER NOZZLE Removal	D
 Remove the instrument panel trim. Refer to <u>IP-12, "Removal and Installation"</u>. Remove the front heater and cooling unit assembly. Refer to <u>VTL-16, "Removal and Installation"</u>. Remove the defroster nozzle. 	E
Installation Installation is in the reverse order of removal. RH AND LH SIDE DEMISTER DUCT	F
Removal	0
 Remove the instrument panel trim. Refer to <u>IP-12, "Removal and Installation"</u>. Remove the RH or LH side demister duct screws. 	G
3. Remove the RH or LH side demister duct.	Н
Installation Installation is in the reverse order of removal.	
RH AND LH VENTILATOR DUCT	VT
Removal	
 Remove the instrument panel trim. Refer to <u>IP-12. "Removal and Installation"</u>. Remove the front heater and cooling unit assembly. Refer to <u>VTL-16, "Removal and Installation"</u>. Remove the RH or LH ventilator duct. 	J
Installation Installation is in the reverse order of removal.	K
CENTER VENTILATOR DUCT	L
 Removal Remove the instrument panel trim. Refer to <u>IP-12, "Removal and Installation"</u>. Remove the front heater and cooling unit assembly. Refer to <u>VTL-16, "Removal and Installation"</u>. 	M
 Remove the defroster nozzle. Remove the RH and LH side demister ducts. Remove the RH and LH ventilator ducts. 	Ν
6. Remove the center ventilator duct.	0
Installation Installation is in the reverse order of removal.	0
FLOOR DUCT	Ρ
 Removal 1. Remove the floor carpet. Refer to <u>INT-16. "Removal and Installation"</u>. 2. Remove the two clips and remove the floor duct. Installation 	

< ON-VEHICLE REPAIR >

REAR OVERHEAD DUCTS

Removal

- 1. Remove the luggage side finisher lower RH. Refer to INT-19, "Removal and Installation".
- Remove the headliner. Refer to <u>INT-17, "Removal and Installation"</u>. NOTE:

The rear headliner duct connected to the rear overhead duct is part of the headlining trim panel and is replaced as an assembly.

3. Remove the two bolts and remove the rear upper and lower overhead ducts.

Installation

Installation is in the reverse order of removal.

REAR FLOOR DUCT

Removal

- 1. Remove the luggage side finisher lower RH. Refer to INT-19, "Removal and Installation".
- 2. Reposition the floor carpet out of the way.
- 3. Remove the two bolts and remove the rear floor duct.

Installation

Installation is in the reverse order of removal.

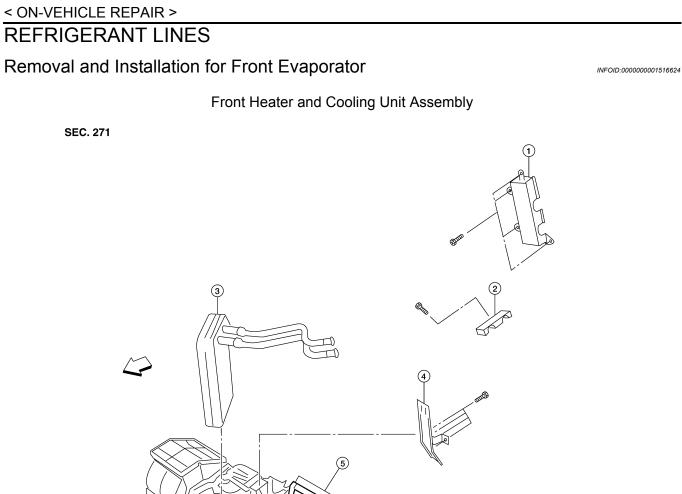
GRILLES

Removal

- 1. Remove the interior trim panels as necessary. Refer to <u>IP-12, "Removal and Installation"</u> or <u>INT-14,</u> <u>"Removal and Installation"</u>.
- 2. Remove the grille from the interior trim panel. **NOTE:**

To remove the rear roof console grilles, turn the grille counter-clockwise to release the grille from the rear roof console.

Installation



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2. Heater core pipe bracket 5.

Remove the front heater core. Refer to VTL-19, "Removal and Installation".

Blower motor

- Upper heater and cooling unit case

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(8)

6. A/C evaporator

Heater core

3.

9. Variable blower control

- 1. Heater core cover Upper bracket 4.
- Lower heater and cooling unit case 8. 7.

6

9

- ← Front
- REMOVAL

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REFRIGERANT LINES

< ON-VEHICLE REPAIR >

- 2. Remove the defroster mode door arm.
- 3. Separate the heater core and cooling unit case.
- 4. Remove the evaporator.

INSTALLATION

Installation is in the reverse order of removal.

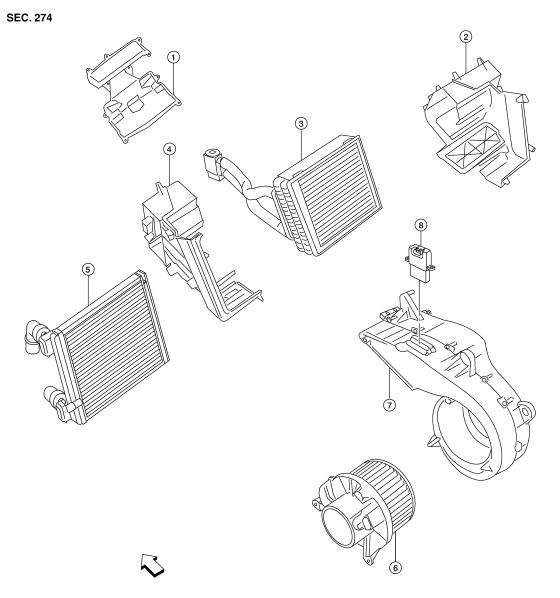
CAUTION:

- Replace the O-rings on the A/C refrigerant pipes with new ones, then apply compressor oil to them when installing them.
- After charging the refrigerant, check for leaks.

Removal and Installation for Rear Evaporator

INFOID:000000001516625

Rear Heater and Cooling Unit Assembly



1. Front cover

- 4. Side cover
- 7. Blower motor case
- ✓ Front

- 2. Evaporator and heater core case
- 5. Heater core
- 8. Variable blower control
- Evaporator
- 6. Blower motor

3.

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REFRIGERANT LINES

	MOVAL	Λ
1.	Remove the rear heater and cooling unit assembly from the vehicle. Refer to <u>VTL-16</u> , " <u>Removal and</u> <u>Installation</u> ".	А
2.	Remove the blower motor.	
3.	Remove the variable blower control.	В
4.	Remove the air mix door motor.	
5.	Remove the mode door motor.	С
6.	Remove the rear duct and mode door assembly. Refer to VTL-33, "Removal and Installation".	C
7.	Disassemble the rear heater and cooling unit assembly to remove the evaporator.	
INS	STALLATION	D
-	tallation is in the reverse order of removal.	
CA	UTION:	
in	eplace the O-rings on the rear A/C pipes with new ones. Apply compressor oil to the O-rings when nstalling them.	Е
• A	fter charging the refrigerant, check for leaks.	
Re	moval and Installation for Rear Expansion Valve	F
RE	MOVAL	
		G
1.	Discharge the refrigerant. Refer to HA-20, "HFC-134a (R-134a) Service Procedure".	0
2.	Remove the luggage side finisher lower (RH). Refer to <u>INT-19, "Removal and Installation"</u> .	
3.	Disconnect the A/C refrigerant pipes from the expansion valve.	Н
	Cap or wrap the A/C refrigerant pipe ends with a suitable material such as vinyl tape to avoid the	
	entry of air and contaminants.	
4.	Remove the expansion valve.	VTL
INS	STALLATION	
-	tallation is in the reverse order of removal.	
		J
	Expansion valve bolts : 4 N·m (0.41 kg-m, 35 in-lb)	
	A/C refrigerant pipe to expansion valve bolt : Refer to <u>HA-29, "Component"</u> .	K
СА	UTION:	ĸ
• R		
	eplace the O-rings on the A/C refrigerant pipes with new ones, then apply compressor oil to them	
	when installing them.	
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