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AIR MIX DOOR MOTOR
DUCTS AND GRILLES

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

INFOID:000000005403099

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

1. 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.
- 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.)
- Perform a self-diagnosis check of all control units using CONSULT-III.

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

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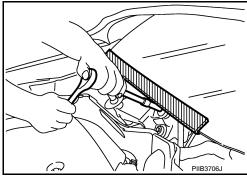
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WARNING:

- 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 HA-4, "Contaminated Refrigerant". 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. 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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Revision: April 2009 VTL-3 2010 QX56

PREPARATION

< PREPARATION >

PREPARATION

PREPARATION

Commercial Service Tool

INFOID:000000005147602

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

IN-CABIN MICROFILTER

< FUNCTION DIAGNOSIS >

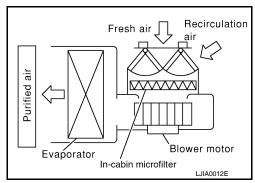
FUNCTION DIAGNOSIS

IN-CABIN MICROFILTER

Description NFOID:0000000005147603

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 MA-9. "Introduction of Periodic Maintenance". 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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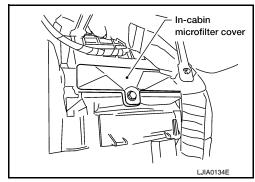
ON-VEHICLE MAINTENANCE

IN-CABIN MICROFILTER

Removal and Installation

REPLACEMENT PROCEDURE

- Remove the glove box assembly from the instrument panel. Refer to <u>IP-17, "Removal and Installation"</u>.
- 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.

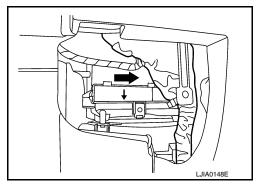


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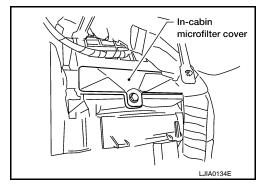
4. Insert the first new in-cabin microfilter into the front heater and cooling unit assembly housing and slide it over to the right. Insert the second new in-cabin microfilter into the front heater and cooling unit assembly housing as shown.

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

CONTROL UNIT

Removal and Installation

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A/C and AV SWITCH ASSEMBLY

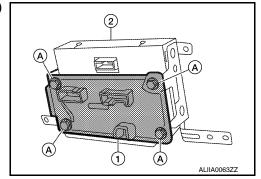
Removal and Installation

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 AV-169, "Removal and Installation".

A/C AUTO AMP.

Removal

- 1. Remove the display unit. Refer to AV-171, "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).



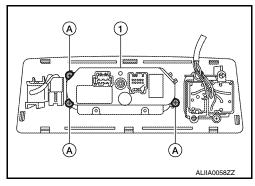
Installation

Installation is in the reverse order of removal.

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).



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 INT-17, "Removal and Installation".

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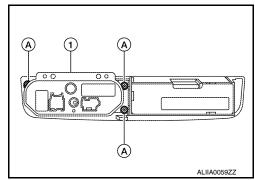
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CONTROL UNIT

< 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 >

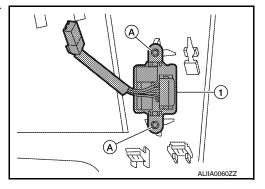
IN-VEHICLE SENSOR

Removal and Installation

INFOID:0000000005147606

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

< ON-VEHICLE REPAIR >

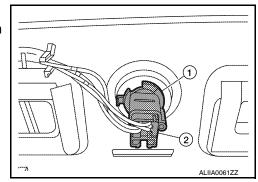
OPTICAL SENSOR

Removal and Installation

INFOID:0000000005147607

REMOVAL

- 1. Remove the defroster grille from the instrument panel. Refer to VTL-36, "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.

INTAKE SENSOR

< ON-VEHICLE REPAIR >

INTAKE SENSOR

Removal and Installation

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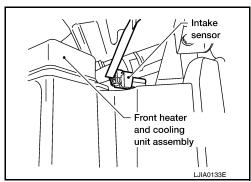
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REMOVAL

- 1. Remove the instrument lower panel RH and glove box. Refer to IP-17, "Removal and Installation".
- 2. 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. Pull up on 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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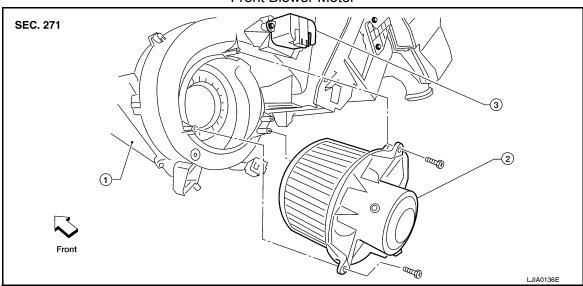
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BLOWER MOTOR

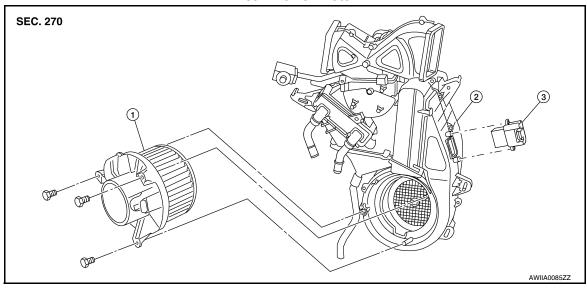
Component INFOID:0000000005147609

Front Blower Motor



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

Rear Blower Motor



- 1. Rear blower motor
- Rear heater and cooling unit assembly 3. Rear variable blower control

Removal and Installation

INFOID:0000000005147610

FRONT BLOWER MOTOR

Removal

- 1. Remove the glove box assembly. Refer to IP-17, "Removal and Installation".
- Disconnect the front blower motor electrical connector.
- Remove the three screws and remove the front blower motor.
- Remove the blower motor wheel as necessary to transfer to the new blower motor.

Installation

Installation is in the reverse order of removal.

BLOWER MOTOR

< ON-VEHICLE REPAIR >

REAR BLOWER MOTOR

Removal

- 1. Remove the rear heater and cooling unit assembly. Refer to VTL-17, "Removal and Installation".
- 2. Disconnect the rear blower motor electrical connector.
- 3. Remove the three screws and remove the rear blower motor.
- 4. Remove the blower motor wheel as necessary to transfer to the new blower motor.

Installation

Installation is in the reverse order of removal.

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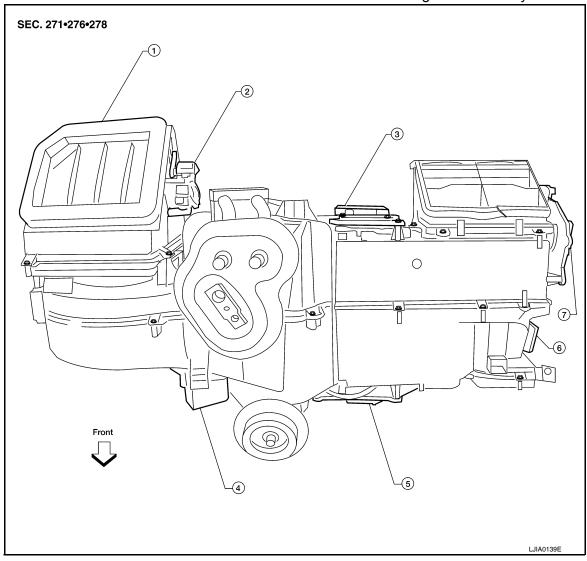
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VARIABLE BLOWER CONTROL

Components INFOID:0000000005147622

Front Variable Blower Control - Front Heater and Cooling Unit Assembly

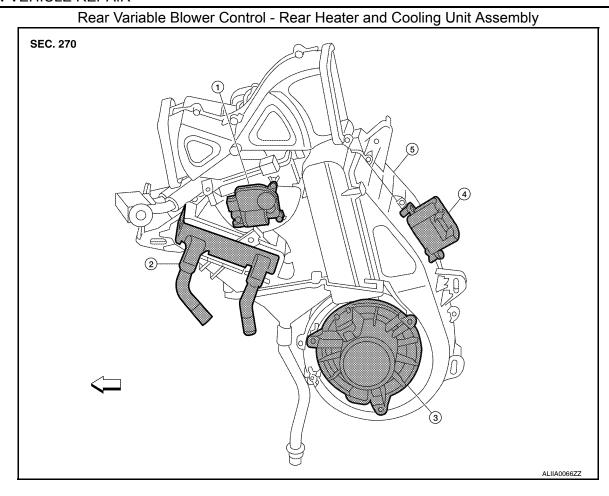


- 1. Front heater and cooling unit assembly
- 4. Variable blower control
- 7. Defroster door motor

- 2. Intake door motor
- 5. Air mix door motor (passenger)
- 3. Air mix door motor (driver)
- 6. Mode door motor

VARIABLE BLOWER CONTROL

< ON-VEHICLE REPAIR >



- Air mix door motor
- Variable blower control
- 2. Heater core
- Rear heater and cooling unit assembly 5.
- Blower motor
- <□ Front

Removal and Installation

FRONT VARIABLE BLOWER CONTROL

- 1. Remove the glove box assembly. Refer to IP-17. "Removal and Installation".
- Disconnect the variable blower control electrical connector.
- Remove the two screws and remove the variable blower control. 3.

Installation

Removal

Installation is in the reverse order of removal.

REAR VARIABLE BLOWER CONTROL

Removal

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

Installation

Installation is in the reverse order of removal.

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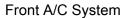
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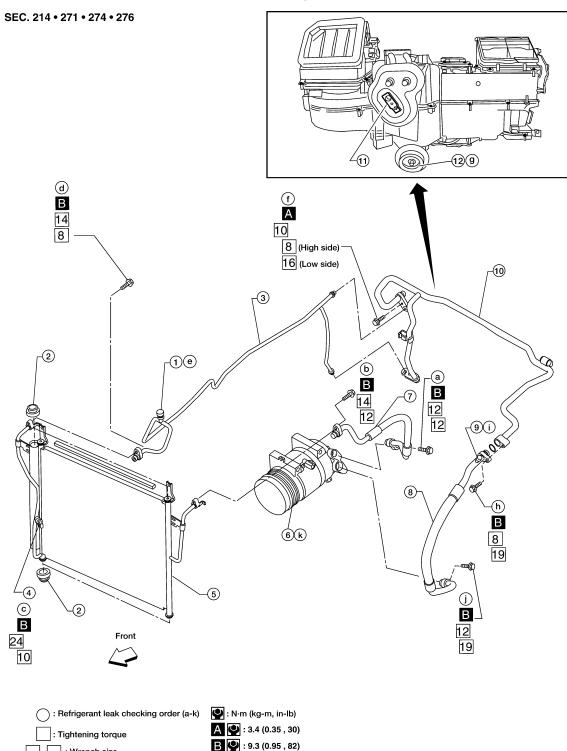
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VTL-15 Revision: April 2009 2010 QX56

HEATER & COOLING UNIT ASSEMBLY

Component INFOID:0000000005147612





: Wrench size

B : 9.3 (0.95 , 82)

: O-ring size

WJIA1578E

- High-pressure service valve
- Refrigerant pressure sensor
- Grommet
- Condenser

- High-pressure pipe
- Compressor shaft seal

HEATER & COOLING UNIT ASSEMBLY

Rear A/C System

5.5 (0.56, 49)

5.5 (0.56, 49)

< ON-VEHICLE REPAIR >

High-pressure flexible hose

A 12 [©] 8 n 16 P

SEC. 214 • 271 • 274 • 276

- 10. Low-pressure pipe
- Low-pressure flexible hose
- 11. Expansion valve (front)
- Low-pressure service valve
- 12. Drain hose

5.8 (0.59, 51)

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INFOID:0000000005147613

Rear heater and cooling unit assembly 2.

A 3.4 (0.35, 30)

- 4. Rear heater core hose
- 7. Underfloor rear heater core pipes

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- Tightening torque
- <
 → Front

- Rear A/C pipes
- 5. Rear blower motor
- A. Bolt torque specification
- D. Wrench size

3. Rear A/C heater core pipes

5.5 (0.56, 49)

- Underfloor rear A/C pipes 6.
- В. Leak checking order (I - r)
- O-ring size

8 m 16 q

5.5 (0.56, 49)

Α 10

8 (1)

16 (r)

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

VTL-17 Revision: April 2009 2010 QX56

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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.
- 3. Discharge the refrigerant from the A/C system. Refer to HA-20, "HFC-134a (R-134a) Service Procedure".
- 4. Drain the coolant from the engine cooling system. Refer to CO-11, "Changing Engine Coolant".
- 5. Disconnect the front heater hoses from the front heater core.
- 6. Disconnect the high/low pressure pipes from the front expansion valve.
- 7. Remove the instrument panel and console panel. Refer to IP-12, "Removal and Installation".
- 8. 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 <u>Diagram Battery Power Supply —</u>".
- 9. Disconnect the steering member from each side of the vehicle body.
- 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.

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

Installation

Installation is in the reverse order of removal.

CAUTION:

- Replace the O-ring of the low-pressure pipe and high-pressure pipe with a new one, and apply compressor oil to it when installing it.
- After charging the refrigerant, check for leaks.

NOTE:

- Fill the engine cooling system with the specified coolant mixture. Refer to <u>CO-11, "Changing Engine Cool-ant"</u>.
- Recharge the A/C system. Refer to HA-20, "HFC-134a (R-134a) Service Procedure".

REAR HEATER AND COOLING UNIT ASSEMBLY

Removal

- Discharge the refrigerant from the A/C system. Refer to HA-20, "HFC-134a (R-134a) Service Procedure".
- Drain the coolant from the engine cooling system. Refer to <u>CO-11, "Changing Engine Coolant"</u>.
- Remove the luggage side finisher lower and upper RH. Refer to <u>INT-19, "Removal and Installation"</u>.
- 4. Disconnect the rear heater core hoses from the rear heater core.
- 5. Disconnect the rear A/C pipes from the rear expansion valve.
- 6. Disconnect the following electrical connectors:
 - Rear blower motor
 - · Rear variable blower control
 - · Rear air mix door motor
 - Rear mode door motor
- 7. Disconnect the ducts and drain tube from the rear heater and cooling unit assembly.
- 8. Remove the rear heater and cooling unit assembly.

Installation

Installation is in the reverse order of removal.

CAUTION:

- Replace the O-ring of the low-pressure pipe and high-pressure pipe with a new one, and apply compressor oil to it when installing it.
- · After charging the refrigerant, check for leaks.

NOTE:

- Fill the engine cooling system with the specified coolant mixture. Refer to <u>CO-11, "Changing Engine Cool-ant"</u>.
- Recharge the A/C system. Refer to HA-20, "HFC-134a (R-134a) Service Procedure".

EVAPORATOR

Removal and Installation for Front Evaporator

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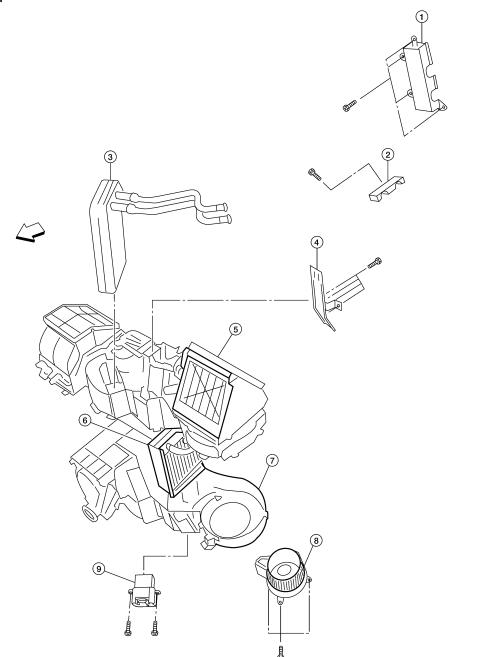
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Front Heater and Cooling Unit Assembly

SEC. 271



AWIIA0086ZZ

1. Heater core cover

Upper bracket

7. Lower heater and cooling unit case 8.

← Front

- 2. Heater core pipe bracket
- 5. Upper heater and cooling unit case
- 8. Blower motor

- 3. Heater core
- 6. A/C evaporator
- 9. Variable blower control

REMOVAL

Remove the front heater core. Refer to <u>VTL-24, "Removal and Installation"</u>.

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EVAPORATOR

< 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.

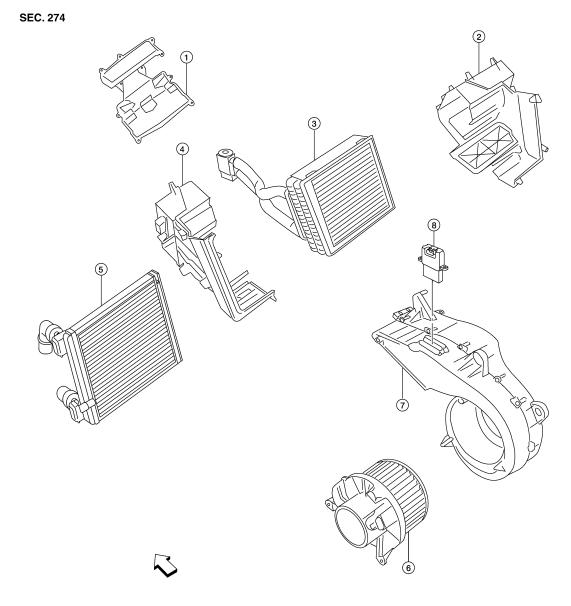
CAUTION:

- 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:0000000005147627

Rear Heater and Cooling Unit Assembly



AWIIA0087ZZ

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

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

EVAPORATOR

< ON-VEHICLE REPAIR >

REMOVAL

- 1. Remove the rear heater and cooling unit assembly from the vehicle. Refer to <u>VTL-17, "Removal and Installation"</u>.
- 2. Remove the blower motor.
- 3. Remove the variable blower control.
- 4. Remove the air mix door motor.
- 5. Remove the mode door motor.
- 6. Remove the rear duct and mode door assembly. Refer to VTL-36, "Removal and Installation".
- 7. Disassemble the rear heater and cooling unit assembly to remove the evaporator.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

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

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EXPANSION VALVE

< ON-VEHICLE REPAIR >

EXPANSION VALVE

Removal and Installation for Rear Expansion Valve

INFOID:0000000005147628

REMOVAL

- 1. Discharge the refrigerant. Refer to HA-20, "HFC-134a (R-134a) Service Procedure".
- 2. Remove the luggage side finisher lower (RH). Refer to INT-19, "Removal and Installation".
- Disconnect the A/C refrigerant pipes from the expansion valve. CAUTION:

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.

INSTALLATION

Installation is in the reverse order of removal.

Expansion valve bolts : 4 N·m (0.41 kg-m, 35 in-lb)

A/C refrigerant pipe to expansion valve bolt : Refer to HA-29, "Component".

CAUTION:

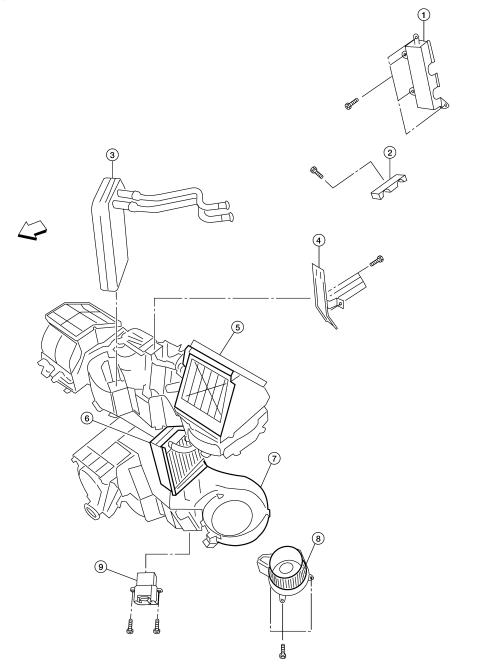
- Replace the O-rings on the A/C refrigerant pipes with new ones, then apply compressor oil to them when installing them.
- · After charging the refrigerant, check for leaks.

HEATER CORE

Component INFOID:0000000005147614

Front Heater and Cooling Unit Assembly

SEC. 271



AWIIA0086ZZ

Heater core cover

Upper bracket

Lower heater and cooling unit case

← Front

Heater core pipe bracket

5. Upper heater and cooling unit case

8. Blower motor 3. Heater core

6. A/C evaporator

9. Variable blower control

VTL-23 Revision: April 2009 2010 QX56

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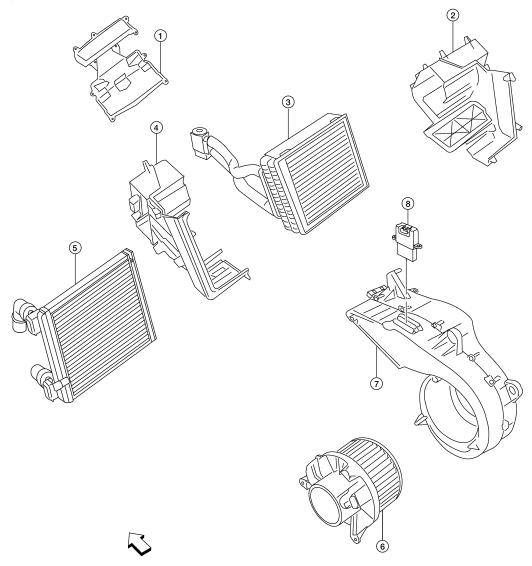
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Rear Heater and Cooling Unit Assembly

SEC. 274



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

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

Removal and Installation

INFOID:0000000005147615

FRONT HEATER CORE

Removal

- 1. Remove the front heater and cooling unit assembly. Refer to VTL-17, "Removal and Installation".
- 2. Remove the four screws and remove the upper bracket.
- 3. Remove the four screws and remove the heater core cover.
- 4. Remove the heater core pipe bracket.

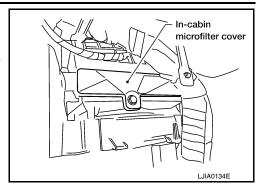
HEATER CORE

< ON-VEHICLE REPAIR >

5. Remove the heater core.

NOTE:

If equipped and 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 CO-11, "Changing Engine Coolant".
- 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.
- Remove the heater core.

Installation

Installation is in the reverse order of removal.

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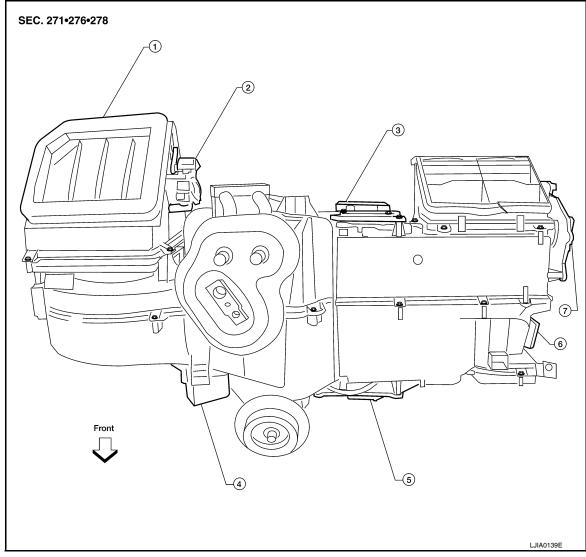
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DEFROSTER DOOR MOTOR

Removal and Installation

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Defroster Door Motor - Front Heater and Cooling Unit Assembly



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

REMOVAL

- 1. Remove the BCM. Refer to BCS-59, "Removal and Installation".
- 2. Remove the Bose speaker amplifier if equipped. Refer to AV-182, "Removal and Installation".
- 3. Disconnect the defroster door motor electrical connector.
- 4. Remove the three screws and remove the defroster door motor.

INSTALLATION

Installation is in the reverse order of removal.

INTAKE DOOR MOTOR

Removal and Installation

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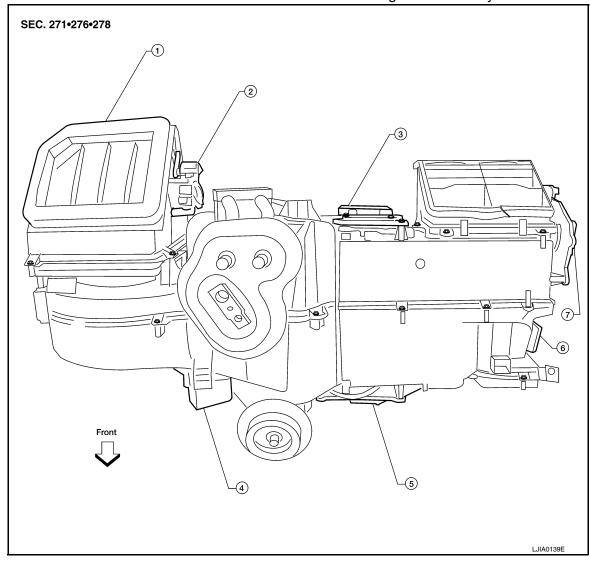
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Intake Door Motor - Front Heater and Cooling Unit Assembly



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

- Variable blower control
- Air mix door motor (passenger)
- Mode door motor

Defroster door motor

REMOVAL

- 1. Remove the front heater and cooling unit assembly. Refer to VTL-17, "Removal and Installation".
- 2. Remove the steering member from the front heater and cooling unit assembly.
- 3. Disconnect the intake door motor electrical connector.
- Remove the three screws and remove the intake door motor.

INSTALLATION

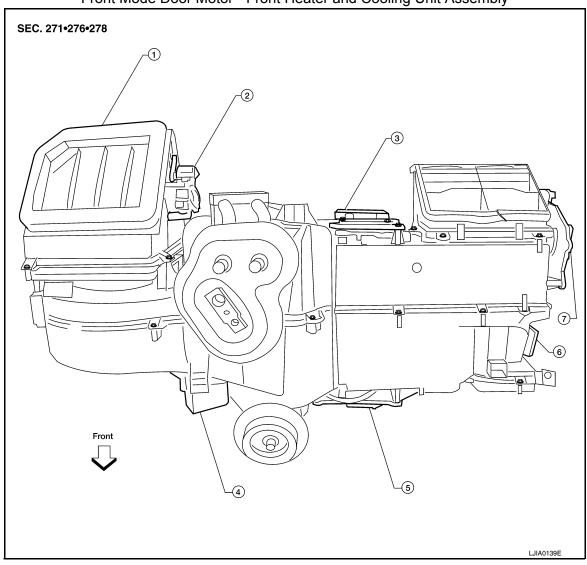
Installation is in the reverse order of removal.

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MODE DOOR MOTOR

Components INFOID:0000000005147618

Front Mode Door Motor - Front Heater and Cooling Unit Assembly



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

Rear Mode Door Motor - Rear Heater and Cooling Unit Assembly SEC. 270 • 273 (3)

Variable blower control

2. Mode door motor

Rear heater and cooling unit assembly

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Removal and Installation

FRONT MODE DOOR MOTOR

Removal

- 1. Remove the instrument lower panel LH. Refer to IP-11, "Exploded View".
- Remove the accelerator pedal. Refer to ACC-4, "Removal and Installation".
- 3. Remove the BCM. Refer to BCS-59, "Removal and Installation".
- Remove the BOSE amp. (if equipped). Refer to AV-182, "Removal and Installation".
- Remove the center console lower cover LH. Refer to IP-20, "Removal and Installation".
- Disconnect the front mode door motor connector.
- 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

- Remove the luggage side finisher lower and upper RH. Refer to INT-19, "Removal and Installation".
- Remove the rear heater and cooling unit assembly. Refer to VTL-17, "Removal and Installation".
- Disconnect the rear mode door motor connector.
- Remove the two screws and remove rear mode door motor.

Installation

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Installation is in the reverse order of removal.

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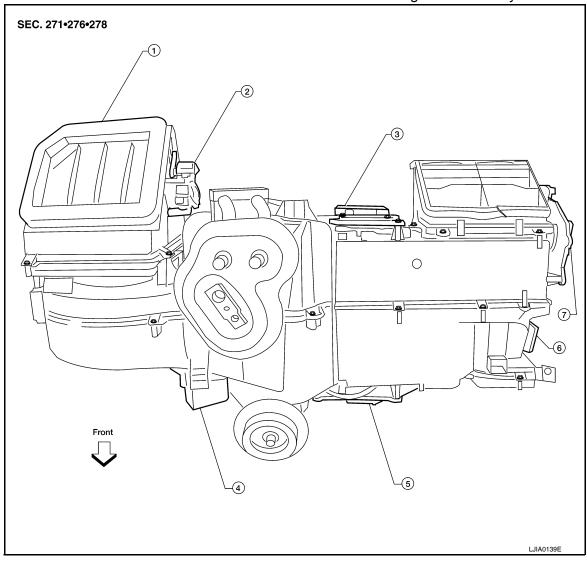
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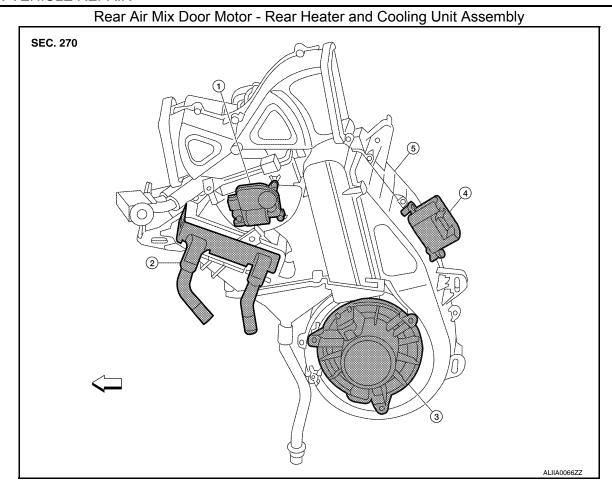
AIR MIX DOOR MOTOR

Component INFOID:0000000005147620

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



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



- Air mix door motor
- Variable blower control
- 2. Heater core
- 5. Rear heater and cooling unit assembly
- Blower motor
- ← Front

Removal and Installation

FRONT AIR MIX DOOR MOTOR (DRIVER)

- Remove the front heater and cooling unit assembly. Refer to <u>VTL-17, "Removal and Installation"</u>.
- Remove the steering member from the front heater and cooling unit assembly.
- Disconnect the air mix door motor electrical connector.
- Remove the three screws and remove the air mix door motor.

Installation

Removal

Removal

Installation is in the reverse order of removal.

FRONT AIR MIX DOOR MOTOR (PASSENGER)

- Remove the center console lower cover LH. Refer to IP-12, "Removal and Installation".
- 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

Remove the luggage side lower finisher RH. Refer to INT-19, "Removal and Installation".

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AIR MIX DOOR MOTOR

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

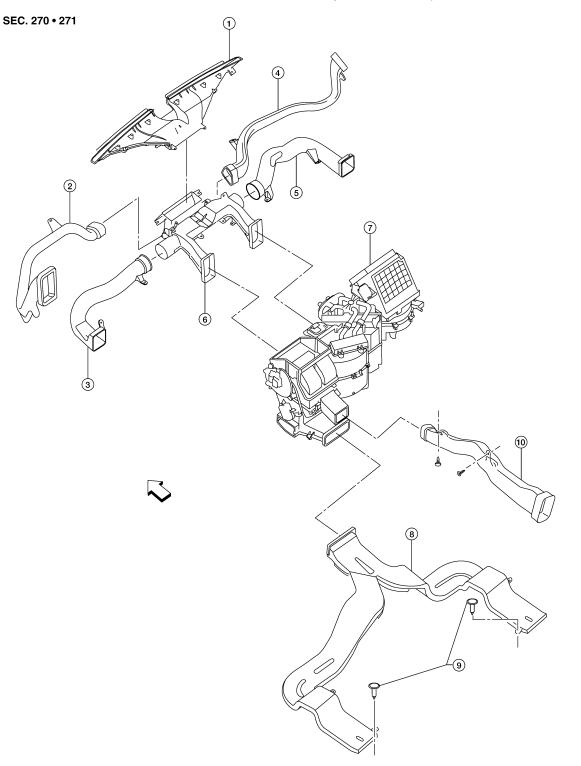
Installation

Installation is in the reverse order of removal.

DUCTS AND GRILLES

Component

Ducts - Front Heater and Cooling Unit Assembly



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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

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DUCTS AND GRILLES

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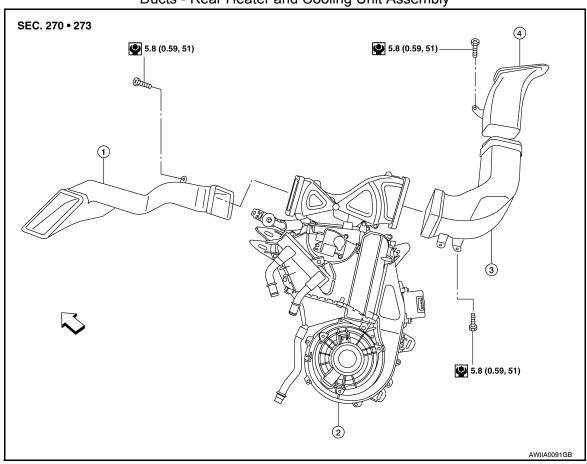
- 7. Front heater and cooling unit assembly
- 8. Floor duct

9. Clips

10. Heat duct

← Front

Ducts - Rear Heater and Cooling Unit Assembly

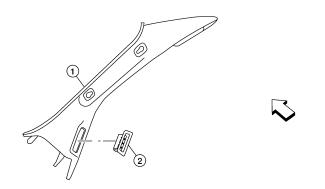


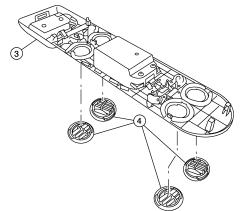
- 1. Rear floor duct
- 2. Rear heater and cooling unit assembly
- 3. Rear lower overhead duct

- 4. Rear upper overhead duct
- ← Front



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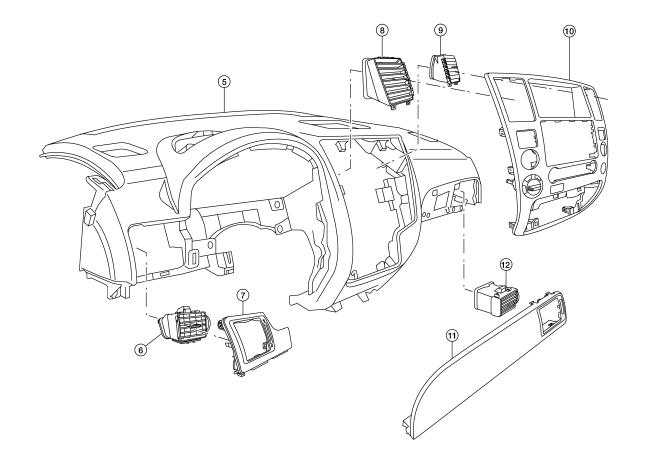
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- 1. Front pillar finisher (RH shown LH 2. similar)
- 4. Rear roof console grilles
- 7. Instrument side finisher (LH)
- 10. Cluster lid C
- <□ Front

- . 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)

12. Cide vertilator grille (1411

DUCTS AND GRILLES

< ON-VEHICLE REPAIR >

Removal and Installation

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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".

Installation

Installation is in the reverse order of removal.

DEFROSTER NOZZLE

Removal

- 1. Remove the instrument panel trim. Refer to IP-12, "Removal and Installation".
- Remove the front heater and cooling unit assembly. Refer to VTL-17, "Removal and Installation".
- 3. Remove the defroster nozzle.

Installation

Installation is in the reverse order of removal.

RH AND LH SIDE DEMISTER DUCT

Removal

- Remove the instrument panel trim. Refer to <u>IP-12</u>, "Removal and Installation".
- Remove the RH or LH side demister duct screws.
- 3. Remove the RH or LH side demister duct.

Installation

Installation is in the reverse order of removal.

RH AND LH VENTILATOR DUCT

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-17, "Removal and Installation"</u>.
- 3. Remove the RH or LH ventilator duct.

Installation

Installation is in the reverse order of removal.

CENTER VENTILATOR DUCT

Removal

- 1. Remove the instrument panel trim. Refer to IP-12, "Removal and Installation".
- 2. Remove the front heater and cooling unit assembly. Refer to VTL-17, "Removal and Installation".
- Remove the defroster nozzle.
- 4. Remove the RH and LH side demister ducts.
- 5. Remove the RH and LH ventilator ducts.
- 6. Remove the center ventilator duct.

Installation

Installation is in the reverse order of removal.

FLOOR DUCT

Removal

- Remove the floor carpet. Refer to <u>INT-16, "Removal and Installation"</u>.
- Remove the two clips and remove the floor duct.

Installation

Installation is in the reverse order of removal.

DUCTS AND GRILLES

< ON-VEHICLE REPAIR >

REAR OVERHEAD DUCTS

Removal

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

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

- Remove the luggage side finisher lower RH. Refer to INT-19, "Removal and Installation".
- Reposition the floor carpet out of the way.
- 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 IP-12, "Removal and Installation" or INT-14, "Removal and Installation".
- 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

Installation is in the reverse order of removal.

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