SECTION VTL
VENTILATION SYSTEM

CONTENTS

WITHOUT 7 INCH DISPLAY

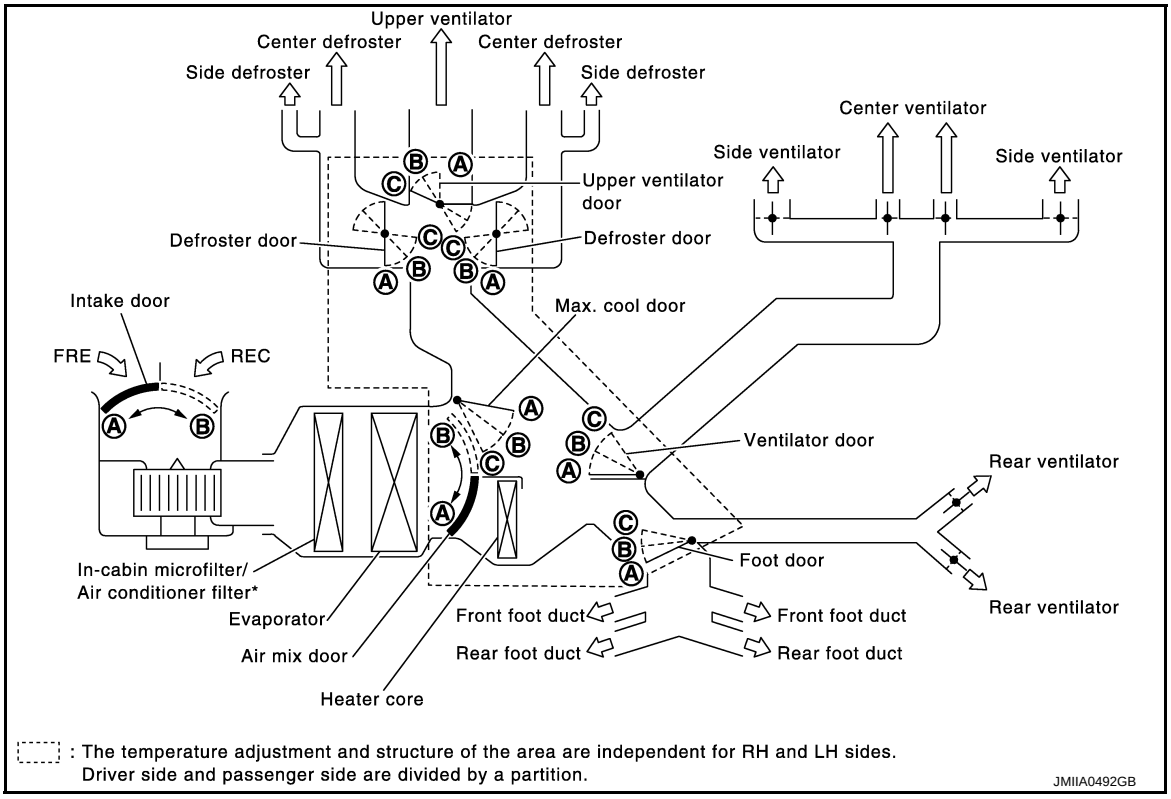
WITH 7 INCH DISPLAY

SYSTEM DESCRIPTION

SWITCHES AND THEIR CONTROL FUNCTION

System Description

INFOID:0000000005517088



* : Models for Mexico.

Switch position				Door position							
				Ventilator door	Max. cool door	Defroster door	Foot door	Upper ventilator door	Intake door	Air mix door (Driver side)	Air mix door (Passenger side)
AUTO switch	☀			AUTO						AUTO	
MODE switch	VENT			A	A	A	A			—	—
	B/L			B	B	A	B				
	FOOT			C	B	B	C	—	—		
	D/F			C	B	B	B		B		
DEF switch		☀		C	C	C	A		B		
UPPER VENT switch	ON		☀	—				A-B	—		
	OFF		○					C			

Switch position				Door position							
				Ventilator door	Max. cool door	Defroster door	Foot door	Upper ventilator door	Intake door	Air mix door (Driver side)	Air mix door (Passenger side)
Intake switch	ON		☀	—	—	—	—	—	A*		
	OFF		○						B*		
Temperature control switch (Driver side)	DUAL switch: OFF	18.0°C (60°F)							—	A	
		18.5°C ⇔ 31.5°C (61°F ⇔ 89°F)								AUTO	
		32.0°C (90°F)								B	
Temperature control switch (Driver side)	DUAL switch: ON	18.0°C (60°F)								A	—
		18.5°C ⇔ 31.5°C (61°F ⇔ 89°F)								AUTO	
		32.0°C (90°F)								B	
Temperature control switch (Passenger side)		18.0°C (60°F)								—	A
		18.5°C ⇔ 31.5°C (61°F ⇔ 89°F)									AUTO
		32.0°C (90°F)									B
ON/OFF switch				C	C	B	C	—	B	—	—

*: Inlet status is displayed by indicator when activating automatic control.

AIR DISTRIBUTION

System Description

INFOID:0000000005517089

Discharge air flow							
Mode position indication	Condition	Air outlet/distribution					
		VENT			FOOT		DEF
		Front	Upper	Rear	Front	Rear	
	DUAL switch: OFF UPPER VENT switch : ON	81%	8%	11%	—	—	—
		41%	10%	17%	24%	8%	—
		12%	12%	16%	27%	10%	23%
		11%	11%	14%	25%	10%	29%
		11%	11%	12%	—	—	66%

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Discharge air flow							
Mode position indication	Condition	Air outlet/distribution					
		VENT			FOOT		DEF
		Front	Upper	Rear	Front	Rear	
	DUAL switch: OFF UPPER VENT switch : OFF	88%	—	12%	—	—	—
		47%	—	18%	26%	9%	—
		13%	—	17%	33%	12%	25%
		12%	—	16%	28%	12%	32%
		11%	—	15%	—	—	74%

JPIIA0510GB

PRECAUTION

PRECAUTIONS

FOR USA AND CANADA

FOR USA AND CANADA : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:0000000005517090

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 “SRS AIR BAG” and “SEAT BELT” 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 “SRS AIR BAG”.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

FOR MEXICO

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

INFOID:0000000005672152

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the “SRS AIR BAG” and “SEAT BELT” 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 “SRS AIR BAG”.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s)**

with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:0000000005517092

NOTE:
- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.
If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

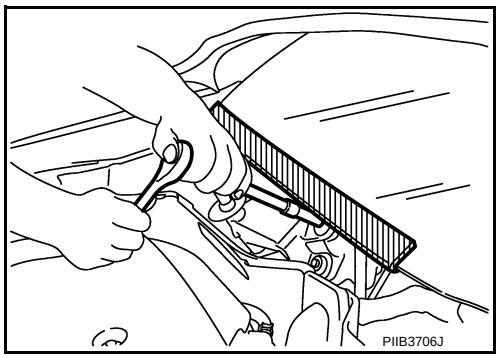
OPERATION PROCEDURE

1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Turn the push-button ignition switch to ACC position.
   (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

Precaution for Procedure without Cowl Top Cover

INFOID:0000000005517093

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



Precautions For Xenon Headlamp Service

INFOID:0000000005517094

WARNING:
Comply with the following warnings to prevent any serious accident.
- **Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.**
- **Never work with wet hands.**
- **Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)**
- **Never touch the bulb glass immediately after turning it OFF. It is extremely hot.**

CAUTION:

Comply with the following cautions to prevent any error and malfunction.
- **Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)**
- **Never perform HID circuit inspection with a tester.**
- **Never touch the xenon bulb glass with hands. Never put oil and grease on it.**
- **Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.**
- **Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).**

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

INFOID:0000000005517095

CAUTION:
- **CFC-12 (R-12) refrigerant and HFC-134a (R-134a) refrigerant are not compatible. Compressor malfunction is likely to occur if the refrigerants are mixed, refer to "CONTAMINATED REFRIGERANT" below. To determine the purity of HFC-134a (R-134a) in the vehicle and recovery tank, use Refrigerant Recovery/Recycling Recharging equipment and Refrigerant Identifier.**
- **Use only specified lubricant for the HFC-134a (R-134a) A/C system and HFC-134a (R-134a) components. Compressor malfunction is likely to occur if lubricant other than that specified is used.**
- **The specified HFC-134a (R-134a) lubricant rapidly absorbs moisture from the atmosphere. The following handling precautions must be observed:**
- **Immediately cap (seal) immediately the component to minimize the entry of moisture from the atmosphere when removing refrigerant components from a vehicle.**
- **Never remove the caps (unseal) until just before connecting the components when installing refrigerant components to a vehicle. Connect all refrigerant loop components as quickly as possible to minimize the entry of moisture into system.**
- **Use only the specified lubricant from a sealed container. Immediately reseal containers of lubricant. Lubricant becomes saturated with moisture and should not be used without proper sealing.**
- **Never allow lubricant (NISSAN A/C System Oil Type S) to come in to contact with styrene foam parts. Damage may result.**

CONTAMINATED REFRIGERANT

Take the appropriate steps shown below if a refrigerant other than pure HFC-134a (R-134a) is identified in a vehicle:
- Explain to the customer that environmental regulations prohibit the release of contaminated refrigerant into the atmosphere.
- Explain that recovery of the contaminated refrigerant could damage service equipment and refrigerant supply.
- Suggest the customer return the vehicle to the location of previous service where the contamination may have occurred.
- If repairing, recover the refrigerant using only **dedicated equipment and containers. Never reintroduce contaminated refrigerant into the existing service equipment.** Contact a local refrigerant product retailer for available service if the facility does not have dedicated recovery equipment. This refrigerant must be disposed of in accordance with all federal and local regulations. In addition, replacement of all refrigerant system components on the vehicle is recommended.
- The air conditioner warranty is void if the vehicle is within the warranty period. Please contact Nissan Customer Affairs for further assistance.

General Refrigerant Precaution

INFOID:0000000005517096

WARNING:
- **Never breathe A/C refrigerant and lubricant vapor or mist. Exposure may irritate eyes, nose or throat. Remove HFC-134a (R-134a) from the A/C system, using certified service equipment meeting requirements of SAE J-2210 [HFC-134a (R-134a) recycling equipment], or J-2209 [HFC-134a (R-134a) recovery equipment]. Ventilate the work area before resuming service if accidental system discharge occurs. Additional health and safety information may be obtained from refrigerant and lubricant manufacturers.**
- **Never release refrigerant into the air. Use approved recovery/recycling equipment to capture the refrigerant each time an air conditioning system is discharged.**
- **Always wear eye and hand protection (goggles and gloves) when working with any refrigerant or air conditioning system.**
- **Never store or heat refrigerant containers above 52°C (126°F).**
- **Never heat a refrigerant container with an open flame. Place the bottom of the container in a warm pail of water if container warming is required.**

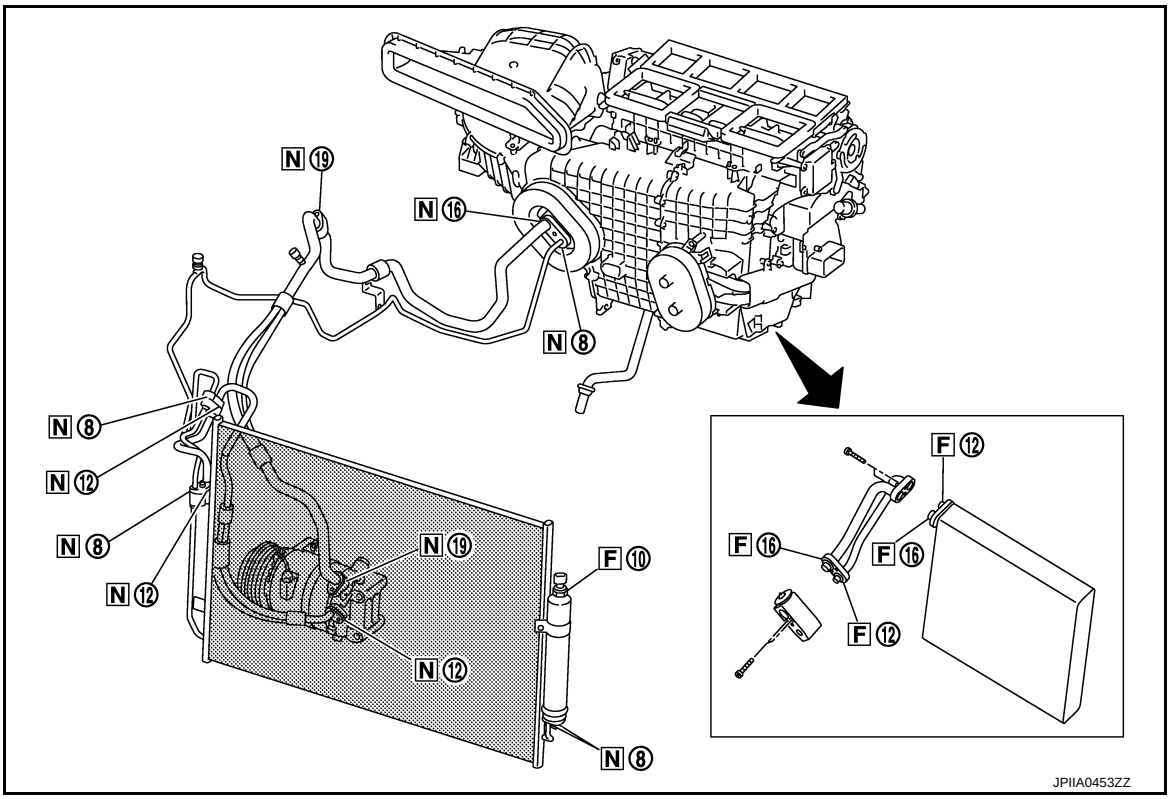
- **Never intentionally drop, puncture, or incinerate refrigerant containers.**
- **Keep refrigerant away from open flames. Poisonous gas is produced if refrigerant burns.**
- **Refrigerant displaces oxygen, therefore be certain to work in well ventilated areas to prevent suffocation.**
- **Never pressure test or leakage test HFC-134a (R-134a) service equipment and/or vehicle air conditioning systems with compressed air during repair. Some mixtures of air and HFC-134a (R-134a) have proven to be combustible at elevated pressures. These mixtures, if ignited, may cause injury or property damage. Additional health and safety information may be obtained from refrigerant manufacturers.**

Refrigerant Connection

INFOID:0000000005517097

A new type refrigerant connection has been introduced to all refrigerant lines except the following locations.
- Expansion valve to evaporator
- Refrigerant pressure sensor to liquid tank

O-RING AND REFRIGERANT CONNECTION



F. Former type refrigerant connection N. New type refrigerant connection

O: O-ring size

CAUTION:

The new and former refrigerant connections use different O-ring configurations. Never confuse O-rings since they are not interchangeable. Refrigerant may leak at the connection if an incorrect O-ring is installed.

O-Ring Part Numbers and Specifications

Connection type	Piping connection point		Part number	QTY	O-ring size
New	Low-pressure flexible hose to low-pressure pipe		92474 N8210	1	ϕ19
	High-pressure pipe to condenser pipe assembly (Outlet)		92471 N8210	1	ϕ8
	Condenser pipe assembly (Inlet) to high-pressure flexible hose (One-touch joint)		92472 N8210	1	ϕ12
	Condenser assembly to condenser pipe assembly	Inlet	92472 N8210	1	ϕ12
		Outlet	92471 N8210	1	ϕ8
	Low-pressure pipe to expansion valve		92473 N8210	1	ϕ16
	High-pressure pipe to expansion valve		92471 N8210	1	ϕ8
	Compressor to low-pressure flexible hose		92474 N8210	1	ϕ19
	Compressor to high-pressure flexible hose		92472 N8210	1	ϕ12
	Liquid tank to condenser assembly	Inlet	92471 N8210	1	ϕ8
		Outlet		1	
Former	Refrigerant pressure sensor to liquid tank		J2476 89956	1	ϕ10
	Expansion valve to evaporator pipe assembly	Inlet	92475 71L00	1	ϕ12
		Outlet	92475 72L00	1	ϕ16
	Evaporator to evaporator pipe assembly	Inlet	92475 71L00	1	ϕ12
		Outlet	92475 72L00	1	ϕ16

WARNING:

Check that all refrigerant is discharged into the recycling equipment and the pressure in the system is less than the atmospheric pressure. Then gradually loosen the discharge side hose fitting and remove it.

CAUTION:

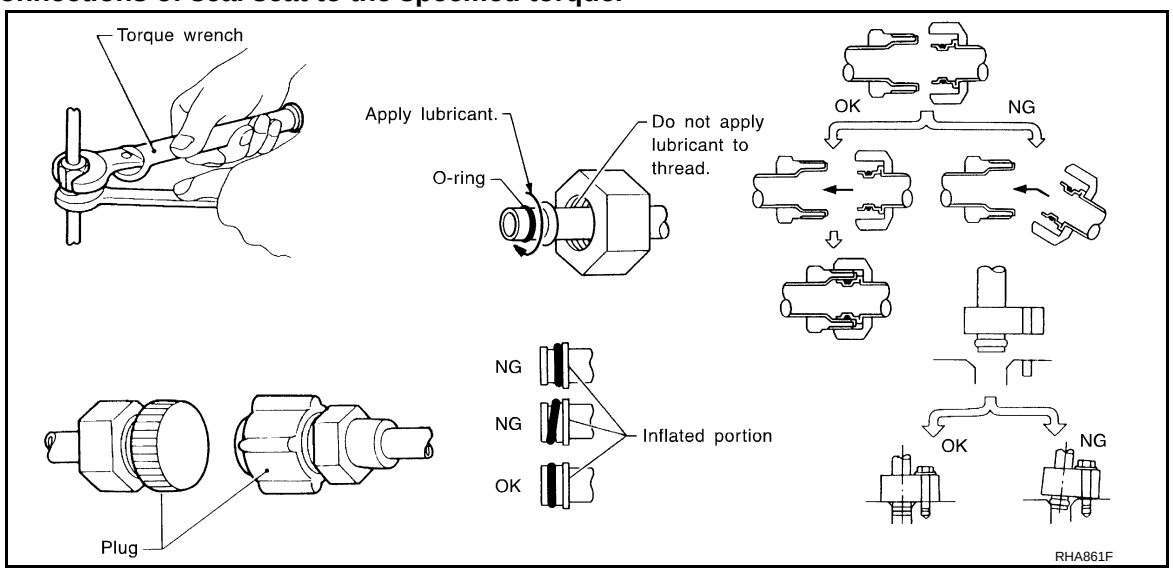
Observe the following items when replacing or cleaning refrigerant cycle components.

- **Store it in the same way as it is when mounted on the car when the compressor is removed. Failure to do so will cause lubricant to enter the low-pressure chamber.**
- **Always use a torque wrench and a back-up wrench when connecting tubes.**
- **Immediately plug all openings to prevent entry of dust and moisture after disconnecting tubes.**
- **Connect the pipes at the final stage of the operation when installing an air conditioner in the vehicle. Never remove the seal caps of pipes and other components until just before they are required for connection.**
- **Allow components stored in cool areas to warm to working area temperature before removing seal caps. This prevents condensation from forming inside A/C components.**
- **Thoroughly remove moisture from the refrigeration system before charging the refrigerant.**
- **Always replace used O-rings.**
- **Apply lubricant to the circle of the O-rings shown in illustration when a connecting tube. Never apply lubricant to threaded portion.**

Name : NISSAN A/C System Oil Type S

- **O-ring must be closely attached to the groove portion of tube.**
- **Never damage O-ring and tube when replacing the O-ring.**
- **Connect tube until a click can be heard. Then tighten the nut or bolt by hand. Check that the O-ring is installed to the tube correctly.**

- **Perform leakage test and check that there is no leakage from connections after connecting the line. Disconnect the line and replace the O-ring when the refrigerant leakage point is found. Then tighten the connections of seal seat to the specified torque.**



Service Equipment

INFOID:0000000005517098

RECOVERY/RECYCLING EQUIPMENT

Be certain to follow the manufacturer instructions for machine operation and machine maintenance. Never introduce any refrigerant other than that specified into the machine.

ELECTRICAL LEAK DETECTOR

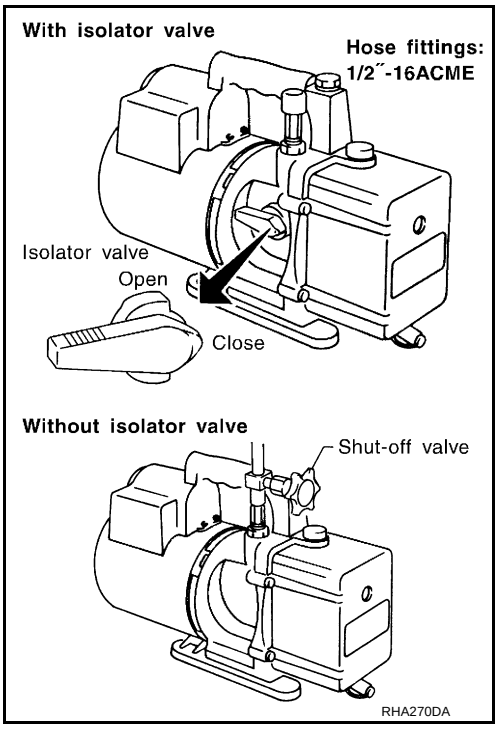
Be certain to follow the manufacturer instructions for tester operation and tester maintenance.

VACUUM PUMP

The lubricant contained inside the vacuum pump is not compatible with the specified lubricant for HFC-134a (R-134a) A/C systems. The vent side of the vacuum pump is exposed to atmospheric pressure. So the vacuum pump lubricant may migrate out of the pump into the service hose. This is possible when the pump is switched OFF after evacuation (vacuuming) and the hose is connected to it.
To prevent this migration, use a manual valve placed near the hose-to-pump connection, as per the following procedure.

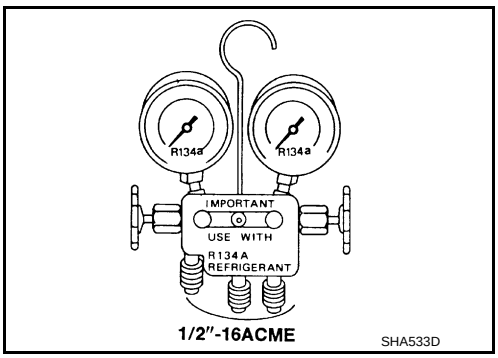
- Vacuum pumps usually have a manual isolator valve as part of the pump. Close this valve to isolate the service hose from the pump.
- Use a hose equipped with a manual shut-off valve near the pump end for pumps without an isolator. Close the valve to isolate the hose from the pump.
- Disconnect the hose from the pump if the hose has an automatic shut-off valve. As long as the hose is connected, the valve is open and lubricating oil may migrate.

Some one-way valves open when vacuum is applied and close under the no vacuum condition. Such valves may restrict the ability of the pump to create a deep vacuum and are not recommended.



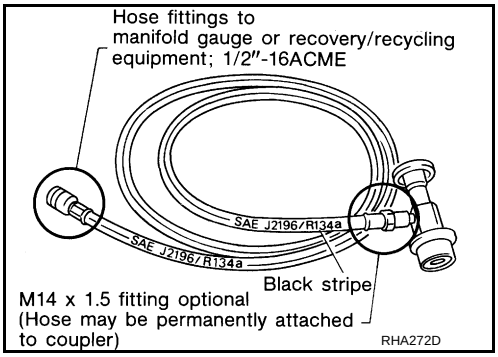
MANIFOLD GAUGE SET

Be certain that the gauge face indicates HFC-134a or R-134a. Be sure the gauge set has 1/2″-16 ACME threaded connections for service hoses. Confirm the set has been used only with refrigerant HFC-134a (R-134a) and specified lubricants.



SERVICE HOSES

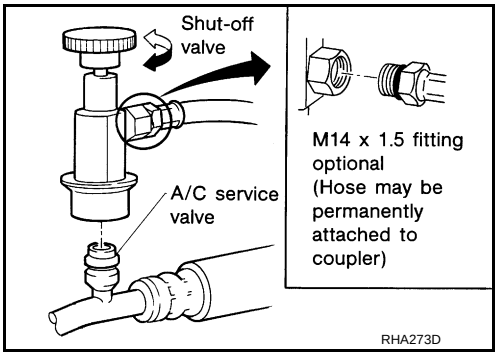
Be certain that the service hoses display the markings described (colored hose with a black stripe). All hoses must equip positive shut-off devices (either manual or automatic) near the end of the hoses opposite to the manifold gauge.



SERVICE COUPLERS

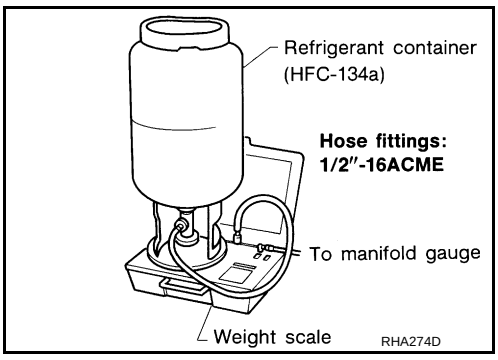
Never attempt to connect HFC-134a (R-134a) service couplers to a CFC-12 (R-12) A/C system. The HFC-134a (R-134a) couplers do not properly connect to the CFC-12 (R-12) system. However, if an improper connection is attempted, discharging and contamination may occur.

Shut-off valve rotation	A/C service valve
Clockwise	Open
Counterclockwise	Close



REFRIGERANT WEIGHT SCALE

Verify that no refrigerant other than HFC-134a (R-134a) and specified lubricants have been used with the scale. The hose fitting must be 1/2″-16 ACME if the scale controls refrigerant flow electronically.



CHARGING CYLINDER

Use of a charging cylinder is not recommended. Refrigerant may be vented into the air from the top valve of the cylinder when filling the cylinder with refrigerant. Also, the accuracy of the cylinder is generally less than that of an electronic scale or of quality recycle/recharge equipment.

COMPRESSOR

General Precautions

INFOID:0000000005517099

CAUTION:

- **Plug all openings to prevent moisture and foreign material from entering.**
- **Store it in the same way as it is when mounted on the car when the compressor is removed.**
- **Follow “Maintenance of Lubricant Quantity in Compressor” exactly when replacing or repairing compressor. Refer to HA-25, "Maintenance of Lubricant Quantity".**
- **Keep friction surfaces between clutch and pulley clean. Wipe it off by using a waste moistened with thinner if the surface is contaminated with lubricant.**
- **Turn the compressor shaft by hand more than five turns in both directions after compressor service operation. This equally distributes lubricant inside the compressor. Let the engine idle and operate the compressor for one hour after the compressor is installed.**
- **Apply voltage to the new compressor and check for normal operation after replacing the compressor magnet clutch.**

FLUORESCENT LEAK DETECTOR

General Precautions

INFOID:0000000005517100

CAUTION:

- **The A/C system contains a fluorescent leak detection dye used for locating refrigerant leakages. An ultraviolet (UV) lamp is required to illuminate the dye when inspecting for leakages.**
- **Always wear fluorescence enhancing UV safety goggles to protect eyes and enhance the visibility of the fluorescent dye.**
- **The fluorescent dye leak detector is not a replacement for an electrical leak detector (SST: J-41995). The fluorescent dye leak detector should be used in conjunction with an electrical leak detector (SST: J-41995) to pin-point refrigerant leakages.**
- **Read and follow all manufacturer operating instructions and precautions prior to performing work for safety and customer satisfaction.**
- **A compressor shaft seal should not necessarily be repaired because of dye seepage. The compressor shaft seal should only be repaired after confirming the leakage with an electrical leak detector (SST: J-41995).**
- **Always remove any remaining dye from the leakage area after repairs are completed to avoid a misdiagnosis during future service.**
- **Never allow dye to come into contact with painted body panels or interior components. Immediately clean with the approved dye cleaner if dye is spilled. Fluorescent dye left on a surface for an extended period of time cannot be removed.**
- **Never spray fluorescent dye cleaning agent on hot surfaces (engine exhaust manifold, etc.).**
- **Never use more than one refrigerant dye bottle [1/4 ounce (7.4 cc)] per A/C system.**
- **Leak detection dyes for HFC-134a (R-134a) and CFC-12 (R-12) A/C systems are different. Never use HFC-134a (R-134a) leak detection dye in CFC-12 (R-12) A/C system or CFC-12 (R-12) leak detection dye in HFC-134a (R-134a) A/C system, otherwise A/C system damage may result.**
- **The fluorescent properties of the dye remains for three or more years unless a compressor malfunction occurs.**

IDENTIFICATION

NOTE:

Vehicles with factory installed fluorescent dye have a green label.
Vehicles without factory installed fluorescent dye have a blue label.

IDENTIFICATION LABEL FOR VEHICLE

Vehicles with factory installed fluorescent dye have an identification label on the front side of hood.

PREPARATION

PREPARATION

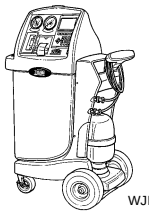
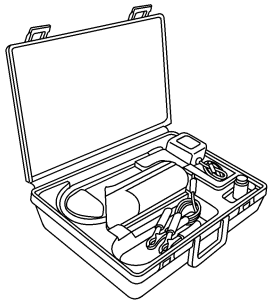
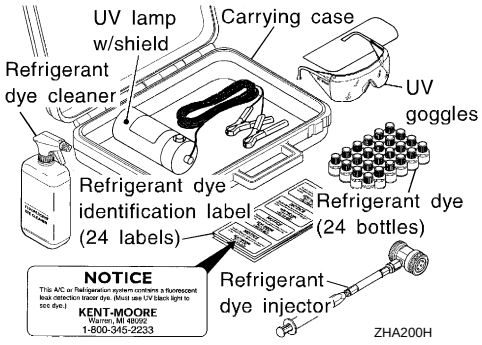
Special Service Tool

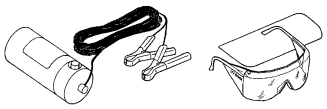
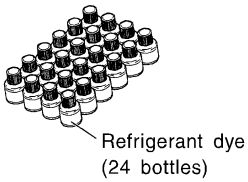
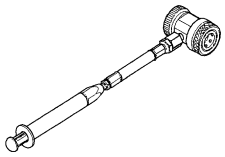
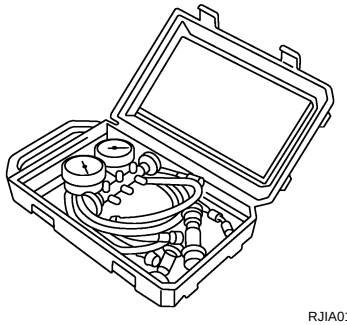
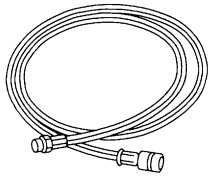
INFOID:0000000005517101

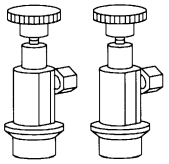
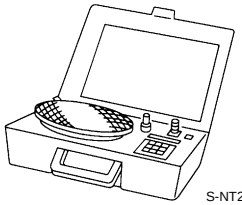
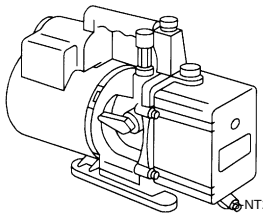
The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

HFC-134a (R-134a) Service Tool and Equipment

- Never mix HFC-134a (R-134a) refrigerant and/or its specified lubricant with CFC-12 (R-12) refrigerant and/or its lubricant.
- Separate and non-interchangeable service equipment must be used for handling each type of refrigerant/lubricant.
- Refrigerant container fittings, service hose fittings and service equipment fittings (equipment that handles refrigerant and/or lubricant) are different between CFC-12 (R-12) and HFC-134a (R-134a). This is to avoid mixed use of the refrigerants/lubricant.
- Never use adapters that convert one size fitting to another. Refrigerant/lubricant contamination occurs and compressor malfunction may result.

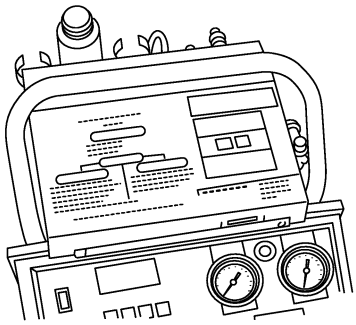
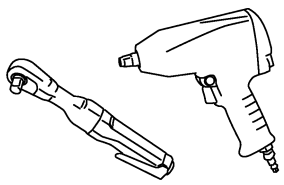
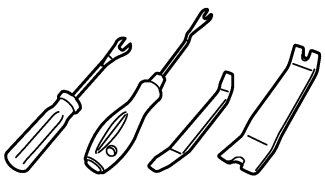
Tool number (Kent-Moore No.) Tool name		Description
(ACR2005-NI) ACR5 A/C Service Center	 WJIA0293E	Function: Refrigerant recovery, recycling and recharging
(J-41995) Electrical leak detector	 AHA281A	Power supply: DC 12 V (Battery terminal)
(J-43926) Refrigerant dye leak detection kit Kit includes: (J-42220) UV lamp and UV safety goggles (J-41459) HFC-134a (R-134a) dye injector Use with J-41447, 1/4 ounce bottle (J-41447) HFC-134a (R-134a) fluorescent leak detection dye (Box of 24, 1/4 ounce bottles) (J-43872) Refrigerant dye cleaner	 ZHA200H	Power supply: DC 12 V (Battery terminal)

Tool number (Kent-Moore No.) Tool name		Description
(J-42220) UV lamp and UV safety goggles	 SHA438F	Power supply: DC 12 V (Battery terminal) For checking refrigerant leakage when fluorescent dye is equipped in A/C system Includes: UV lamp and UV safety goggles
(J-41447) HFC-134a (R-134a) fluorescent leak detection dye (Box of 24, 1/4 ounce bottles)	 Refrigerant dye (24 bottles) SHA439F	Application: For HFC-134a (R-134a) PAG oil Container: 1/4 ounce (7.4 cc) bottle (Includes self-adhesive dye identification labels for affixing to vehicle after charging system with dye.)
(J-41459) HFC-134a (R-134a) dye injector Use with J-41447, 1/4 ounce bottle	 SHA440F	For injecting 1/4 ounce of fluorescent leak detection dye into A/C system
(J-43872) Refrigerant dye cleaner	 SHA441F	For cleaning dye spills
(J-39183) Manifold gauge set (with hoses and couplers)	 RJIA0196E	Identification: • The gauge face indicates HFC-134a (R-134a). Fitting size: Thread size • 1/2″-16 ACME
Service hoses • High-pressure side hose (J-39501-72) • Low-pressure side hose (J-39502-72) • Utility hose (J-39476-72)	 S-NT201	Hose color: • Low-pressure side hose: Blue with black stripe • High-pressure side hose: Red with black stripe • Utility hose: Yellow with black stripe or green with black stripe Hose fitting to gauge: • 1/2″-16 ACME

Tool number (Kent-Moore No.) Tool name		Description
Service couplers • High-pressure side coupler (J-39500-20) • Low-pressure side coupler (J-39500-24)	 S-NT202	Hose fitting to service hose: M14 x 1.5 fitting is optional or permanently attached.
(J-39650) Refrigerant weight scale	 S-NT200	For measuring of refrigerant Fitting size: Thread size 1/2″-16 ACME
(J-39649) Vacuum pump (Including the isolator valve)	 S-NT203	Capacity: • Air displacement: 4 CFM • Micron rating: 20 microns • Oil capacity: 482 g (17 oz.) Fitting size: Thread size • 1/2″-16 ACME

Commercial Service Tool

INFOID:0000000005517102

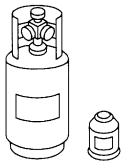
Tool name		Description
Refrigerant identifier equipment	 RJIA0197E	Checking for refrigerant purity and system contamination
Power tools	 PBIC0190E	For loosening bolts and nuts
Remover tools	 JMKIA3050ZZ	Remove clips, pawls, and metal clips

Sealant or/and Lubricant

INFOID:0000000005517103

HFC-134a (R-134a) Service Tool and Equipment

- Never mix HFC-134a (R-134a) refrigerant and/or its specified lubricant with CFC-12 (R-12) refrigerant and/or its lubricant.
- Separate and non-interchangeable service equipment must be used for handling each type of refrigerant/lubricant.
- Refrigerant container fittings, service hose fittings and service equipment fittings (equipment that handles refrigerant and/or lubricant) are different between CFC-12 (R-12) and HFC-134a (R-134a). This is to avoid mixed use of the refrigerants/lubricant.
- Never use adapters that convert one size fitting to another. Refrigerant/lubricant contamination occurs and compressor malfunction may result.

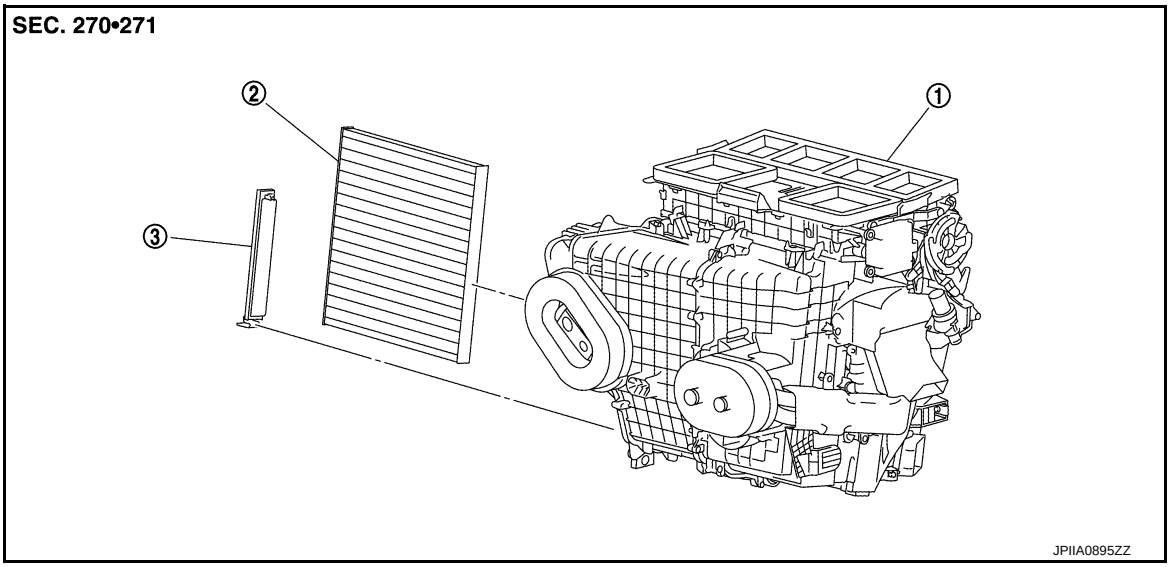
Tool name	Description
HFC-134a (R-134a) refrigerant  S-NT196	Container color: Light blue Container marking: HFC-134a (R-134a) Fitting size: Thread size • Large container 1/2″-16 ACME
NISSAN A/C System Oil Type S (DH-PS)  S-NT197	Type: Polyalkylene glycol oil (PAG), type S (DH-PS) Application: HFC-134a (R-134a) swash plate compressors (NISSAN only) Capacity: 40 m ℓ (1.4 US fl oz., 1.4 Imp fl oz.)

PERIODIC MAINTENANCE

IN-CABIN MICROFILTER

Exploded View

INFOID:0000000005517104



1. Heater & cooling unit assembly
2. In-cabin microfilter/Air conditioner filter*
3. Filter cover

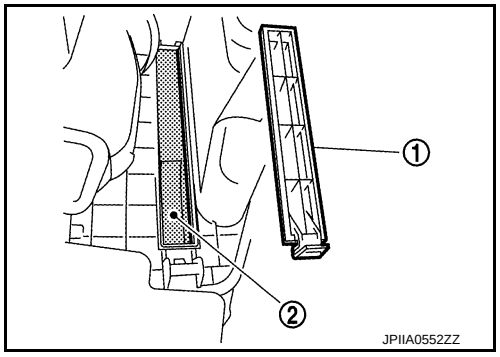
* : Models for Mexico.

Removal and Installation

INFOID:0000000005517105

REMOVAL

1. Remove the filter cover (1), and then remove the in-cabin microfilter/air conditioner filter (2).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **If the filter is deformed/damaged when removing, replace it with a new one. Deformed/damaged filtermay deteriorate the dust collecting performance.**
- **When installing, handle the filter with extreme care to avoid deforming/damaging.**

Replacement

INFOID:0000000005517106

Replace in-cabin microfilter/air conditioner filter.
For NORTH AMERICA : Refer to MA-8, "FOR NORTH AMERICA : Schedule 1" and MA-10, "FOR NORTH AMERICA : Schedule 2".
For MEXICO : Refer to MA-11, "FOR MEXICO : Periodic Maintenance".
Affix a caution label inside the glove box when replacing filter.

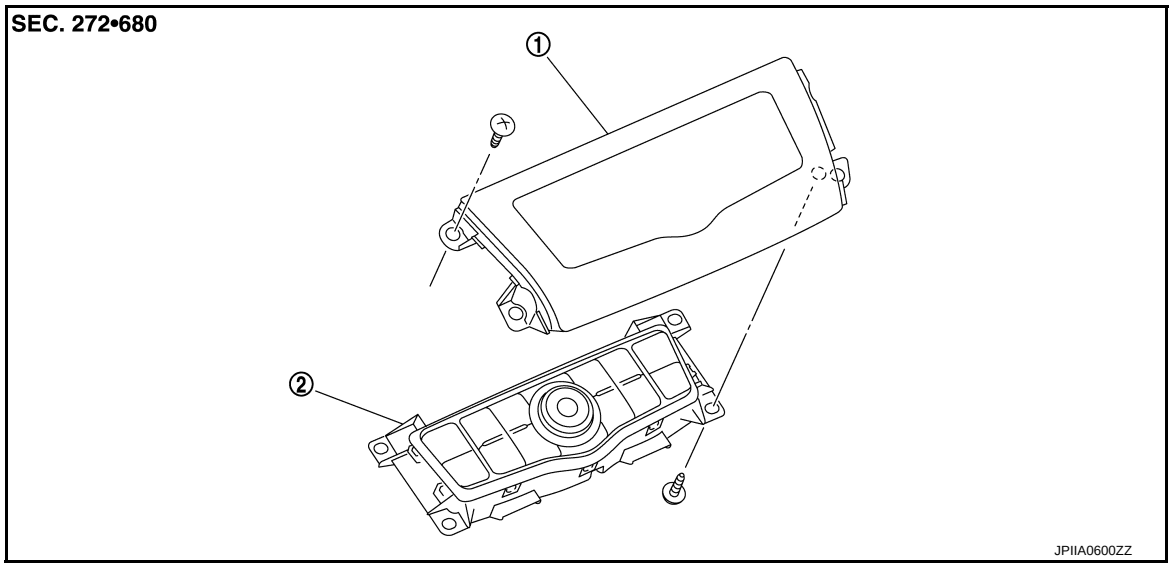
REMOVAL AND INSTALLATION

A/C CONTROL

Exploded View

INFOID:0000000005517107

DISASSEMBLY



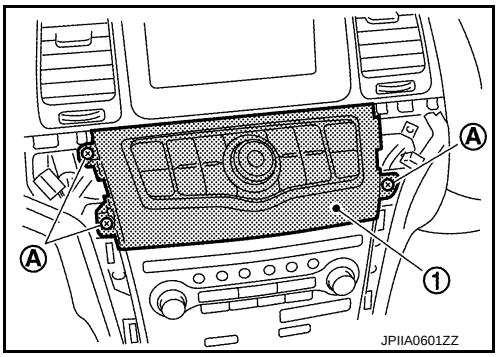
1. Cluster lid D
2. A/C control

Removal and Installation

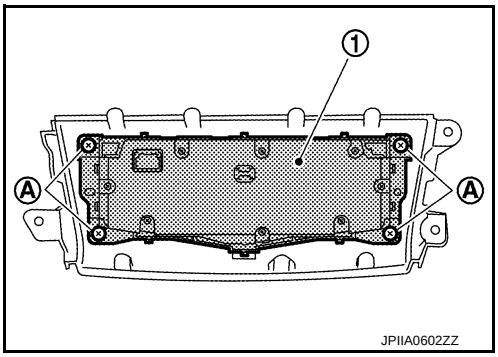
INFOID:0000000005517108

REMOVAL

1. Remove the instrument stay cover LH. Refer to IP-12, "Exploded View".
2. Remove the instrument stay cover RH. Refer to IP-12, "Exploded View".
3. Remove the mounting screws (A), and then remove the cluster lid D (1).



4. Remove the mounting screws (A), and then remove the A/C control (1).



INSTALLATION

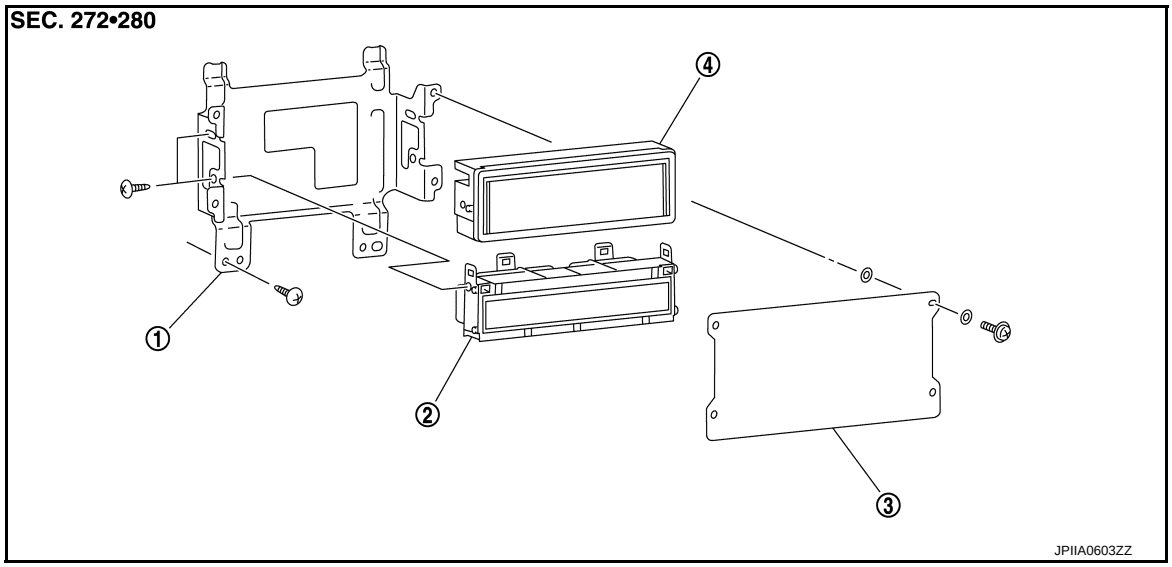
Install in the reverse order of removal.

A/C DISPLAY

Exploded View

INFOID:0000000005517109

DISASSEMBLY



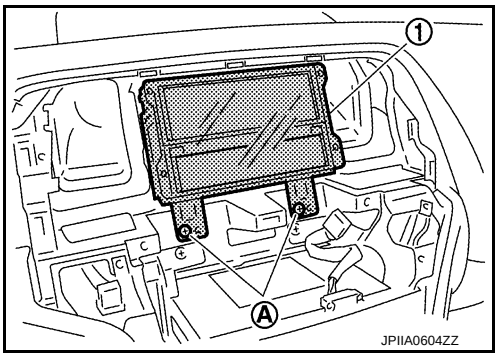
1. Bracket
2. A/C display
3. CRT filter
4. AV display

Removal and Installation

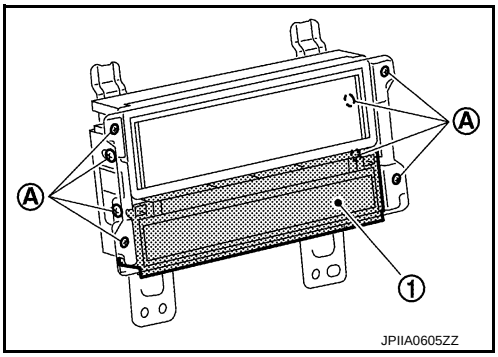
INFOID:0000000005517110

REMOVAL

1. Remove the central ventilator assembly. Refer to IP-12, "Exploded View".
2. Remove the mounting screws (A), and then remove the mounting bracket (1).



3. Remove the mounting screws (A), and then remove the A/C display (1).



INSTALLATION

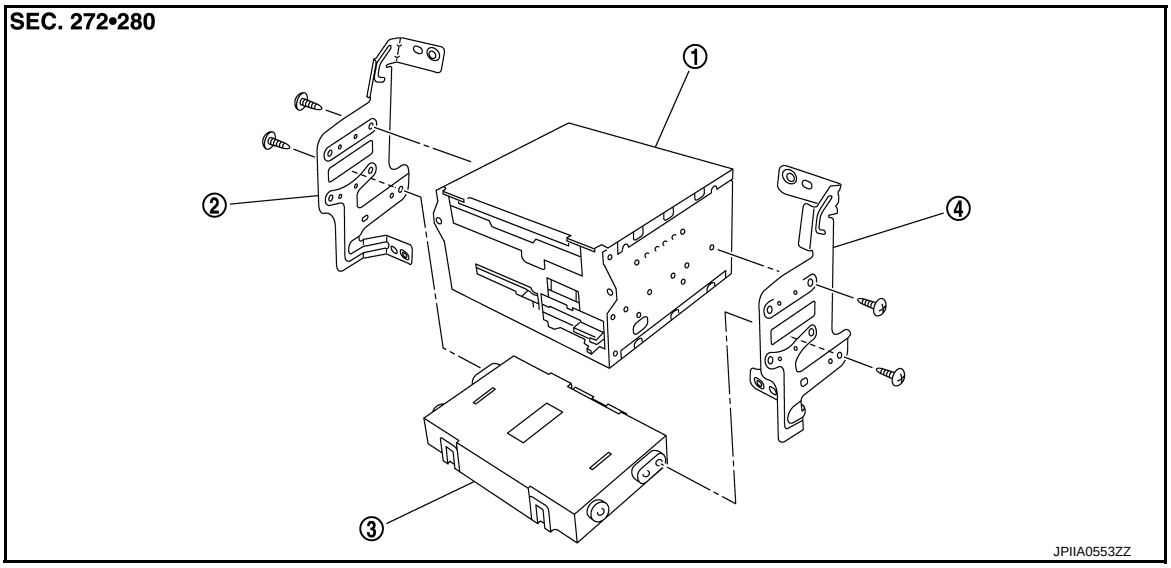
Install in the reverse order of removal.

A/C AUTO AMP.

Exploded View

INFOID:0000000005517111

DISASSEMBLY



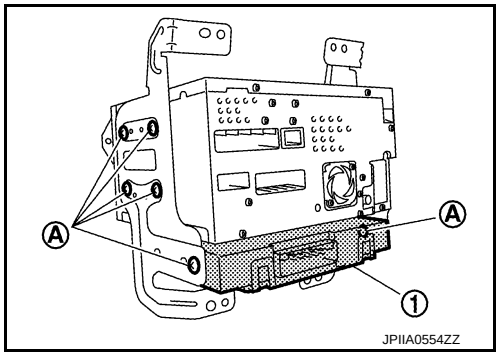
1. AV control unit
2. Bracket (LH)
3. A/C auto amp.
4. Bracket (RH)

Removal and Installation

INFOID:0000000005517112

REMOVAL

1. Remove the AV control unit. Refer to AV-534, "Exploded View".
2. Remove the mounting screws (A), and then remove the A/C auto amp. (1).



INSTALLATION

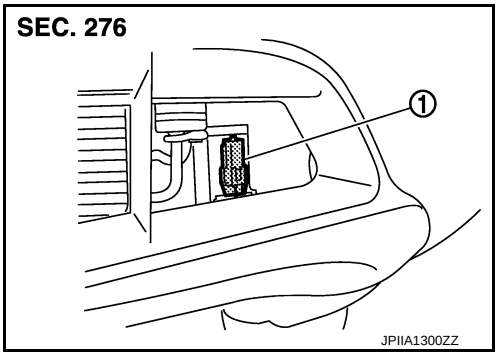
Install in the reverse order of removal.

AMBIENT SENSOR

Exploded View

INFOID:0000000005517113

1. Ambient sensor

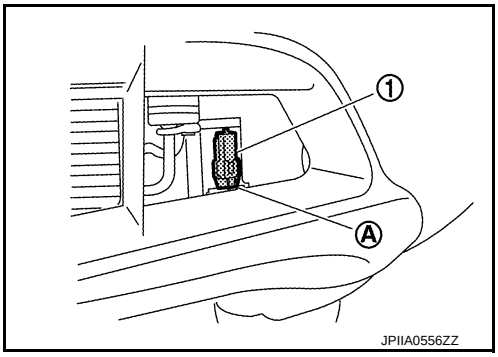


Removal and Installation

INFOID:0000000005517114

REMOVAL

1. Disconnect the ambient sensor connector (A), and then remove the ambient sensor (1).



INSTALLATION

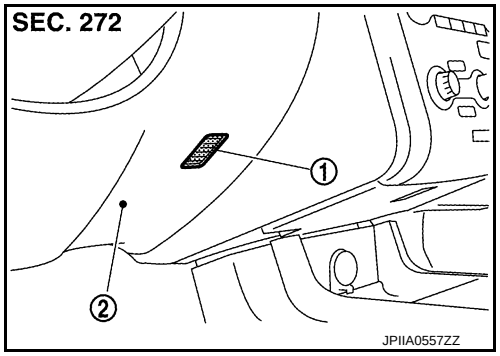
Install in the reverse order of removal.

IN-VEHICLE SENSOR

Exploded View

INFOID:0000000005517115

1. In-vehicle sensor
2. Instrument lower panel LH

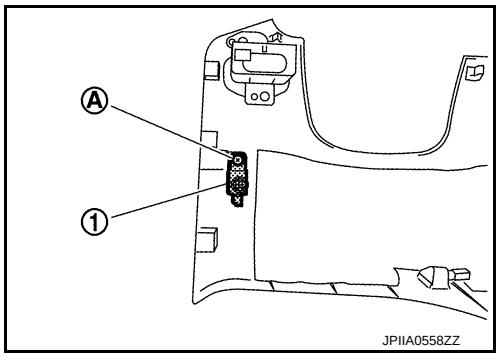


Removal and Installation

INFOID:0000000005517116

REMOVAL

1. Remove the instrument lower panel LH. Refer to IP-12, "Exploded View".
2. Remove the mounting screw (A), and then remove the in-vehicle sensor (1).



INSTALLATION

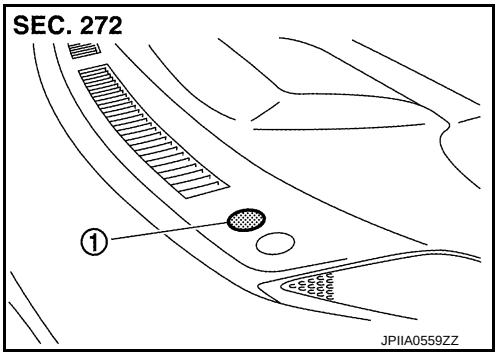
Install in the reverse order of removal.

SUNLOAD SENSOR

Exploded View

INFOID:0000000005517117

1. Sunload sensor

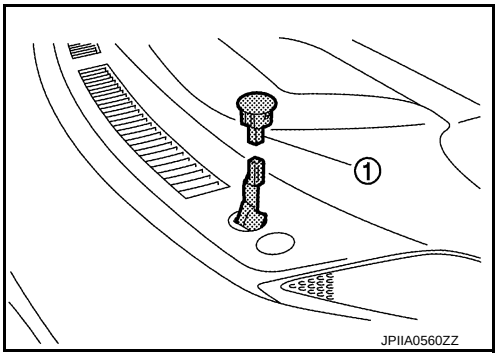


Removal and Installation

INFOID:0000000005517118

REMOVAL

1. Disconnect the sunload sensor connector, and then remove the sunload sensor (1).



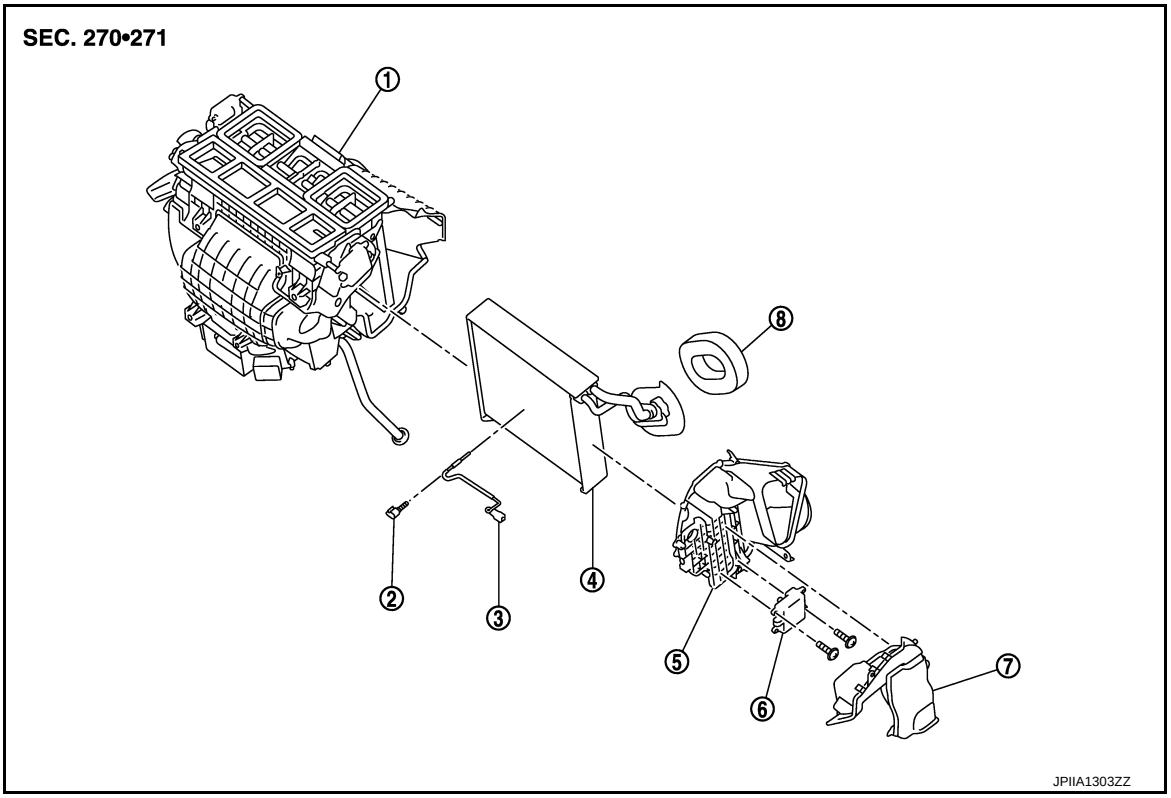
INSTALLATION

Install in the reverse order of removal.

INTAKE SENSOR

Exploded View

INFOID:0000000005517119



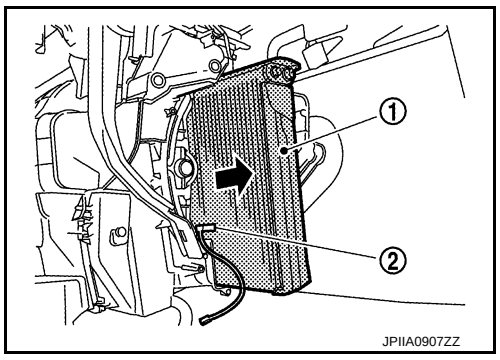
1. Heater & cooling unit assembly
2. Intake sensor bracket
3. Intake sensor
4. Evaporator assembly
5. Evaporator cover
6. Air mix door motor (passenger side)
7. Foot duct (right)
8. Cooler pipe grommet

Removal and Installation

INFOID:0000000005517120

REMOVAL

1. Remove the evaporator pipe assembly. Refer to VTL-36, "Exploded View".
2. Slide the evaporator (1) toward the right side of the vehicle, and then remove the intake sensor (2).



INSTALLATION

Note the following, and install in the reverse order of removal.

CAUTION:

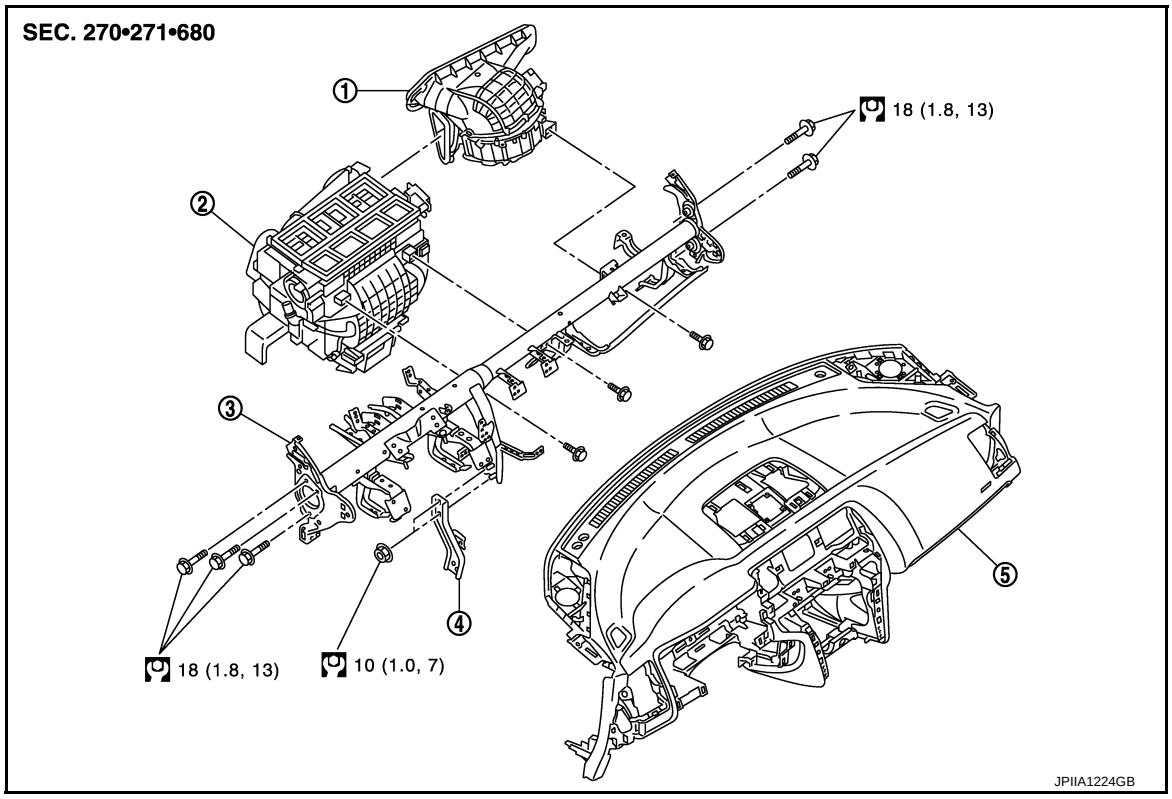
- **Replace the O-ring with a new one. Apply a coat of compressor oil to the O-ring prior to installation.**
- **Install the intake sensor in the same position as the removed intake sensor when replacing the intake sensor.**
- **Do not rotate the bracket insertion part when removing and installing the intake sensor.**
- **Check for refrigerant leakage when charging refrigerant.**

BLOWER UNIT

Exploded View

INFOID:0000000005517121

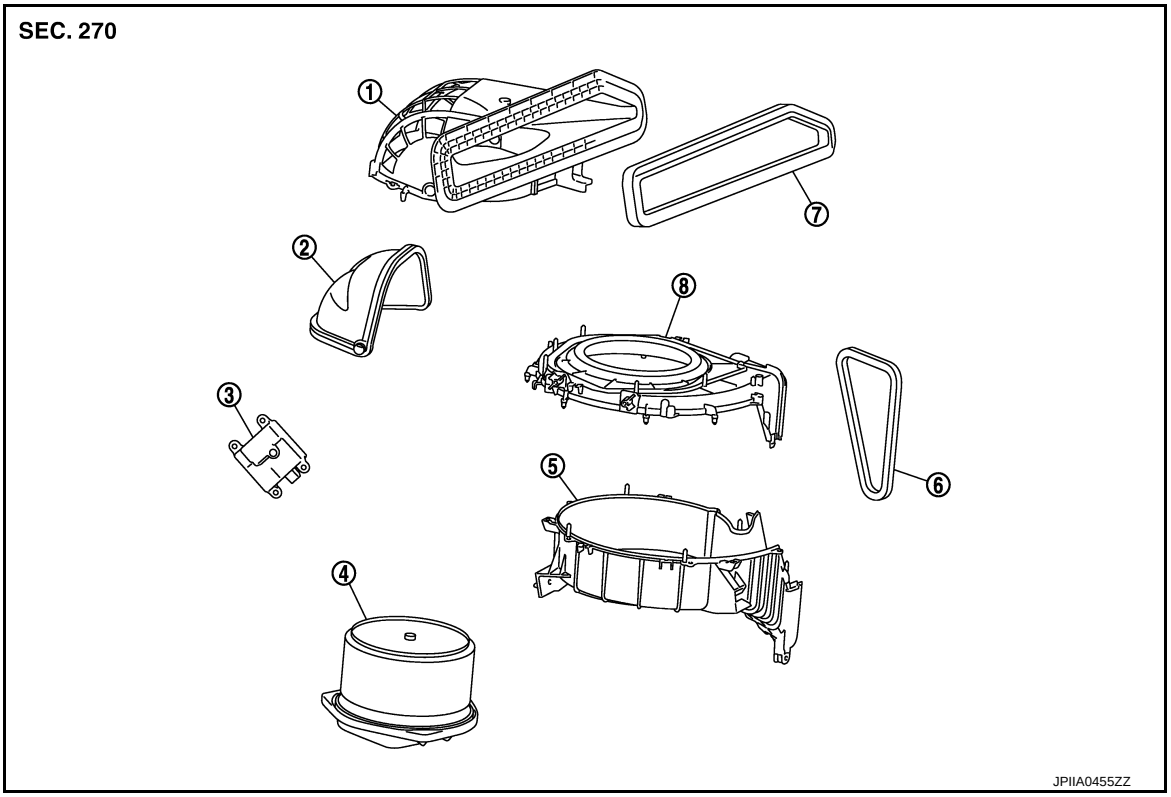
REMOVAL



1. Blower unit assembly
2. Heater & cooling unit assembly
3. Steering member
4. Instrument stay
5. Instrument panel assembly

Refer to GI-4, "Components" for symbols in the figure.

DISASSEMBLY



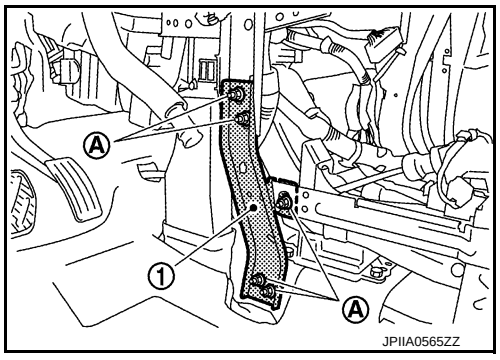
1. Shutter box case
2. Intake door
3. Intake door motor
4. Blower motor assembly
5. Intake lower case
6. Outlet seal
7. Intake seal
8. Intake upper case

Removal and Installation

INFOID:0000000005517122

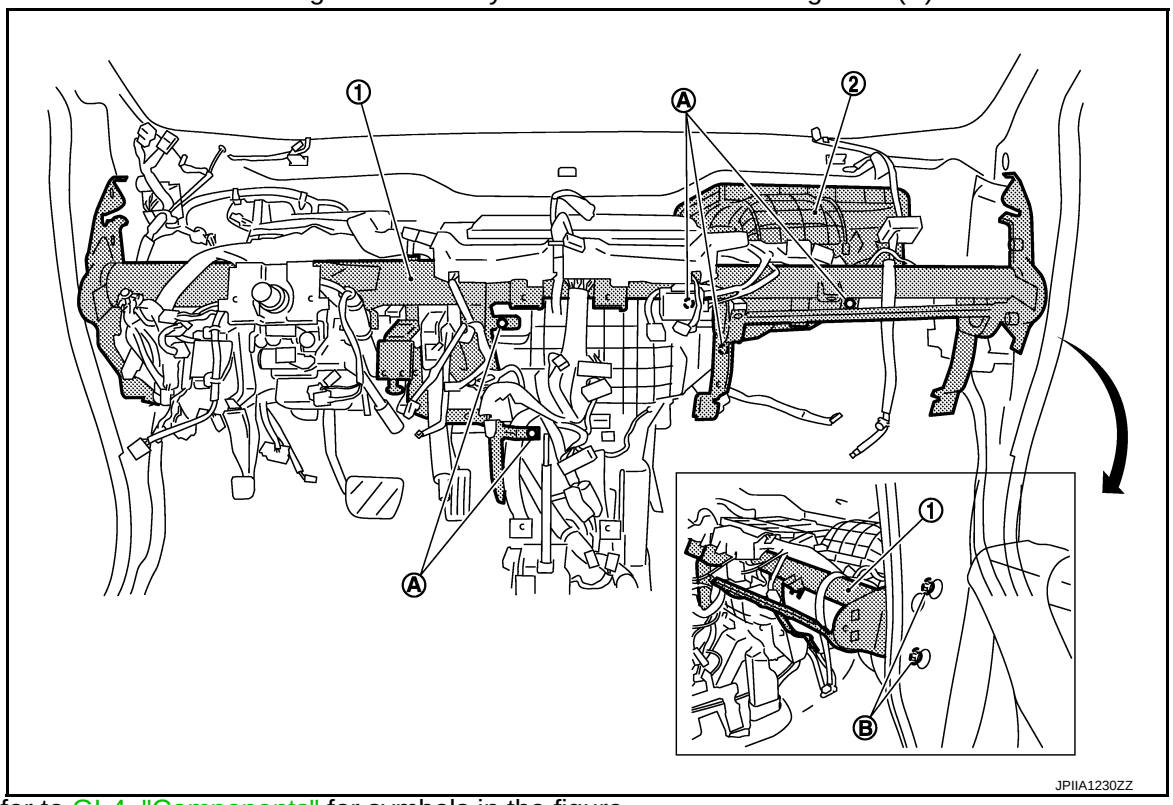
REMOVAL

1. Remove the instrument panel assembly. Refer to IP-12, "Exploded View".
2. Remove the mounting nuts (A), and then remove the instrument panel stay (1).



3. Disconnect the intake door motor and blower motor connectors.

4. Remove the heater & cooling unit assembly and blower unit mounting bolts (A).



Refer to GI-4, "Components" for symbols in the figure.

5. Remove the steering member mounting bolts (B) (right).
6. And remove the blower unit (2) while pulling the steering member (1) to the front.

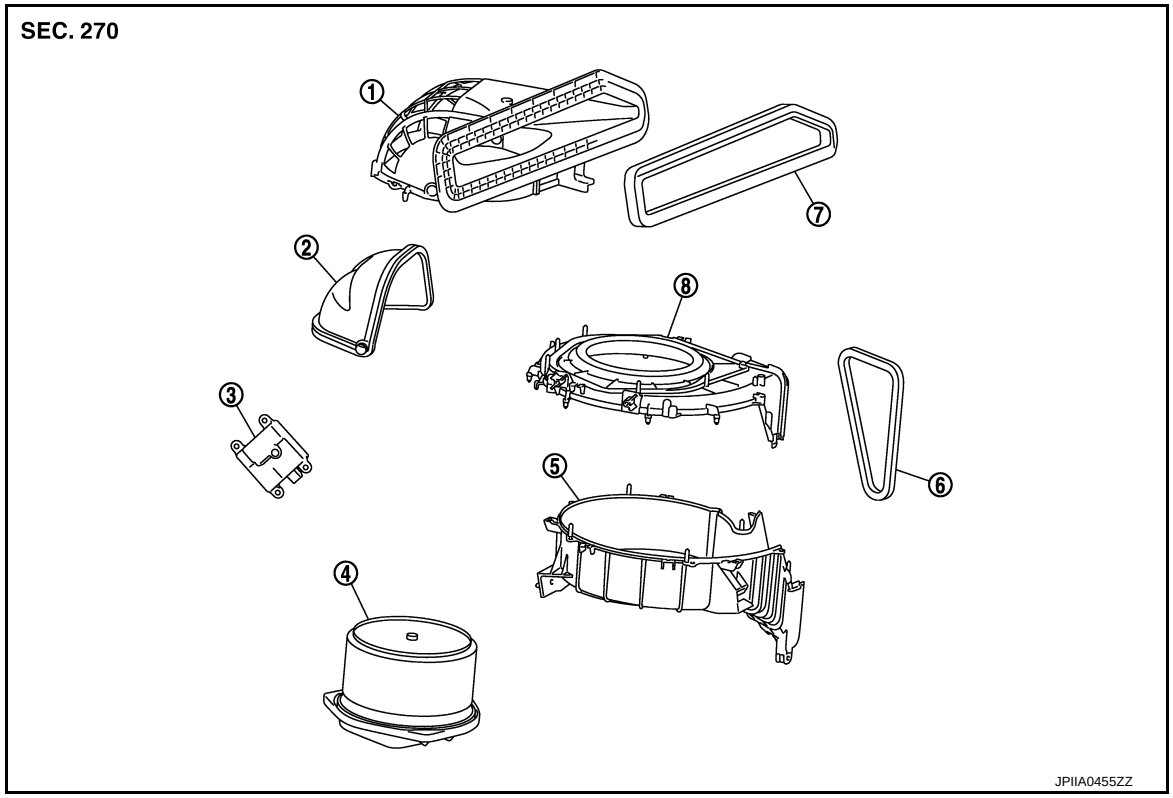
INSTALLATION

Install in the reverse order of removal.

BLOWER MOTOR

Exploded View

INFOID:0000000005517123



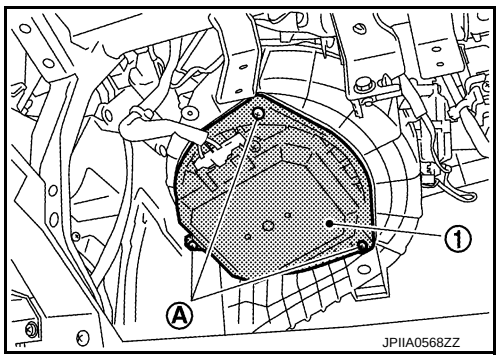
1. Shutter box case
2. Intake door
3. Intake door motor
4. Blower motor assembly
5. Intake lower case
6. Outlet seal
7. Intake seal
8. Intake upper case

Removal and Installation

INFOID:0000000005517124

REMOVAL

1. Remove instrument lower panel RH. Refer to IP-12, "Exploded View".
2. Disconnect the blower motor connector.
3. Remove the mounting screws (A), and then remove the blower motor (1).



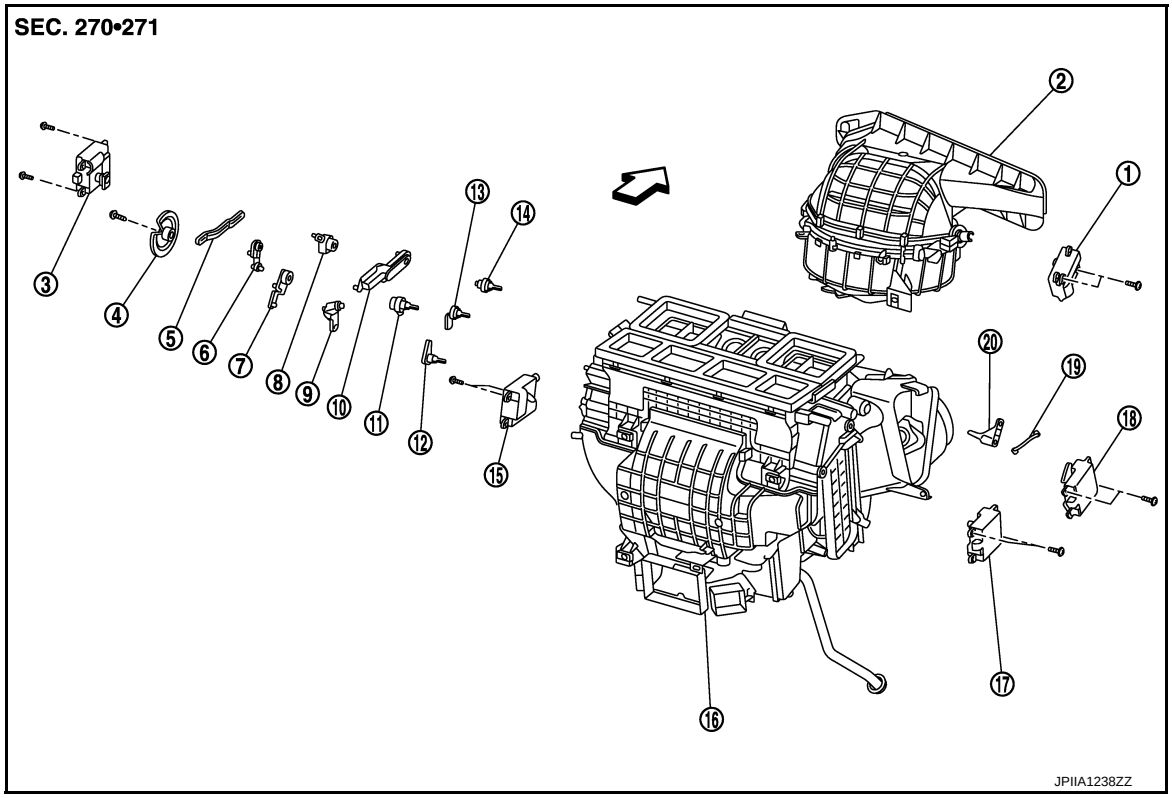
INSTALLATION

Install in the reverse order of removal.

INTAKE DOOR MOTOR

Exploded View

INFOID:0000000005517125



1. Intake door motor
2. Bower unit assembly
3. Mode door motor
4. Main link
5. Rod link
6. Max. cool door link
7. Max. cool door link
8. Mode door lever
9. Ventilator door link
10. Defroster door link
11. Ventilator door lever
12. Foot door lever
13. Max. cool door lever
14. Defroster door lever
15. Air mix door motor (driver side)
16. Heater & cooling unit assembly
17. Air mix door motor (passenger side)
18. Upper ventilator door motor
19. Upper ventilator door rod
20. Upper ventilator door lever

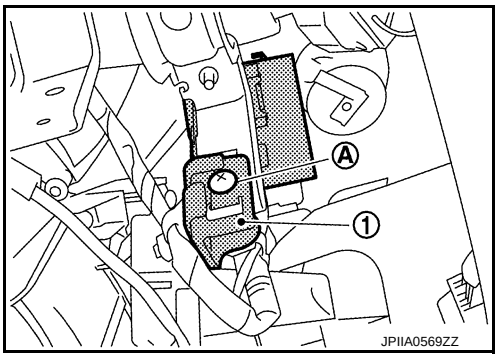
⇦ : Vehicle front

Removal and Installation

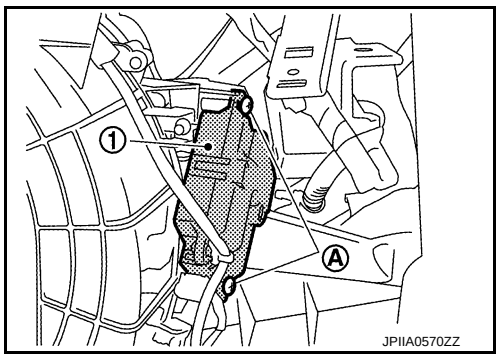
INFOID:0000000005517126

REMOVAL

1. Remove instrument lower panel RH. Refer to IP-12, "Exploded View".
2. Remove the mounting screw (A), and then move the key less controller assembly bracket (1) to a position where it does not inhibit work.



3. Remove the mounting screws (A), and then remove the intake door motor (1).
4. Disconnect the intake door motor connector.



INSTALLATION

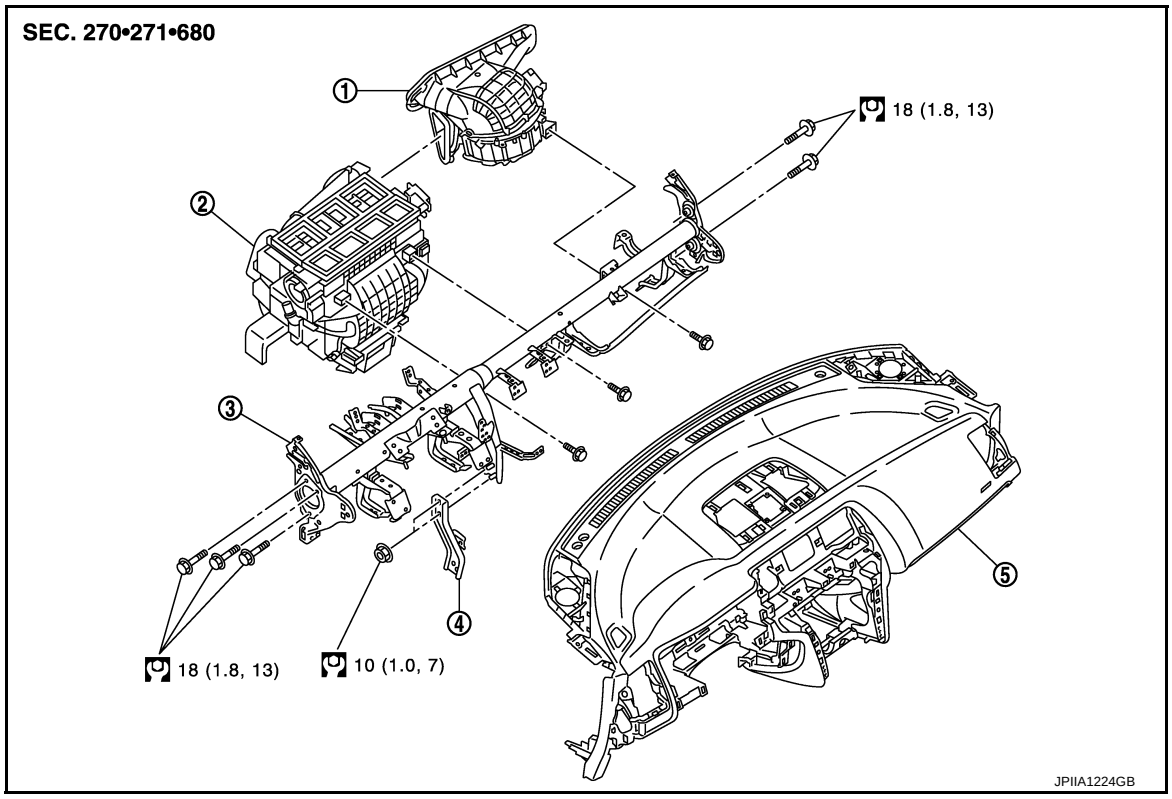
Install in the reverse order of removal.

HEATER & COOLING UNIT ASSEMBLY

Exploded View

INFOID:0000000005517127

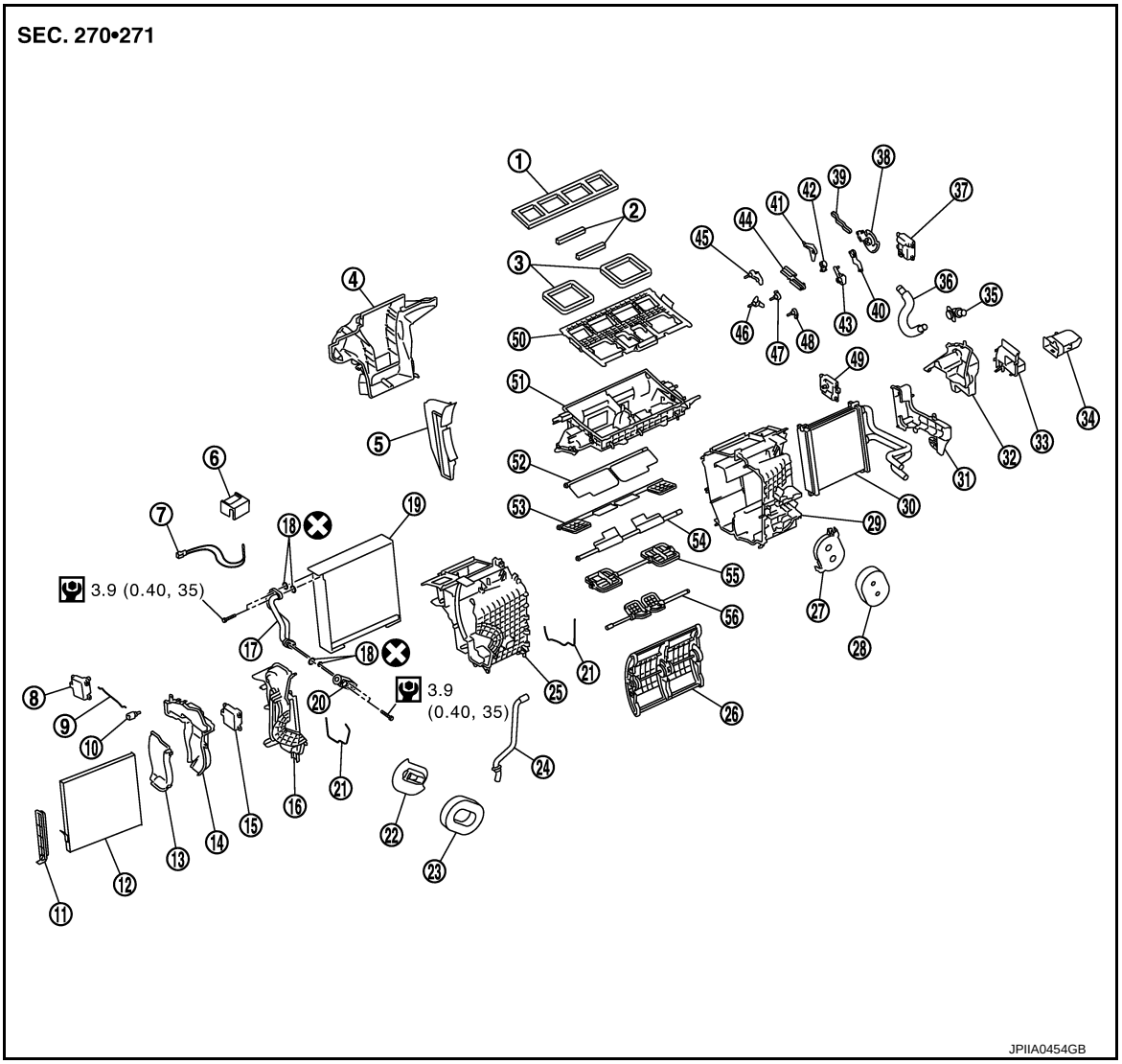
REMOVAL



1. Blower unit assembly
2. Heater & cooling unit assembly
3. Steering member
4. Instrument stay
5. Instrument panel assembly

Refer to GI-4, "Components" for symbols in the figure.

DISASSEMBLY



1. Ventilator seal
2. Upper ventilator seal
3. Defroster seal
4. Adapter case
5. Center case
6. Intake sensor bracket
7. Intake sensor
8. Upper ventilator door motor
9. Upper ventilator door rod
10. Upper ventilator door lever
11. Filter cover
12. In-cabin microfilter/Air conditioner filter*
13. Foot duct 1 (right)
14. Foot duct 2 (right)
15. Air mix door motor (passenger side)
16. Heater & cooling unit case cover
17. Evaporator pipe assembly
18. O-ring
19. Evaporator
20. Expansion valve
21. Case packing
22. Grommet
23. Cooler pipe grommet
24. Drain hose
25. Heater & cooling unit case (right)
26. Air mix door (Slide door)
27. Heater pipe support
28. Heater pipe grommet
29. Heater & cooling unit case (left)
30. Heater core
31. Heater pipe cover
32. Foot duct 2 (left)
33. Foot duct 1 (left)
34. Heater duct
35. Aspirator
36. Aspirator hose
37. Mode door motor
38. Main link
39. Rod link
40. Max. cool door link
41. Ventilator door link
42. Foot door link
43. Mode door lever
44. Defroster door link
45. Ventilator door lever
46. Foot door lever
47. Defroster door lever
48. Max. cool door lever
49. Air mix door motor (driver side)
50. Distributor upper case
51. Distributor lower case
52. Ventilator door
53. Foot door
54. Max. cool door
55. Defroster door
56. Upper ventilator door

* : Models for Mexico.

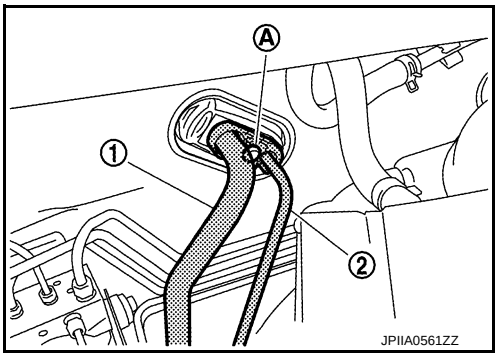
Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

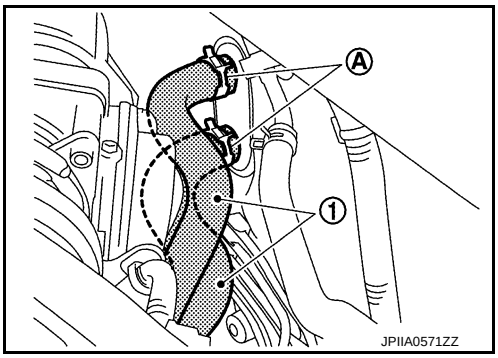
INFOID:0000000005517128

REMOVAL

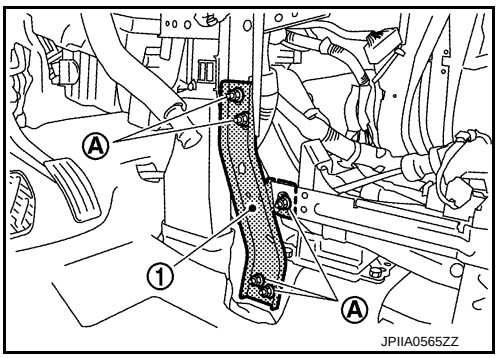
1. Collect the refrigerant with refrigerant collecting equipment (for HFC134a).
2. Drain engine coolant. Refer to CO-11, "Draining".
3. Remove the mounting bolt (A), and then disconnect the low-pressure pipe (1) and high-pressure pipe (2) from the expansion valve.
   CAUTION:
   Cap or wrap the joint of the A/C piping and expansion valve with suitable material such as vinyl tape to avoid the entry of air.



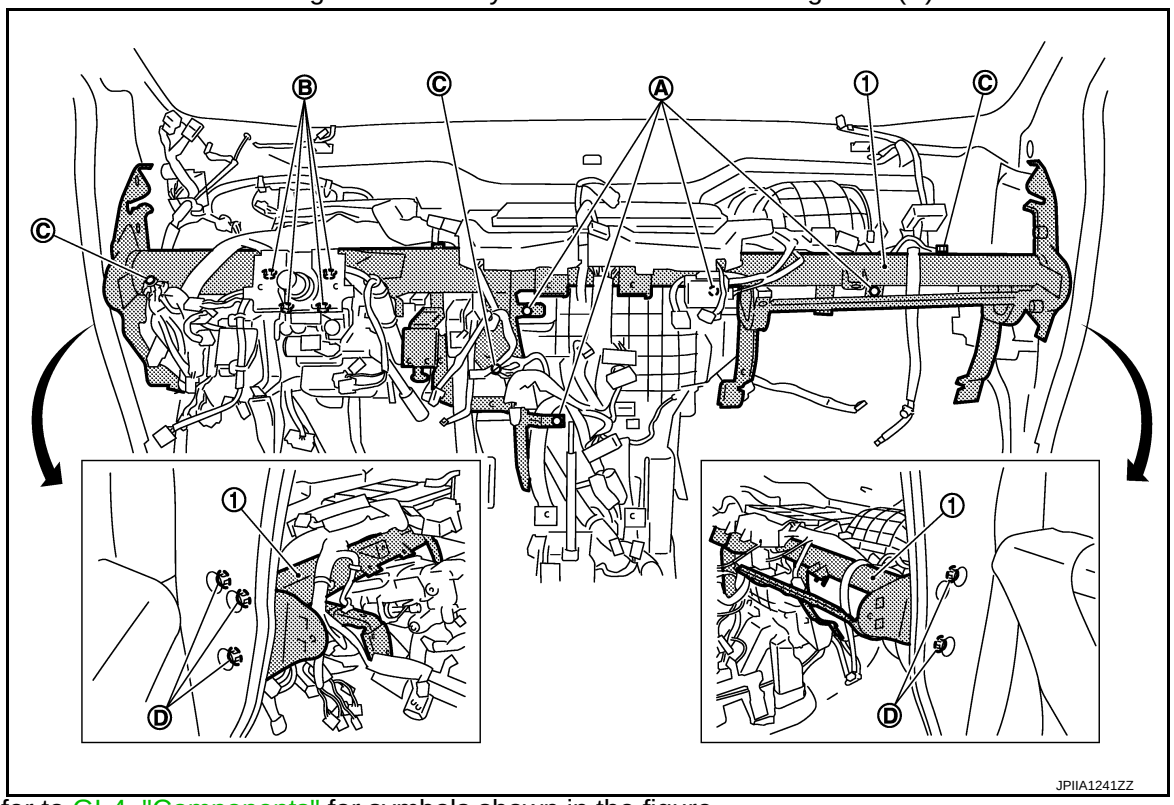
4. Remove the clamps (A), and then disconnect the heater hoses (1).
   CAUTION:
   - **Some coolant may spill when heater hoses are disconnected. Wipe them off with wastes.**
   - **Close the coolant inlet/outlet on the heater core and heater hoses with wastes.**



5. Remove the instrument panel assembly. Refer to IP-12, "Exploded View".
6. Remove the mounting nuts (A), and then remove the instrument stay (1).

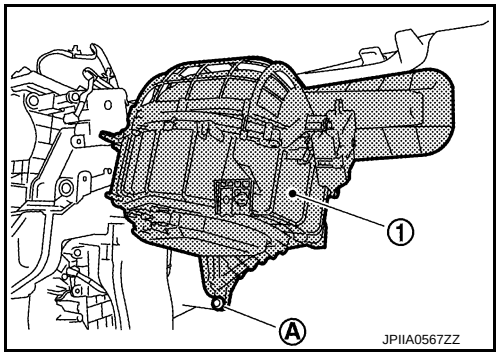


7. Remove the heater & cooling unit assembly and blower unit mounting bolts (A).

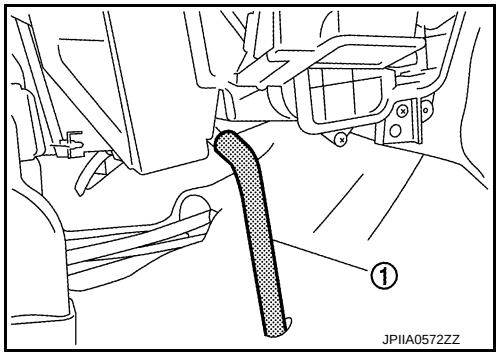


Refer to GI-4, "Components" for symbols shown in the figure.

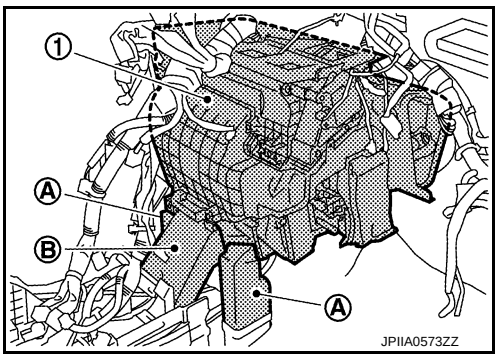
8. Remove the steering column mounting nuts (B). Refer to ST-18, "WITHOUT ELECTRIC MOTOR : Exploded View" (without electric motor) or ST-21, "WITH ELECTRIC MOTOR : Exploded View" (with electric motor).
9. Remove the ground bolts (C) from the steering member (1).
10. Remove the harness clip from the steering member.
11. Disconnect the intake door motor and blower motor connectors.
12. Remove the steering member mounting bolts (D), and then remove the steering member.
13. Remove the mounting screw (A), and then remove the blower unit (1).



14. Disconnect the drain hose (1) from heater & cooling unit assembly.



15. Remove the rear foot duct 1 (left/right) (A) and rear ventilator duct 1 (B), and then remove the heater & cooling unit assembly (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Replace the O-ring with a new one. Apply a coat of compressor oil to the O-ring prior to installation.**
- **Check for refrigerant leakage when charging refrigerant.**

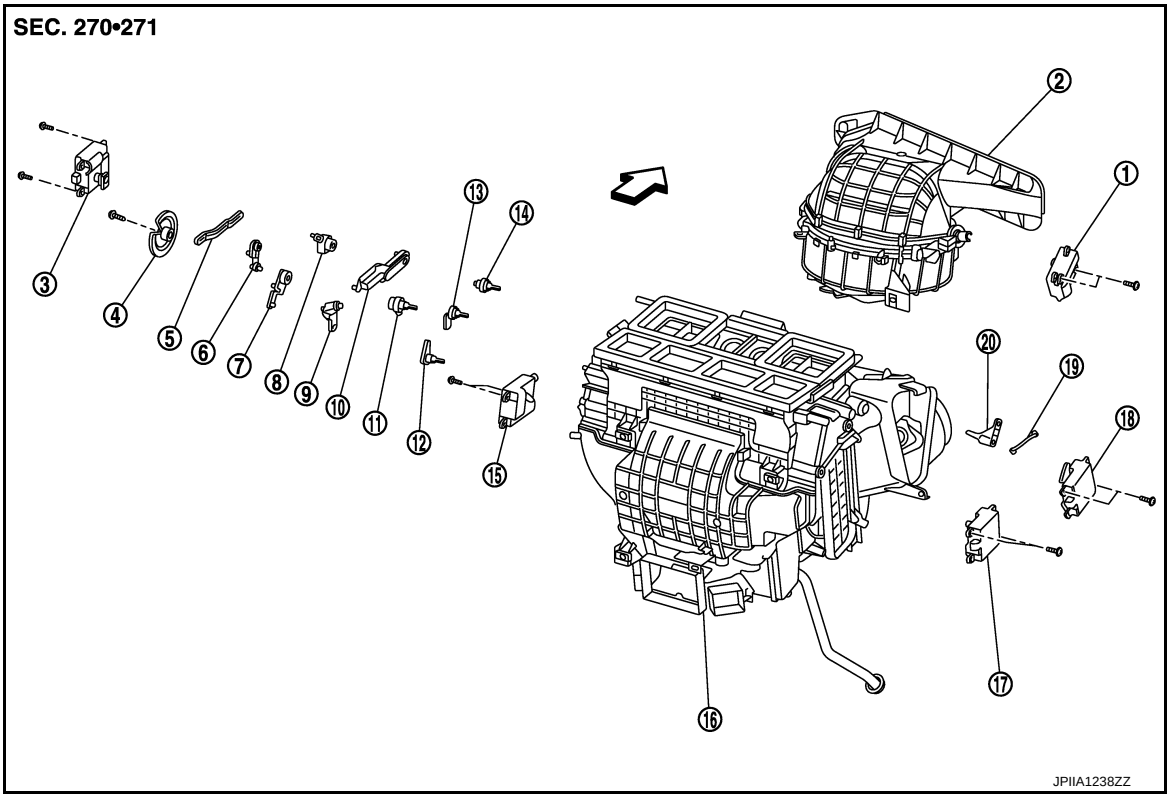
NOTE:

- Refer to CO-12, "Refilling" when filling the radiator with engine coolant.
- Charge the refrigerant again.

UPPER VENTILATOR DOOR MOTOR

Exploded View

INFOID:0000000005517129



1. Intake door motor
2. Bower unit assembly
3. Mode door motor
4. Main link
5. Rod link
6. Max. cool door link
7. Max. cool door link
8. Mode door lever
9. Ventilator door link
10. Defroster door link
11. Ventilator door lever
12. Foot door lever
13. Max. cool door lever
14. Defroster door lever
15. Air mix door motor (driver side)
16. Heater & cooling unit assembly
17. Air mix door motor (passenger side)
18. Upper ventilator door motor
19. Upper ventilator door rod
20. Upper ventilator door lever

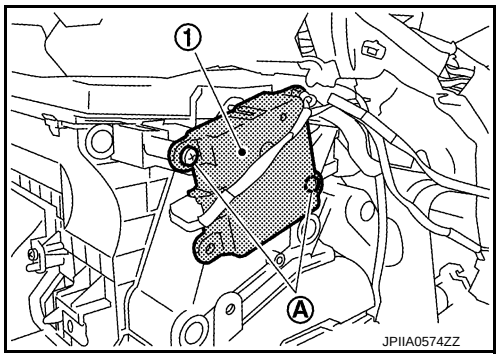
⇦ : Vehicle front

Removal and Installation

INFOID:0000000005517130

REMOVAL

1. Remove the blower unit. Refer to VTL-30, "Exploded View".
2. Remove the mounting screws (A), and then remove the upper ventilator door motor (1).
3. Disconnect the upper ventilator door motor connector.



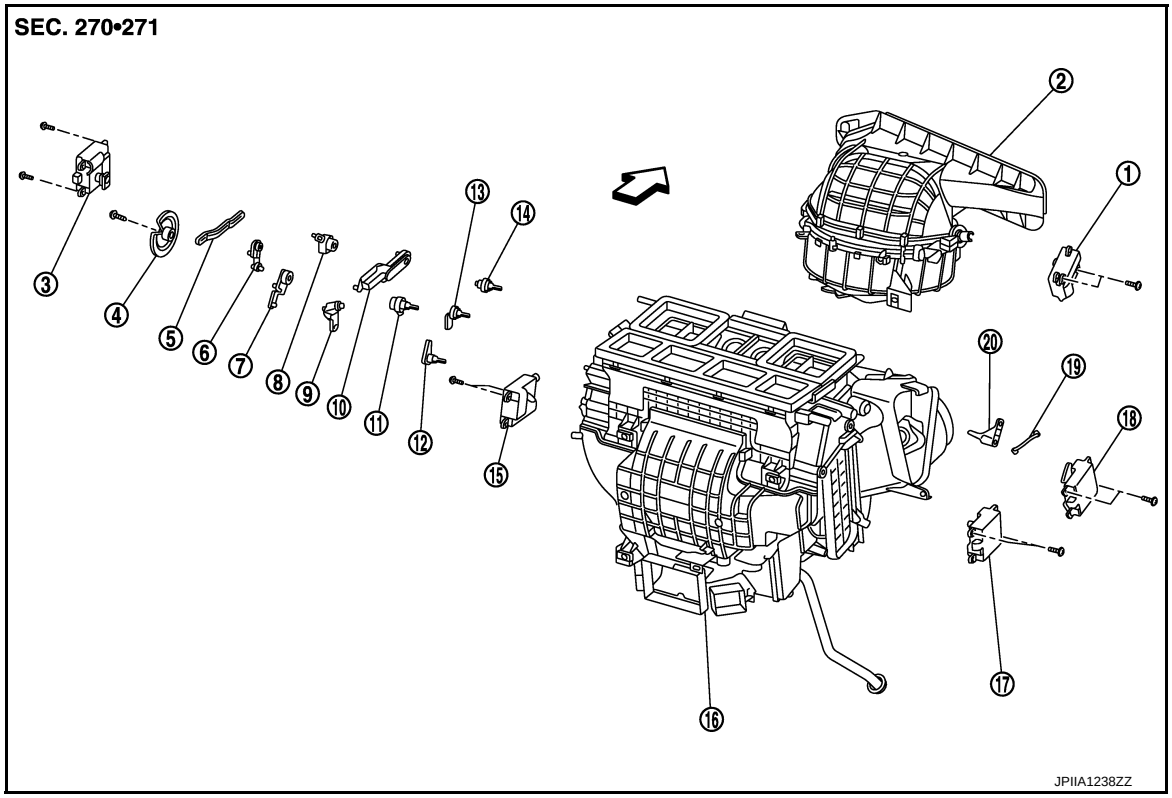
INSTALLATION

Install in the reverse order of removal.

MODE DOOR MOTOR

Exploded View

INFOID:0000000005517131



1. Intake door motor
2. Bower unit assembly
3. Mode door motor
4. Main link
5. Rod link
6. Max. cool door link
7. Max. cool door link
8. Mode door lever
9. Ventilator door link
10. Defroster door link
11. Ventilator door lever
12. Foot door lever
13. Max. cool door lever
14. Defroster door lever
15. Air mix door motor (driver side)
16. Heater & cooling unit assembly
17. Air mix door motor (passenger side)
18. Upper ventilator door motor
19. Upper ventilator door rod
20. Upper ventilator door lever

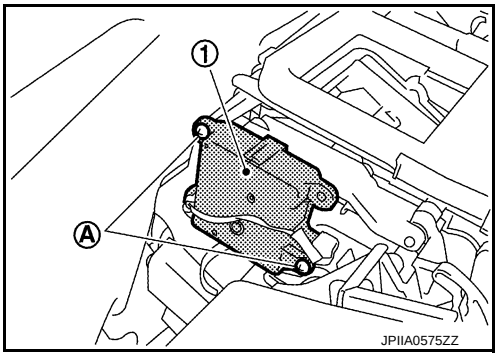
⇦ : Vehicle front

Removal and Installation

INFOID:0000000005517132

REMOVAL

1. Remove the instrument panel assembly. Refer to IP-12, "Exploded View".
2. Remove the mounting screws (A), and then remove the mode door motor (1).
3. Disconnect the mode door motor connector.



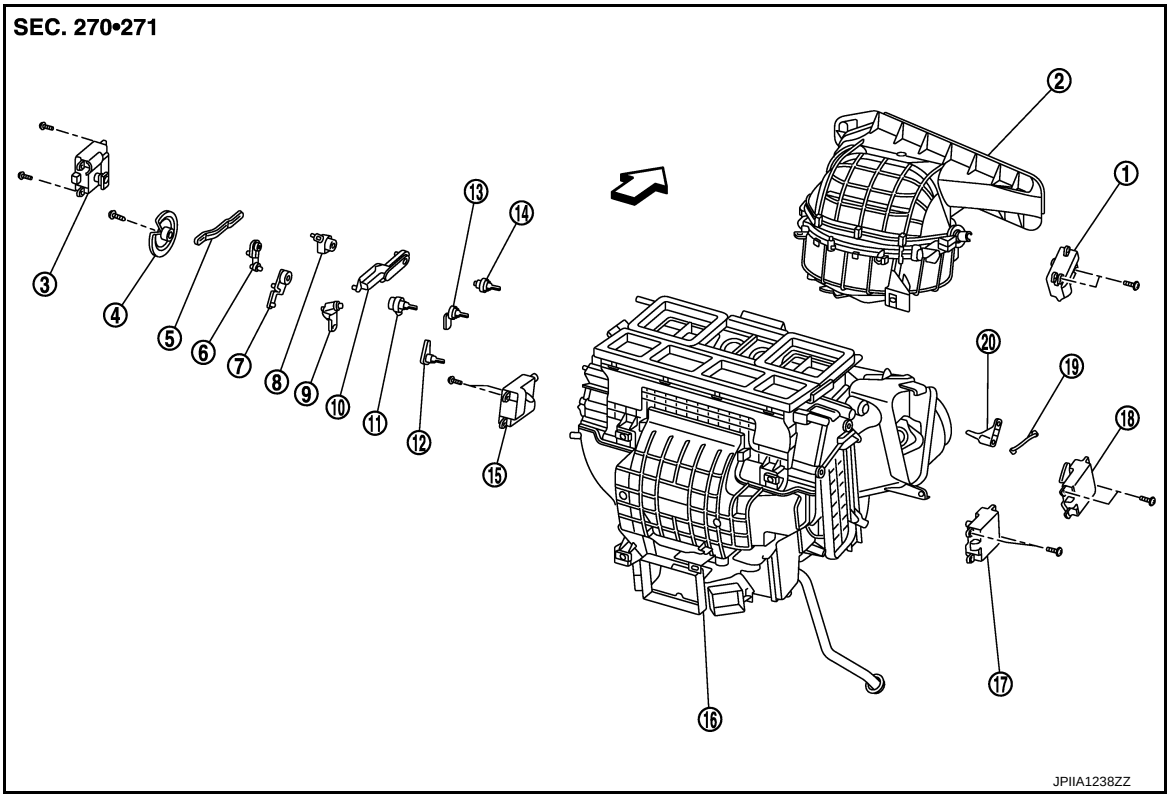
INSTALLATION

Install in the reverse order of removal.

AIR MIX DOOR MOTOR

Exploded View

INFOID:0000000005517133



1. Intake door motor
2. Bower unit assembly
3. Mode door motor
4. Main link
5. Rod link
6. Max. cool door link
7. Max. cool door link
8. Mode door lever
9. Ventilator door link
10. Defroster door link
11. Ventilator door lever
12. Foot door lever
13. Max. cool door lever
14. Defroster door lever
15. Air mix door motor (driver side)
16. Heater & cooling unit assembly
17. Air mix door motor (passenger side)
18. Upper ventilator door motor
19. Upper ventilator door rod
20. Upper ventilator door lever

⇦ : Vehicle front

Removal and Installation

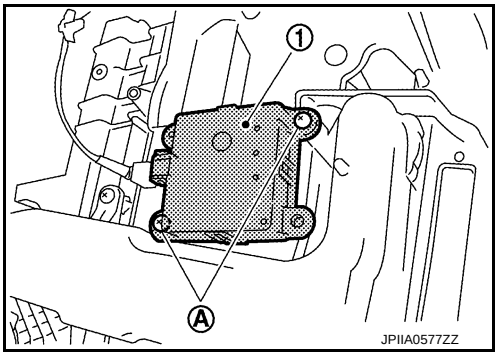
INFOID:0000000005517134

REMOVAL

Driver side

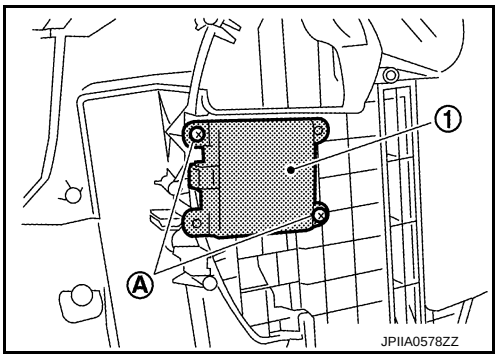
1. Set the temperature (driver side) at 18°C (60°F).
   CAUTION:
   The angle may be out, when installing the air mix door motor to the air mix door, unless the above procedure is performed.
2. Disconnect the battery cable from the negative terminal.
3. Remove the foot duct (left). Refer to VTL-67, "FOOT DUCT : Exploded View".

4. Remove the mounting screws (A), and then remove the air mix door motor (1).
5. Disconnect the air mix door motor connector.



Passenger side

1. Set the temperature (passenger side) at 18°C (60°F).
   CAUTION:
   The angle may be out, when installing the air mix door motor to the air mix door, unless the above procedure is performed.
2. Disconnect the battery cable from the negative terminal.
3. Remove the foot duct (right). Refer to VTL-67, "FOOT DUCT : Exploded View".
4. Remove the mounting screws (A), and then remove the air mix door motor (1).
5. Disconnect the air mix door motor connector.



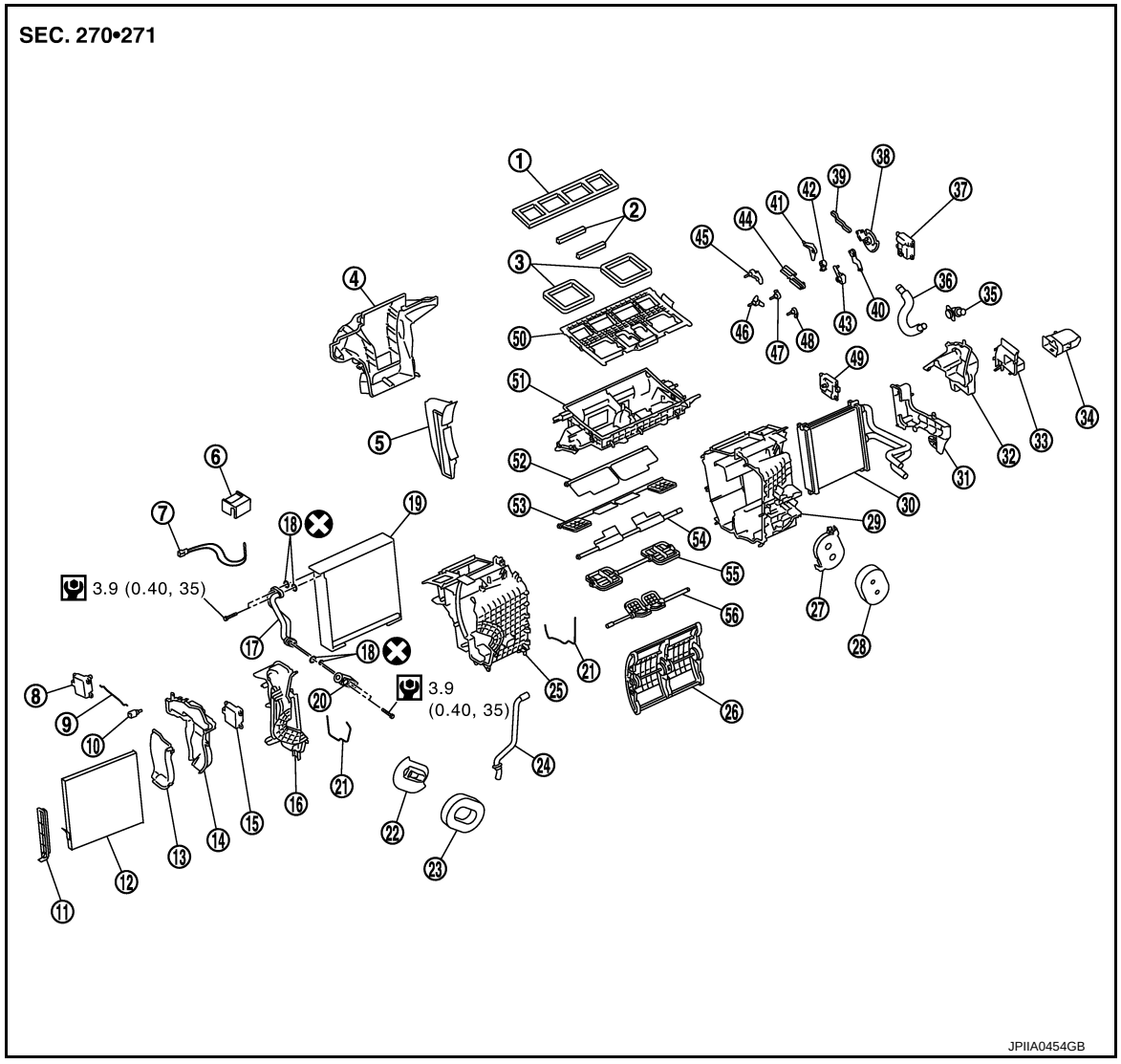
INSTALLATION

Install in the reverse order of removal.

HEATER CORE

Exploded View

INFOID:0000000005517135



1. Ventilator seal
2. Upper ventilator seal
3. Defroster seal
4. Adapter case
5. Center case
6. Intake sensor bracket
7. Intake sensor
8. Upper ventilator door motor
9. Upper ventilator door rod
10. Upper ventilator door lever
11. Filter cover
12. In-cabin microfilter/Air conditioner filter*
13. Foot duct 1 (right)
14. Foot duct 2 (right)
15. Air mix door motor (passenger side)
16. Heater & cooling unit case cover
17. Evaporator pipe assembly
18. O-ring
19. Evaporator
20. Expansion valve
21. Case packing
22. Grommet
23. Cooler pipe grommet
24. Drain hose
25. Heater & cooling unit case (right)
26. Air mix door (Slide door)
27. Heater pipe support
28. Heater pipe grommet
29. Heater & cooling unit case (left)
30. Heater core
31. Heater pipe cover
32. Foot duct 2 (left)
33. Foot duct 1 (left)
34. Heater duct
35. Aspirator
36. Aspirator hose
37. Mode door motor
38. Main link
39. Rod link
40. Max. cool door link
41. Ventilator door link
42. Foot door link
43. Mode door lever
44. Defroster door link
45. Ventilator door lever

46. Foot door lever
47. Defroster door lever
48. Max. cool door lever
49. Air mix door motor (driver side)
50. Distributor upper case
51. Distributor lower case
52. Ventilator door
53. Foot door
54. Max. cool door
55. Defroster door
56. Upper ventilator door

* : Models for Mexico.

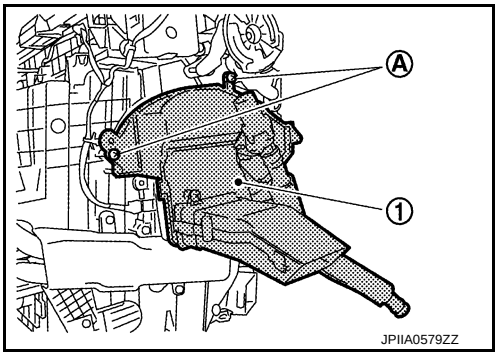
Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

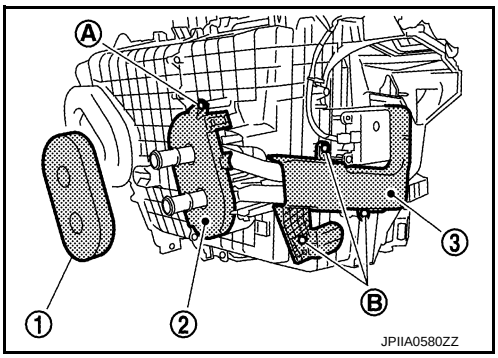
INFOID:0000000005517136

REMOVAL

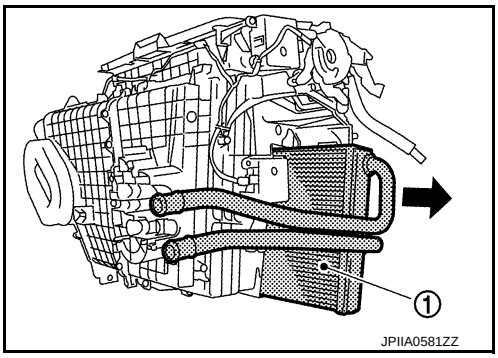
1. Remove the heater & cooling unit assembly. Refer to VTL-36, "Exploded View".
2. Remove the mounting screws (A), and then remove the foot duct (left) (1).



3. Remove the heater pipe grommet (1).
4. Remove the mounting screw (A), and then remove the heater pipe support (2).
5. Remove the mounting screws (B), and then remove the heater pipe cover (3).



6. Slide the heater core (1) in the direction shown by the arrow, and then remove it.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Replace the O-ring with a new one. Apply a coat of compressor oil to the O-ring prior to installation.**
- **Check for refrigerant leakage when charging refrigerant.**

NOTE:

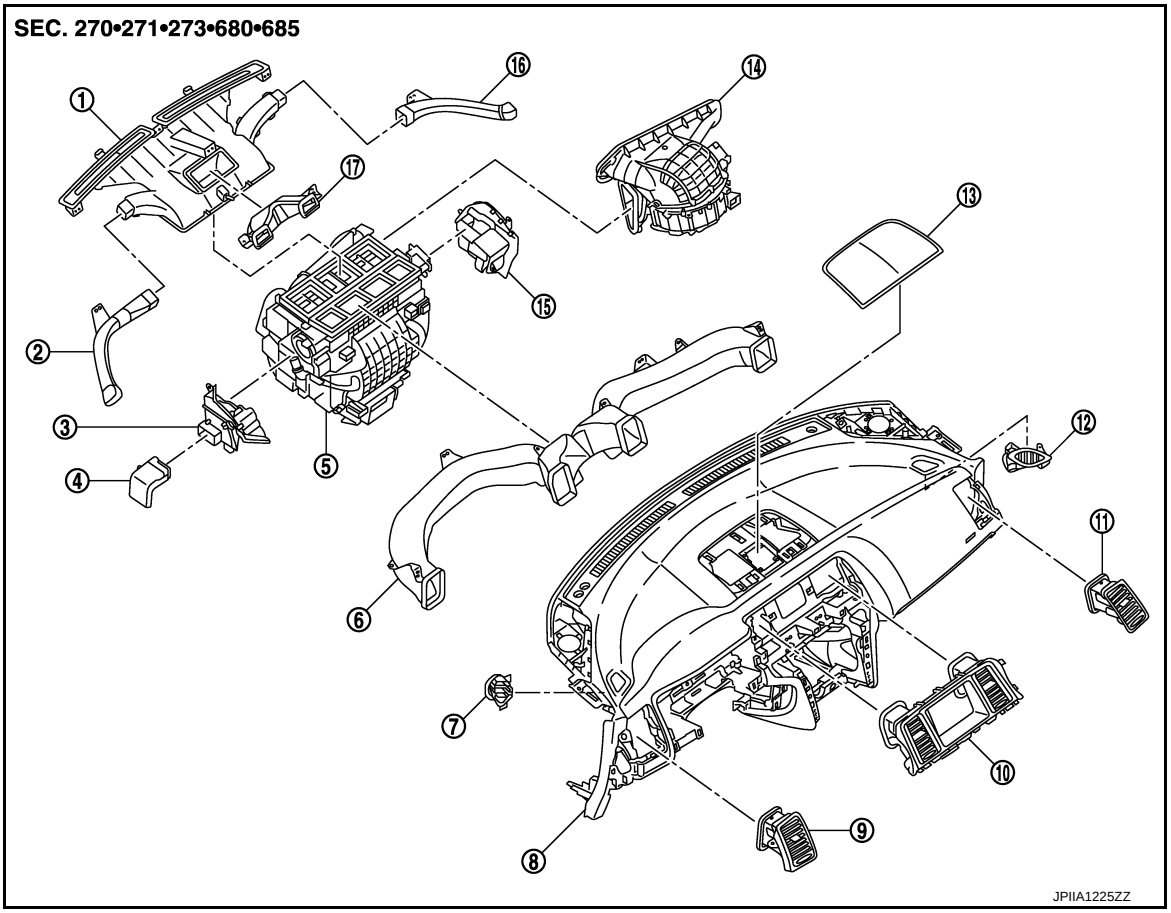
- Refer to CO-12, "Refilling" when filling the radiator with engine coolant.
- Charge the refrigerant again.

DUCT AND GRILLE

CENTER VENTILATOR GRILLE

CENTER VENTILATOR GRILLE : Exploded View

INFOID:0000000005517137



1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

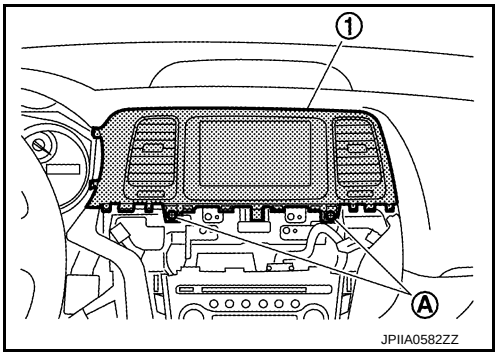
CENTER VENTILATOR GRILLE : Removal and Installation

INFOID:0000000005517138

REMOVAL

1. Remove the cluster lid A. Refer to IP-12, "Exploded View".
2. Remove the cluster lid D. Refer to IP-12, "Exploded View".

3. Remove the mounting screws (A), and then remove the center ventilator grille assembly (1).



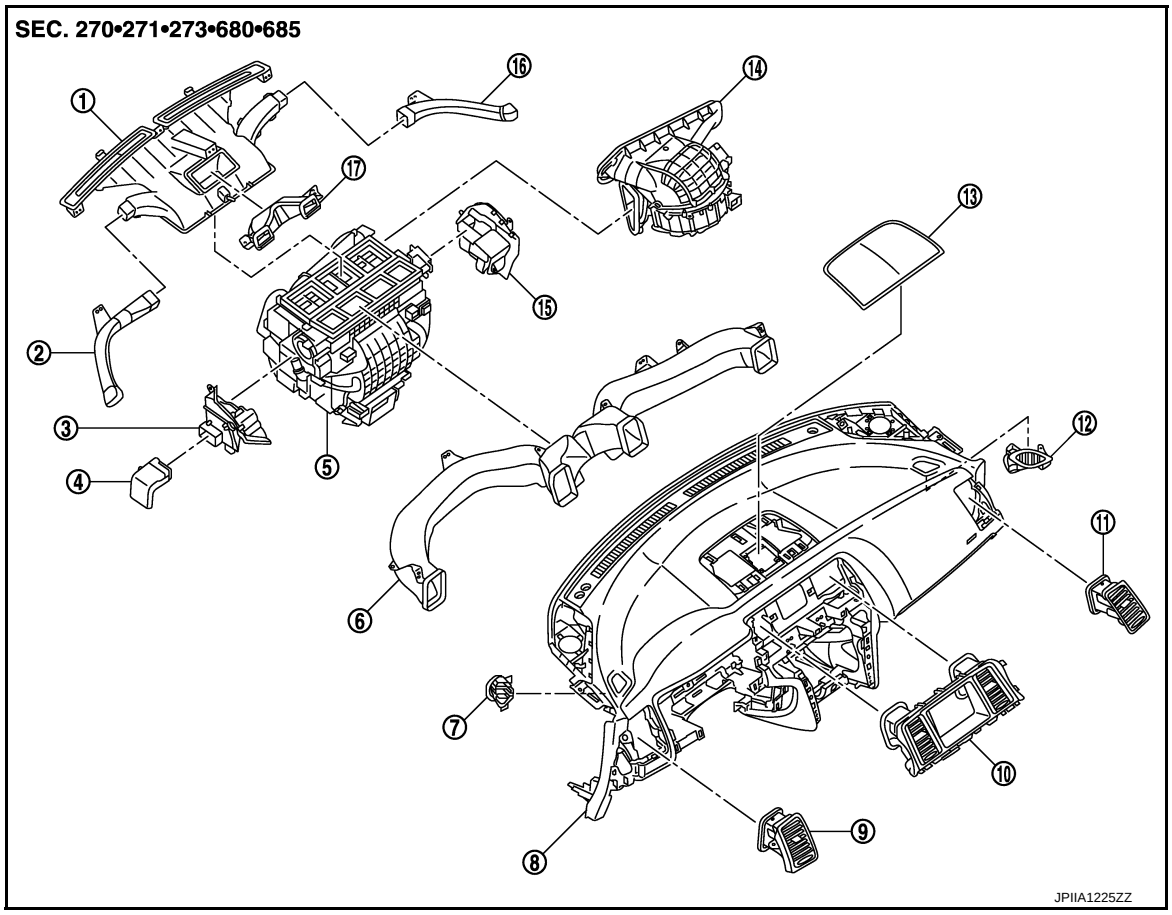
INSTALLATION

Install in the reverse order of removal.

SIDE VENTILATOR GRILLE

SIDE VENTILATOR GRILLE : Exploded View

INFOID:0000000005517139



1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

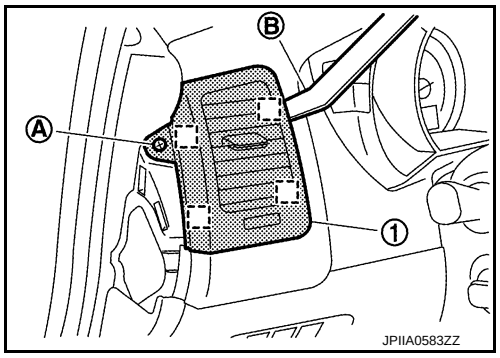
SIDE VENTILATOR GRILLE : Removal and Installation

INFOID:0000000005517140

REMOVAL

1. Remove the instrument side finisher (LH/RH). Refer to IP-12, "Exploded View".
2. Remove the mounting screw (A).
3. Remove side ventilator grille metal clip using remover tool (B), and then remove side ventilator grille (1).

: Metal clip



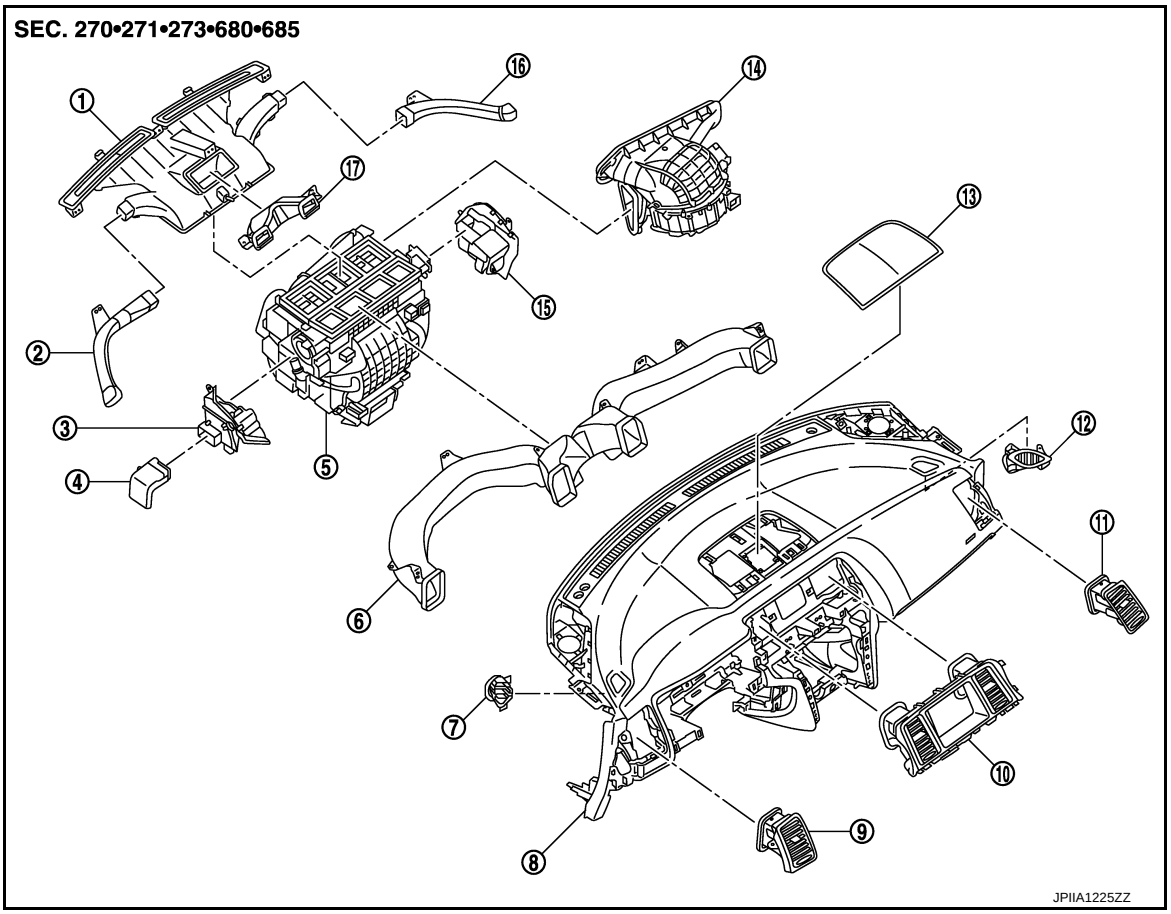
INSTALLATION

Install in the reverse order of removal.

SIDE DEFROSTER GRILLE

SIDE DEFROSTER GRILLE : Exploded View

INFOID:0000000005517141



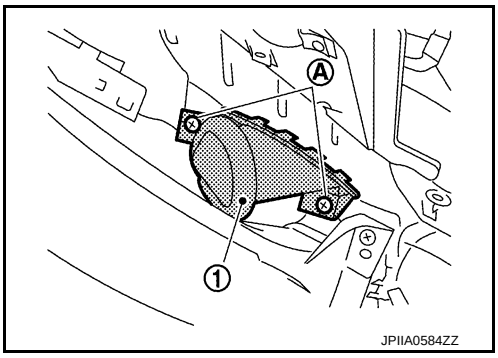
1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

SIDE DEFROSTER GRILLE : Removal and Installation

INFOID:0000000005517142

REMOVAL

1. Remove the defroster nozzle and side defroster nozzle. Refer to VTL-53, "DEFROSTER NOZZLE AND SIDE DEFROSTER NOZZLE : Exploded View".
2. Remove the mounting screws (A), and then remove the side defroster grilles (left/right) (1).



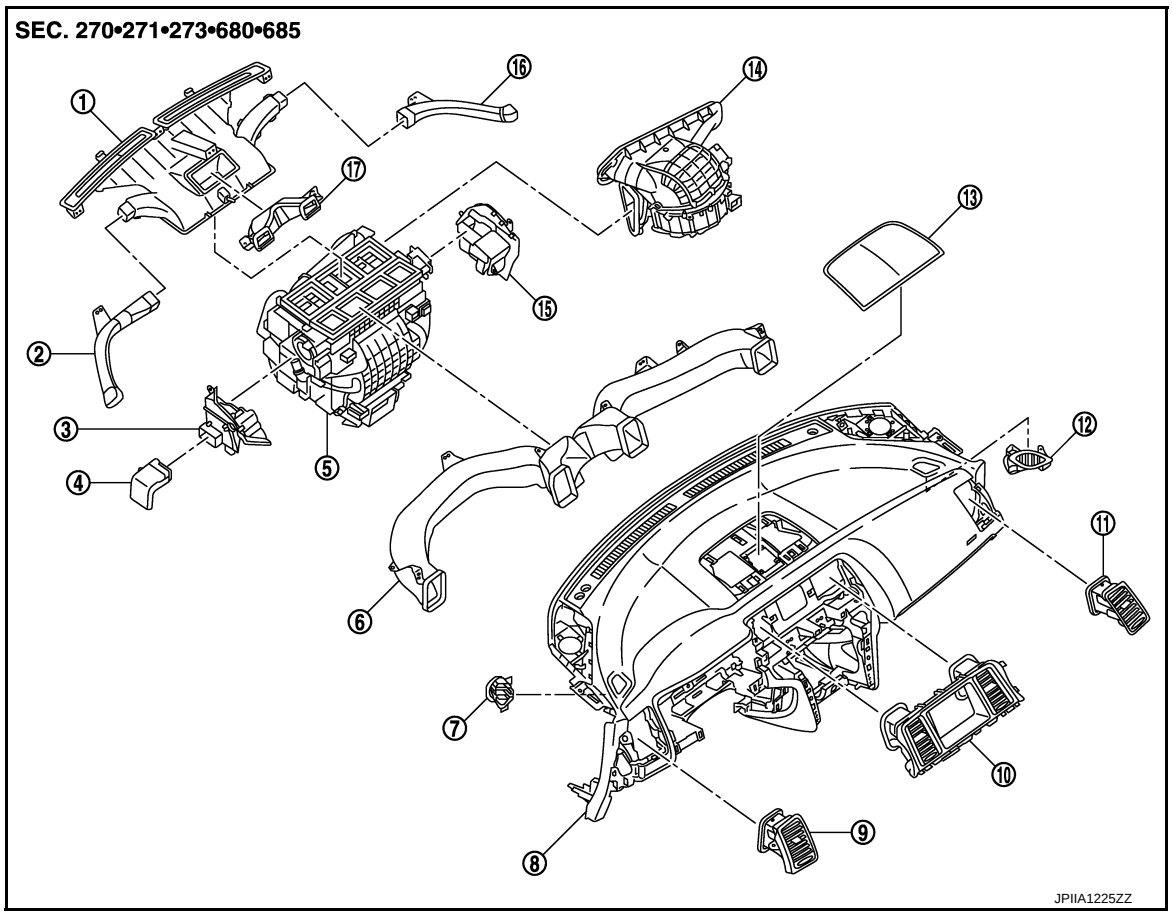
INSTALLATION

Install in the reverse order of removal.

VENTILATOR DUCT

VENTILATOR DUCT : Exploded View

INFOID:0000000005517143



1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)

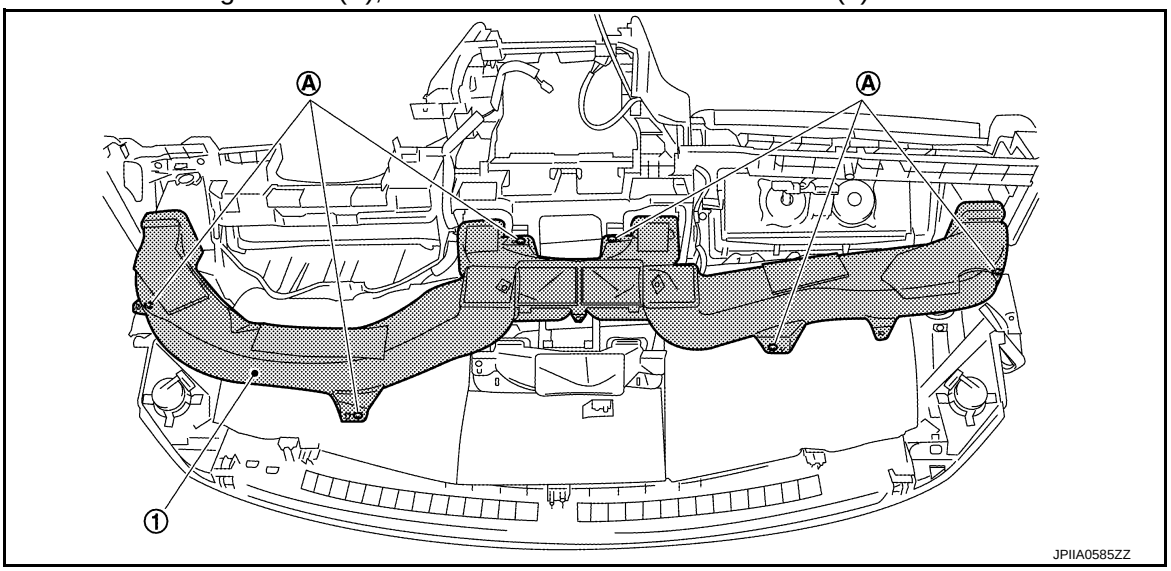
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

VENTILATOR DUCT : Removal and Installation

INFOID:0000000005517144

REMOVAL

1. Remove the defroster nozzle and side defroster nozzle. Refer to VTL-53, "DEFROSTER NOZZLE AND SIDE DEFROSTER NOZZLE : Exploded View".
2. Remove the mounting screws (A), and then remove the ventilator duct (1).



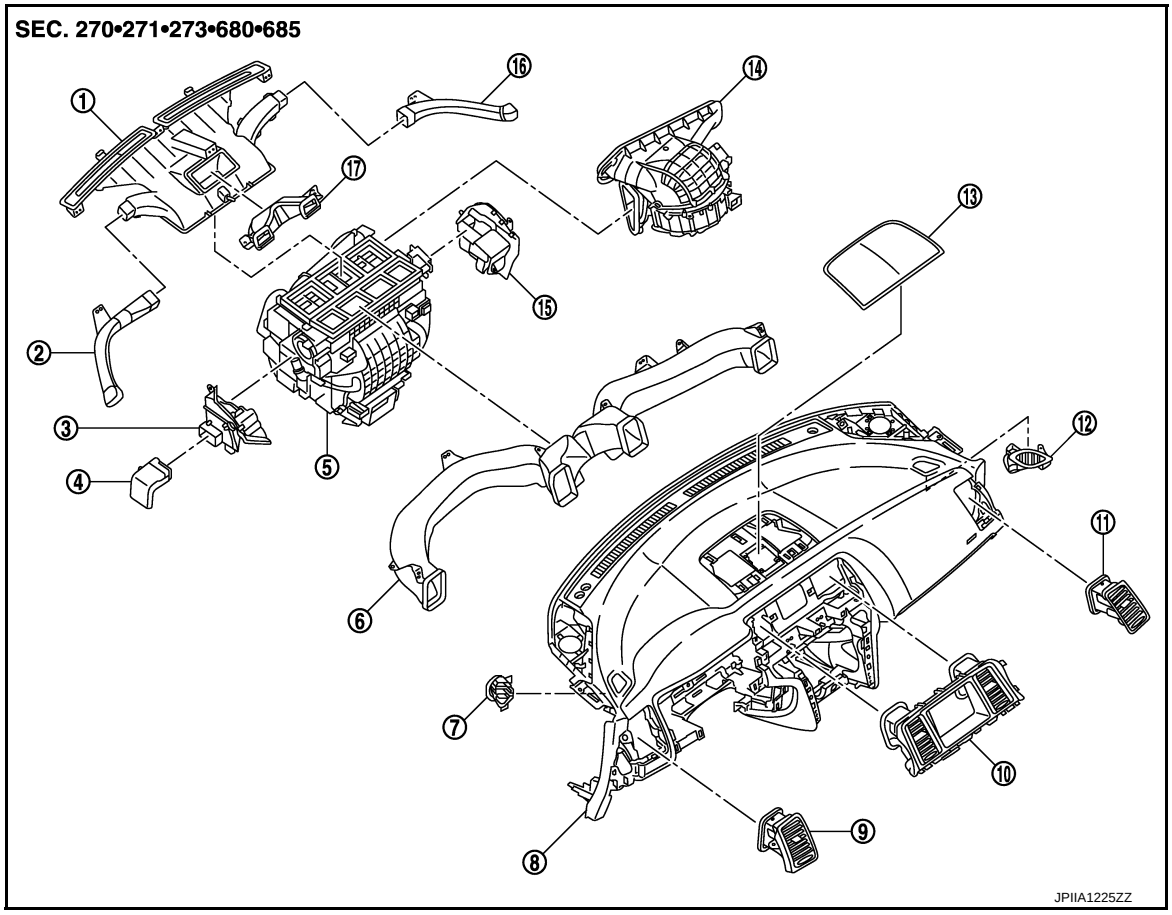
INSTALLATION

Install in the reverse order of removal.

UPPER VENTILATOR DUCT

UPPER VENTILATOR DUCT : Exploded View

INFOID:0000000005517145



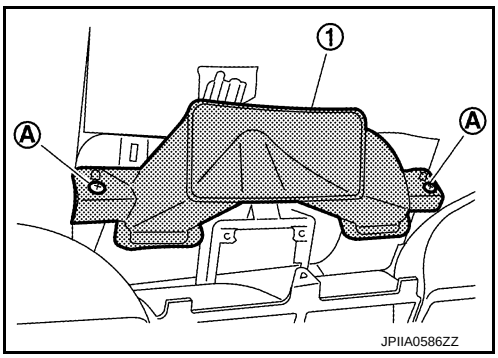
1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

UPPER VENTILATOR DUCT : Removal and Installation

INFOID:0000000005517146

REMOVAL

1. Remove the defroster nozzle and side defroster nozzle. Refer to VTL-53, "DEFROSTER NOZZLE AND SIDE DEFROSTER NOZZLE : Exploded View".
2. Remove the mounting screws (A), and then remove the upper ventilator duct (1).



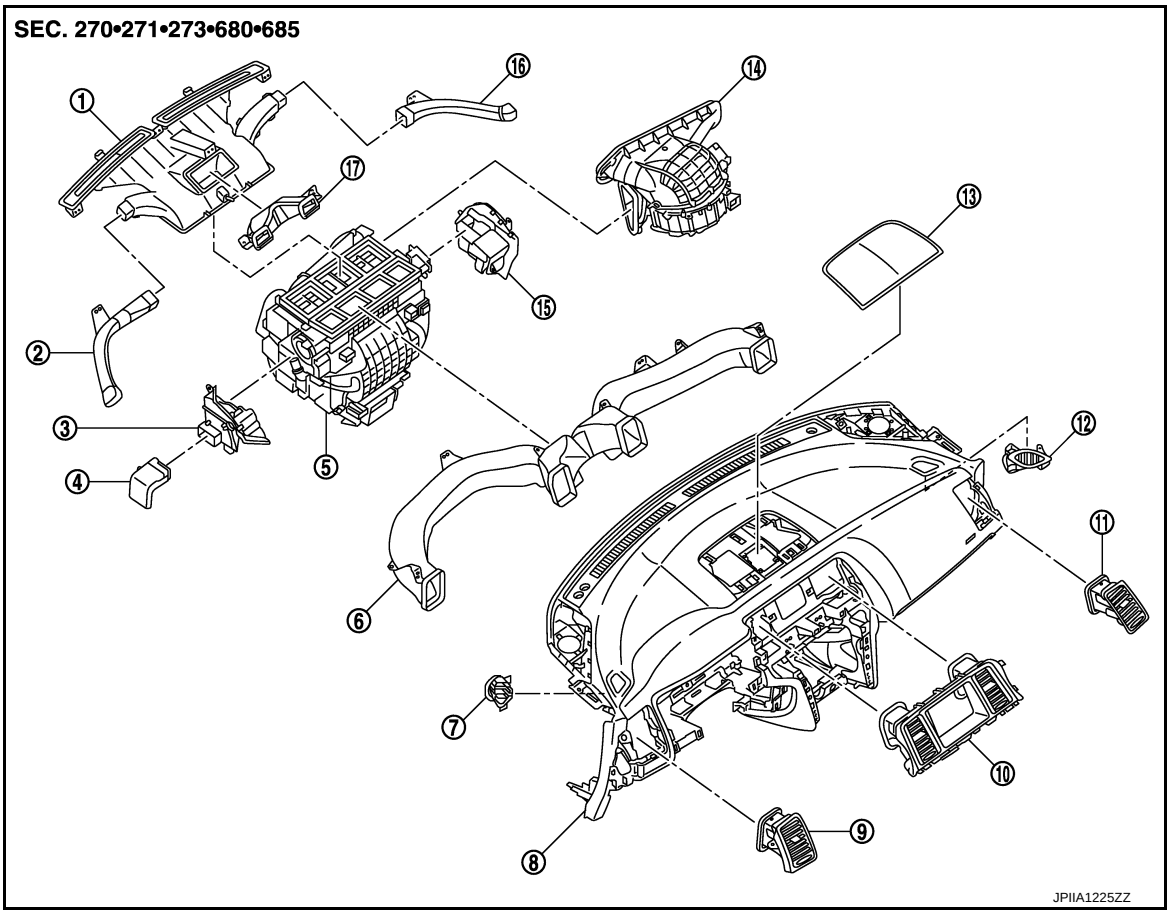
INSTALLATION

Install in the reverse order of removal.

DEFROSTER NOZZLE AND SIDE DEFROSTER NOZZLE

DEFROSTER NOZZLE AND SIDE DEFROSTER NOZZLE : Exploded View

INFOID:0000000005517147



1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

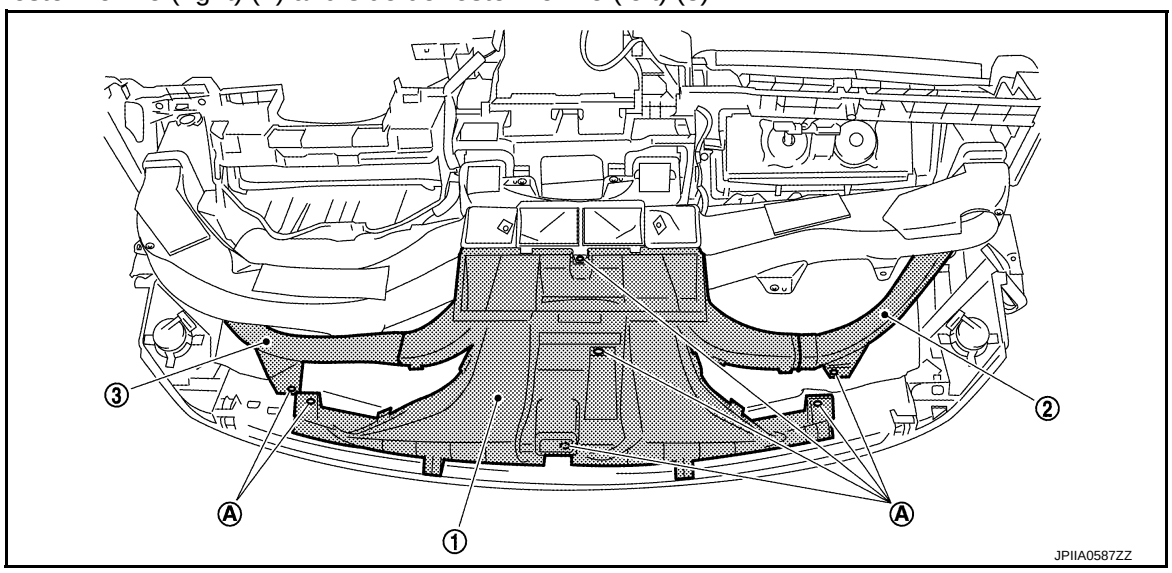
DEFROSTER NOZZLE AND SIDE DEFROSTER NOZZLE : Removal and Installation

INFOID:0000000005517148

REMOVAL

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

2. Remove the mounting screws (A), and then remove the defroster nozzle (1) together with the side defroster nozzle (right) (2) and side defroster nozzle (left) (3).



3. Remove the side defroster nozzle (right) and side defroster nozzle (left) from the defroster nozzle.

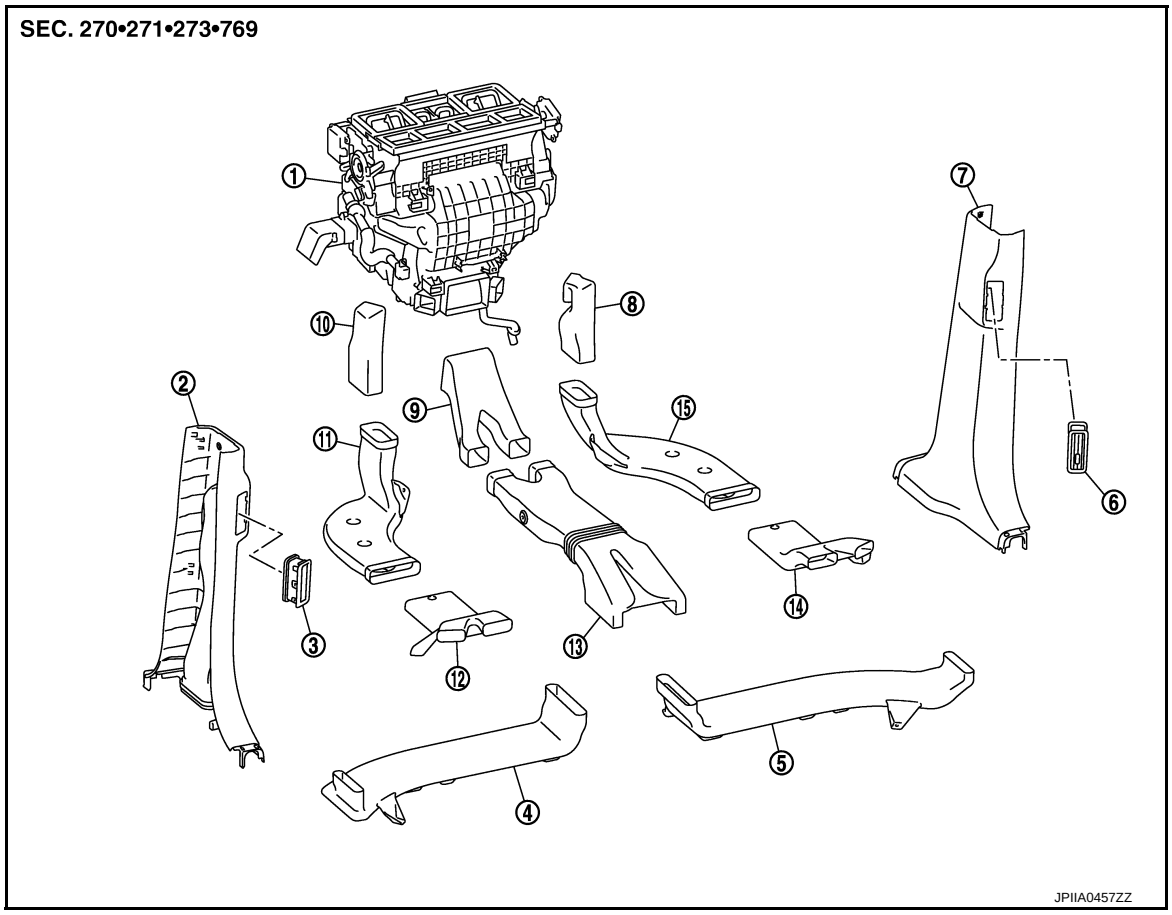
INSTALLATION

Install in the reverse order of removal.

REAR VENTILATOR GRILLE

REAR VENTILATOR GRILLE : Exploded View

INFOID:0000000005517149



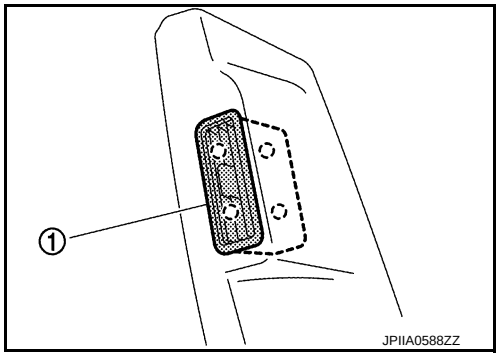
1. Heater & cooling unit assembly	2. Rear ventilator duct 4 (center pillar lower garnish left)	3. Rear ventilator grille (left)
4. Rear ventilator duct 3 (left)	5. Rear ventilator duct 3 (right)	6. Rear ventilator grille (right)
7. Rear ventilator duct 4 (center pillar lower garnish right)	8. Rear foot duct 1 (right)	9. Rear ventilator duct 1
10. Rear foot duct 1 (left)	11. Rear foot duct 2 (left)	12. Rear foot duct 3 (left)
13. Rear ventilator duct 2	14. Rear foot duct 3 (right)	15. Rear foot duct 2 (right)

REAR VENTILATOR GRILLE : Removal and Installation

INFOID:0000000005517150

REMOVAL

1. Remove the center pillar lower garnish (left/right). Refer to INT-20, "Exploded View".
2. Disengage the joints of the tabs, and then remove the rear ventilator grilles (left/right) (1).



:Clip

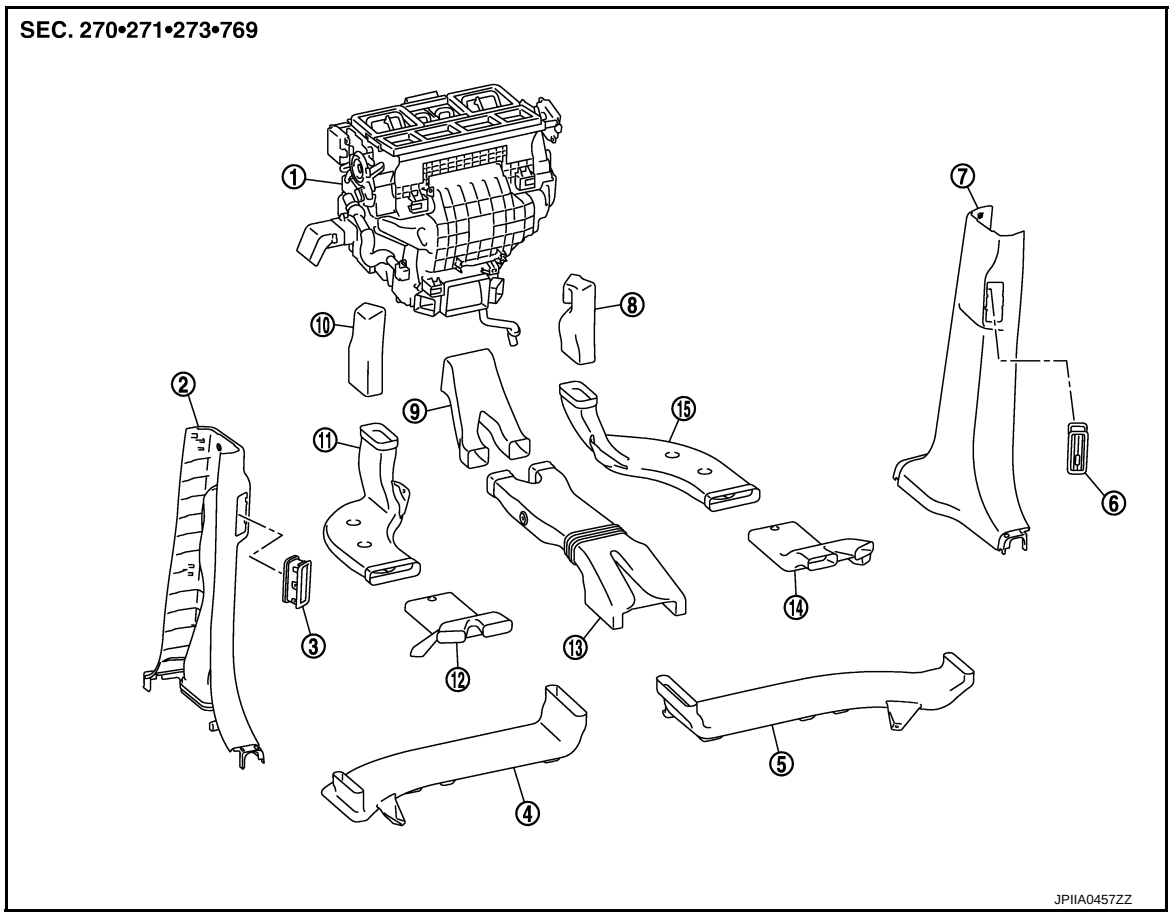
INSTALLATION

Install in the reverse order of removal.

REAR VENTILATOR DUCT 1

REAR VENTILATOR DUCT 1 : Exploded View

INFOID:0000000005517151



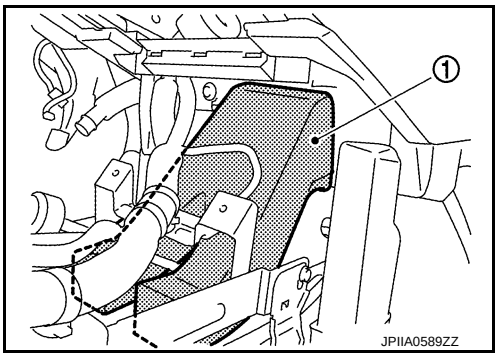
1.	Heater & cooling unit assembly	2.	Rear ventilator duct 4 (center pillar lower garnish left)	3.	Rear ventilator grille (left)
4.	Rear ventilator duct 3 (left)	5.	Rear ventilator duct 3 (right)	6.	Rear ventilator grille (right)
7.	Rear ventilator duct 4 (center pillar lower garnish right)	8.	Rear foot duct 1 (right)	9.	Rear ventilator duct 1
10.	Rear foot duct 1 (left)	11.	Rear foot duct 2 (left)	12.	Rear foot duct 3 (left)
13.	Rear ventilator duct 2	14.	Rear foot duct 3 (right)	15.	Rear foot duct 2 (right)

REAR VENTILATOR DUCT 1 : Removal and Installation

INFOID:0000000005517152

REMOVAL

1. Remove the rear ventilator duct 2. Refer to VTL-57, "REAR VENTILATOR DUCT 2 : Exploded View".
2. Remove the rear ventilator duct 1 (1).



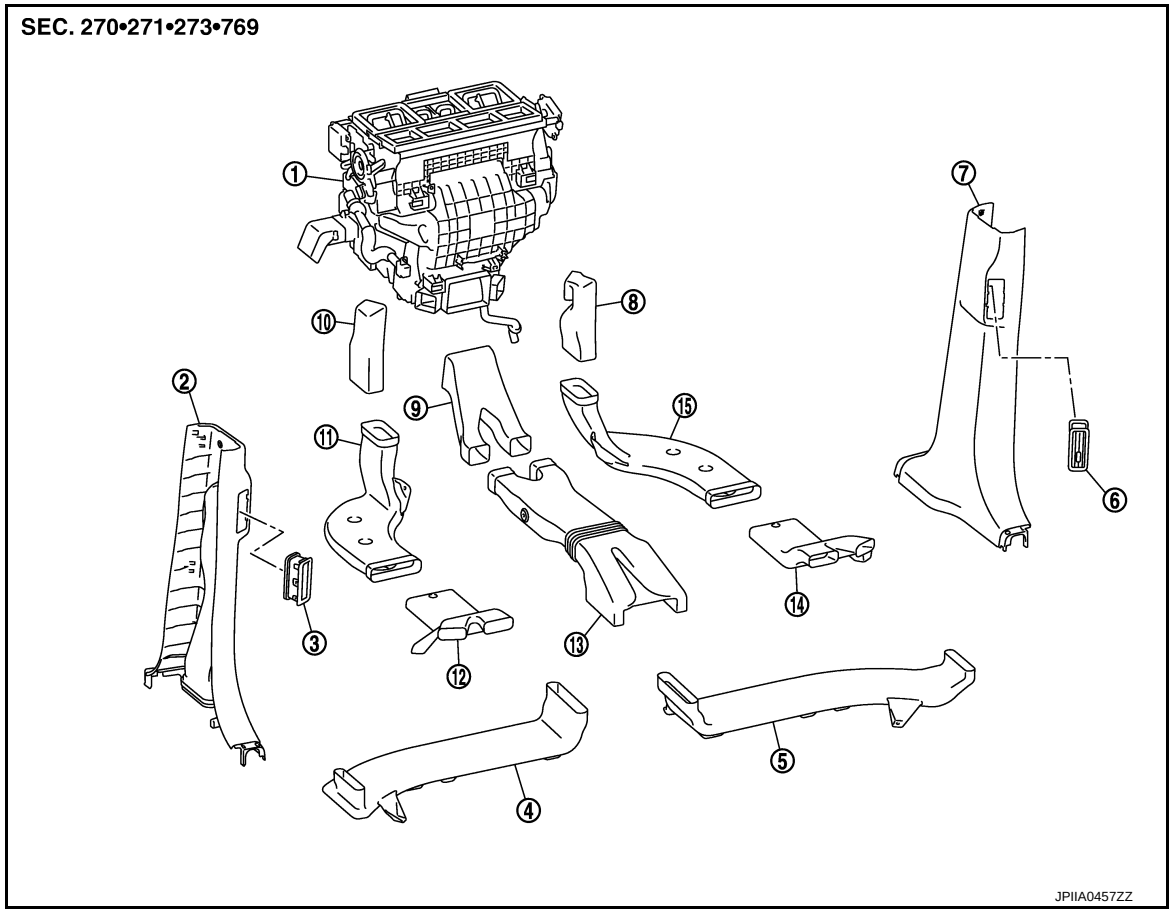
INSTALLATION

Install in the reverse order of removal.

REAR VENTILATOR DUCT 2

REAR VENTILATOR DUCT 2 : Exploded View

INFOID:0000000005517153



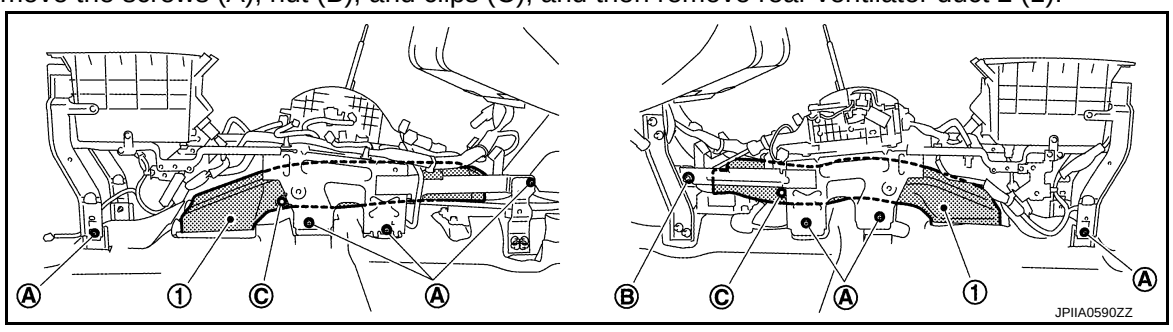
1.	Heater & cooling unit assembly	2.	Rear ventilator duct 4 (center pillar lower garnish left)	3.	Rear ventilator grille (left)
4.	Rear ventilator duct 3 (left)	5.	Rear ventilator duct 3 (right)	6.	Rear ventilator grille (right)
7.	Rear ventilator duct 4 (center pillar lower garnish right)	8.	Rear foot duct 1 (right)	9.	Rear ventilator duct 1
10.	Rear foot duct 1 (left)	11.	Rear foot duct 2 (left)	12.	Rear foot duct 3 (left)
13.	Rear ventilator duct 2	14.	Rear foot duct 3 (right)	15.	Rear foot duct 2 (right)

REAR VENTILATOR DUCT 2 : Removal and Installation

INFOID:0000000005517154

REMOVAL

1. Remove the front seat assembly (left/right). Refer to SE-105, "Exploded View".
2. Remove the lower console finisher (left/right). Refer to IP-20, "Exploded View".
3. Remove the screws (A), nut (B), and clips (C), and then remove rear ventilator duct 2 (1).

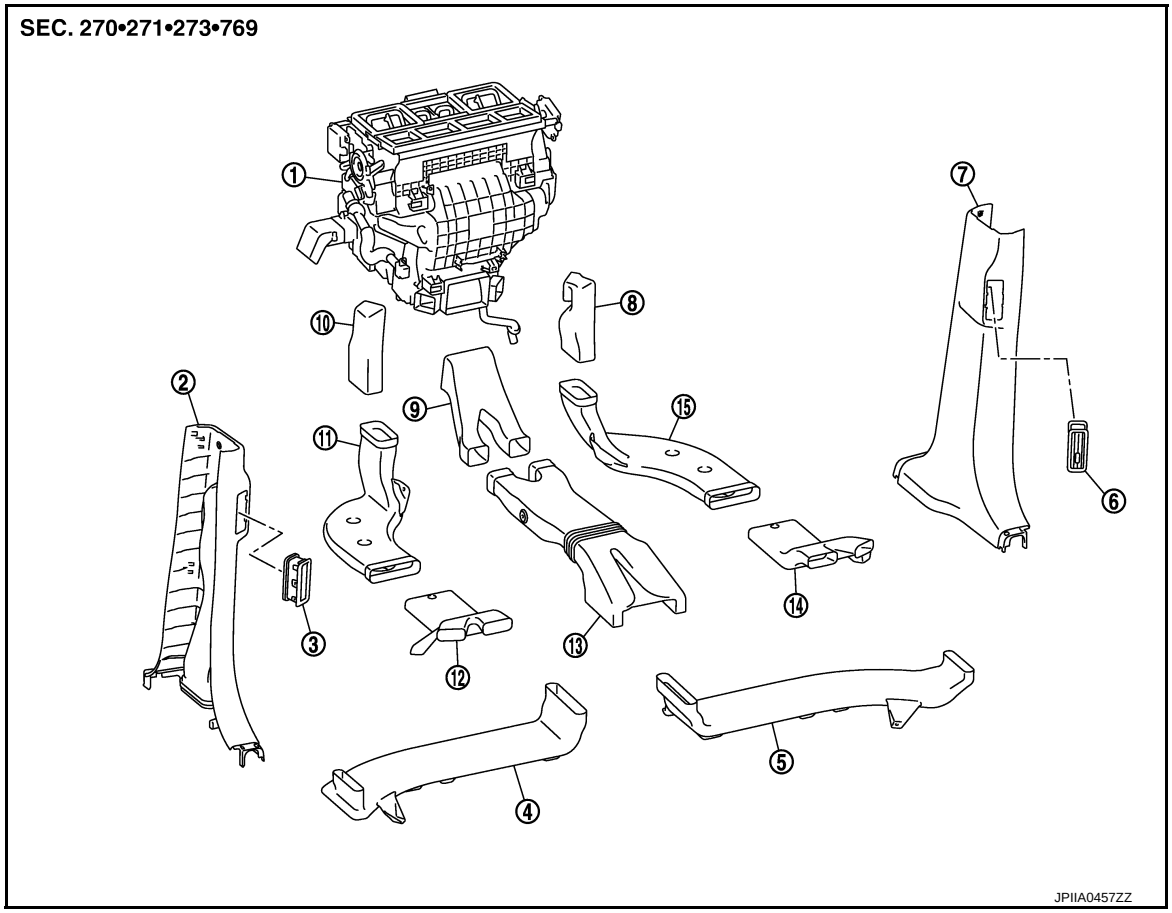


INSTALLATION
Install in the reverse order of removal.

REAR VENTILATOR DUCT 3

REAR VENTILATOR DUCT 3 : Exploded View

INFOID:0000000005517155



1. Heater & cooling unit assembly	2. Rear ventilator duct 4 (center pillar lower garnish left)	3. Rear ventilator grille (left)
4. Rear ventilator duct 3 (left)	5. Rear ventilator duct 3 (right)	6. Rear ventilator grille (right)
7. Rear ventilator duct 4 (center pillar lower garnish right)	8. Rear foot duct 1 (right)	9. Rear ventilator duct 1
10. Rear foot duct 1 (left)	11. Rear foot duct 2 (left)	12. Rear foot duct 3 (left)
13. Rear ventilator duct 2	14. Rear foot duct 3 (right)	15. Rear foot duct 2 (right)

REAR VENTILATOR DUCT 3 : Removal and Installation

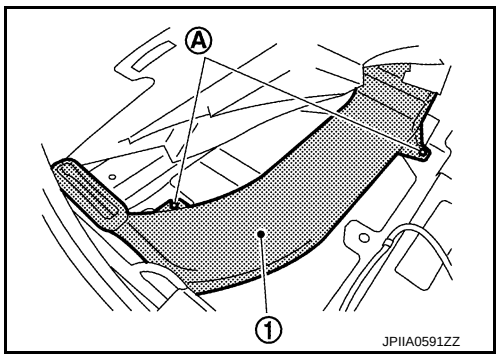
INFOID:0000000005517156

REMOVAL

Driver side

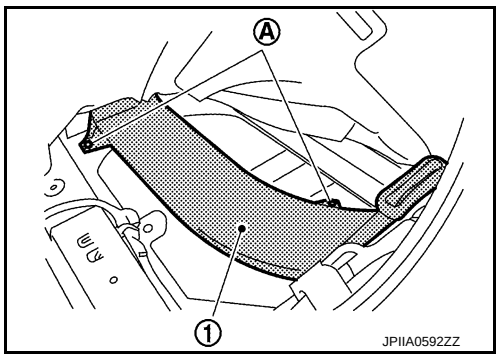
1. Remove the front seat assembly (left). Refer to SE-105, "Exploded View".
2. Pull up the driver side floor carpet. Refer to INT-24, "Exploded View".

3. Remove the mounting screws (A), and then remove rear ventilator duct 3 (left) (1).



Passenger side

1. Remove the front seat assembly (right). Refer to SE-105, "Exploded View".
2. Pull up the passenger side floor carpet. Refer to INT-24, "Exploded View".
3. Remove the mounting screws (A), and then remove rear ventilator duct 3 (right) (1).



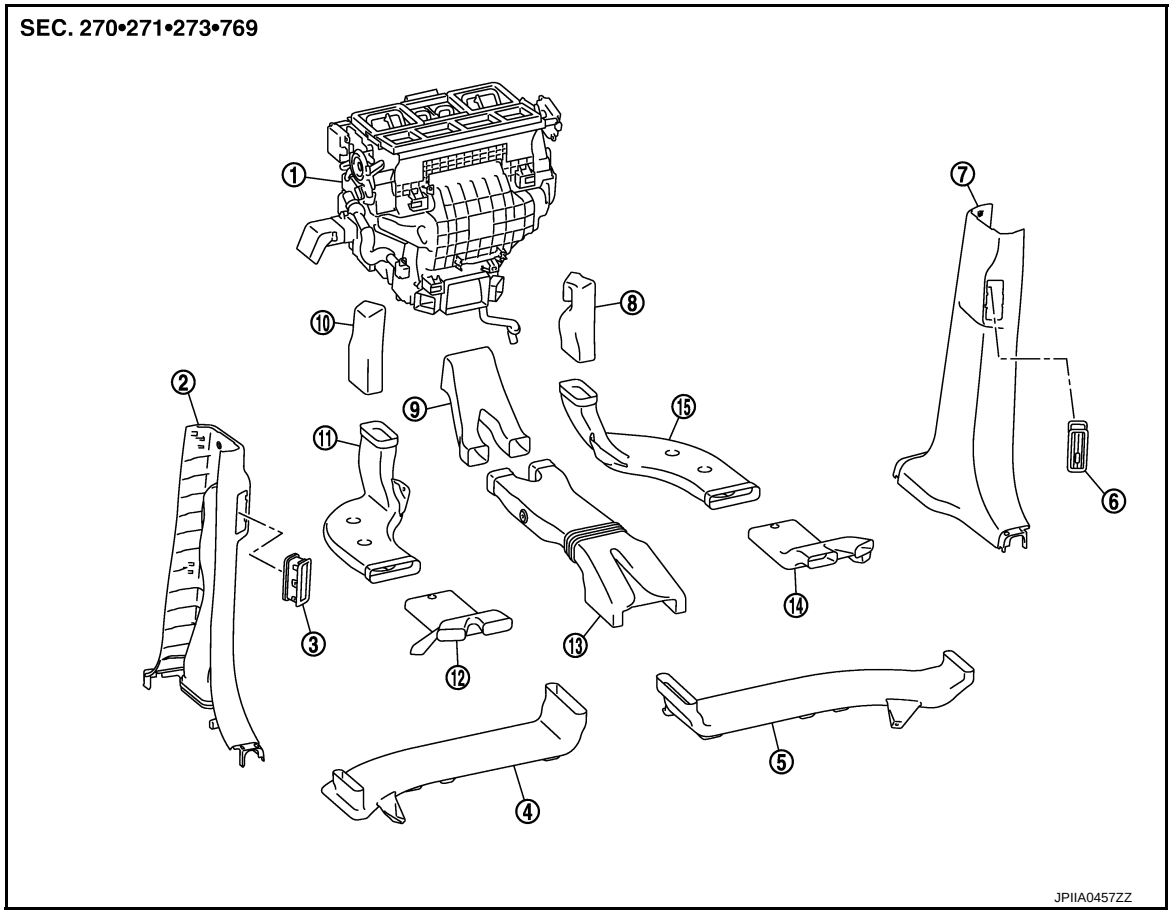
INSTALLATION

Install in the reverse order of removal.

REAR VENTILATOR DUCT 4

REAR VENTILATOR DUCT 4 : Exploded View

INFOID:0000000005517157



1.	Heater & cooling unit assembly	2.	Rear ventilator duct 4 (center pillar lower garnish left)	3.	Rear ventilator grille (left)
4.	Rear ventilator duct 3 (left)	5.	Rear ventilator duct 3 (right)	6.	Rear ventilator grille (right)
7.	Rear ventilator duct 4 (center pillar lower garnish right)	8.	Rear foot duct 1 (right)	9.	Rear ventilator duct 1
10.	Rear foot duct 1 (left)	11.	Rear foot duct 2 (left)	12.	Rear foot duct 3 (left)
13.	Rear ventilator duct 2	14.	Rear foot duct 3 (right)	15.	Rear foot duct 2 (right)

REAR VENTILATOR DUCT 4 : Removal and Installation

INFOID:0000000005517158

REMOVAL

1. Remove the center pillar lower garnish (left/right). Refer to INT-20, "Exploded View".

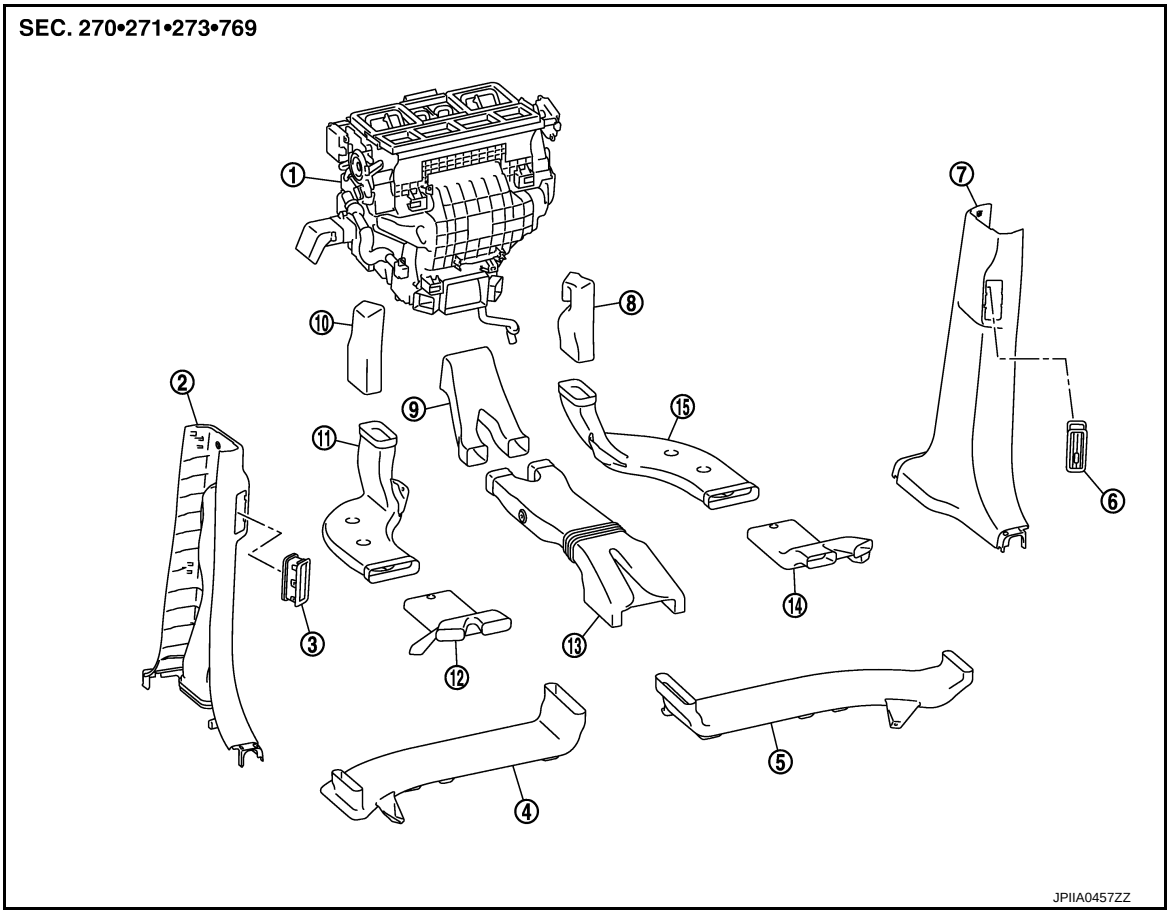
INSTALLATION

Install in the reverse order of removal.

REAR FOOT DUCT 1

REAR FOOT DUCT 1 : Exploded View

INFOID:0000000005517159



1.	Heater & cooling unit assembly	2.	Rear ventilator duct 4 (center pillar lower garnish left)	3.	Rear ventilator grille (left)
4.	Rear ventilator duct 3 (left)	5.	Rear ventilator duct 3 (right)	6.	Rear ventilator grille (right)
7.	Rear ventilator duct 4 (center pillar lower garnish right)	8.	Rear foot duct 1 (right)	9.	Rear ventilator duct 1
10.	Rear foot duct 1 (left)	11.	Rear foot duct 2 (left)	12.	Rear foot duct 3 (left)
13.	Rear ventilator duct 2	14.	Rear foot duct 3 (right)	15.	Rear foot duct 2 (right)

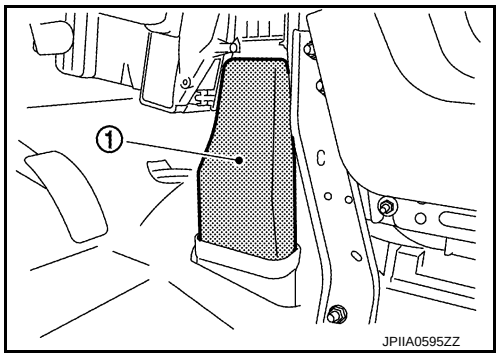
REAR FOOT DUCT 1 : Removal and Installation

INFOID:0000000005517160

REMOVAL

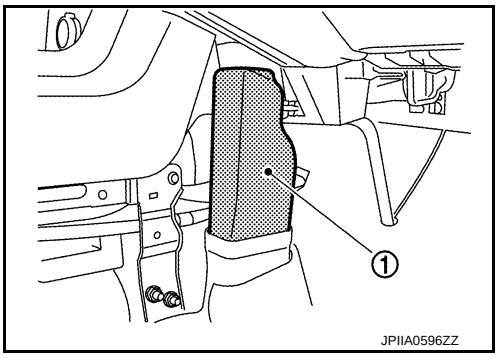
Driver side

1. Remove the instrument lower cover LH. Refer to IP-20, "Exploded View".
2. Remove the rear foot duct 1 (left) (1).



Passenger side

1. Remove the instrument lower cover RH. Refer to IP-20, "Exploded View".
2. Remove the rear foot duct 1 (right) (1).



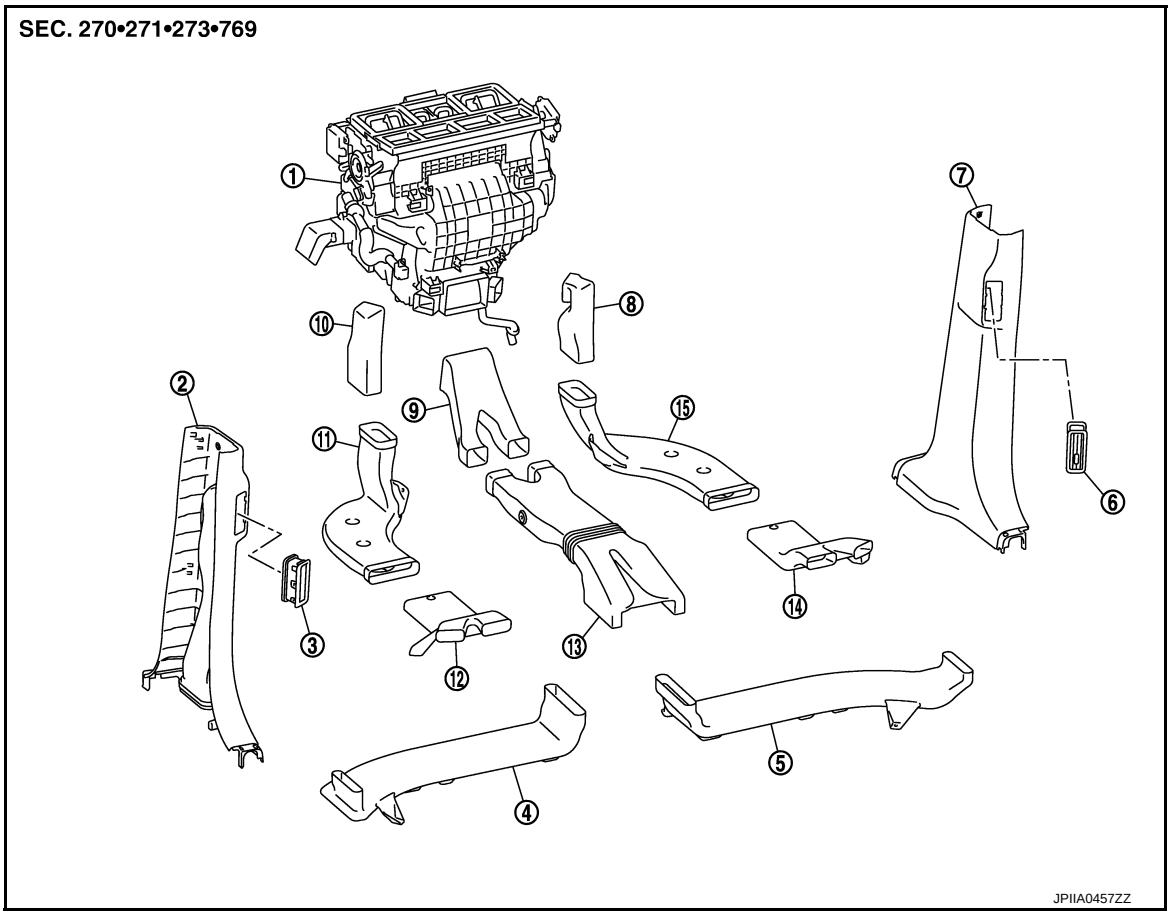
INSTALLATION

Install in the reverse order of removal.

REAR FOOT DUCT 2

REAR FOOT DUCT 2 : Exploded View

INFOID:0000000005517161



1. Heater & cooling unit assembly	2. Rear ventilator duct 4 (center pillar lower garnish left)	3. Rear ventilator grille (left)
4. Rear ventilator duct 3 (left)	5. Rear ventilator duct 3 (right)	6. Rear ventilator grille (right)
7. Rear ventilator duct 4 (center pillar lower garnish right)	8. Rear foot duct 1 (right)	9. Rear ventilator duct 1
10. Rear foot duct 1 (left)	11. Rear foot duct 2 (left)	12. Rear foot duct 3 (left)
13. Rear ventilator duct 2	14. Rear foot duct 3 (right)	15. Rear foot duct 2 (right)

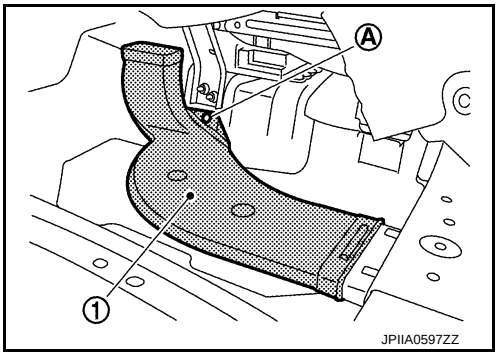
REAR FOOT DUCT 2 : Removal and Installation

INFOID:0000000005517162

REMOVAL

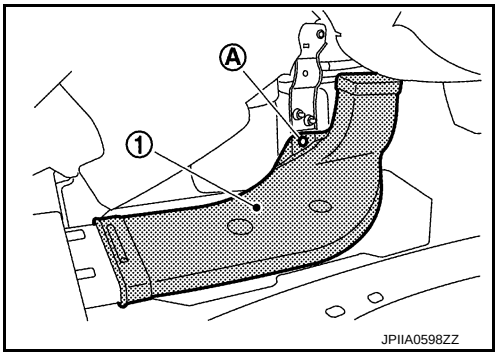
Driver side

1. Remove the rear foot duct 1 (left). Refer to VTL-61, "REAR FOOT DUCT 1 : Exploded View".
2. Pull up the driver side floor carpet. Refer to INT-24, "Exploded View".
3. Remove the mounting clip (A), and then remove the rear foot duct 2 (left) (1).



Passenger side

1. Remove the rear foot duct 1 (right). Refer to VTL-61, "REAR FOOT DUCT 1 : Exploded View".
2. Pull up the passenger side floor carpet. Refer to INT-24, "Exploded View".
3. Remove the mounting clip (A), and then remove the rear foot duct 2 (right) (1).



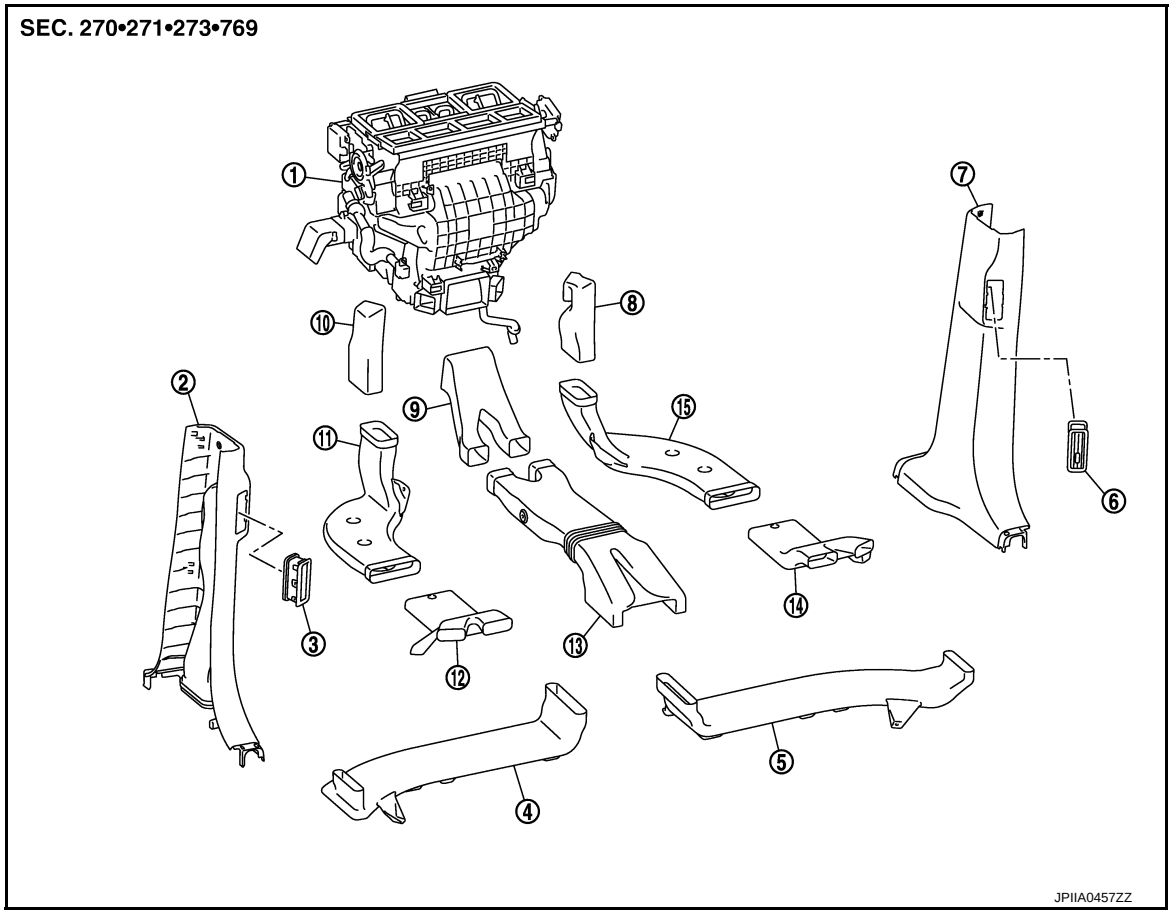
INSTALLATION

Install in the reverse order of removal.

REAR FOOT DUCT 3

REAR FOOT DUCT 3 : Exploded View

INFOID:0000000005517163



1.	Heater & cooling unit assembly	2.	Rear ventilator duct 4 (center pillar lower garnish left)	3.	Rear ventilator grille (left)
4.	Rear ventilator duct 3 (left)	5.	Rear ventilator duct 3 (right)	6.	Rear ventilator grille (right)
7.	Rear ventilator duct 4 (center pillar lower garnish right)	8.	Rear foot duct 1 (right)	9.	Rear ventilator duct 1
10.	Rear foot duct 1 (left)	11.	Rear foot duct 2 (left)	12.	Rear foot duct 3 (left)
13.	Rear ventilator duct 2	14.	Rear foot duct 3 (right)	15.	Rear foot duct 2 (right)

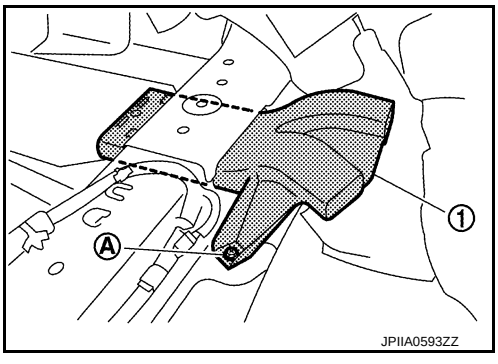
REAR FOOT DUCT 3 : Removal and Installation

INFOID:0000000005517164

REMOVAL

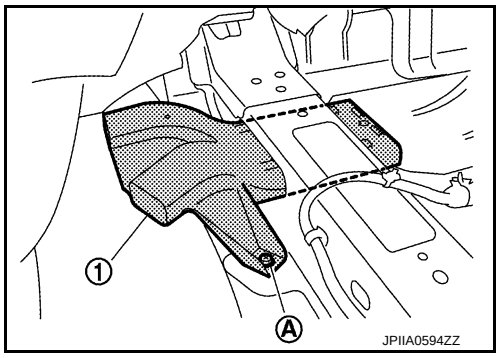
Driver side

1. Remove the rear foot duct 2 (left). Refer to VTL-62, "REAR FOOT DUCT 2 : Exploded View".
2. Remove the mounting screw (A), and then remove the rear foot duct 3 (left) (1).



Passenger side

1. Remove the rear foot duct 2 (right). Refer to VTL-62, "REAR FOOT DUCT 2 : Exploded View".
2. Remove the mounting screw (A), and then remove the rear foot duct 3 (right) (1).



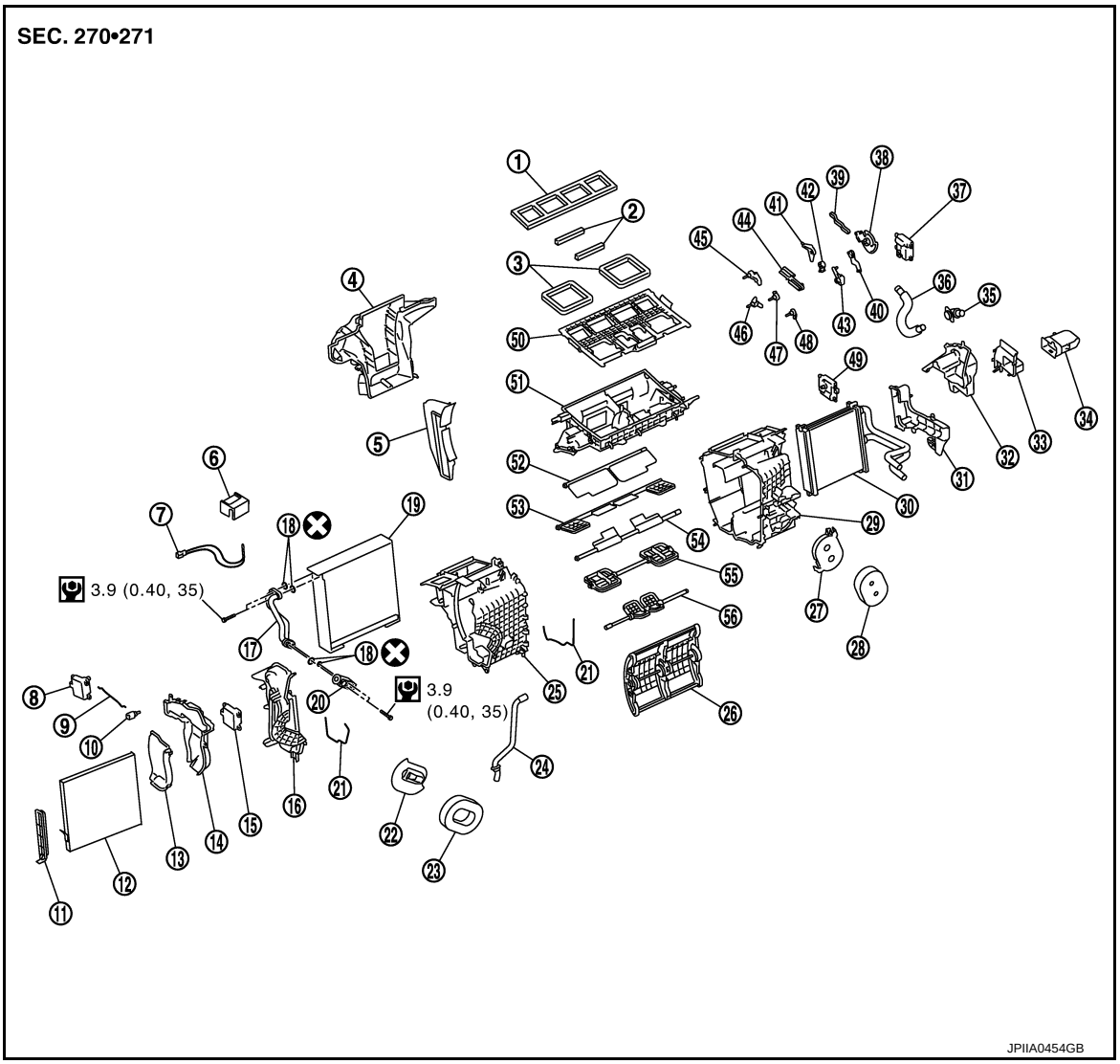
INSTALLATION

Install in the reverse order of removal.

HEATER DUCT

HEATER DUCT : Exploded View

INFOID:0000000005673882



1. Ventilator seal
2. Upper ventilator seal
3. Defroster seal
4. Adapter case
5. Center case
6. Intake sensor bracket
7. Intake sensor
8. Upper ventilator door motor
9. Upper ventilator door rod

10. Upper ventilator door lever
11. Filter cover
12. In-cabin microfilter/Air conditioner filter*
13. Foot duct 1 (right)
14. Foot duct 2 (right)
15. Air mix door motor (passenger side)
16. Heater & cooling unit case cover
17. Evaporator pipe assembly
18. O-ring
19. Evaporator
20. Expansion valve
21. Case packing
22. Grommet
23. Cooler pipe grommet
24. Drain hose
25. Heater & cooling unit case (right)
26. Air mix door (Slide door)
27. Heater pipe support
28. Heater pipe grommet
29. Heater & cooling unit case (left)
30. Heater core
31. Heater pipe cover
32. Foot duct 2 (left)
33. Foot duct 1 (left)
34. Heater duct
35. Aspirator
36. Aspirator hose
37. Mode door motor
38. Main link
39. Rod link
40. Max. cool door link
41. Ventilator door link
42. Foot door link
43. Mode door lever
44. Defroster door link
45. Ventilator door lever
46. Foot door lever
47. Defroster door lever
48. Max. cool door lever
49. Air mix door motor (driver side)
50. Distributor upper case
51. Distributor lower case
52. Ventilator door
53. Foot door
54. Max. cool door
55. Defroster door
56. Upper ventilator door

* : Models for Mexico.

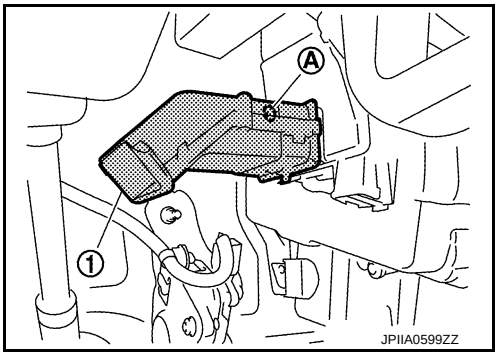
Refer to GI-4, "Components" for symbols in the figure.

HEATER DUCT : Removal and Installation

INFOID:0000000005517166

REMOVAL

1. Remove the instrument lower panel LH. Refer to IP-12, "Exploded View".
2. Remove the mounting screw (A), and then remove the heater duct (1).



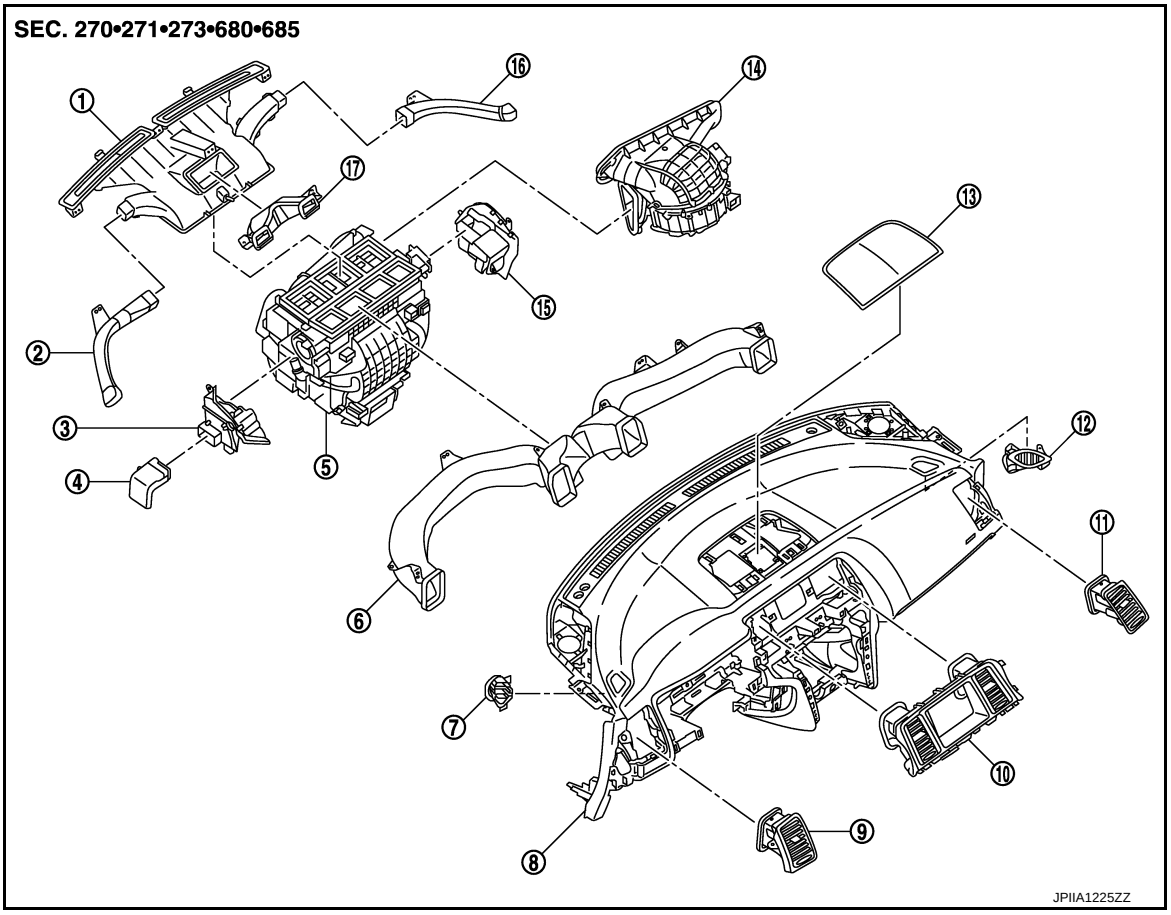
INSTALLATION

Install in the reverse order of removal.

FOOT DUCT

FOOT DUCT : Exploded View

INFOID:0000000005517167



1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

FOOT DUCT : Removal and Installation

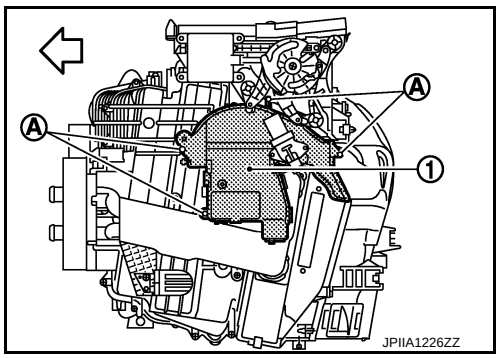
INFOID:0000000005517168

REMOVAL

Driver side

1. Remove instrument lower panel LH. Refer to IP-12, "Exploded View".
2. Remove mounting screws (A), and then remove foot duct (left) (1).

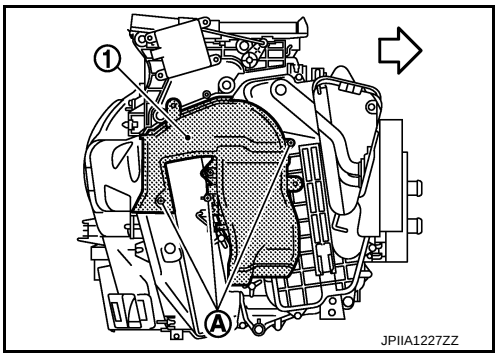
⇦ : Vehicle front



Passenger side

1. Remove blower unit assembly. Refer to VTL-30, "Exploded View".
2. Remove mounting screws (A) and harness clip, and then remove foot duct (right) (1).

⇦ : Vehicle front



INSTALLATION

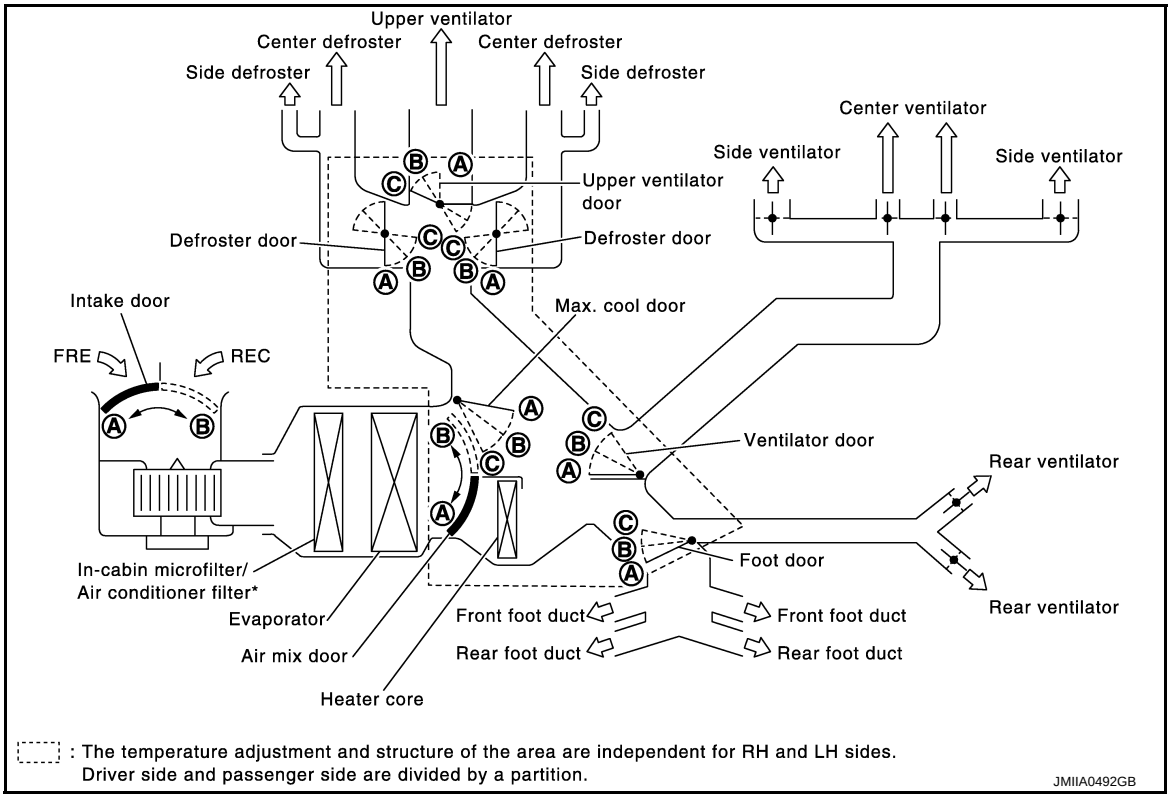
Installation is basically the reverse order of removal.

SYSTEM DESCRIPTION

SWITCHES AND THEIR CONTROL FUNCTION

System Description

INFOID:0000000005517169



* : Models for Mexico.

Switch position			Door position							
			Ventilator door	Max. cool door	Defroster door	Foot door	Upper ventilator door	Intake door	Air mix door (Driver side)	Air mix door (Passenger side)
AUTO switch	☀		AUTO						AUTO	
MODE switch	VENT		A	A	A	A				
	B/L		B	B	A	B				
	FOOT		C	B	B	C	—	—		
	D/F		C	B	B	B		B		
DEF switch		☀	C	C	C	A		B	—	—
UPPER VENT switch	ON	☀	—				A-B	—		
	OFF	○					C			
Intake switch	ON	☀	—	—	—	—	—	A*		
	OFF	○						B*		
Temperature control dial (Driver side)	DUAL switch: OFF	18.0°C (60°F)						—	A	
		18.5°C ⇔ 31.5°C (61°F ⇔ 89°F)							AUTO	
		32.0°C (90°F)							B	
Temperature control dial (Driver side)	DUAL switch: ON	18.0°C (60°F)							A	
		18.5°C ⇔ 31.5°C (61°F ⇔ 89°F)							AUTO	—
		32.0°C (90°F)							B	
Temperature control dial (Passenger side)		18.0°C (60°F)							—	A
		18.5°C ⇔ 31.5°C (61°F ⇔ 89°F)								AUTO
		32.0°C (90°F)								B
ON/OFF switch			C	C	B	C	—	B	—	—

*: Inlet status is displayed by indicator when activating automatic control.

AIR DISTRIBUTION

System Description

INFOID:0000000005517170

Discharge air flow							
Mode position indication	Condition	Air outlet/distribution					
		VENT			FOOT		DEF
		Front	Upper	Rear	Front	Rear	
	DUAL switch: OFF UPPER VENT switch : ON	81%	8%	11%	—	—	—
		41%	10%	17%	24%	8%	—
		12%	12%	16%	27%	10%	23%
		11%	11%	14%	25%	10%	29%
		11%	11%	12%	—	—	66%

JPIIA0509GB

Discharge air flow							
Mode position indication	Condition	Air outlet/distribution					
		VENT			FOOT		DEF
		Front	Upper	Rear	Front	Rear	
	DUAL switch: OFF UPPER VENT switch : OFF	88%	—	12%	—	—	—
		47%	—	18%	26%	9%	—
		13%	—	17%	33%	12%	25%
		12%	—	16%	28%	12%	32%
		11%	—	15%	—	—	74%

JPIIA0510GB

PRECAUTION

PRECAUTIONS

FOR USA AND CANADA

FOR USA AND CANADA : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:0000000005517171

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 “SRS AIR BAG” and “SEAT BELT” 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 “SRS AIR BAG”.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

FOR MEXICO

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

INFOID:0000000005674193

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the “SRS AIR BAG” and “SEAT BELT” 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 “SRS AIR BAG”.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s)**

with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:0000000005517173

NOTE:
- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.
If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

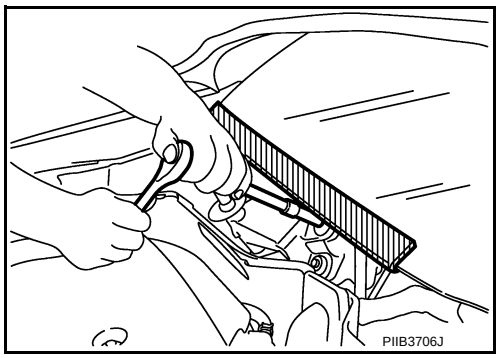
OPERATION PROCEDURE

1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Turn the push-button ignition switch to ACC position.
   (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

Precaution for Procedure without Cowl Top Cover

INFOID:0000000005517174

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



Precautions For Xenon Headlamp Service

INFOID:0000000005517175

WARNING:
Comply with the following warnings to prevent any serious accident.
- **Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.**
- **Never work with wet hands.**
- **Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)**
- **Never touch the bulb glass immediately after turning it OFF. It is extremely hot.**

CAUTION:

Comply with the following cautions to prevent any error and malfunction.
- **Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)**
- **Never perform HID circuit inspection with a tester.**
- **Never touch the xenon bulb glass with hands. Never put oil and grease on it.**
- **Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.**
- **Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).**

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

INFOID:0000000005517176

CAUTION:
- **CFC-12 (R-12) refrigerant and HFC-134a (R-134a) refrigerant are not compatible. Compressor malfunction is likely to occur if the refrigerants are mixed, refer to "CONTAMINATED REFRIGERANT" below. To determine the purity of HFC-134a (R-134a) in the vehicle and recovery tank, use Refrigerant Recovery/Recycling Recharging equipment and Refrigerant Identifier.**
- **Use only specified lubricant for the HFC-134a (R-134a) A/C system and HFC-134a (R-134a) components. Compressor malfunction is likely to occur if lubricant other than that specified is used.**
- **The specified HFC-134a (R-134a) lubricant rapidly absorbs moisture from the atmosphere. The following handling precautions must be observed:**
- **Immediately cap (seal) immediately the component to minimize the entry of moisture from the atmosphere when removing refrigerant components from a vehicle.**
- **Never remove the caps (unseal) until just before connecting the components when installing refrigerant components to a vehicle. Connect all refrigerant loop components as quickly as possible to minimize the entry of moisture into system.**
- **Use only the specified lubricant from a sealed container. Immediately reseal containers of lubricant. Lubricant becomes saturated with moisture and should not be used without proper sealing.**
- **Never allow lubricant (NISSAN A/C System Oil Type S) to come in to contact with styrene foam parts. Damage may result.**

CONTAMINATED REFRIGERANT

Take the appropriate steps shown below if a refrigerant other than pure HFC-134a (R-134a) is identified in a vehicle:
- Explain to the customer that environmental regulations prohibit the release of contaminated refrigerant into the atmosphere.
- Explain that recovery of the contaminated refrigerant could damage service equipment and refrigerant supply.
- Suggest the customer return the vehicle to the location of previous service where the contamination may have occurred.
- If repairing, recover the refrigerant using only **dedicated equipment and containers. Never reintroduce contaminated refrigerant into the existing service equipment.** Contact a local refrigerant product retailer for available service if the facility does not have dedicated recovery equipment. This refrigerant must be disposed of in accordance with all federal and local regulations. In addition, replacement of all refrigerant system components on the vehicle is recommended.
- The air conditioner warranty is void if the vehicle is within the warranty period. Please contact Nissan Customer Affairs for further assistance.

General Refrigerant Precaution

INFOID:0000000005517177

WARNING:
- **Never breathe A/C refrigerant and lubricant vapor or mist. Exposure may irritate eyes, nose or throat. Remove HFC-134a (R-134a) from the A/C system, using certified service equipment meeting requirements of SAE J-2210 [HFC-134a (R-134a) recycling equipment], or J-2209 [HFC-134a (R-134a) recovery equipment]. Ventilate the work area before resuming service if accidental system discharge occurs. Additional health and safety information may be obtained from refrigerant and lubricant manufacturers.**
- **Never release refrigerant into the air. Use approved recovery/recycling equipment to capture the refrigerant each time an air conditioning system is discharged.**
- **Always wear eye and hand protection (goggles and gloves) when working with any refrigerant or air conditioning system.**
- **Never store or heat refrigerant containers above 52°C (126°F).**
- **Never heat a refrigerant container with an open flame. Place the bottom of the container in a warm pail of water if container warming is required.**

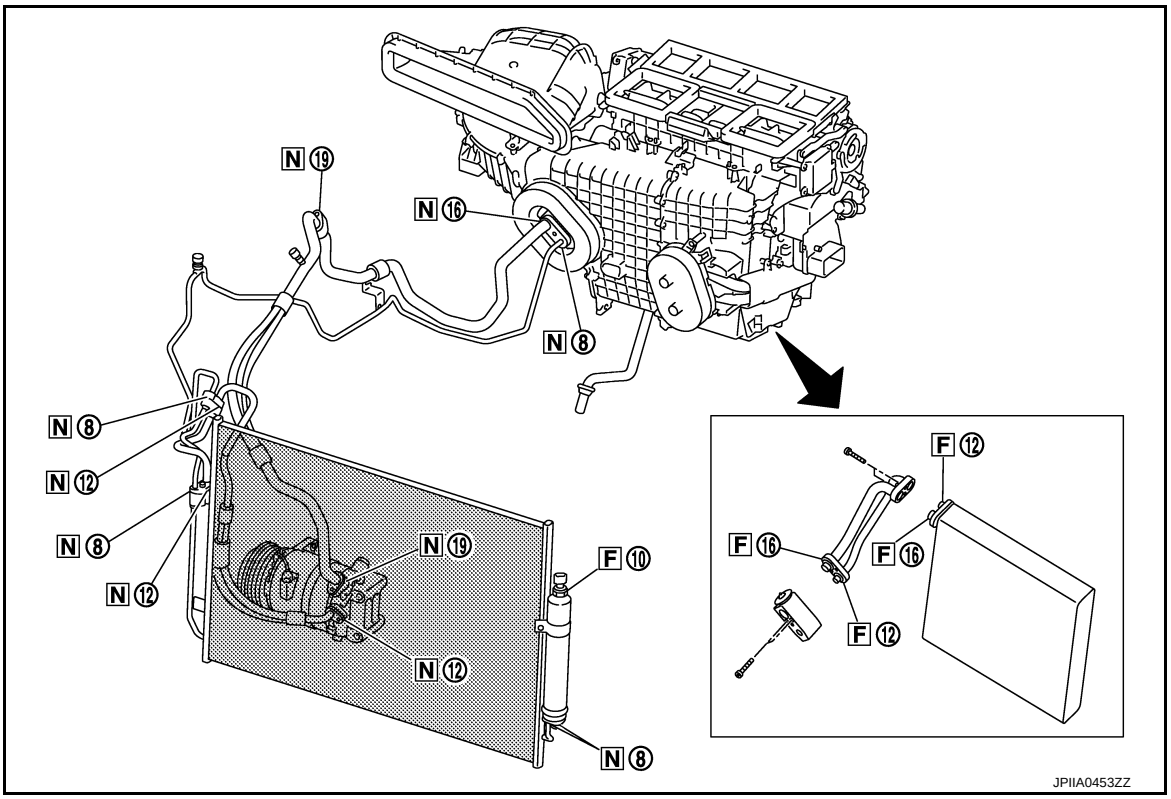
- **Never intentionally drop, puncture, or incinerate refrigerant containers.**
- **Keep refrigerant away from open flames. Poisonous gas is produced if refrigerant burns.**
- **Refrigerant displaces oxygen, therefore be certain to work in well ventilated areas to prevent suffocation.**
- **Never pressure test or leakage test HFC-134a (R-134a) service equipment and/or vehicle air conditioning systems with compressed air during repair. Some mixtures of air and HFC-134a (R-134a) have proven to be combustible at elevated pressures. These mixtures, if ignited, may cause injury or property damage. Additional health and safety information may be obtained from refrigerant manufacturers.**

Refrigerant Connection

INFOID:0000000005517178

A new type refrigerant connection has been introduced to all refrigerant lines except the following locations.
- Expansion valve to evaporator
- Refrigerant pressure sensor to liquid tank

O-RING AND REFRIGERANT CONNECTION



F. Former type refrigerant connection N. New type refrigerant connection

O: O-ring size

CAUTION:

The new and former refrigerant connections use different O-ring configurations. Never confuse O-rings since they are not interchangeable. Refrigerant may leak at the connection if an incorrect O-ring is installed.

O-Ring Part Numbers and Specifications

Connection type	Piping connection point		Part number	QTY	O-ring size
New	Low-pressure flexible hose to low-pressure pipe		92474 N8210	1	ϕ19
	High-pressure pipe to condenser pipe assembly (Outlet)		92471 N8210	1	ϕ8
	Condenser pipe assembly (Inlet) to high-pressure flexible hose (One-touch joint)		92472 N8210	1	ϕ12
	Condenser assembly to condenser pipe assembly	Inlet	92472 N8210	1	ϕ12
		Outlet	92471 N8210	1	ϕ8
	Low-pressure pipe to expansion valve		92473 N8210	1	ϕ16
	High-pressure pipe to expansion valve		92471 N8210	1	ϕ8
	Compressor to low-pressure flexible hose		92474 N8210	1	ϕ19
	Compressor to high-pressure flexible hose		92472 N8210	1	ϕ12
	Liquid tank to condenser assembly	Inlet	92471 N8210	1	ϕ8
		Outlet		1	
Former	Refrigerant pressure sensor to liquid tank		J2476 89956	1	ϕ10
	Expansion valve to evaporator pipe assembly	Inlet	92475 71L00	1	ϕ12
		Outlet	92475 72L00	1	ϕ16
	Evaporator to evaporator pipe assembly	Inlet	92475 71L00	1	ϕ12
		Outlet	92475 72L00	1	ϕ16

WARNING:

Check that all refrigerant is discharged into the recycling equipment and the pressure in the system is less than the atmospheric pressure. Then gradually loosen the discharge side hose fitting and remove it.

CAUTION:

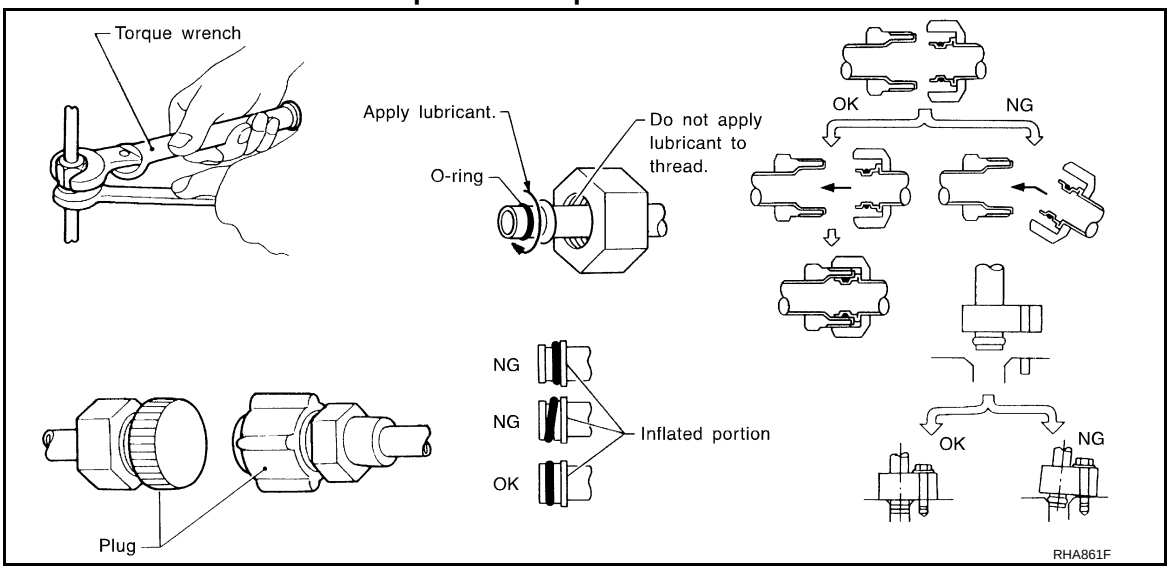
Observe the following items when replacing or cleaning refrigerant cycle components.

- **Store it in the same way as it is when mounted on the car when the compressor is removed. Failure to do so will cause lubricant to enter the low-pressure chamber.**
- **Always use a torque wrench and a back-up wrench when connecting tubes.**
- **Immediately plug all openings to prevent entry of dust and moisture after disconnecting tubes.**
- **Connect the pipes at the final stage of the operation when installing an air conditioner in the vehicle. Never remove the seal caps of pipes and other components until just before they are required for connection.**
- **Allow components stored in cool areas to warm to working area temperature before removing seal caps. This prevents condensation from forming inside A/C components.**
- **Thoroughly remove moisture from the refrigeration system before charging the refrigerant.**
- **Always replace used O-rings.**
- **Apply lubricant to the circle of the O-rings shown in illustration when a connecting tube. Never apply lubricant to threaded portion.**

Name : NISSAN A/C System Oil Type S

- **O-ring must be closely attached to the groove portion of tube.**
- **Never damage O-ring and tube when replacing the O-ring.**
- **Connect tube until a click can be heard. Then tighten the nut or bolt by hand. Check that the O-ring is installed to the tube correctly.**

- **Perform leakage test and check that there is no leakage from connections after connecting the line. Disconnect the line and replace the O-ring when the refrigerant leakage point is found. Then tighten the connections of seal seat to the specified torque.**



Service Equipment

INFOID:0000000005517179

RECOVERY/RECYCLING EQUIPMENT

Be certain to follow the manufacturer instructions for machine operation and machine maintenance. Never introduce any refrigerant other than that specified into the machine.

ELECTRICAL LEAK DETECTOR

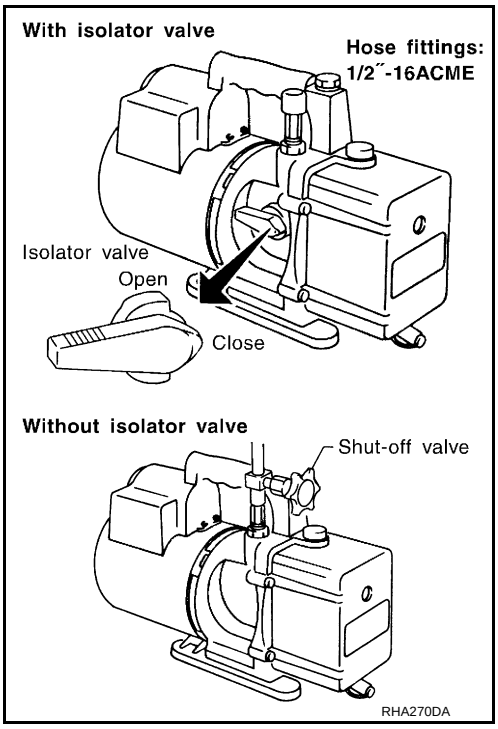
Be certain to follow the manufacturer instructions for tester operation and tester maintenance.

VACUUM PUMP

The lubricant contained inside the vacuum pump is not compatible with the specified lubricant for HFC-134a (R-134a) A/C systems. The vent side of the vacuum pump is exposed to atmospheric pressure. So the vacuum pump lubricant may migrate out of the pump into the service hose. This is possible when the pump is switched OFF after evacuation (vacuuming) and the hose is connected to it.
To prevent this migration, use a manual valve placed near the hose-to-pump connection, as per the following procedure.

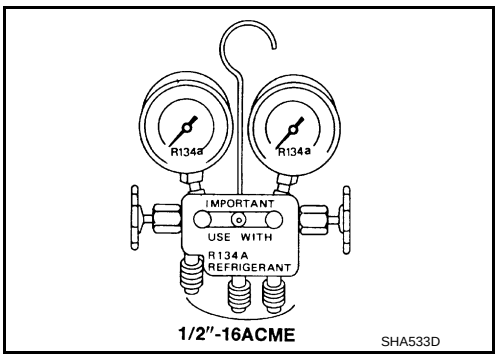
- Vacuum pumps usually have a manual isolator valve as part of the pump. Close this valve to isolate the service hose from the pump.
- Use a hose equipped with a manual shut-off valve near the pump end for pumps without an isolator. Close the valve to isolate the hose from the pump.
- Disconnect the hose from the pump if the hose has an automatic shut-off valve. As long as the hose is connected, the valve is open and lubricating oil may migrate.

Some one-way valves open when vacuum is applied and close under the no vacuum condition. Such valves may restrict the ability of the pump to create a deep vacuum and are not recommended.



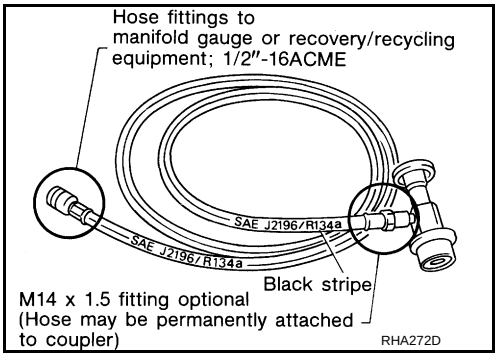
MANIFOLD GAUGE SET

Be certain that the gauge face indicates HFC-134a or R-134a. Be sure the gauge set has 1/2″-16 ACME threaded connections for service hoses. Confirm the set has been used only with refrigerant HFC-134a (R-134a) and specified lubricants.



SERVICE HOSES

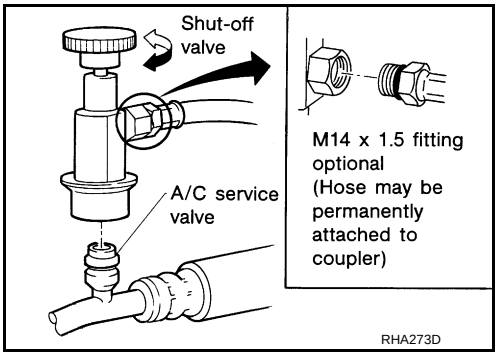
Be certain that the service hoses display the markings described (colored hose with a black stripe). All hoses must equip positive shut-off devices (either manual or automatic) near the end of the hoses opposite to the manifold gauge.



SERVICE COUPLERS

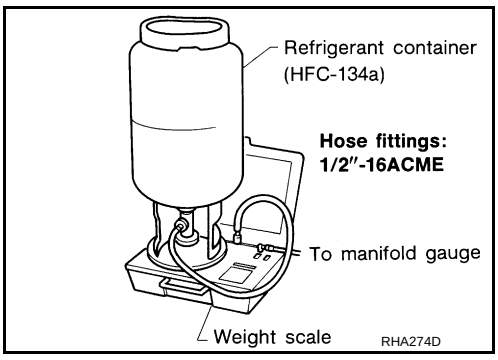
Never attempt to connect HFC-134a (R-134a) service couplers to a CFC-12 (R-12) A/C system. The HFC-134a (R-134a) couplers do not properly connect to the CFC-12 (R-12) system. However, if an improper connection is attempted, discharging and contamination may occur.

Shut-off valve rotation	A/C service valve
Clockwise	Open
Counterclockwise	Close



REFRIGERANT WEIGHT SCALE

Verify that no refrigerant other than HFC-134a (R-134a) and specified lubricants have been used with the scale. The hose fitting must be 1/2″-16 ACME if the scale controls refrigerant flow electronically.



CHARGING CYLINDER

Use of a charging cylinder is not recommended. Refrigerant may be vented into the air from the top valve of the cylinder when filling the cylinder with refrigerant. Also, the accuracy of the cylinder is generally less than that of an electronic scale or of quality recycle/recharge equipment.

COMPRESSOR

General Precautions

INFOID:0000000005517180

CAUTION:

- **Plug all openings to prevent moisture and foreign material from entering.**
- **Store it in the same way as it is when mounted on the car when the compressor is removed.**
- **Follow “Maintenance of Lubricant Quantity in Compressor” exactly when replacing or repairing compressor. Refer to HA-25, "Maintenance of Lubricant Quantity".**
- **Keep friction surfaces between clutch and pulley clean. Wipe it off by using a waste moistened with thinner if the surface is contaminated with lubricant.**
- **Turn the compressor shaft by hand more than five turns in both directions after compressor service operation. This equally distributes lubricant inside the compressor. Let the engine idle and operate the compressor for one hour after the compressor is installed.**
- **Apply voltage to the new compressor and check for normal operation after replacing the compressor magnet clutch.**

FLUORESCENT LEAK DETECTOR

General Precautions

INFOID:0000000005517181

CAUTION:

- **The A/C system contains a fluorescent leak detection dye used for locating refrigerant leakages. An ultraviolet (UV) lamp is required to illuminate the dye when inspecting for leakages.**
- **Always wear fluorescence enhancing UV safety goggles to protect eyes and enhance the visibility of the fluorescent dye.**
- **The fluorescent dye leak detector is not a replacement for an electrical leak detector (SST: J-41995). The fluorescent dye leak detector should be used in conjunction with an electrical leak detector (SST: J-41995) to pin-point refrigerant leakages.**
- **Read and follow all manufacturer operating instructions and precautions prior to performing work for safety and customer satisfaction.**
- **A compressor shaft seal should not necessarily be repaired because of dye seepage. The compressor shaft seal should only be repaired after confirming the leakage with an electrical leak detector (SST: J-41995).**
- **Always remove any remaining dye from the leakage area after repairs are completed to avoid a misdiagnosis during future service.**
- **Never allow dye to come into contact with painted body panels or interior components. Immediately clean with the approved dye cleaner if dye is spilled. Fluorescent dye left on a surface for an extended period of time cannot be removed.**
- **Never spray fluorescent dye cleaning agent on hot surfaces (engine exhaust manifold, etc.).**
- **Never use more than one refrigerant dye bottle [1/4 ounce (7.4 cc)] per A/C system.**
- **Leak detection dyes for HFC-134a (R-134a) and CFC-12 (R-12) A/C systems are different. Never use HFC-134a (R-134a) leak detection dye in CFC-12 (R-12) A/C system or CFC-12 (R-12) leak detection dye in HFC-134a (R-134a) A/C system, otherwise A/C system damage may result.**
- **The fluorescent properties of the dye remains for three or more years unless a compressor malfunction occurs.**

IDENTIFICATION

NOTE:

Vehicles with factory installed fluorescent dye have a green label.
Vehicles without factory installed fluorescent dye have a blue label.

IDENTIFICATION LABEL FOR VEHICLE

Vehicles with factory installed fluorescent dye have an identification label on the front side of hood.

PREPARATION

PREPARATION

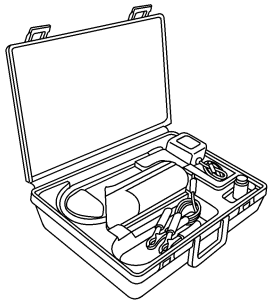
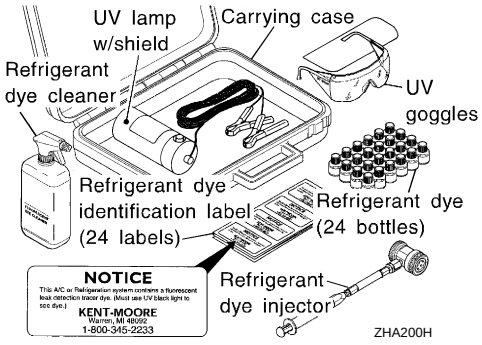
Special Service Tool

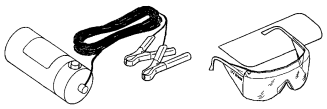
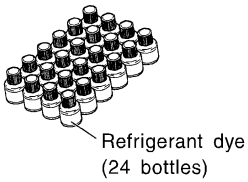
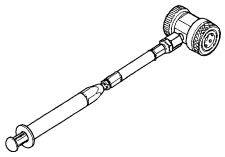
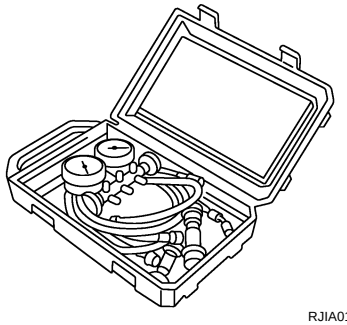
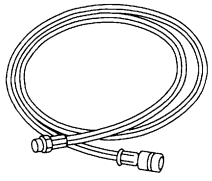
INFOID:0000000005517182

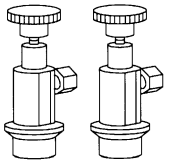
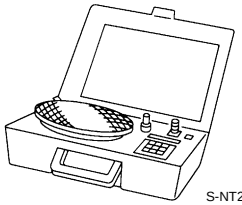
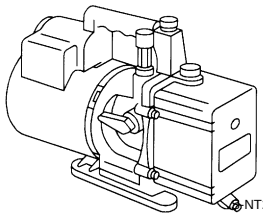
The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

HFC-134a (R-134a) Service Tool and Equipment

- Never mix HFC-134a (R-134a) refrigerant and/or its specified lubricant with CFC-12 (R-12) refrigerant and/or its lubricant.
- Separate and non-interchangeable service equipment must be used for handling each type of refrigerant/lubricant.
- Refrigerant container fittings, service hose fittings and service equipment fittings (equipment that handles refrigerant and/or lubricant) are different between CFC-12 (R-12) and HFC-134a (R-134a). This is to avoid mixed use of the refrigerants/lubricant.
- Never use adapters that convert one size fitting to another. Refrigerant/lubricant contamination occurs and compressor malfunction may result.

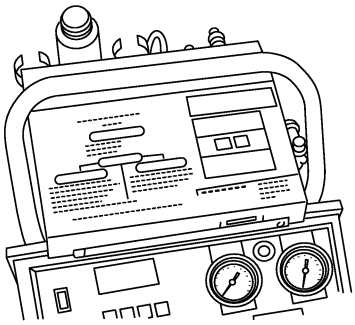
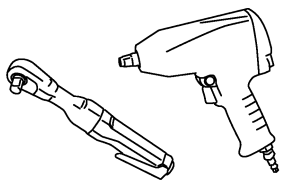
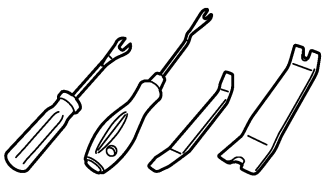
Tool number (Kent-Moore No.) Tool name		Description
(ACR2005-NI) ACR5 A/C Service Center	 WJIA0293E	Function: Refrigerant recovery, recycling and recharging
(J-41995) Electrical leak detector	 AHA281A	Power supply: DC 12 V (Battery terminal)
(J-43926) Refrigerant dye leak detection kit Kit includes: (J-42220) UV lamp and UV safety goggles (J-41459) HFC-134a (R-134a) dye injector Use with J-41447, 1/4 ounce bottle (J-41447) HFC-134a (R-134a) fluorescent leak detection dye (Box of 24, 1/4 ounce bottles) (J-43872) Refrigerant dye cleaner	 ZHA200H	Power supply: DC 12 V (Battery terminal)

Tool number (Kent-Moore No.) Tool name		Description
(J-42220) UV lamp and UV safety goggles	 SHA438F	Power supply: DC 12 V (Battery terminal) For checking refrigerant leakage when fluorescent dye is equipped in A/C system Includes: UV lamp and UV safety goggles
(J-41447) HFC-134a (R-134a) fluorescent leak detection dye (Box of 24, 1/4 ounce bottles)	 Refrigerant dye (24 bottles) SHA439F	Application: For HFC-134a (R-134a) PAG oil Container: 1/4 ounce (7.4 cc) bottle (Includes self-adhesive dye identification labels for affixing to vehicle after charging system with dye.)
(J-41459) HFC-134a (R-134a) dye injector Use with J-41447, 1/4 ounce bottle	 SHA440F	For injecting 1/4 ounce of fluorescent leak detection dye into A/C system
(J-43872) Refrigerant dye cleaner	 SHA441F	For cleaning dye spills
(J-39183) Manifold gauge set (with hoses and couplers)	 RJIA0196E	Identification: • The gauge face indicates HFC-134a (R-134a). Fitting size: Thread size • 1/2″-16 ACME
Service hoses • High-pressure side hose (J-39501-72) • Low-pressure side hose (J-39502-72) • Utility hose (J-39476-72)	 S-NT201	Hose color: • Low-pressure side hose: Blue with black stripe • High-pressure side hose: Red with black stripe • Utility hose: Yellow with black stripe or green with black stripe Hose fitting to gauge: • 1/2″-16 ACME

Tool number (Kent-Moore No.) Tool name		Description
Service couplers • High-pressure side coupler (J-39500-20) • Low-pressure side coupler (J-39500-24)	 S-NT202	Hose fitting to service hose: M14 x 1.5 fitting is optional or permanently attached.
(J-39650) Refrigerant weight scale	 S-NT200	For measuring of refrigerant Fitting size: Thread size 1/2″-16 ACME
(J-39649) Vacuum pump (Including the isolator valve)	 S-NT203	Capacity: • Air displacement: 4 CFM • Micron rating: 20 microns • Oil capacity: 482 g (17 oz.) Fitting size: Thread size • 1/2″-16 ACME

Commercial Service Tool

INFOID:0000000005517183

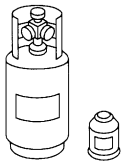
Tool name		Description
Refrigerant identifier equipment	 RJIA0197E	Checking for refrigerant purity and system contamination
Power tools	 PBIC0190E	For loosening bolts and nuts
Remover tools	 JMKIA3050ZZ	Remove clips, pawls, and metal clips

Sealant or/and Lubricant

INFOID:0000000005517184

HFC-134a (R-134a) Service Tool and Equipment

- Never mix HFC-134a (R-134a) refrigerant and/or its specified lubricant with CFC-12 (R-12) refrigerant and/or its lubricant.
- Separate and non-interchangeable service equipment must be used for handling each type of refrigerant/lubricant.
- Refrigerant container fittings, service hose fittings and service equipment fittings (equipment that handles refrigerant and/or lubricant) are different between CFC-12 (R-12) and HFC-134a (R-134a). This is to avoid mixed use of the refrigerants/lubricant.
- Never use adapters that convert one size fitting to another. Refrigerant/lubricant contamination occurs and compressor malfunction may result.

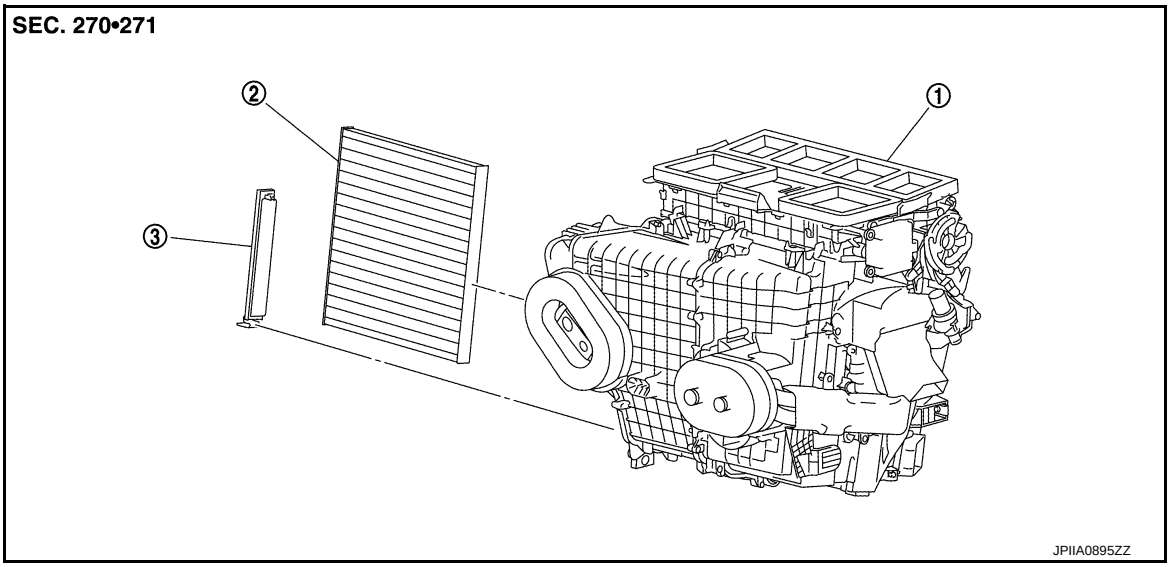
Tool name	Description
HFC-134a (R-134a) refrigerant  S-NT196	Container color: Light blue Container marking: HFC-134a (R-134a) Fitting size: Thread size • Large container 1/2″-16 ACME
NISSAN A/C System Oil Type S (DH-PS)  S-NT197	Type: Polyalkylene glycol oil (PAG), type S (DH-PS) Application: HFC-134a (R-134a) swash plate compressors (NISSAN only) Capacity: 40 m ℓ (1.4 US fl oz., 1.4 Imp fl oz.)

PERIODIC MAINTENANCE

IN-CABIN MICROFILTER

Exploded View

INFOID:0000000005517185



1. Heater & cooling unit assembly
2. In-cabin microfilter/Air conditioner filter*
3. Filter cover

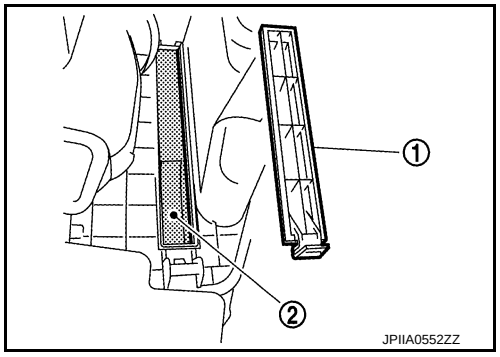
* : Models for Mexico.

Removal and Installation

INFOID:0000000005517186

REMOVAL

1. Remove the filter cover (1), and then remove the in-cabin microfilter/air conditioner filter (2).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **If the filter is deformed/damaged when removing, replace it with a new one. Deformed/damaged filtermay deteriorate the dust collecting performance.**
- **When installing, handle the filter with extreme care to avoid deforming/damaging.**

Replacement

INFOID:0000000005517187

Replace in-cabin microfilter/air conditioner filter.
For NORTH AMERICA : Refer to MA-8, "FOR NORTH AMERICA : Schedule 1" and MA-10, "FOR NORTH AMERICA : Schedule 2".
For MEXICO : Refer to MA-11, "FOR MEXICO : Periodic Maintenance".
Affix a caution label inside the glove box when replacing filter.

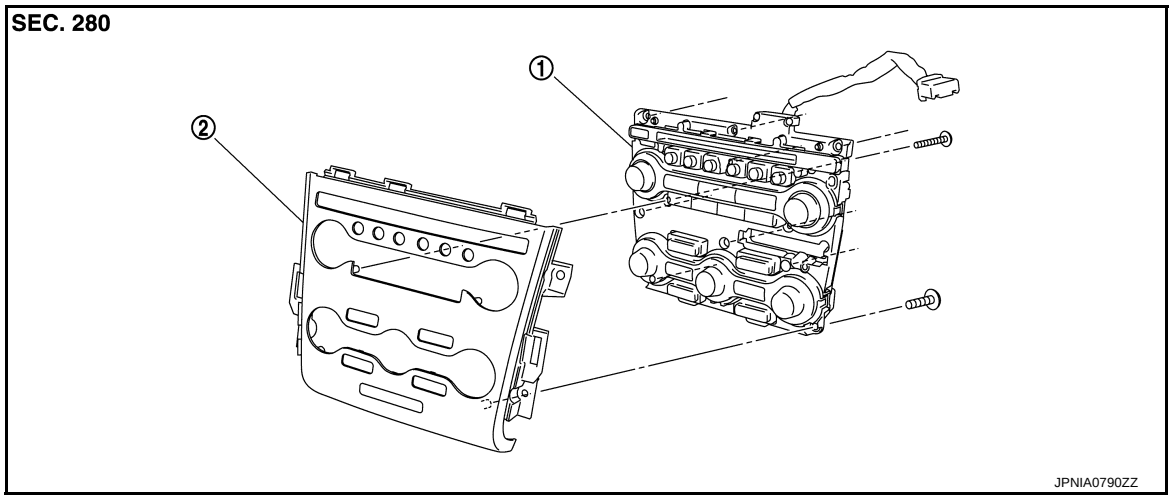
REMOVAL AND INSTALLATION

PRESET SWITCH

Exploded View

INFOID:0000000005517188

DISASSEMBLY



1. Preset switch
2. Cluster lid C

Removal and Installation

INFOID:0000000005517189

REMOVAL

Remove the preset switch. Refer to AV-547, "Exploded View" (Bose audio without navigation) or AV-797, "Exploded View" (Bose audio with navigation).

INSTALLATION

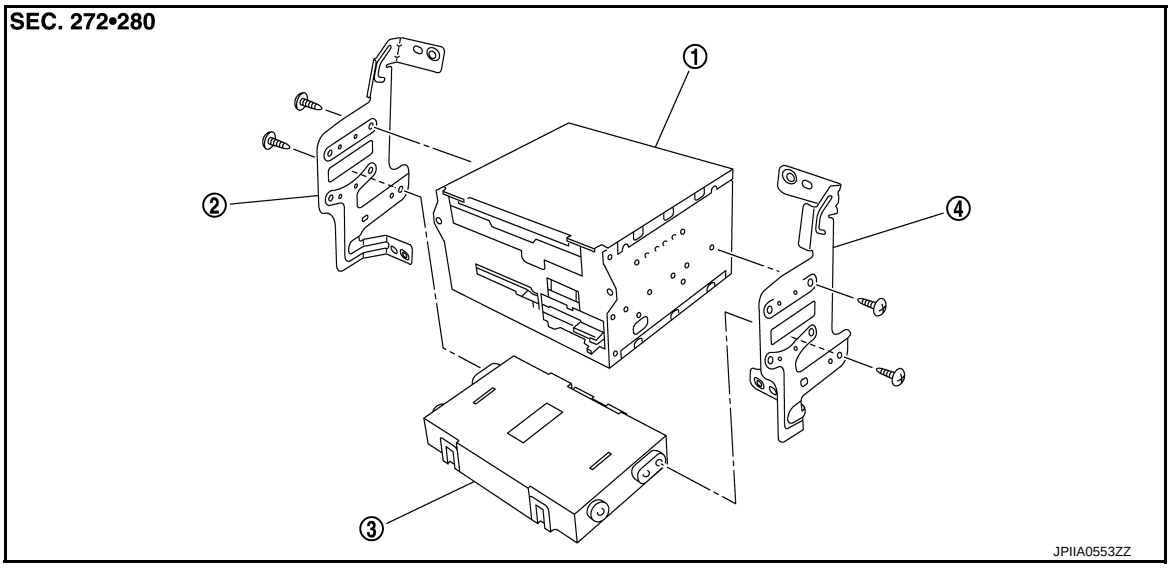
Install in the reverse order of removal.

A/C AUTO AMP.

Exploded View

INFOID:0000000005517190

DISASSEMBLY



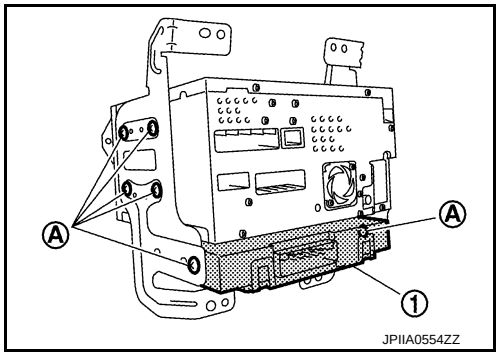
1. AV control unit
2. Bracket (LH)
3. A/C auto amp.
4. Bracket (RH)

Removal and Installation

INFOID:0000000005517191

REMOVAL

1. Remove the AV control unit. Refer to AV-787, "Exploded View".
2. Remove the mounting screws (A), and then remove the A/C auto amp. (1).



INSTALLATION

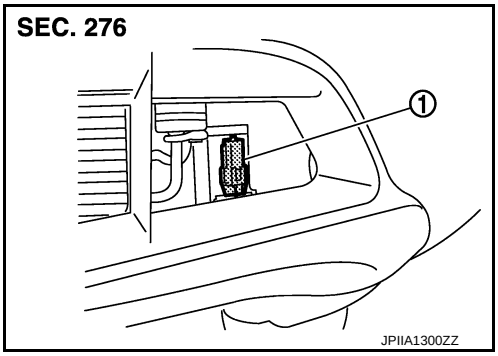
Install in the reverse order of removal.

AMBIENT SENSOR

Exploded View

INFOID:0000000005517192

1. Ambient sensor

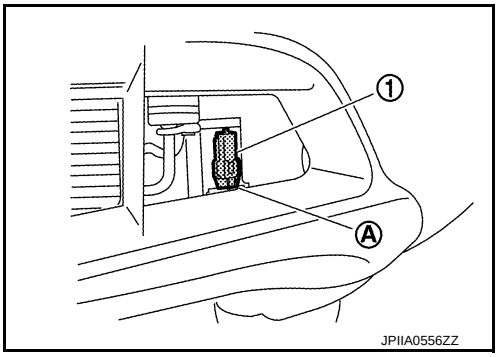


Removal and Installation

INFOID:0000000005517193

REMOVAL

1. Disconnect the ambient sensor connector (A), and then remove the ambient sensor (1).



INSTALLATION

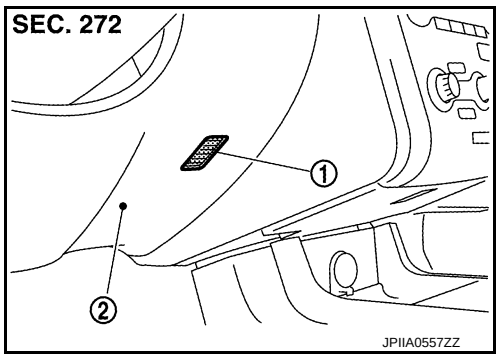
Install in the reverse order of removal.

IN-VEHICLE SENSOR

Exploded View

INFOID:0000000005517194

1. In-vehicle sensor
2. Instrument lower panel LH

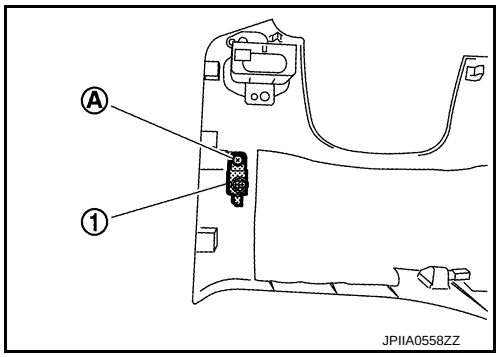


Removal and Installation

INFOID:0000000005517195

REMOVAL

1. Remove the instrument lower panel LH. Refer to IP-12, "Exploded View".
2. Remove the mounting screw (A), and then remove the in-vehicle sensor (1).



INSTALLATION

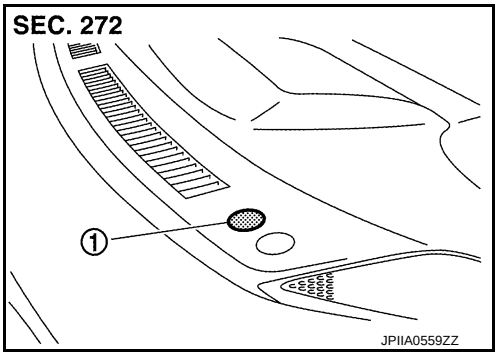
Install in the reverse order of removal.

SUNLOAD SENSOR

Exploded View

INFOID:0000000005517196

1. Sunload sensor

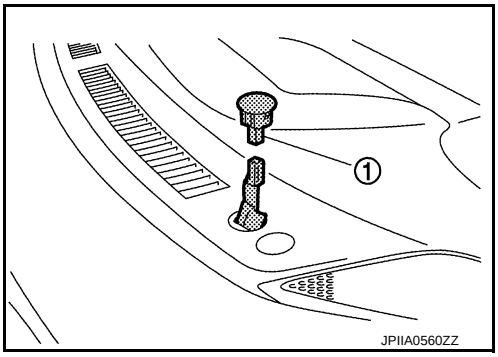


Removal and Installation

INFOID:0000000005517197

REMOVAL

1. Disconnect the sunload sensor connector, and then remove the sunload sensor (1).



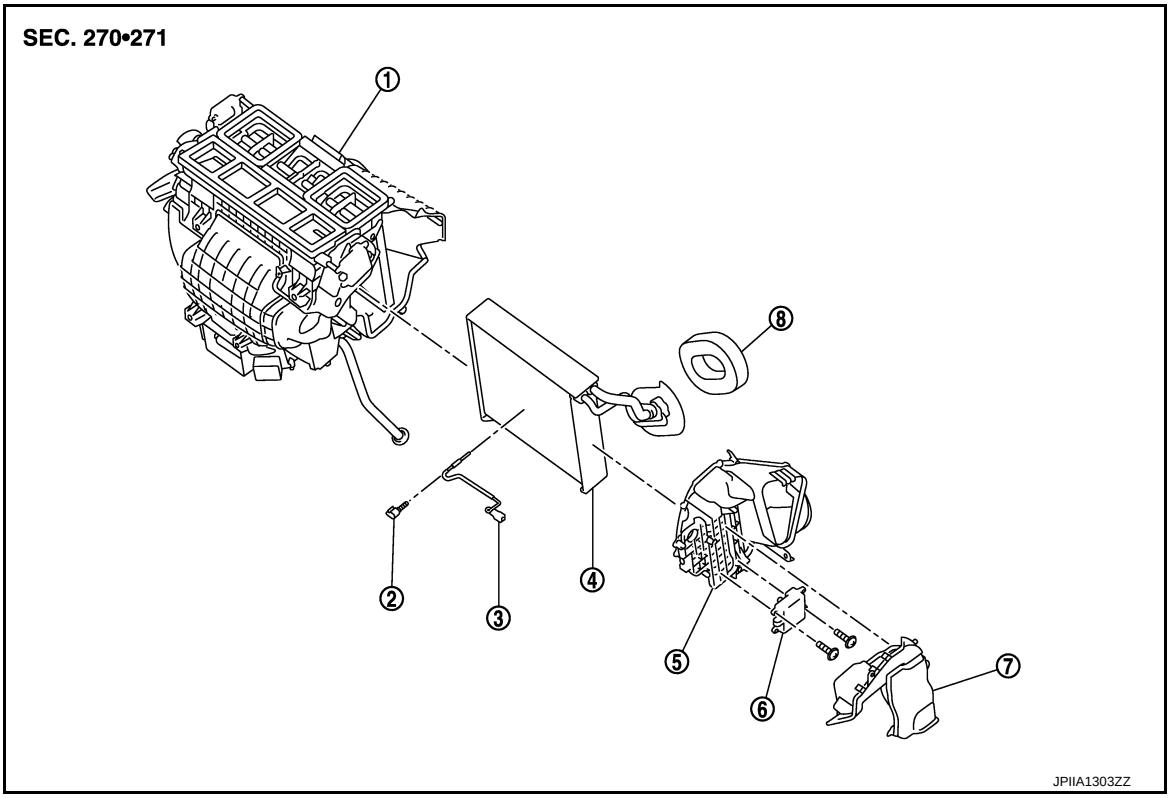
INSTALLATION

Install in the reverse order of removal.

INTAKE SENSOR

Exploded View

INFOID:0000000005517198



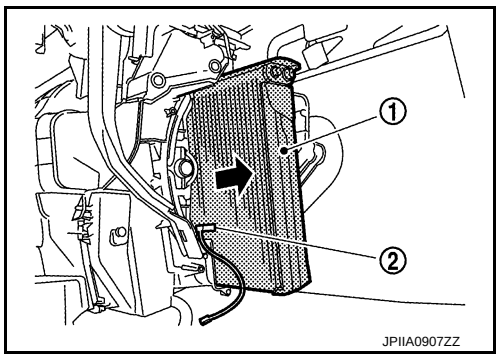
1. Heater & cooling unit assembly
2. Intake sensor bracket
3. Intake sensor
4. Evaporator assembly
5. Evaporator cover
6. Air mix door motor (passenger side)
7. Foot duct (right)
8. Cooler pipe grommet

Removal and Installation

INFOID:0000000005517199

REMOVAL

1. Remove the evaporator pipe assembly. Refer to VTL-98, "Exploded View".
2. Slide the evaporator (1) toward the right side of the vehicle, and then remove the intake sensor (2).



INSTALLATION

Note the following, and install in the reverse order of removal.

CAUTION:

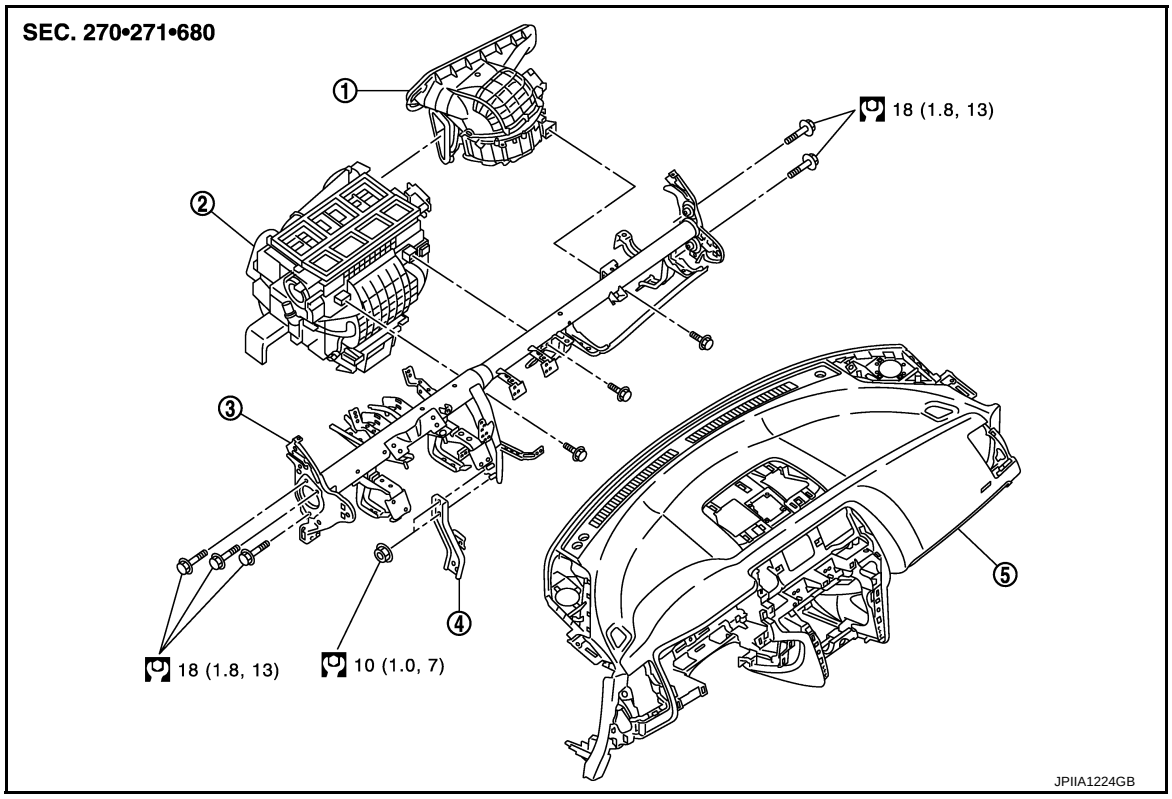
- **Replace the O-ring with a new one. Apply a coat of compressor oil to the O-ring prior to installation.**
- **Install the intake sensor in the same position as the removed intake sensor when replacing the intake sensor.**
- **Do not rotate the bracket insertion part when removing and installing the intake sensor.**
- **Check for refrigerant leakage when charging refrigerant.**

BLOWER UNIT

Exploded View

INFOID:0000000005517200

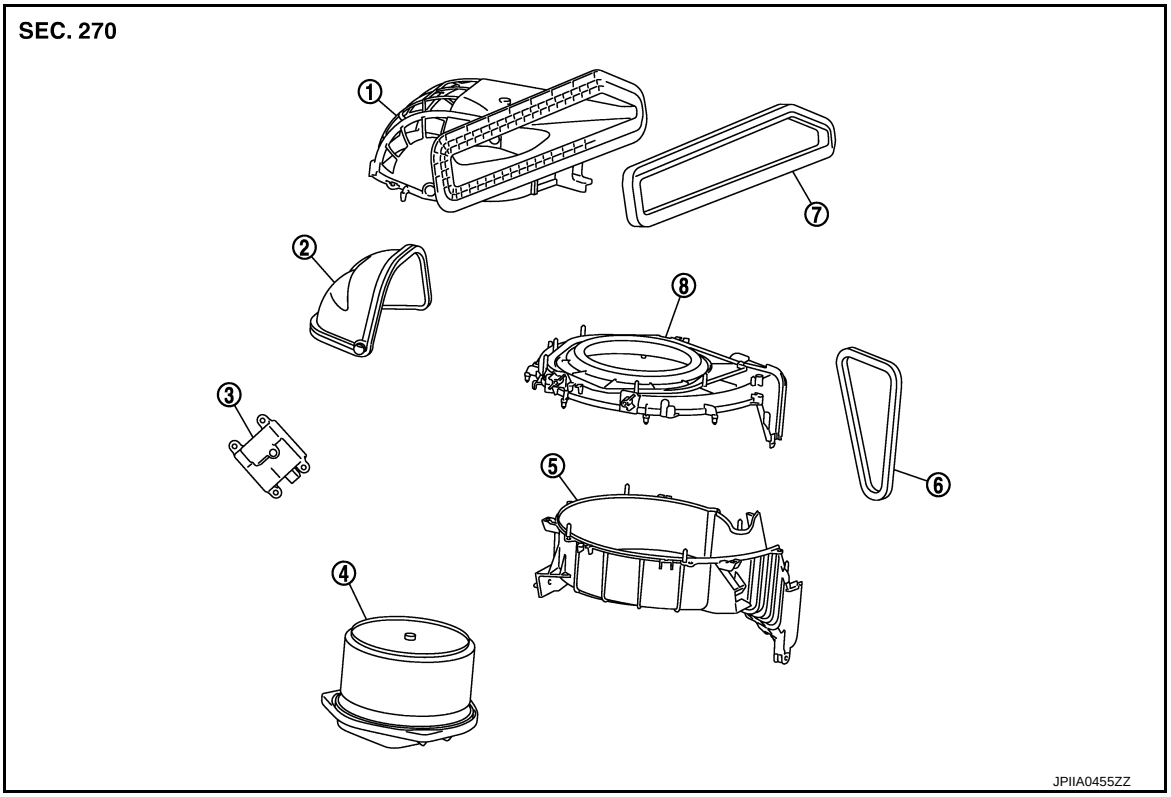
REMOVAL



1. Blower unit assembly
2. Heater & cooling unit assembly
3. Steering member
4. Instrument stay
5. Instrument panel assembly

Refer to GI-4, "Components" for symbols in the figure.

DISASSEMBLY



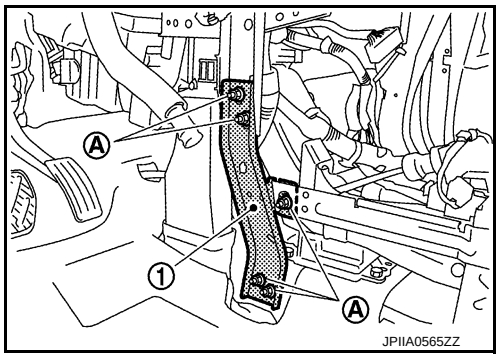
1. Shutter box case
2. Intake door
3. Intake door motor
4. Blower motor assembly
5. Intake lower case
6. Outlet seal
7. Intake seal
8. Intake upper case

Removal and Installation

INFOID:0000000005517201

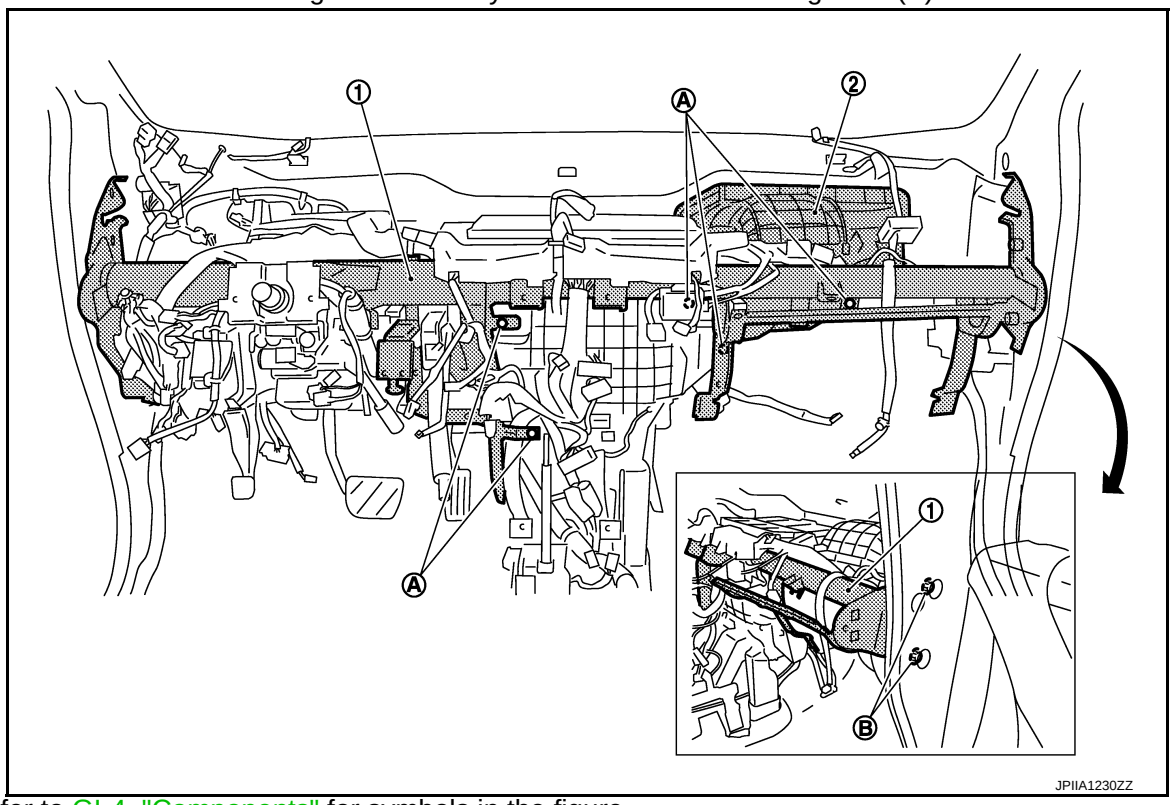
REMOVAL

1. Remove the instrument panel assembly. Refer to IP-12, "Exploded View".
2. Remove the mounting nuts (A), and then remove the instrument panel stay (1).



3. Disconnect the intake door motor and blower motor connectors.

4. Remove the heater & cooling unit assembly and blower unit mounting bolts (A).



Refer to GI-4, "Components" for symbols in the figure.

5. Remove the steering member mounting bolts (B) (right).
6. And remove the blower unit (2) while pulling the steering member (1) to the front.

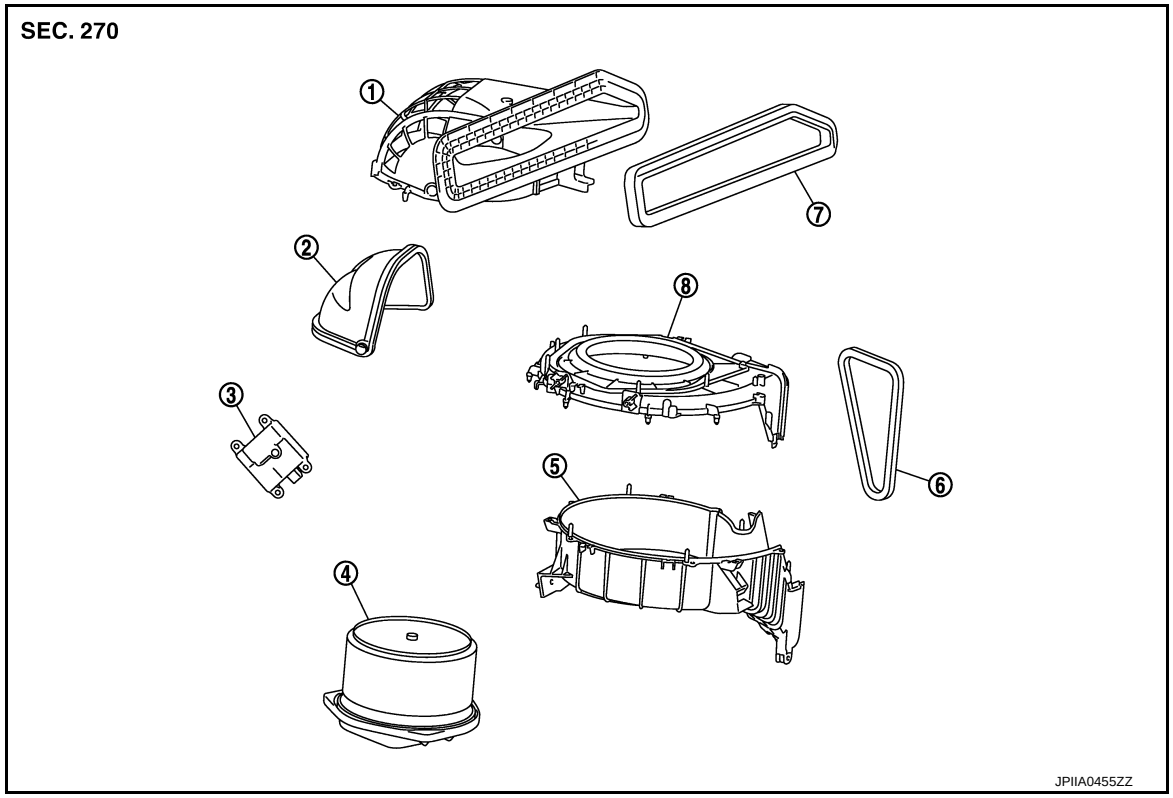
INSTALLATION

Install in the reverse order of removal.

BLOWER MOTOR

Exploded View

INFOID:0000000005517202



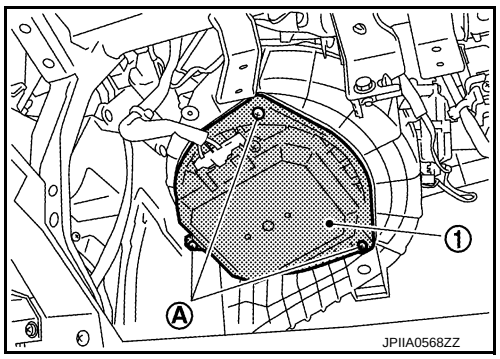
1. Shutter box case
2. Intake door
3. Intake door motor
4. Blower motor assembly
5. Intake lower case
6. Outlet seal
7. Intake seal
8. Intake upper case

Removal and Installation

INFOID:0000000005517203

REMOVAL

1. Remove instrument lower panel RH. Refer to IP-12, "Exploded View".
2. Disconnect the blower motor connector.
3. Remove the mounting screws (A), and then remove the blower motor (1).



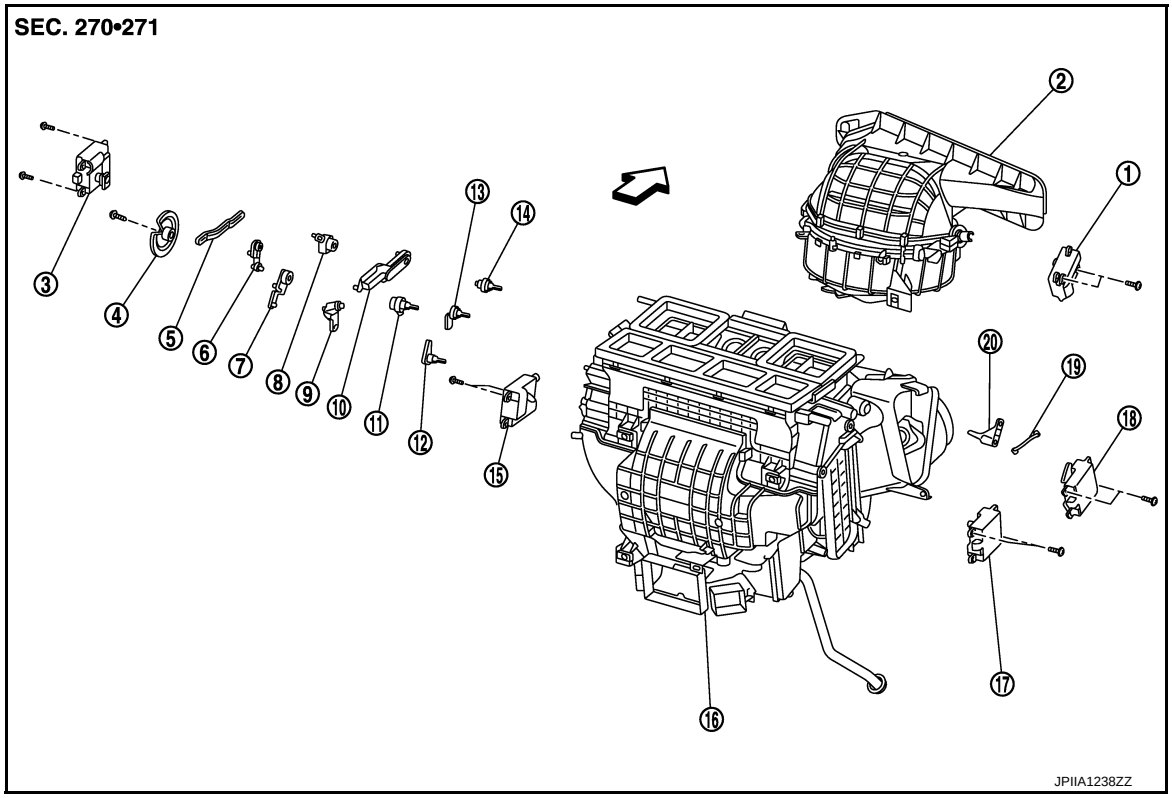
INSTALLATION

Install in the reverse order of removal.

INTAKE DOOR MOTOR

Exploded View

INFOID:0000000005517204



1. Intake door motor
2. Bower unit assembly
3. Mode door motor
4. Main link
5. Rod link
6. Max. cool door link
7. Max. cool door link
8. Mode door lever
9. Ventilator door link
10. Defroster door link
11. Ventilator door lever
12. Foot door lever
13. Max. cool door lever
14. Defroster door lever
15. Air mix door motor (driver side)
16. Heater & cooling unit assembly
17. Air mix door motor (passenger side)
18. Upper ventilator door motor
19. Upper ventilator door rod
20. Upper ventilator door lever

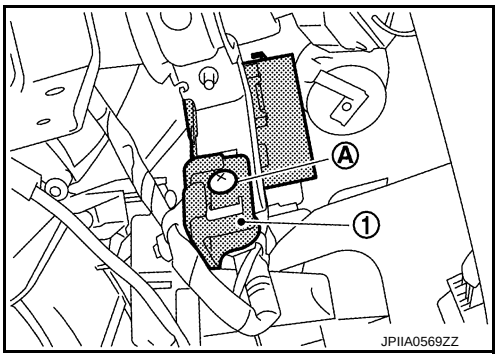
⇦ : Vehicle front

Removal and Installation

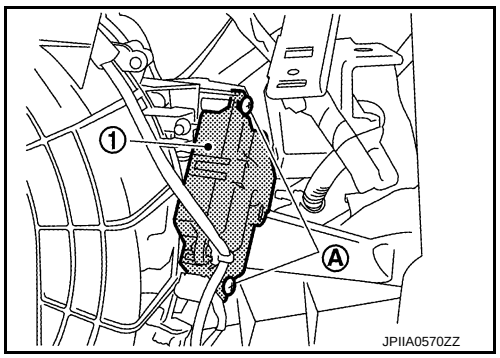
INFOID:0000000005517205

REMOVAL

1. Remove instrument lower panel RH. Refer to IP-12, "Exploded View".
2. Remove the mounting screw (A), and then move the key less controller assembly bracket (1) to a position where it does not inhibit work.



3. Remove the mounting screws (A), and then remove the intake door motor (1).
4. Disconnect the intake door motor connector.



INSTALLATION

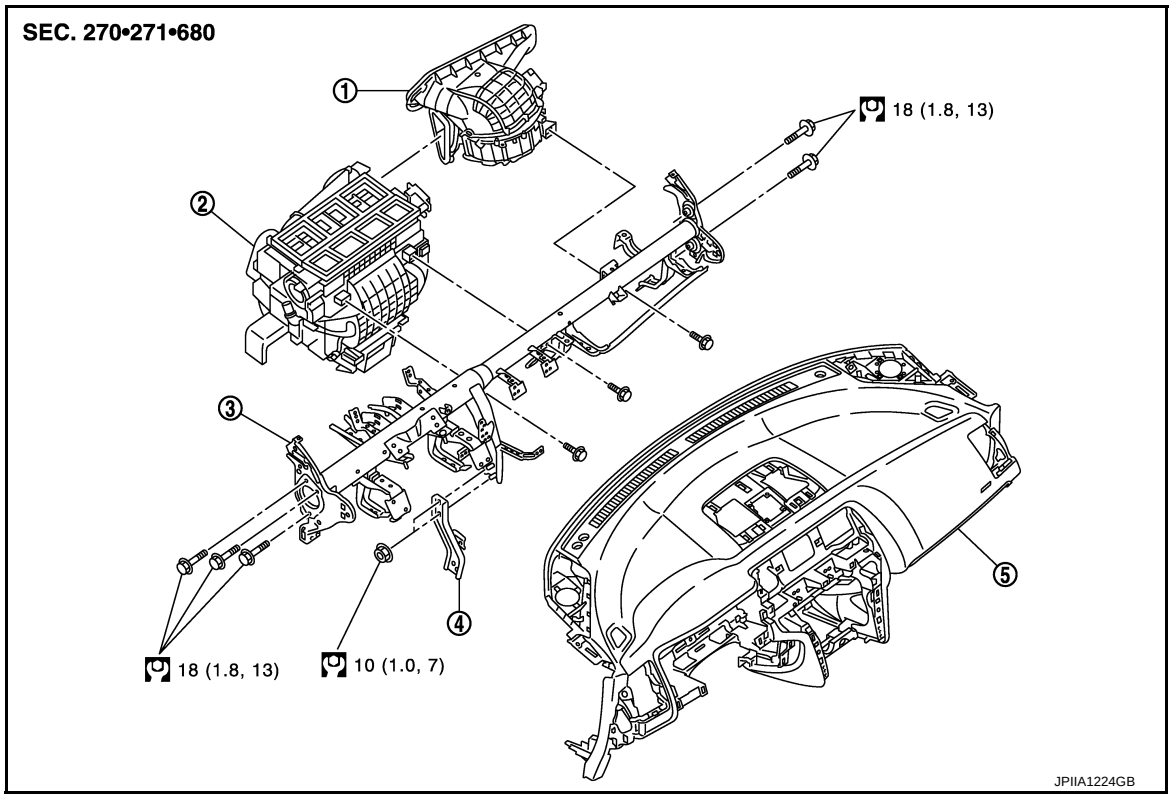
Install in the reverse order of removal.

HEATER & COOLING UNIT ASSEMBLY

Exploded View

INFOID:0000000005517206

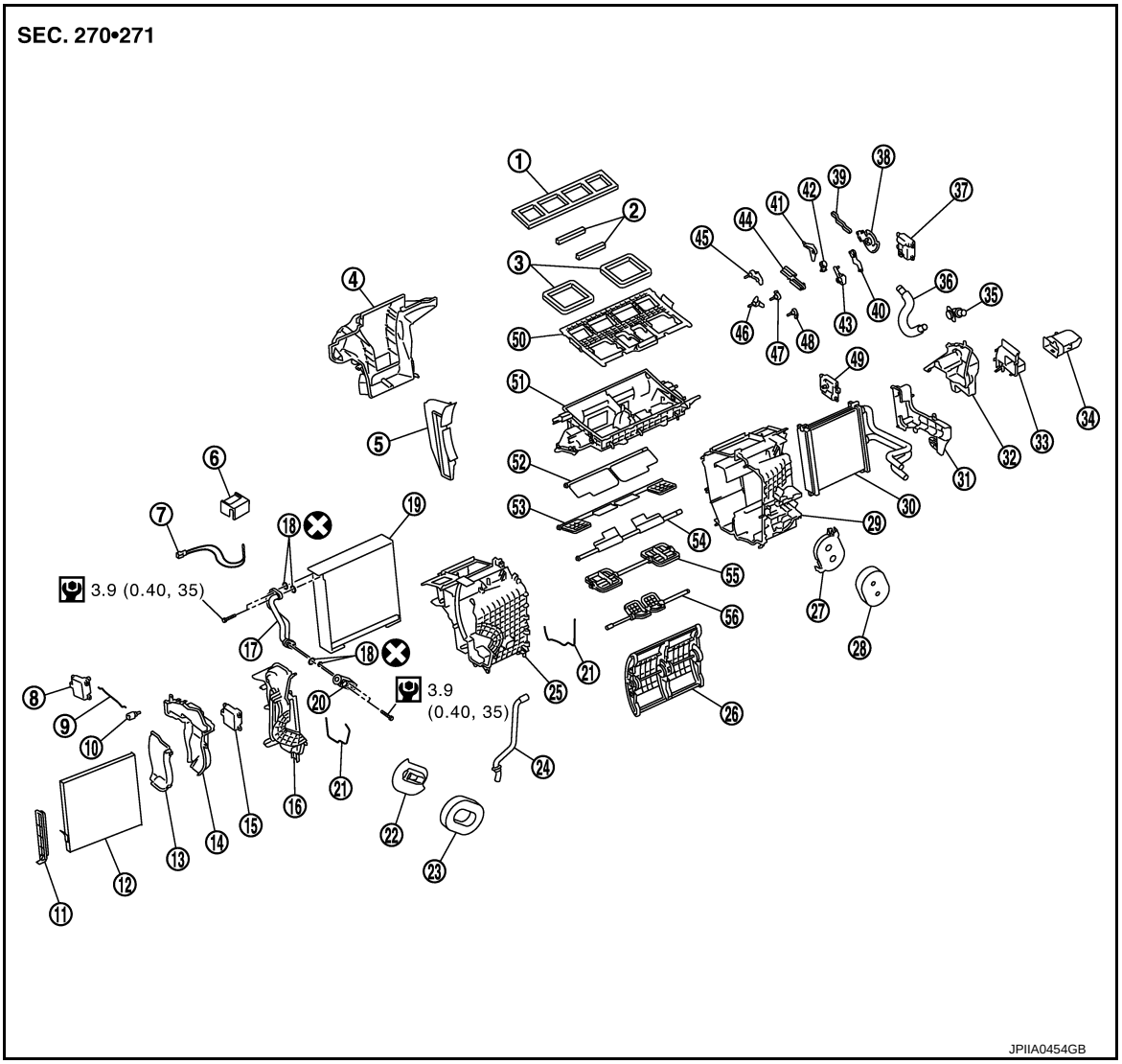
REMOVAL



1. Blower unit assembly
2. Heater & cooling unit assembly
3. Steering member
4. Instrument stay
5. Instrument panel assembly

Refer to GI-4, "Components" for symbols in the figure.

DISASSEMBLY



1. Ventilator seal
2. Upper ventilator seal
3. Defroster seal
4. Adapter case
5. Center case
6. Intake sensor bracket
7. Intake sensor
8. Upper ventilator door motor
9. Upper ventilator door rod
10. Upper ventilator door lever
11. Filter cover
12. In-cabin microfilter/Air conditioner filter*
13. Foot duct 1 (right)
14. Foot duct 2 (right)
15. Air mix door motor (passenger side)
16. Heater & cooling unit case cover
17. Evaporator pipe assembly
18. O-ring
19. Evaporator
20. Expansion valve
21. Case packing
22. Grommet
23. Cooler pipe grommet
24. Drain hose
25. Heater & cooling unit case (right)
26. Air mix door (Slide door)
27. Heater pipe support
28. Heater pipe grommet
29. Heater & cooling unit case (left)
30. Heater core
31. Heater pipe cover
32. Foot duct 2 (left)
33. Foot duct 1 (left)
34. Heater duct
35. Aspirator
36. Aspirator hose
37. Mode door motor
38. Main link
39. Rod link
40. Max. cool door link
41. Ventilator door link
42. Foot door link
43. Mode door lever
44. Defroster door link
45. Ventilator door lever
46. Foot door lever
47. Defroster door lever
48. Max. cool door lever
49. Air mix door motor (driver side)
50. Distributor upper case
51. Distributor lower case
52. Ventilator door
53. Foot door
54. Max. cool door
55. Defroster door
56. Upper ventilator door

* : Models for Mexico.

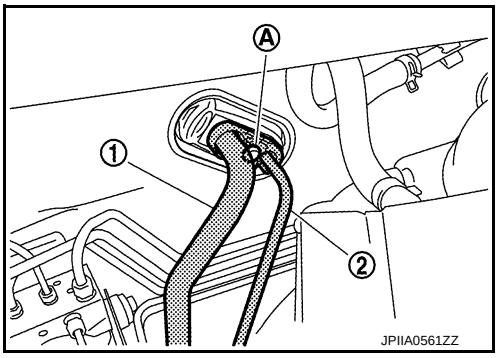
Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

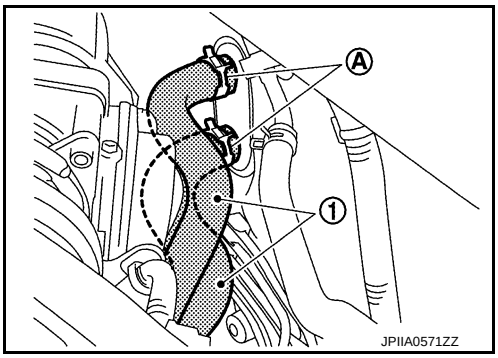
INFOID:0000000005517207

REMOVAL

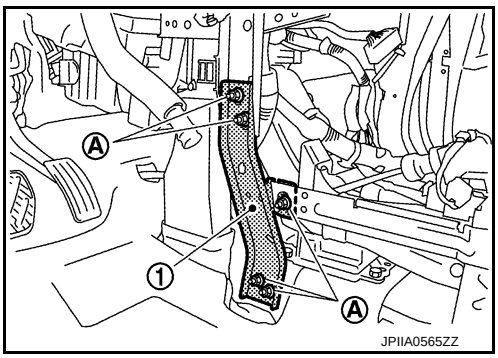
1. Collect the refrigerant with refrigerant collecting equipment (for HFC134a).
2. Drain engine coolant. Refer to CO-11, "Draining".
3. Remove the mounting bolt (A), and then disconnect the low-pressure pipe (1) and high-pressure pipe (2) from the expansion valve.
   CAUTION:
   Cap or wrap the joint of the A/C piping and expansion valve with suitable material such as vinyl tape to avoid the entry of air.



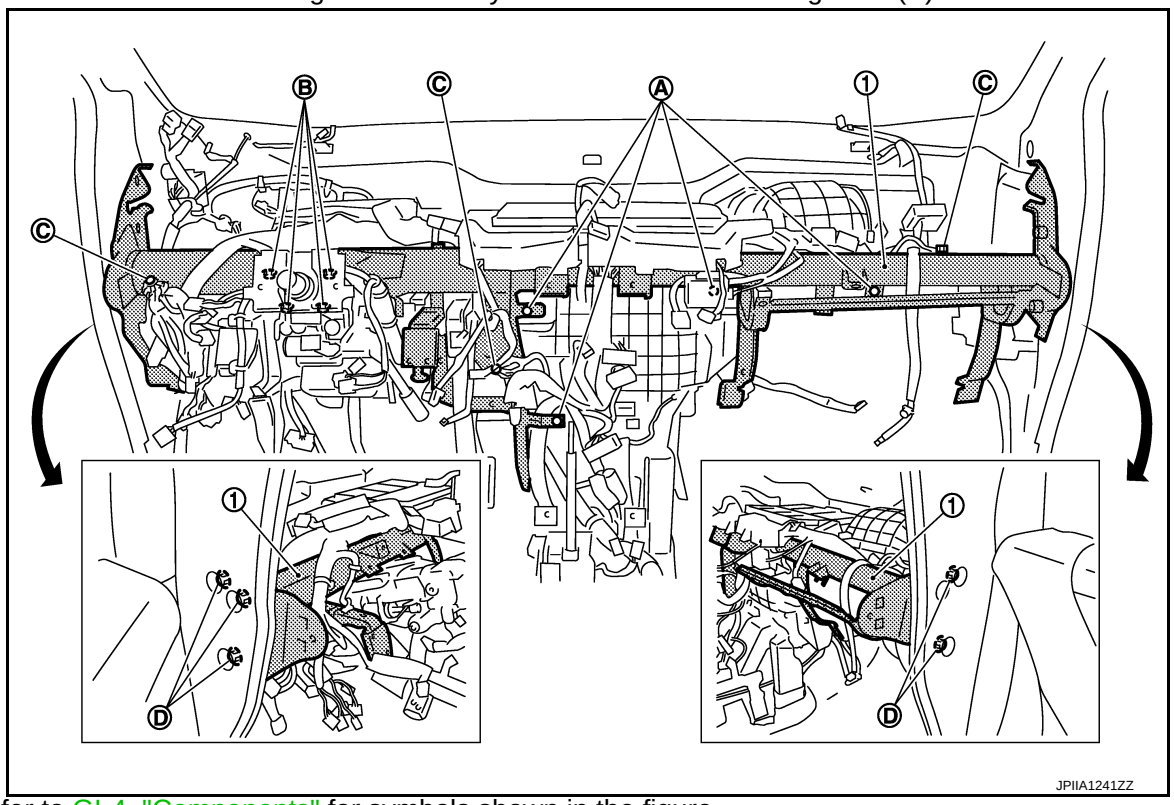
4. Remove the clamps (A), and then disconnect the heater hoses (1).
   CAUTION:
   - **Some coolant may spill when heater hoses are disconnected. Wipe them off with wastes.**
   - **Close the coolant inlet/outlet on the heater core and heater hoses with wastes.**



5. Remove the instrument panel assembly. Refer to IP-12, "Exploded View".
6. Remove the mounting nuts (A), and then remove the instrument stay (1).

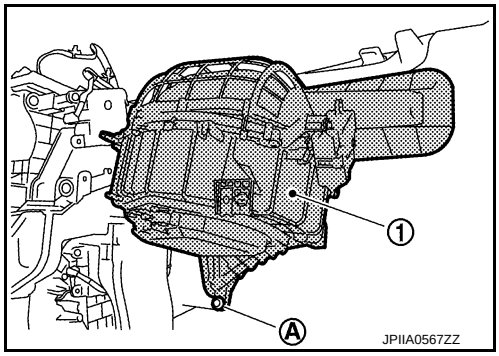


7. Remove the heater & cooling unit assembly and blower unit mounting bolts (A).

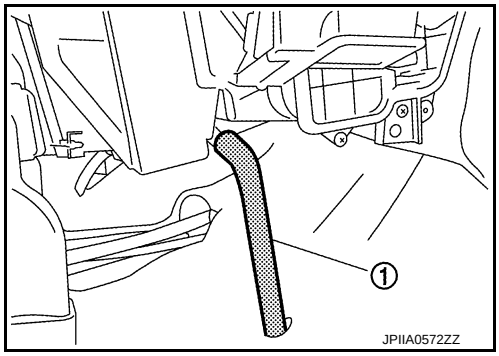


Refer to GI-4, "Components" for symbols shown in the figure.

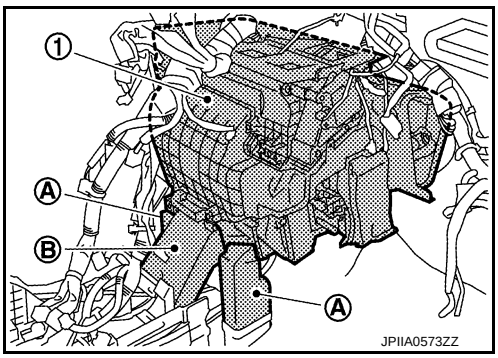
8. Remove the steering column mounting nuts (B). Refer to ST-18, "WITHOUT ELECTRIC MOTOR : Exploded View" (without electric motor) or ST-21, "WITH ELECTRIC MOTOR : Exploded View" (with electric motor).
9. Remove the ground bolts (C) from the steering member (1).
10. Remove the harness clip from the steering member.
11. Disconnect the intake door motor and blower motor connectors.
12. Remove the steering member mounting bolts (D), and then remove the steering member.
13. Remove the mounting screw (A), and then remove the blower unit (1).



14. Disconnect the drain hose (1) from heater & cooling unit assembly.



15. Remove the rear foot duct 1 (left/right) (A) and rear ventilator duct 1 (B), and then remove the heater & cooling unit assembly (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Replace the O-ring with a new one. Apply a coat of compressor oil to the O-ring prior to installation.**
- **Check for refrigerant leakage when charging refrigerant.**

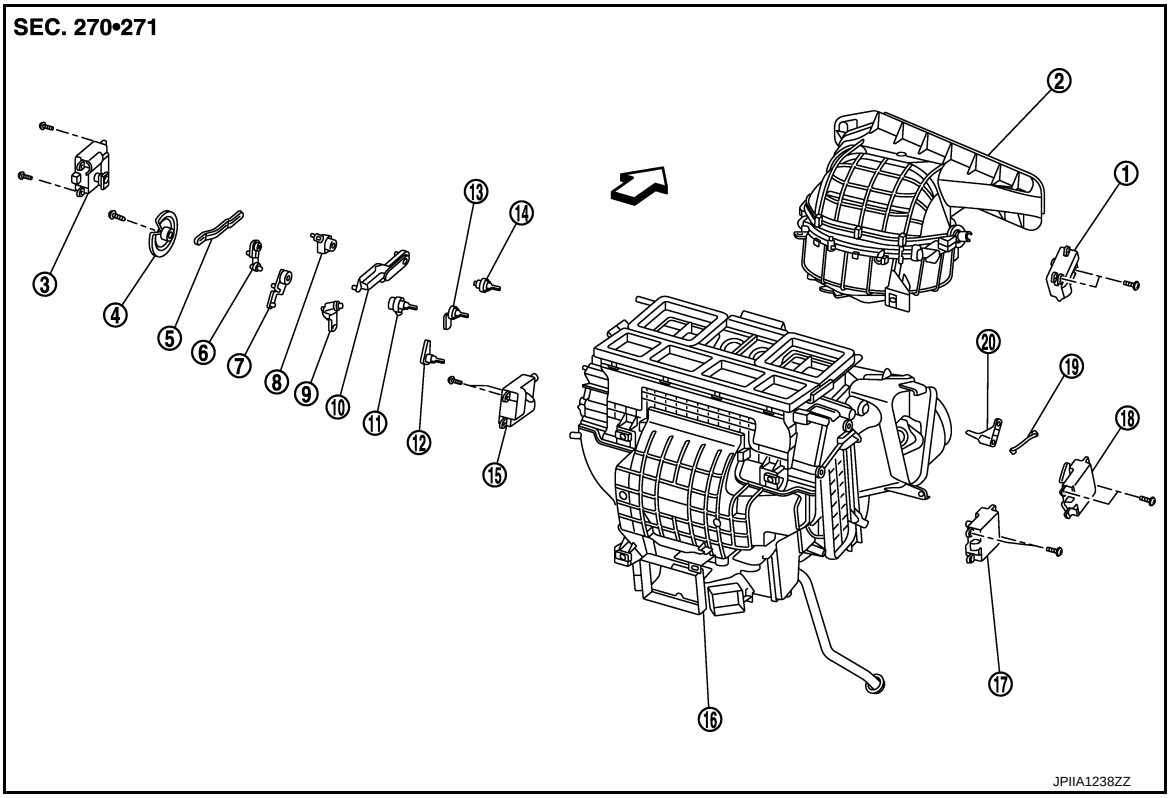
NOTE:

- Refer to CO-12, "Refilling" when filling the radiator with engine coolant.
- Charge the refrigerant again.

UPPER VENTILATOR DOOR MOTOR

Exploded View

INFOID:0000000005517208



1. Intake door motor
2. Bower unit assembly
3. Mode door motor
4. Main link
5. Rod link
6. Max. cool door link
7. Max. cool door link
8. Mode door lever
9. Ventilator door link
10. Defroster door link
11. Ventilator door lever
12. Foot door lever
13. Max. cool door lever
14. Defroster door lever
15. Air mix door motor (driver side)
16. Heater & cooling unit assembly
17. Air mix door motor (passenger side)
18. Upper ventilator door motor
19. Upper ventilator door rod
20. Upper ventilator door lever

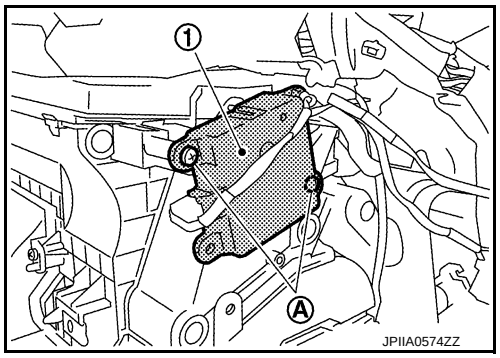
⇦ : Vehicle front

Removal and Installation

INFOID:0000000005517209

REMOVAL

1. Remove the blower unit. Refer to VTL-92, "Exploded View".
2. Remove the mounting screws (A), and then remove the upper ventilator door motor (1).
3. Disconnect the upper ventilator door motor connector.



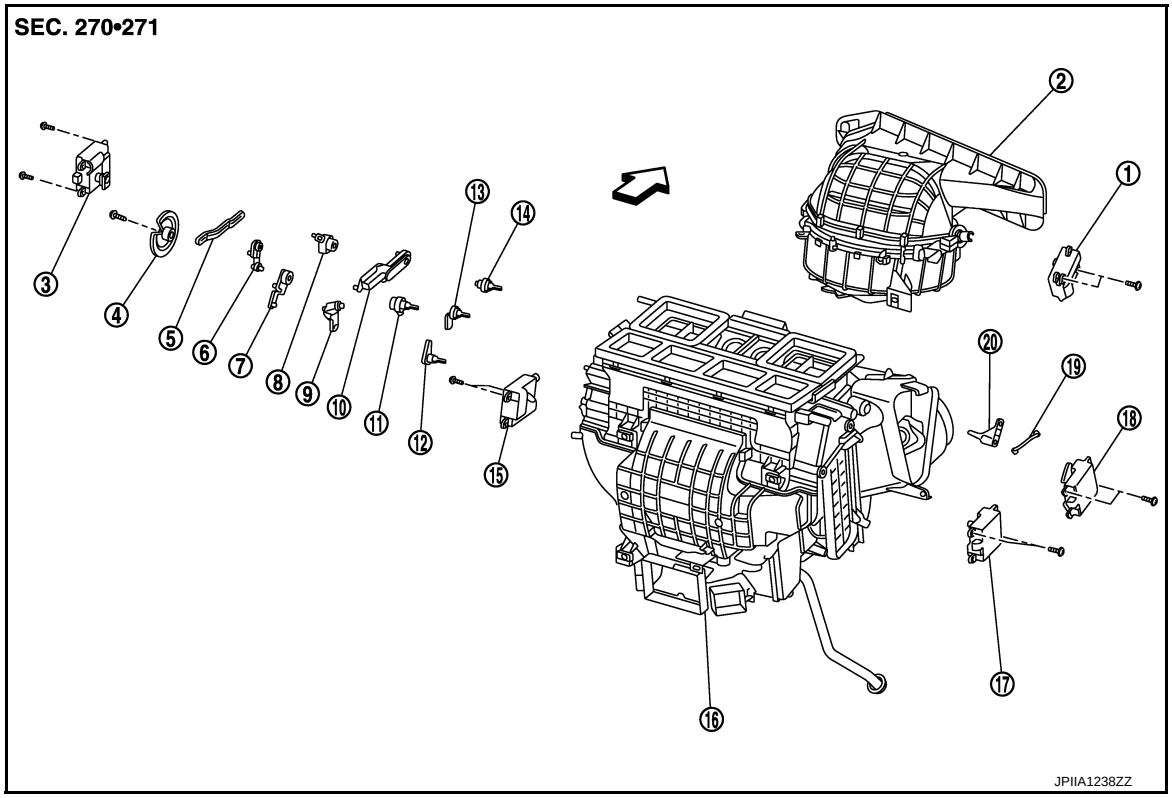
INSTALLATION

Install in the reverse order of removal.

MODE DOOR MOTOR

Exploded View

INFOID:0000000005517210



1. Intake door motor
2. Bower unit assembly
3. Mode door motor
4. Main link
5. Rod link
6. Max. cool door link
7. Max. cool door link
8. Mode door lever
9. Ventilator door link
10. Defroster door link
11. Ventilator door lever
12. Foot door lever
13. Max. cool door lever
14. Defroster door lever
15. Air mix door motor (driver side)
16. Heater & cooling unit assembly
17. Air mix door motor (passenger side)
18. Upper ventilator door motor
19. Upper ventilator door rod
20. Upper ventilator door lever

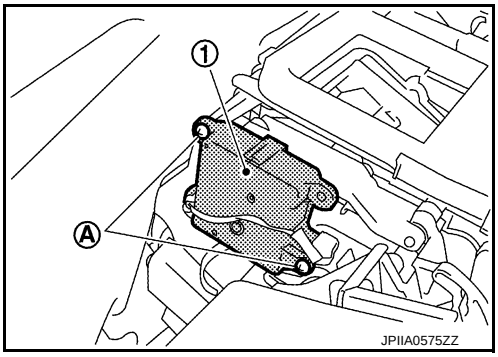
⇦ : Vehicle front

Removal and Installation

INFOID:0000000005517211

REMOVAL

1. Remove the instrument panel assembly. Refer to IP-12, "Exploded View".
2. Remove the mounting screws (A), and then remove the mode door motor (1).
3. Disconnect the mode door motor connector.



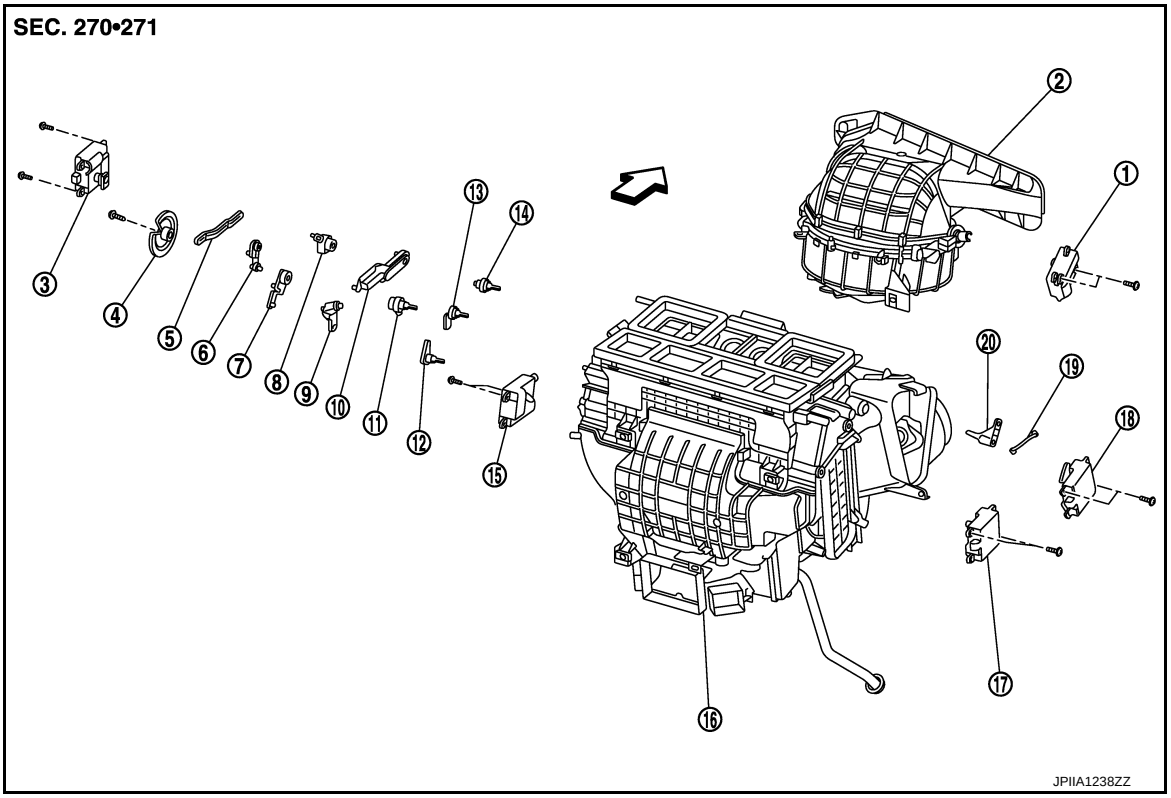
INSTALLATION

Install in the reverse order of removal.

AIR MIX DOOR MOTOR

Exploded View

INFOID:0000000005517212



1. Intake door motor
2. Bower unit assembly
3. Mode door motor
4. Main link
5. Rod link
6. Max. cool door link
7. Max. cool door link
8. Mode door lever
9. Ventilator door link
10. Defroster door link
11. Ventilator door lever
12. Foot door lever
13. Max. cool door lever
14. Defroster door lever
15. Air mix door motor (driver side)
16. Heater & cooling unit assembly
17. Air mix door motor (passenger side)
18. Upper ventilator door motor
19. Upper ventilator door rod
20. Upper ventilator door lever

⇦ : Vehicle front

Removal and Installation

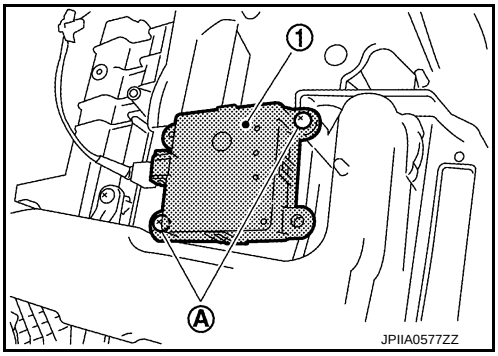
INFOID:0000000005517213

REMOVAL

Driver side

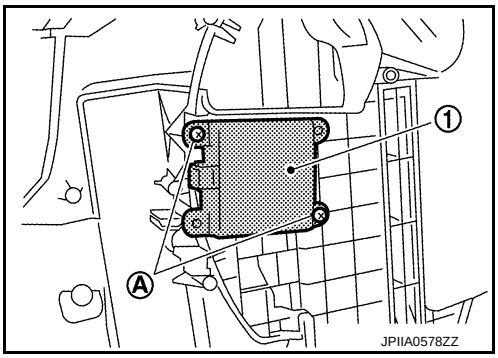
1. Set the temperature (driver side) at 18°C (60°F).
   CAUTION:
   The angle may be out, when installing the air mix door motor to the air mix door, unless the above procedure is performed.
2. Disconnect the battery cable from the negative terminal.
3. Remove the foot duct (left). Refer to VTL-129, "FOOT DUCT : Exploded View".

4. Remove the mounting screws (A), and then remove the air mix door motor (1).
5. Disconnect the air mix door motor connector.



Passenger side

1. Set the temperature (passenger side) at 18°C (60°F).
   CAUTION:
   The angle may be out, when installing the air mix door motor to the air mix door, unless the above procedure is performed.
2. Disconnect the battery cable from the negative terminal.
3. Remove the foot duct (right). Refer to VTL-129, "FOOT DUCT : Exploded View".
4. Remove the mounting screws (A), and then remove the air mix door motor (1).
5. Disconnect the air mix door motor connector.



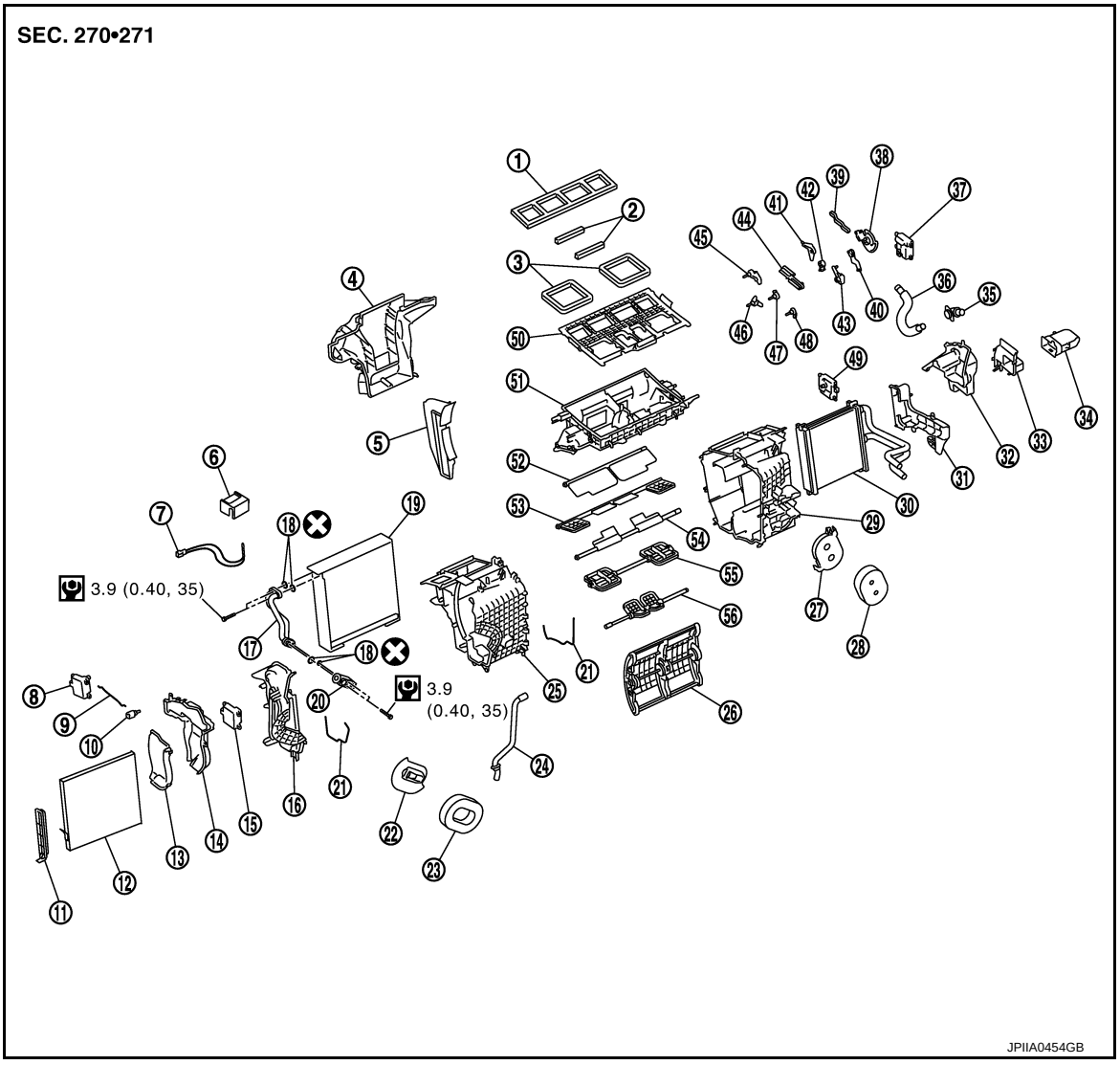
INSTALLATION

Install in the reverse order of removal.

HEATER CORE

Exploded View

INFOID:0000000005517214



1. Ventilator seal
2. Upper ventilator seal
3. Defroster seal
4. Adapter case
5. Center case
6. Intake sensor bracket
7. Intake sensor
8. Upper ventilator door motor
9. Upper ventilator door rod
10. Upper ventilator door lever
11. Filter cover
12. In-cabin microfilter/Air conditioner filter*
13. Foot duct 1 (right)
14. Foot duct 2 (right)
15. Air mix door motor (passenger side)
16. Heater & cooling unit case cover
17. Evaporator pipe assembly
18. O-ring
19. Evaporator
20. Expansion valve
21. Case packing
22. Grommet
23. Cooler pipe grommet
24. Drain hose
25. Heater & cooling unit case (right)
26. Air mix door (Slide door)
27. Heater pipe support
28. Heater pipe grommet
29. Heater & cooling unit case (left)
30. Heater core
31. Heater pipe cover
32. Foot duct 2 (left)
33. Foot duct 1 (left)
34. Heater duct
35. Aspirator
36. Aspirator hose
37. Mode door motor
38. Main link
39. Rod link
40. Max. cool door link
41. Ventilator door link
42. Foot door link
43. Mode door lever
44. Defroster door link
45. Ventilator door lever

46. Foot door lever
47. Defroster door lever
48. Max. cool door lever
49. Air mix door motor (driver side)
50. Distributor upper case
51. Distributor lower case
52. Ventilator door
53. Foot door
54. Max. cool door
55. Defroster door
56. Upper ventilator door

* : Models for Mexico.

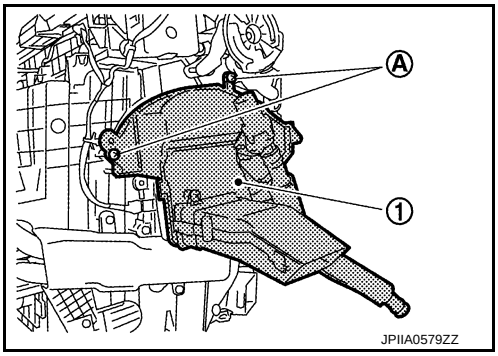
Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

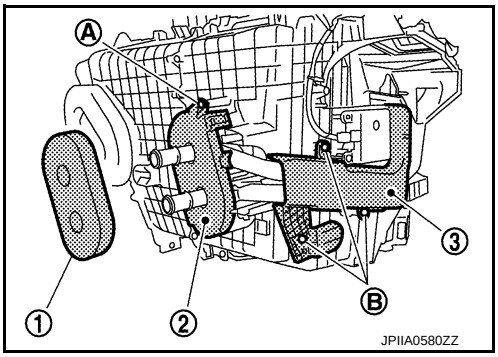
INFOID:0000000005517215

REMOVAL

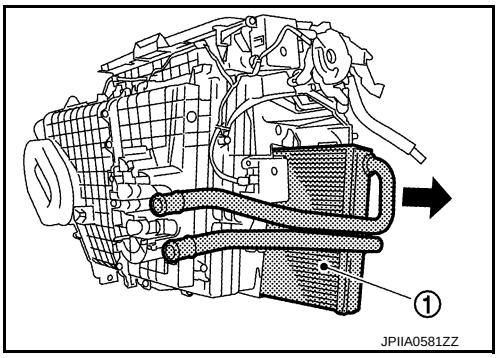
1. Remove the heater & cooling unit assembly. Refer to VTL-98, "Exploded View".
2. Remove the mounting screws (A), and then remove the foot duct (left) (1).



3. Remove the heater pipe grommet (1).
4. Remove the mounting screw (A), and then remove the heater pipe support (2).
5. Remove the mounting screws (B), and then remove the heater pipe cover (3).



6. Slide the heater core (1) in the direction shown by the arrow, and then remove it.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Replace the O-ring with a new one. Apply a coat of compressor oil to the O-ring prior to installation.**
- **Check for refrigerant leakage when charging refrigerant.**

NOTE:

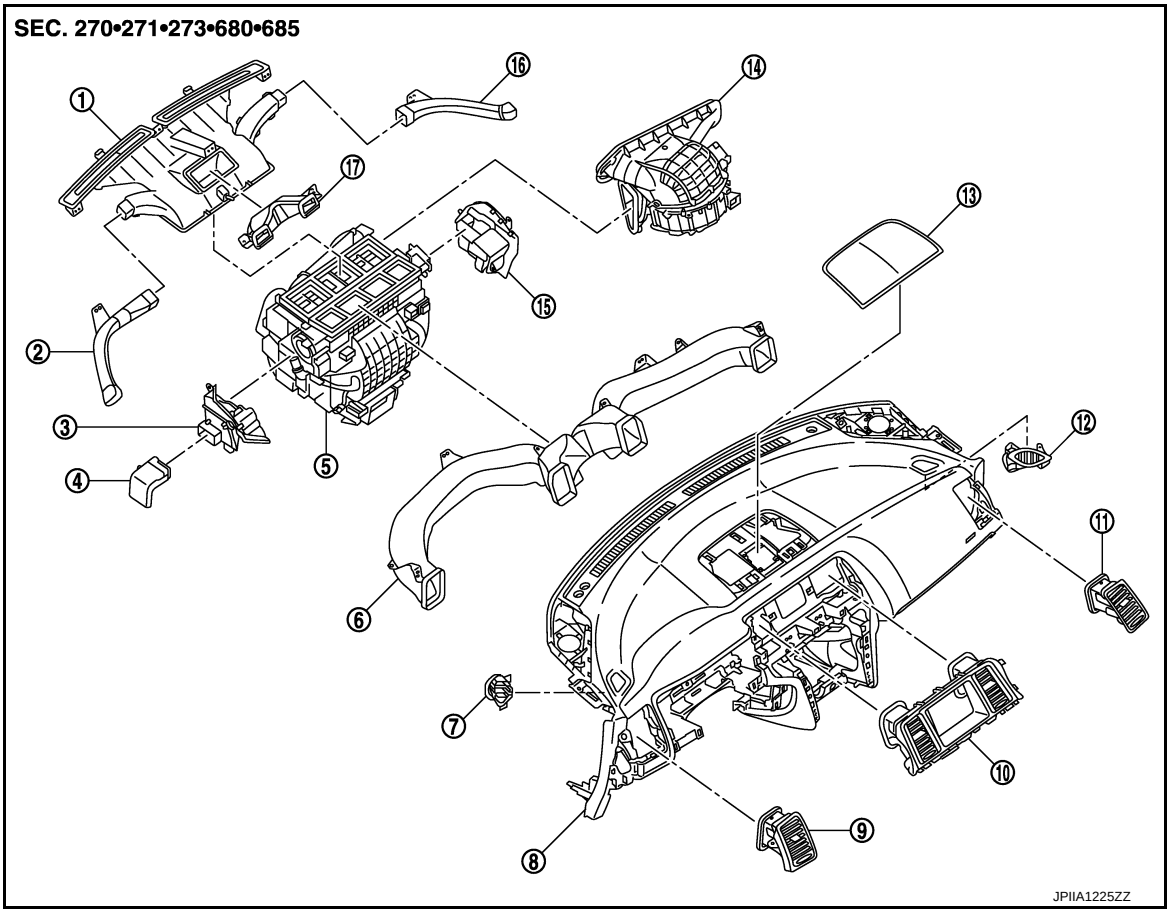
- Refer to CO-12, "Refilling" when filling the radiator with engine coolant.
- Charge the refrigerant again.

DUCT AND GRILLE

CENTER VENTILATOR GRILLE

CENTER VENTILATOR GRILLE : Exploded View

INFOID:0000000005517216



1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

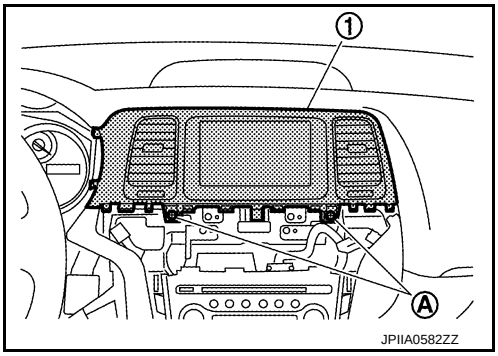
CENTER VENTILATOR GRILLE : Removal and Installation

INFOID:0000000005517217

REMOVAL

1. Remove the cluster lid A. Refer to IP-12, "Exploded View".
2. Remove the cluster lid D. Refer to IP-12, "Exploded View".

3. Remove the mounting screws (A), and then remove the center ventilator grille assembly (1).



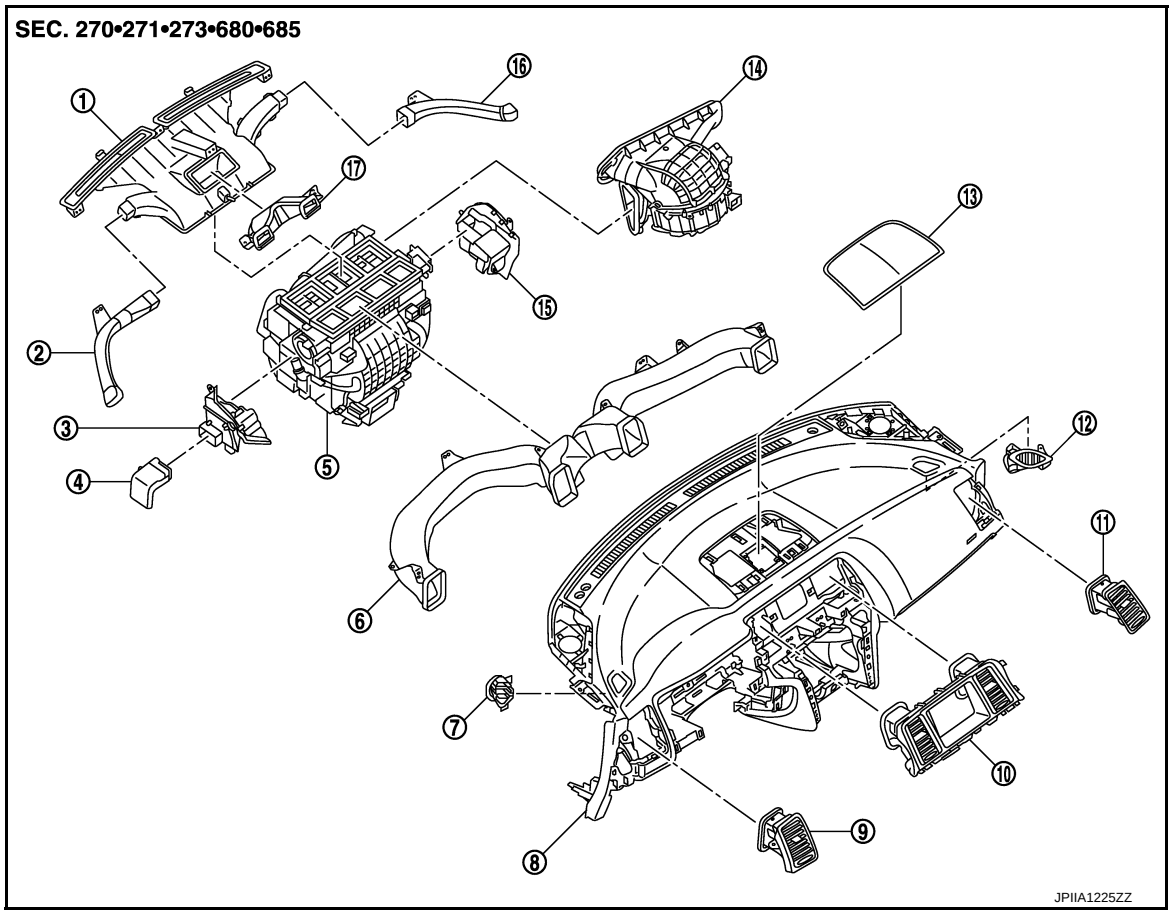
INSTALLATION

Install in the reverse order of removal.

SIDE VENTILATOR GRILLE

SIDE VENTILATOR GRILLE : Exploded View

INFOID:0000000005517218



1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

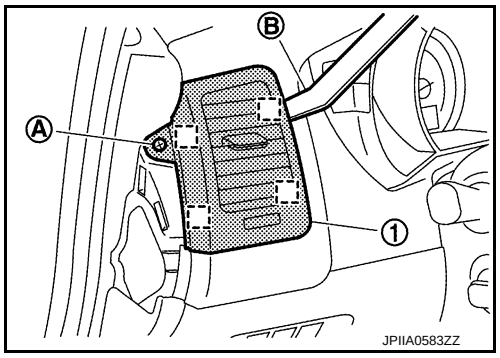
SIDE VENTILATOR GRILLE : Removal and Installation

INFOID:0000000005517219

REMOVAL

1. Remove the instrument side finisher (LH/RH). Refer to IP-12, "Exploded View".
2. Remove the mounting screw (A).
3. Remove side ventilator grille metal clip using remover tool (B), and then remove side ventilator grille (1).

: Metal clip



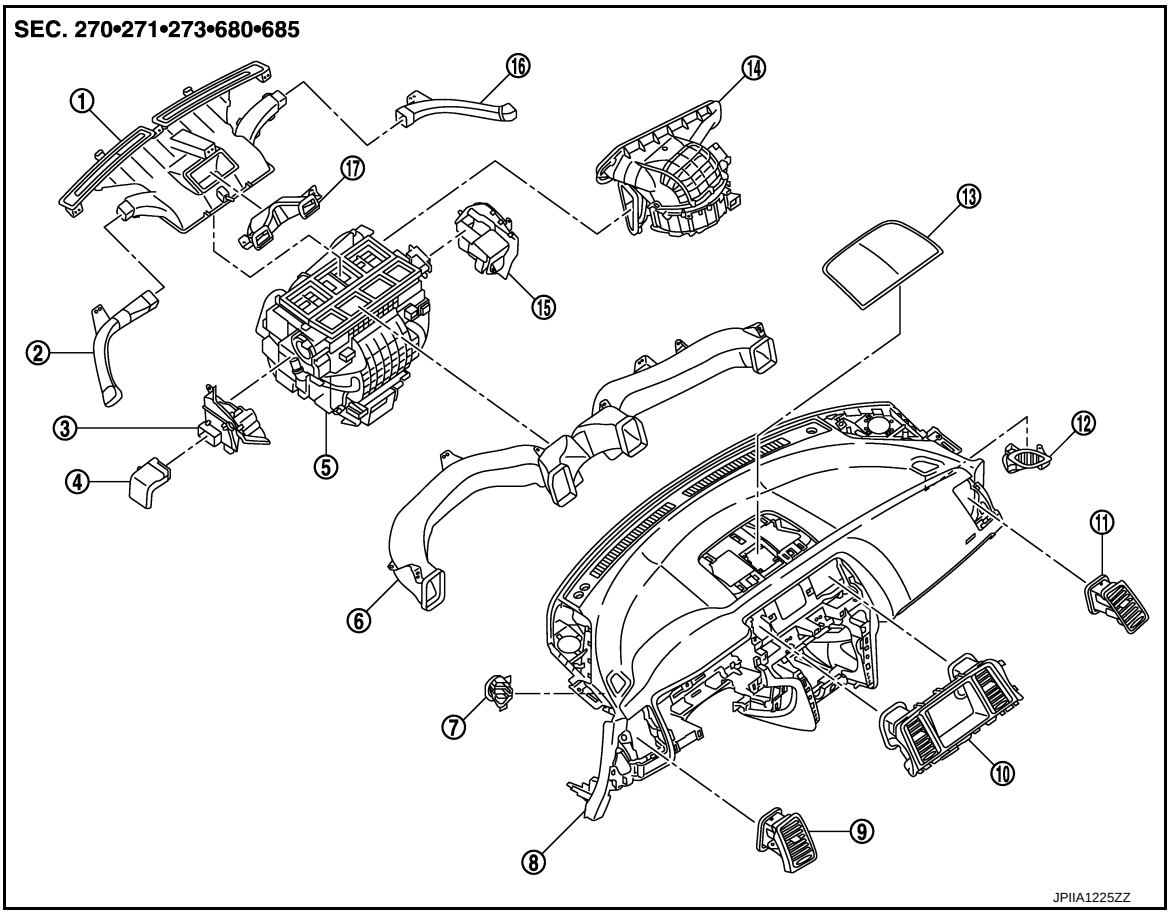
INSTALLATION

Install in the reverse order of removal.

SIDE DEFROSTER GRILLE

SIDE DEFROSTER GRILLE : Exploded View

INFOID:0000000005517220



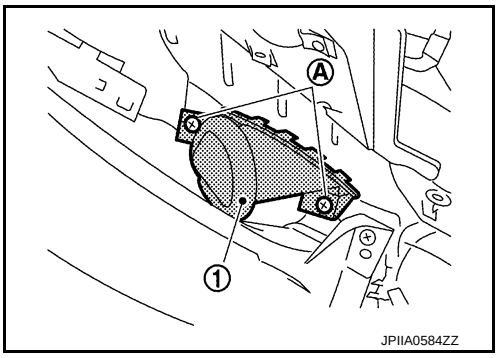
1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

SIDE DEFROSTER GRILLE : Removal and Installation

INFOID:0000000005517221

REMOVAL

1. Remove the defroster nozzle and side defroster nozzle. Refer to VTL-115, "DEFROSTER NOZZLE AND SIDE DEFROSTER NOZZLE : Exploded View".
2. Remove the mounting screws (A), and then remove the side defroster grilles (left/right) (1).



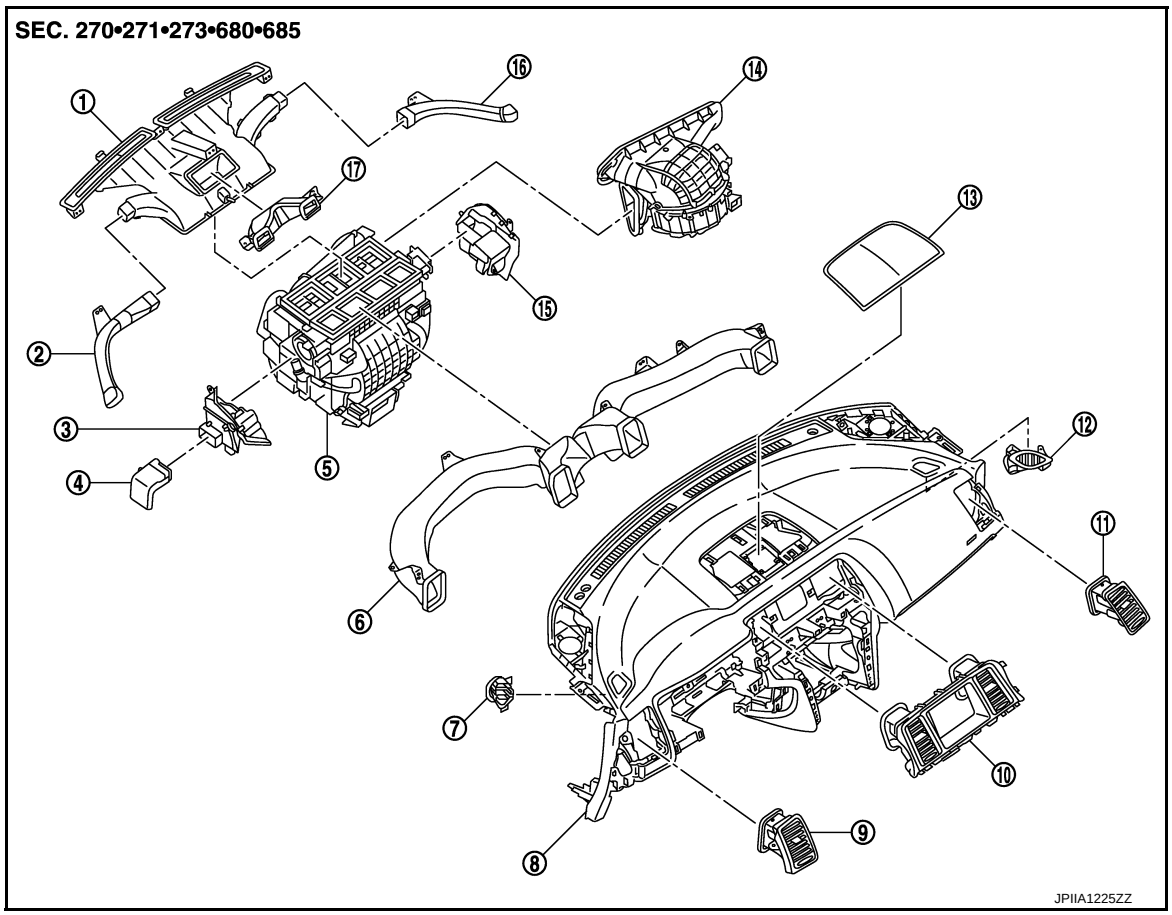
INSTALLATION

Install in the reverse order of removal.

VENTILATOR DUCT

VENTILATOR DUCT : Exploded View

INFOID:0000000005517222



1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)

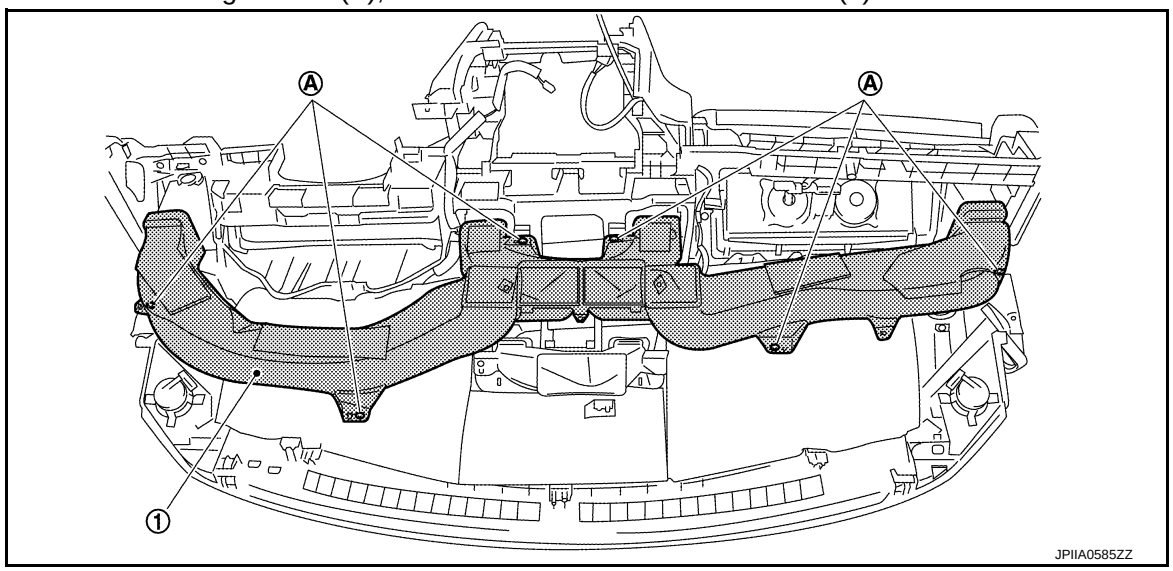
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

VENTILATOR DUCT : Removal and Installation

INFOID:0000000005517223

REMOVAL

1. Remove the defroster nozzle and side defroster nozzle. Refer to VTL-115, "DEFROSTER NOZZLE AND SIDE DEFROSTER NOZZLE : Exploded View".
2. Remove the mounting screws (A), and then remove the ventilator duct (1).



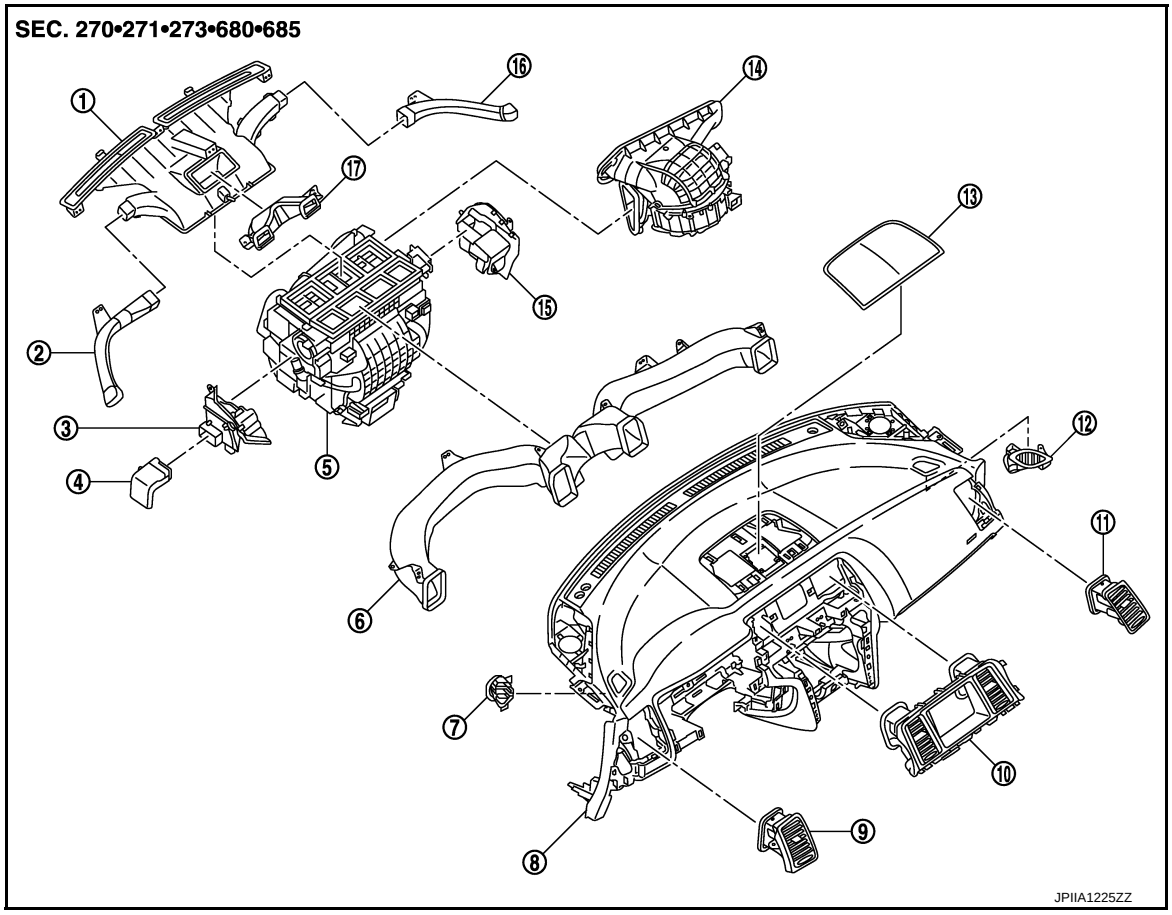
INSTALLATION

Install in the reverse order of removal.

UPPER VENTILATOR DUCT

UPPER VENTILATOR DUCT : Exploded View

INFOID:0000000005517224



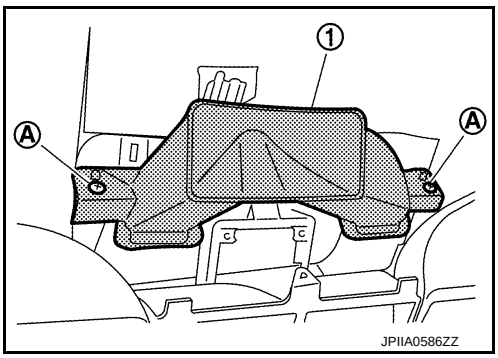
1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

UPPER VENTILATOR DUCT : Removal and Installation

INFOID:0000000005517225

REMOVAL

1. Remove the defroster nozzle and side defroster nozzle. Refer to VTL-115, "DEFROSTER NOZZLE AND SIDE DEFROSTER NOZZLE : Exploded View".
2. Remove the mounting screws (A), and then remove the upper ventilator duct (1).



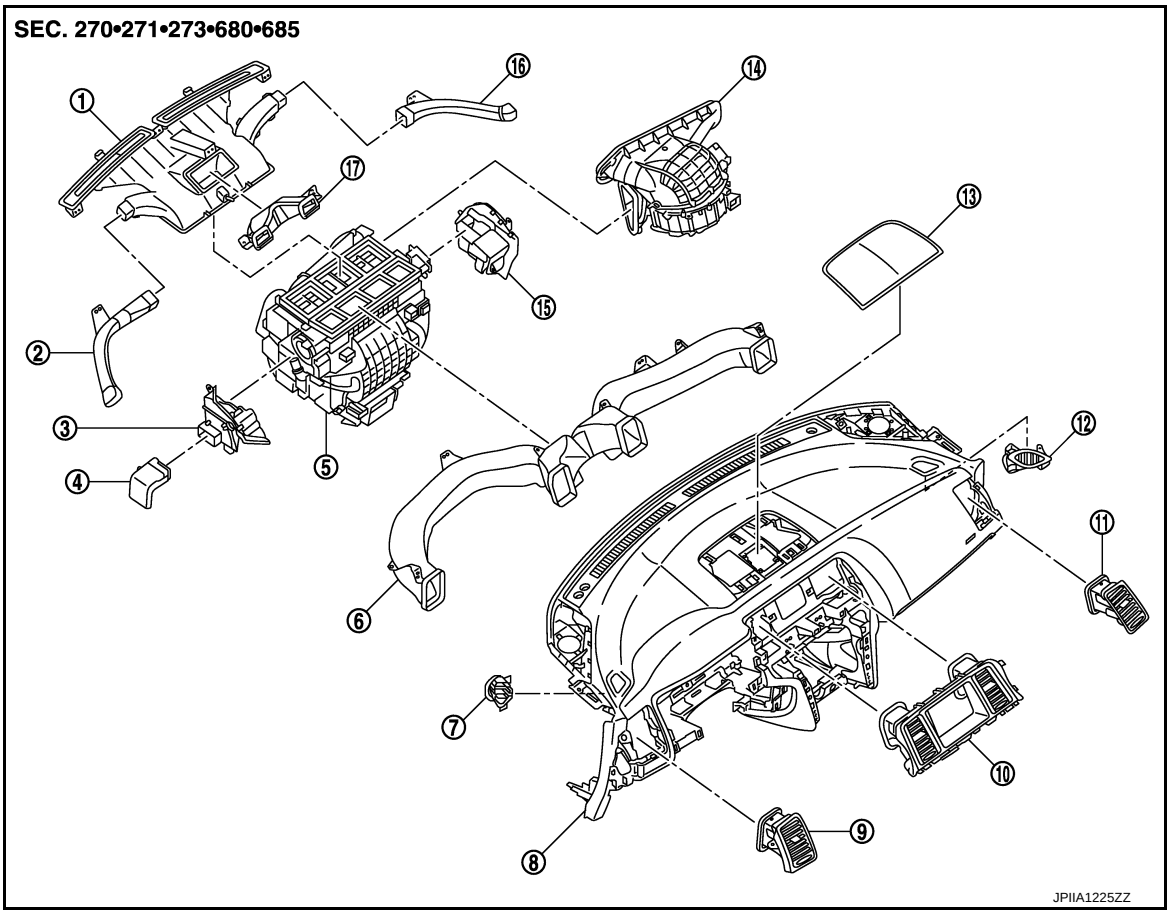
INSTALLATION

Install in the reverse order of removal.

DEFROSTER NOZZLE AND SIDE DEFROSTER NOZZLE

DEFROSTER NOZZLE AND SIDE DEFROSTER NOZZLE : Exploded View

INFOID:0000000005517226



1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

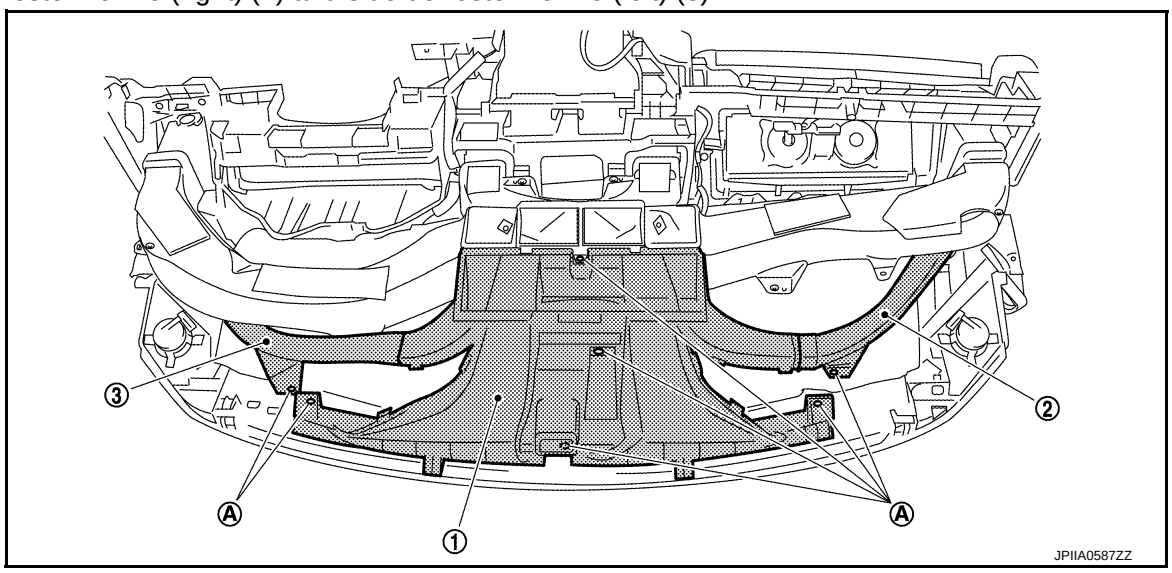
DEFROSTER NOZZLE AND SIDE DEFROSTER NOZZLE : Removal and Installation

INFOID:0000000005517227

REMOVAL

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

2. Remove the mounting screws (A), and then remove the defroster nozzle (1) together with the side defroster nozzle (right) (2) and side defroster nozzle (left) (3).



3. Remove the side defroster nozzle (right) and side defroster nozzle (left) from the defroster nozzle.

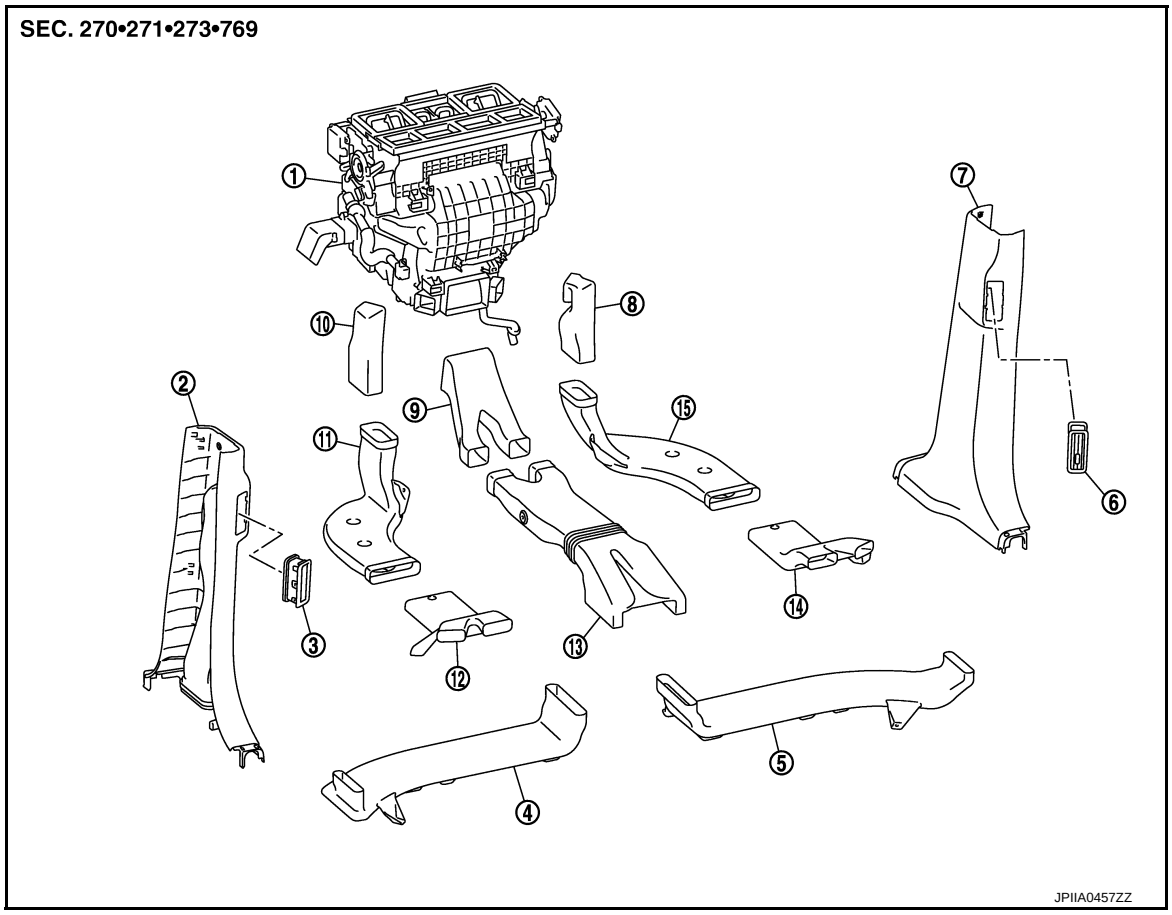
INSTALLATION

Install in the reverse order of removal.

REAR VENTILATOR GRILLE

REAR VENTILATOR GRILLE : Exploded View

INFOID:0000000005517228



1. Heater & cooling unit assembly	2. Rear ventilator duct 4 (center pillar lower garnish left)	3. Rear ventilator grille (left)
4. Rear ventilator duct 3 (left)	5. Rear ventilator duct 3 (right)	6. Rear ventilator grille (right)
7. Rear ventilator duct 4 (center pillar lower garnish right)	8. Rear foot duct 1 (right)	9. Rear ventilator duct 1
10. Rear foot duct 1 (left)	11. Rear foot duct 2 (left)	12. Rear foot duct 3 (left)
13. Rear ventilator duct 2	14. Rear foot duct 3 (right)	15. Rear foot duct 2 (right)

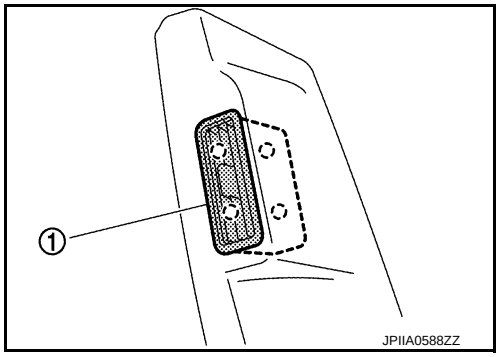
REAR VENTILATOR GRILLE : Removal and Installation

INFOID:0000000005517229

REMOVAL

1. Remove the center pillar lower garnish (left/right). Refer to INT-20, "Exploded View".
2. Disengage the joints of the tabs, and then remove the rear ventilator grilles (left/right) (1).

:Clip



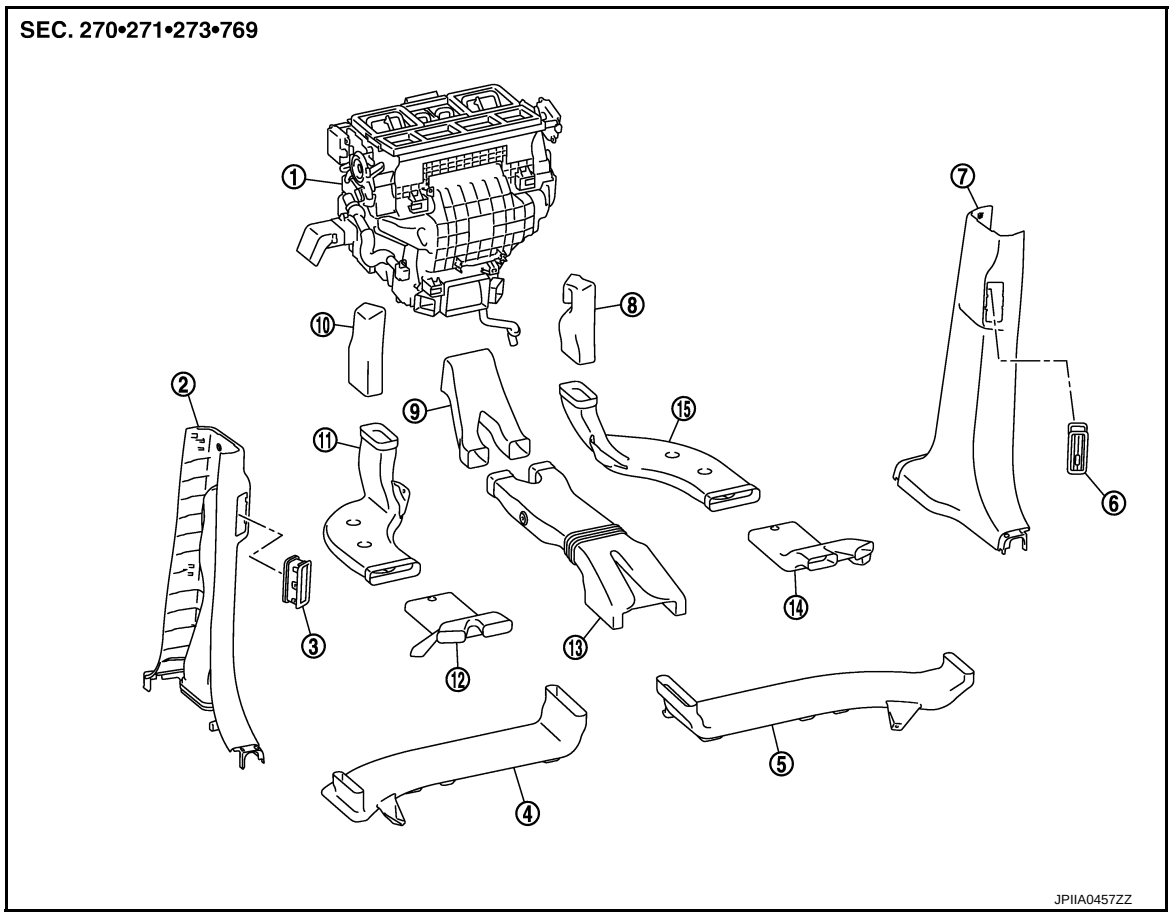
INSTALLATION

Install in the reverse order of removal.

REAR VENTILATOR DUCT 1

REAR VENTILATOR DUCT 1 : Exploded View

INFOID:0000000005517230



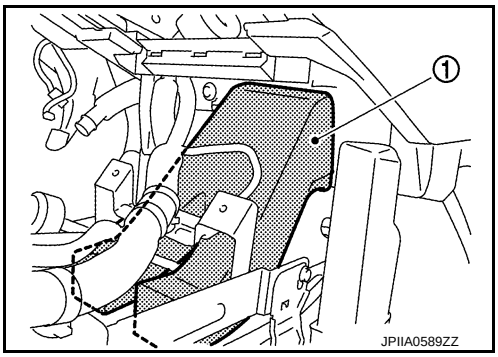
1.	Heater & cooling unit assembly	2.	Rear ventilator duct 4 (center pillar lower garnish left)	3.	Rear ventilator grille (left)
4.	Rear ventilator duct 3 (left)	5.	Rear ventilator duct 3 (right)	6.	Rear ventilator grille (right)
7.	Rear ventilator duct 4 (center pillar lower garnish right)	8.	Rear foot duct 1 (right)	9.	Rear ventilator duct 1
10.	Rear foot duct 1 (left)	11.	Rear foot duct 2 (left)	12.	Rear foot duct 3 (left)
13.	Rear ventilator duct 2	14.	Rear foot duct 3 (right)	15.	Rear foot duct 2 (right)

REAR VENTILATOR DUCT 1 : Removal and Installation

INFOID:0000000005517231

REMOVAL

1. Remove the rear ventilator duct 2. Refer to VTL-119, "REAR VENTILATOR DUCT 2 : Exploded View".
2. Remove the rear ventilator duct 1 (1).



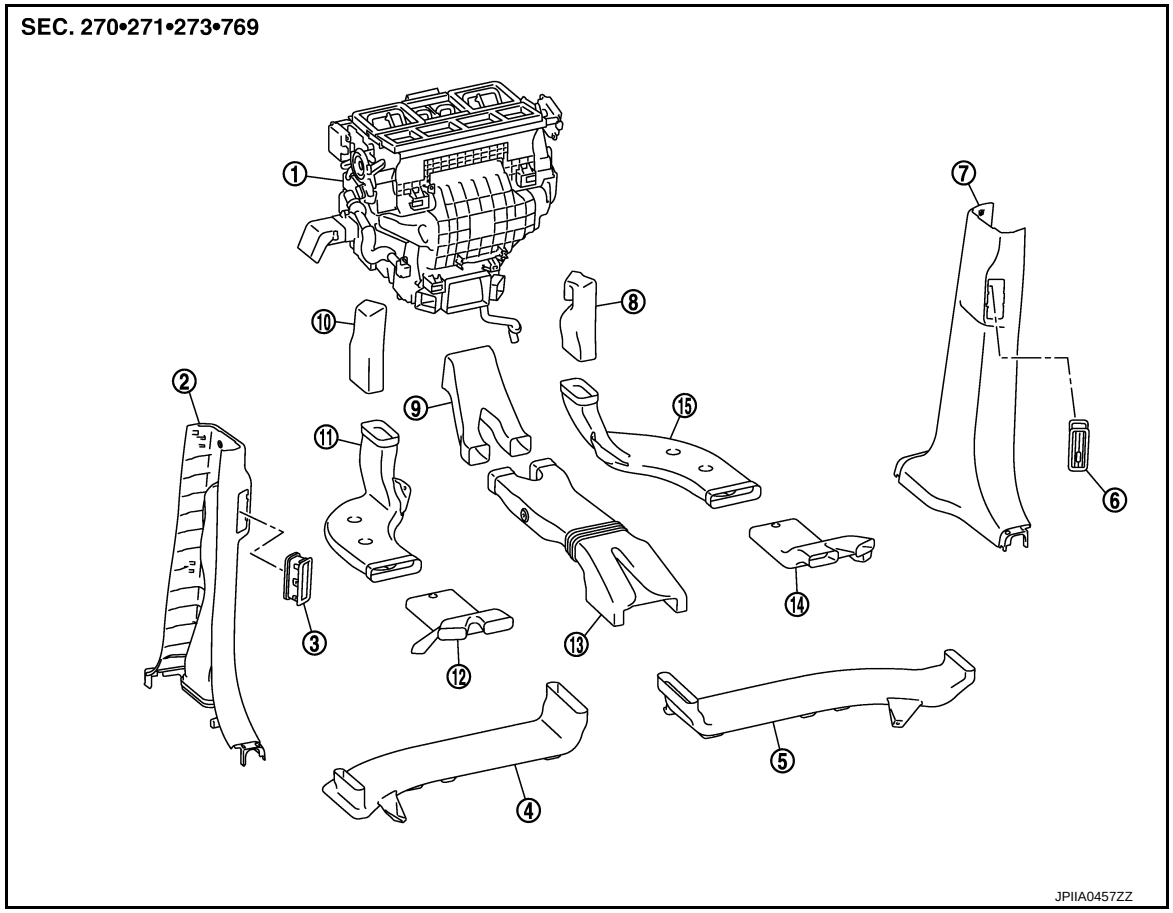
INSTALLATION

Install in the reverse order of removal.

REAR VENTILATOR DUCT 2

REAR VENTILATOR DUCT 2 : Exploded View

INFOID:0000000005517232



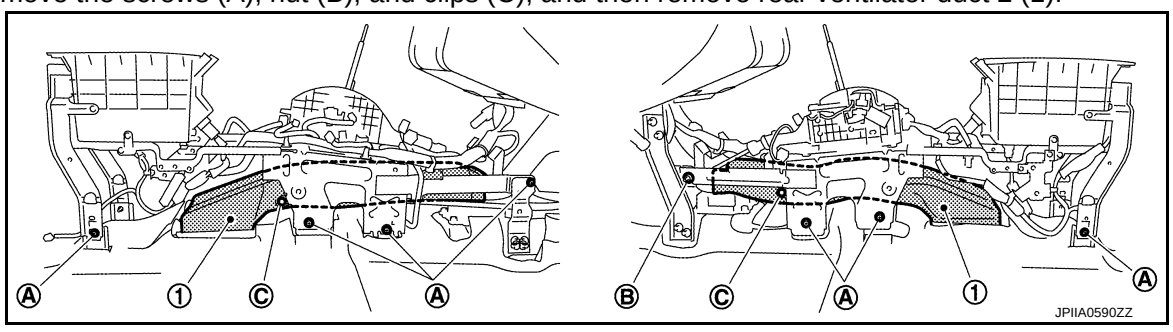
1.	Heater & cooling unit assembly	2.	Rear ventilator duct 4 (center pillar lower garnish left)	3.	Rear ventilator grille (left)
4.	Rear ventilator duct 3 (left)	5.	Rear ventilator duct 3 (right)	6.	Rear ventilator grille (right)
7.	Rear ventilator duct 4 (center pillar lower garnish right)	8.	Rear foot duct 1 (right)	9.	Rear ventilator duct 1
10.	Rear foot duct 1 (left)	11.	Rear foot duct 2 (left)	12.	Rear foot duct 3 (left)
13.	Rear ventilator duct 2	14.	Rear foot duct 3 (right)	15.	Rear foot duct 2 (right)

REAR VENTILATOR DUCT 2 : Removal and Installation

INFOID:0000000005517233

REMOVAL

1. Remove the front seat assembly (left/right). Refer to SE-105, "Exploded View".
2. Remove the lower console finisher (left/right). Refer to IP-20, "Exploded View".
3. Remove the screws (A), nut (B), and clips (C), and then remove rear ventilator duct 2 (1).

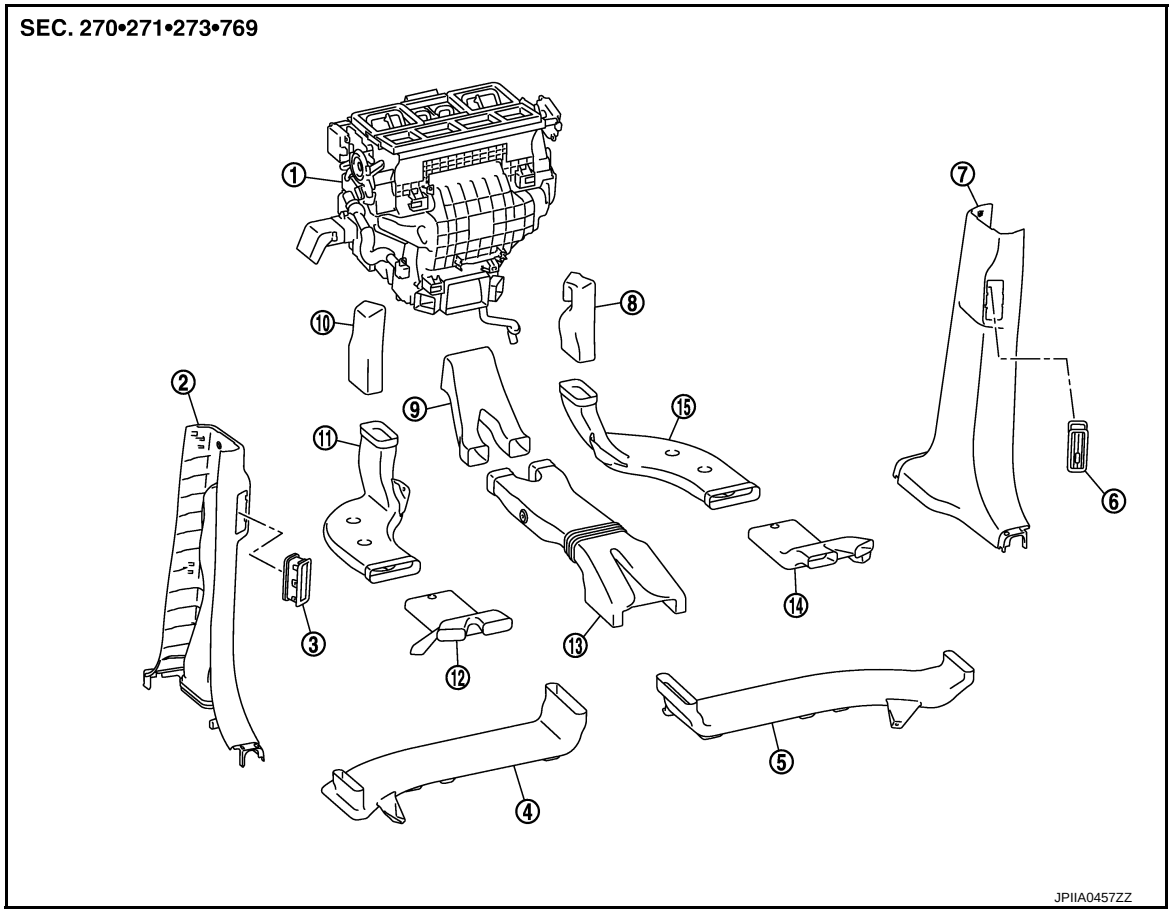


INSTALLATION
Install in the reverse order of removal.

REAR VENTILATOR DUCT 3

REAR VENTILATOR DUCT 3 : Exploded View

INFOID:0000000005517234



1. Heater & cooling unit assembly	2. Rear ventilator duct 4 (center pillar lower garnish left)	3. Rear ventilator grille (left)
4. Rear ventilator duct 3 (left)	5. Rear ventilator duct 3 (right)	6. Rear ventilator grille (right)
7. Rear ventilator duct 4 (center pillar lower garnish right)	8. Rear foot duct 1 (right)	9. Rear ventilator duct 1
10. Rear foot duct 1 (left)	11. Rear foot duct 2 (left)	12. Rear foot duct 3 (left)
13. Rear ventilator duct 2	14. Rear foot duct 3 (right)	15. Rear foot duct 2 (right)

REAR VENTILATOR DUCT 3 : Removal and Installation

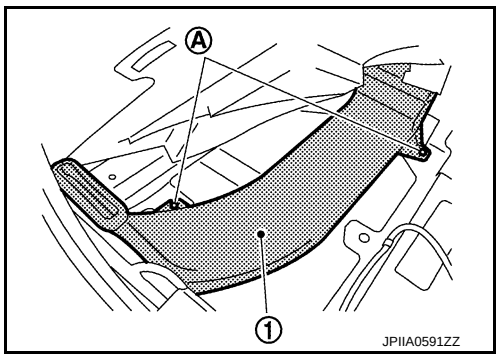
INFOID:0000000005517235

REMOVAL

Driver side

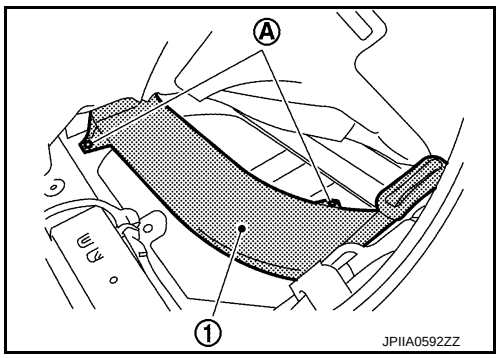
1. Remove the front seat assembly (left). Refer to SE-105, "Exploded View".
2. Pull up the driver side floor carpet. Refer to INT-24, "Exploded View".

3. Remove the mounting screws (A), and then remove rear ventilator duct 3 (left) (1).



Passenger side

1. Remove the front seat assembly (right). Refer to SE-105, "Exploded View".
2. Pull up the passenger side floor carpet. Refer to INT-24, "Exploded View".
3. Remove the mounting screws (A), and then remove rear ventilator duct 3 (right) (1).



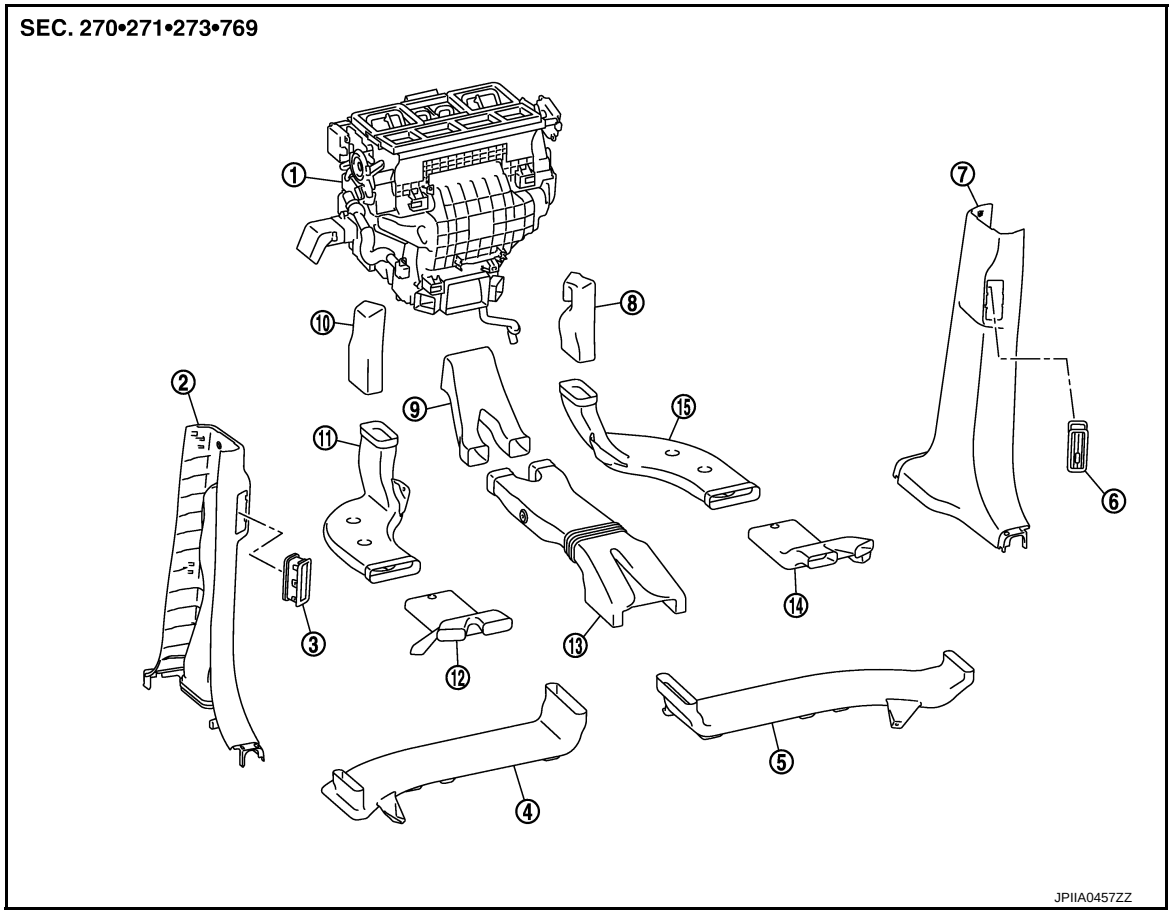
INSTALLATION

Install in the reverse order of removal.

REAR VENTILATOR DUCT 4

REAR VENTILATOR DUCT 4 : Exploded View

INFOID:0000000005517236



1.	Heater & cooling unit assembly	2.	Rear ventilator duct 4 (center pillar lower garnish left)	3.	Rear ventilator grille (left)
4.	Rear ventilator duct 3 (left)	5.	Rear ventilator duct 3 (right)	6.	Rear ventilator grille (right)
7.	Rear ventilator duct 4 (center pillar lower garnish right)	8.	Rear foot duct 1 (right)	9.	Rear ventilator duct 1
10.	Rear foot duct 1 (left)	11.	Rear foot duct 2 (left)	12.	Rear foot duct 3 (left)
13.	Rear ventilator duct 2	14.	Rear foot duct 3 (right)	15.	Rear foot duct 2 (right)

REAR VENTILATOR DUCT 4 : Removal and Installation

INFOID:0000000005517237

REMOVAL

1. Remove the center pillar lower garnish (left/right). Refer to INT-20, "Exploded View".

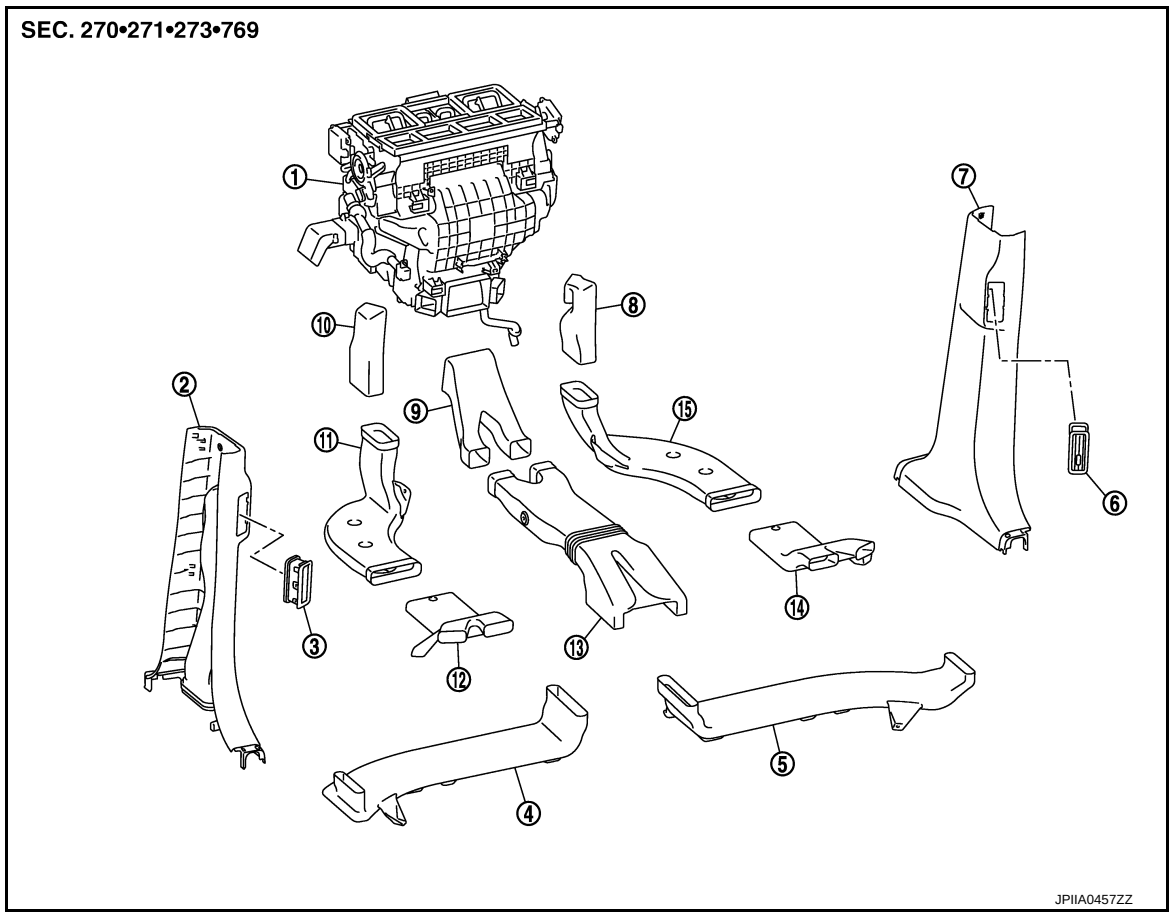
INSTALLATION

Install in the reverse order of removal.

REAR FOOT DUCT 1

REAR FOOT DUCT 1 : Exploded View

INFOID:0000000005517238



1.	Heater & cooling unit assembly	2.	Rear ventilator duct 4 (center pillar lower garnish left)	3.	Rear ventilator grille (left)
4.	Rear ventilator duct 3 (left)	5.	Rear ventilator duct 3 (right)	6.	Rear ventilator grille (right)
7.	Rear ventilator duct 4 (center pillar lower garnish right)	8.	Rear foot duct 1 (right)	9.	Rear ventilator duct 1
10.	Rear foot duct 1 (left)	11.	Rear foot duct 2 (left)	12.	Rear foot duct 3 (left)
13.	Rear ventilator duct 2	14.	Rear foot duct 3 (right)	15.	Rear foot duct 2 (right)

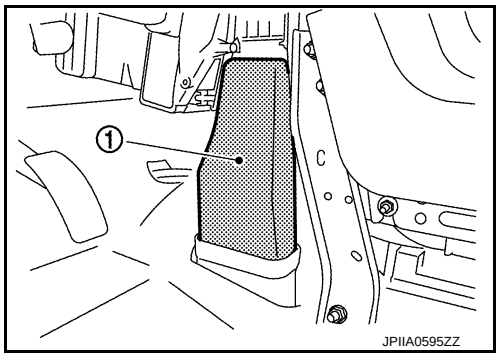
REAR FOOT DUCT 1 : Removal and Installation

INFOID:0000000005517239

REMOVAL

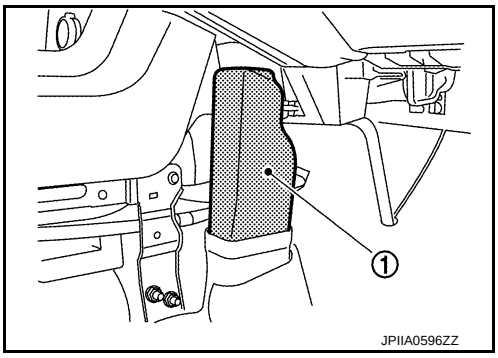
Driver side

1. Remove the instrument lower cover LH. Refer to IP-20, "Exploded View".
2. Remove the rear foot duct 1 (left) (1).



Passenger side

1. Remove the instrument lower cover RH. Refer to IP-20, "Exploded View".
2. Remove the rear foot duct 1 (right) (1).

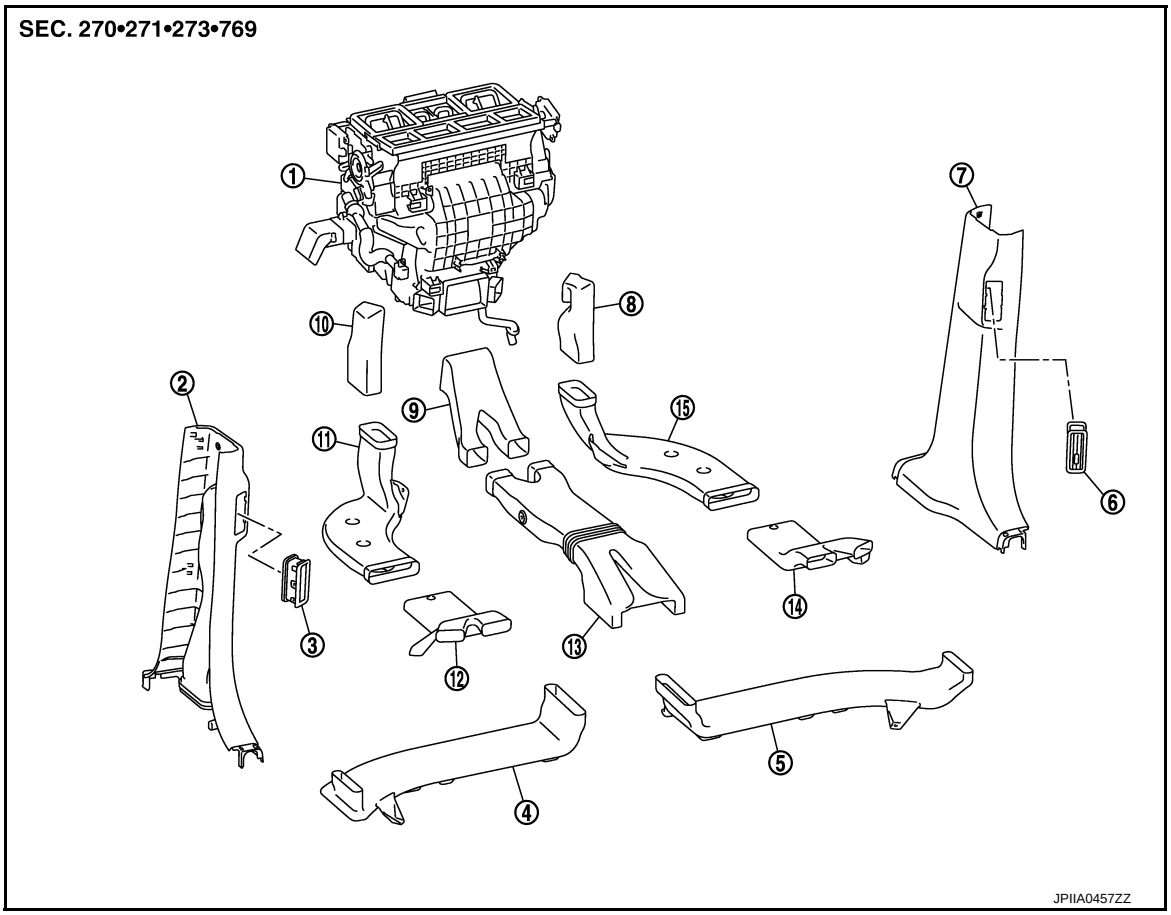


INSTALLATION
Install in the reverse order of removal.

REAR FOOT DUCT 2

REAR FOOT DUCT 2 : Exploded View

INFOID:0000000005517240



1. Heater & cooling unit assembly	2. Rear ventilator duct 4 (center pillar lower garnish left)	3. Rear ventilator grille (left)
4. Rear ventilator duct 3 (left)	5. Rear ventilator duct 3 (right)	6. Rear ventilator grille (right)
7. Rear ventilator duct 4 (center pillar lower garnish right)	8. Rear foot duct 1 (right)	9. Rear ventilator duct 1
10. Rear foot duct 1 (left)	11. Rear foot duct 2 (left)	12. Rear foot duct 3 (left)
13. Rear ventilator duct 2	14. Rear foot duct 3 (right)	15. Rear foot duct 2 (right)

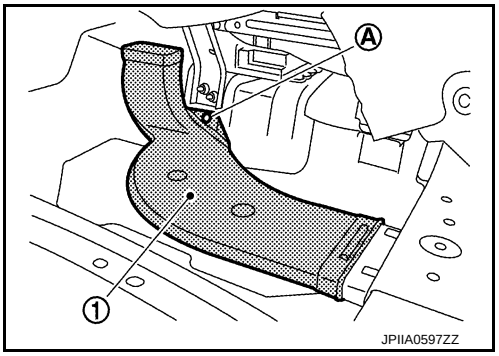
REAR FOOT DUCT 2 : Removal and Installation

INFOID:0000000005517241

REMOVAL

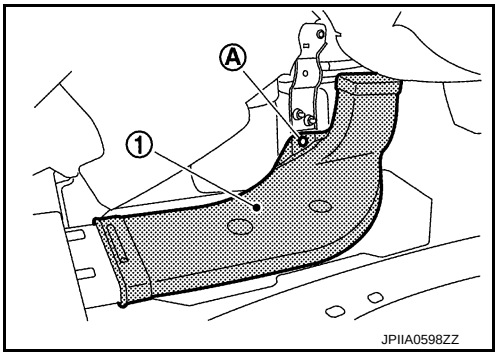
Driver side

1. Remove the rear foot duct 1 (left). Refer to VTL-123, "REAR FOOT DUCT 1 : Exploded View".
2. Pull up the driver side floor carpet. Refer to INT-24, "Exploded View".
3. Remove the mounting clip (A), and then remove the rear foot duct 2 (left) (1).



Passenger side

1. Remove the rear foot duct 1 (right). Refer to VTL-123, "REAR FOOT DUCT 1 : Exploded View".
2. Pull up the passenger side floor carpet. Refer to INT-24, "Exploded View".
3. Remove the mounting clip (A), and then remove the rear foot duct 2 (right) (1).



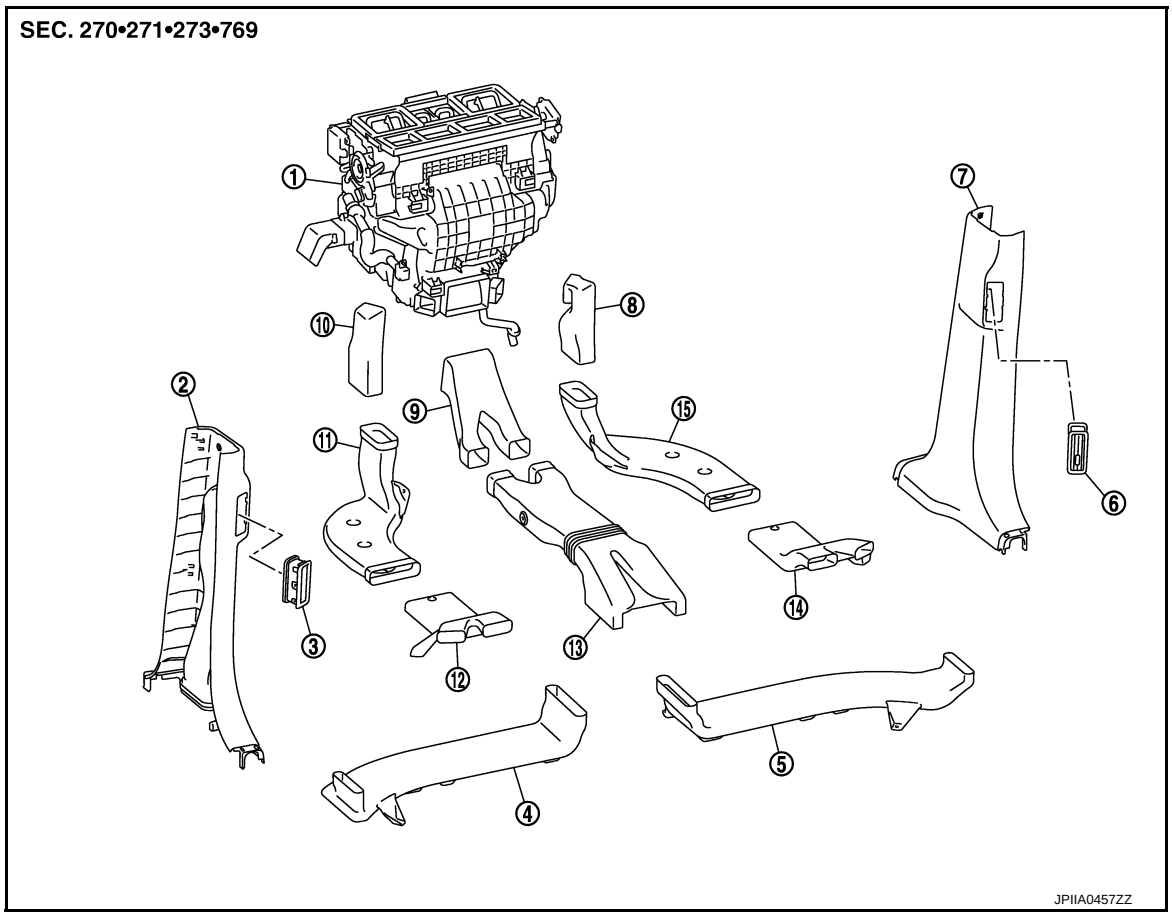
INSTALLATION

Install in the reverse order of removal.

REAR FOOT DUCT 3

REAR FOOT DUCT 3 : Exploded View

INFOID:0000000005517242



1.	Heater & cooling unit assembly	2.	Rear ventilator duct 4 (center pillar lower garnish left)	3.	Rear ventilator grille (left)
4.	Rear ventilator duct 3 (left)	5.	Rear ventilator duct 3 (right)	6.	Rear ventilator grille (right)
7.	Rear ventilator duct 4 (center pillar lower garnish right)	8.	Rear foot duct 1 (right)	9.	Rear ventilator duct 1
10.	Rear foot duct 1 (left)	11.	Rear foot duct 2 (left)	12.	Rear foot duct 3 (left)
13.	Rear ventilator duct 2	14.	Rear foot duct 3 (right)	15.	Rear foot duct 2 (right)

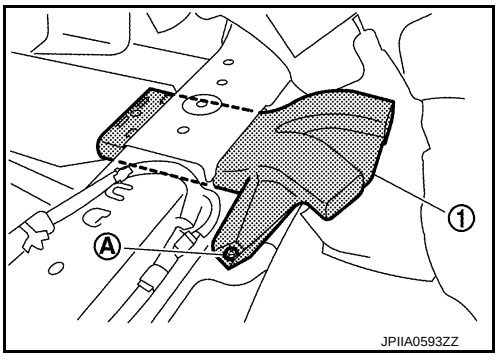
REAR FOOT DUCT 3 : Removal and Installation

INFOID:0000000005517243

REMOVAL

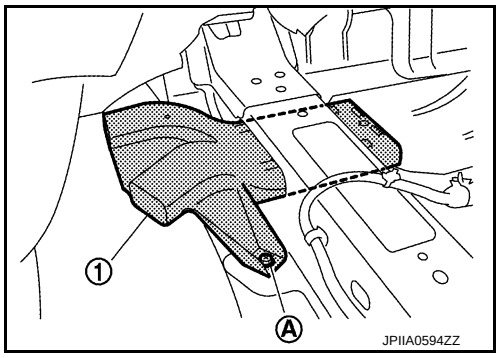
Driver side

1. Remove the rear foot duct 2 (left). Refer to VTL-124, "REAR FOOT DUCT 2 : Exploded View".
2. Remove the mounting screw (A), and then remove the rear foot duct 3 (left) (1).



Passenger side

1. Remove the rear foot duct 2 (right). Refer to VTL-124, "REAR FOOT DUCT 2 : Exploded View".
2. Remove the mounting screw (A), and then remove the rear foot duct 3 (right) (1).



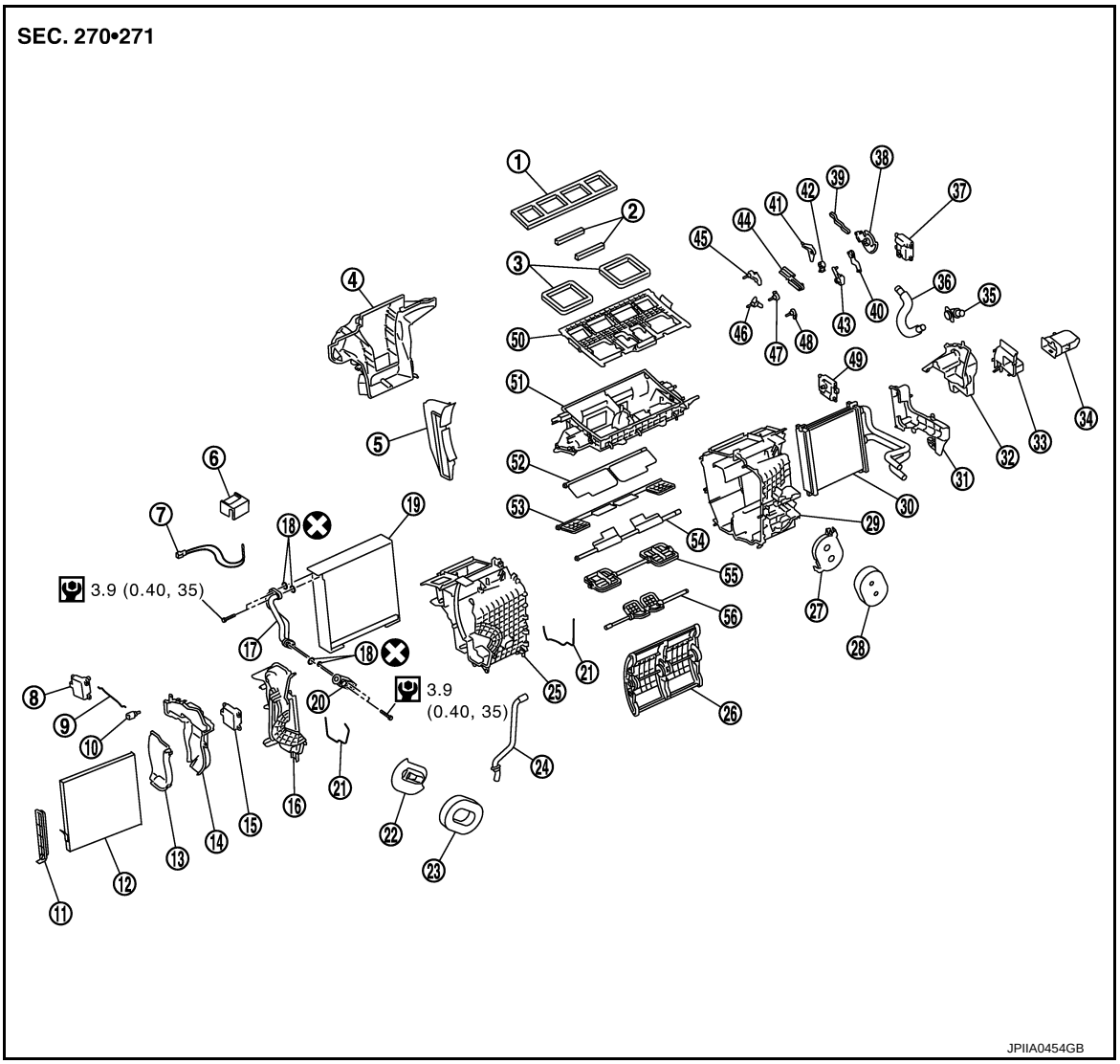
INSTALLATION

Install in the reverse order of removal.

HEATER DUCT

HEATER DUCT : Exploded View

INFOID:0000000005674597



1. Ventilator seal
2. Upper ventilator seal
3. Defroster seal
4. Adapter case
5. Center case
6. Intake sensor bracket
7. Intake sensor
8. Upper ventilator door motor
9. Upper ventilator door rod

10. Upper ventilator door lever
11. Filter cover
12. In-cabin microfilter/Air conditioner filter*
13. Foot duct 1 (right)
14. Foot duct 2 (right)
15. Air mix door motor (passenger side)
16. Heater & cooling unit case cover
17. Evaporator pipe assembly
18. O-ring
19. Evaporator
20. Expansion valve
21. Case packing
22. Grommet
23. Cooler pipe grommet
24. Drain hose
25. Heater & cooling unit case (right)
26. Air mix door (Slide door)
27. Heater pipe support
28. Heater pipe grommet
29. Heater & cooling unit case (left)
30. Heater core
31. Heater pipe cover
32. Foot duct 2 (left)
33. Foot duct 1 (left)
34. Heater duct
35. Aspirator
36. Aspirator hose
37. Mode door motor
38. Main link
39. Rod link
40. Max. cool door link
41. Ventilator door link
42. Foot door link
43. Mode door lever
44. Defroster door link
45. Ventilator door lever
46. Foot door lever
47. Defroster door lever
48. Max. cool door lever
49. Air mix door motor (driver side)
50. Distributor upper case
51. Distributor lower case
52. Ventilator door
53. Foot door
54. Max. cool door
55. Defroster door
56. Upper ventilator door

* : Models for Mexico.

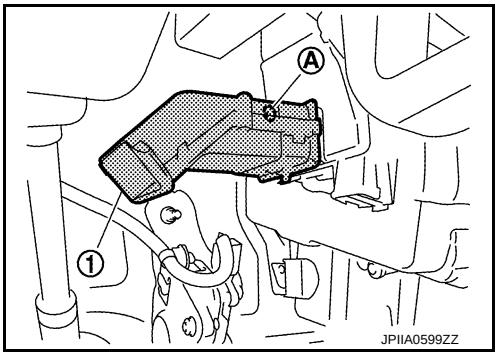
Refer to GI-4, "Components" for symbols in the figure.

HEATER DUCT : Removal and Installation

INFOID:0000000005517245

REMOVAL

1. Remove the instrument lower panel LH. Refer to IP-12, "Exploded View".
2. Remove the mounting screw (A), and then remove the heater duct (1).



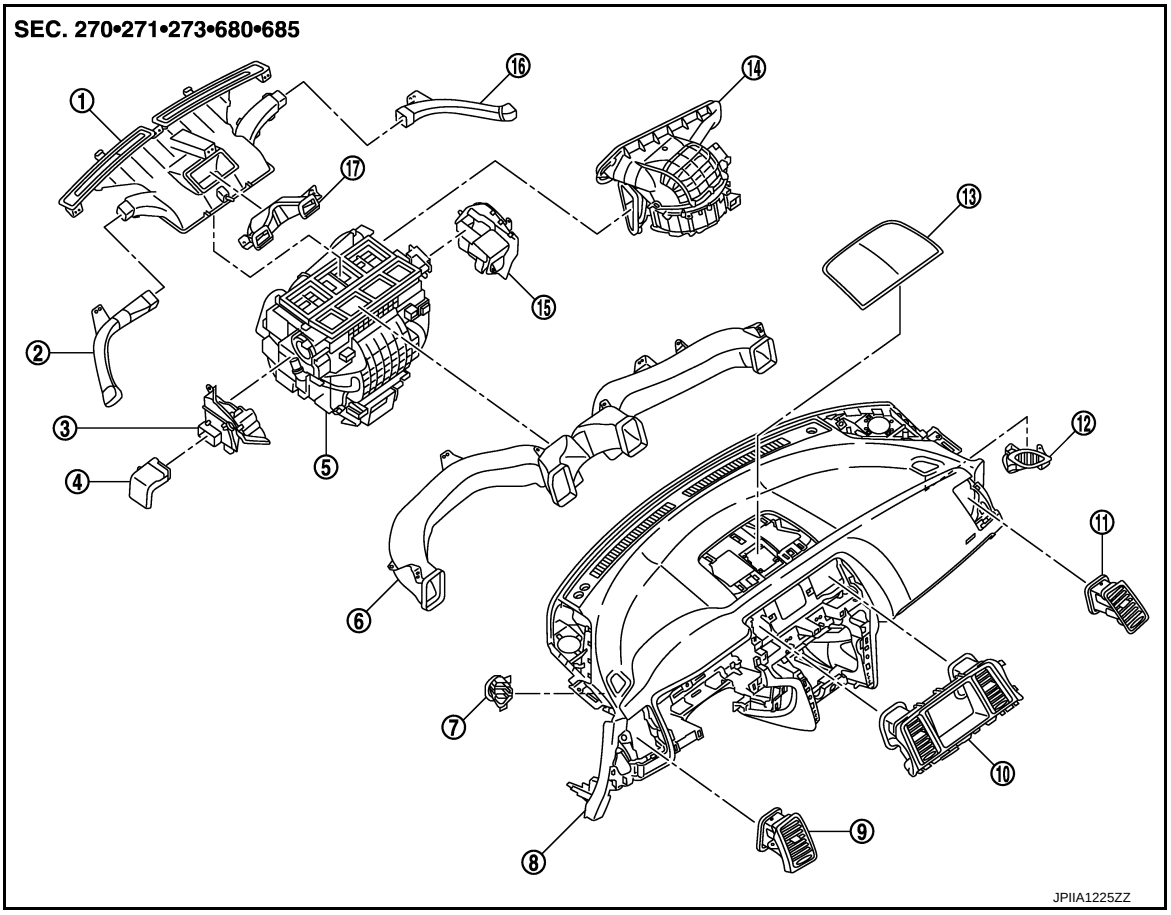
INSTALLATION

Install in the reverse order of removal.

FOOT DUCT

FOOT DUCT : Exploded View

INFOID:0000000005517246



1. Defroster nozzle
2. Side defroster nozzle (left)
3. Foot duct (left)
4. Heater duct
5. Heater & cooling unit assembly
6. Ventilator duct
7. Side defroster grille (left)
8. Instrument panel assembly
9. Side ventilator grille (left)
10. Center ventilator grille assembly
11. Side ventilator grille (right)
12. Side defroster grille (right)
13. Center speaker grille
14. Blower unit assembly
15. Foot duct (right)
16. Side defroster nozzle (right)
17. Upper ventilator duct

FOOT DUCT : Removal and Installation

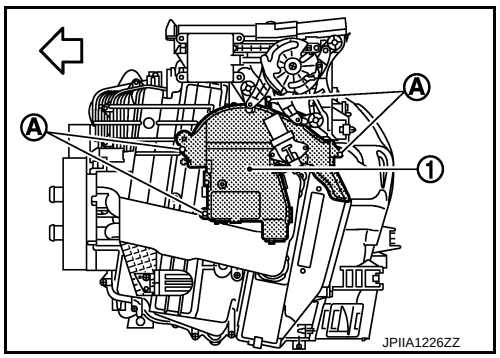
INFOID:0000000005517247

REMOVAL

Driver side

1. Remove instrument lower panel LH. Refer to IP-12, "Exploded View".
2. Remove mounting screws (A), and then remove foot duct (left) (1).

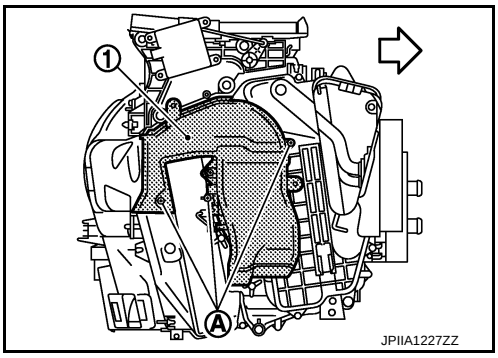
⇦ : Vehicle front



Passenger side

1. Remove blower unit assembly. Refer to VTL-92, "Exploded View".
2. Remove mounting screws (A) and harness clip, and then remove foot duct (right) (1).

⇦ : Vehicle front



INSTALLATION

Installation is basically the reverse order of removal.