

SECTION **VTL** VENTILATION SYSTEM

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SWITCHES AND THEIR CONTROL FUNCTION

< FUNCTION DIAGNOSIS >

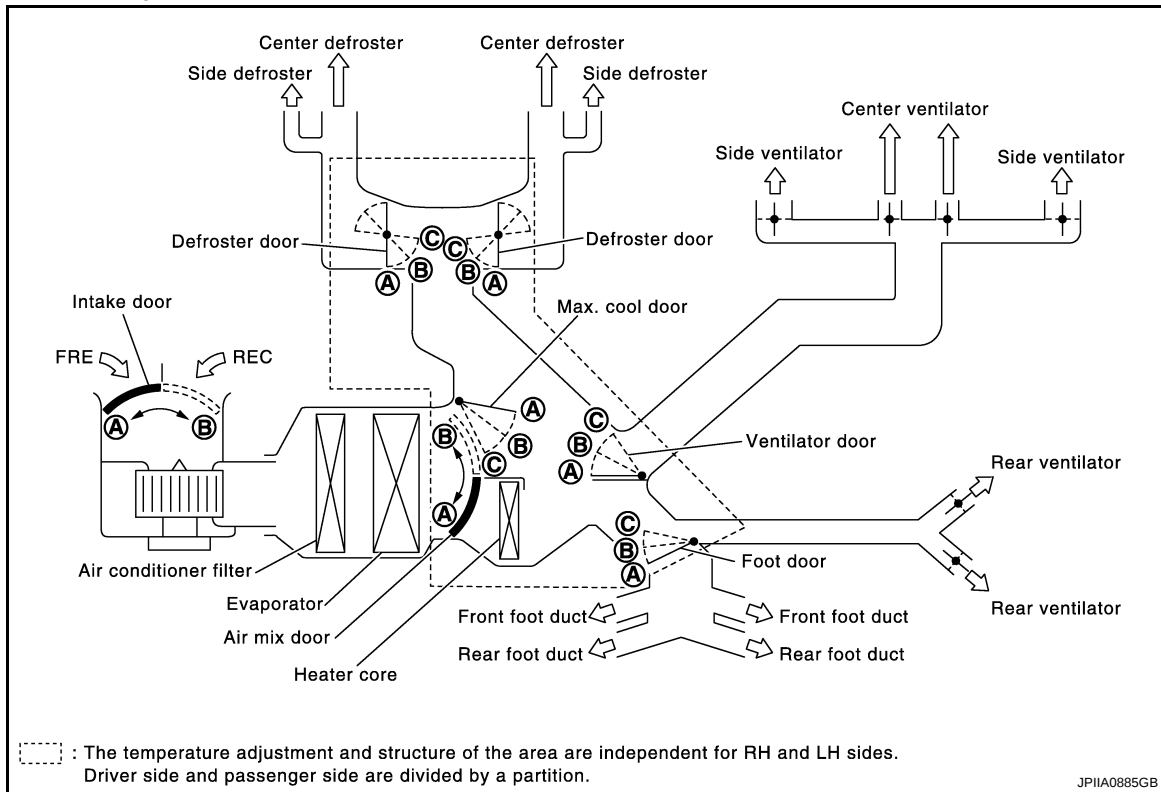
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FUNCTION DIAGNOSIS

SWITCHES AND THEIR CONTROL FUNCTION

System Description

INFOID:000000003774638



Position or switch	DUAL switch	MODE switch				DEF switch		AUTO switch	Intake switch		Temperature control switch(Driver side)		Temperature control switch(Passenger side)		OFF switch
	☐ DUAL	VENT	B/L	FOOT	D/F	ON	OFF	☐ AUTO	REC	FRE					
											18°C (60°F)	32°C (90°F)	18°C (60°F)	32°C (90°F)	
	Door	MODE						AUTO							
Ventilator door	—	(A)	(B)	(C)	(C)	(C)		AUTO		—					(C)
Max.cool door	—	(A)	(B)	(B)	(B)	(C)				—					(B)
Defroster door	—	(A)	(A)	(B)	(B)	(C)				—					(B)
Foot door	—	(A)	(B)	(C)	(B)	(A)				—					(C)
Intake door	—	—				(B)				(A)* (B)*					(B)
Air mix door (Driver side)	—	—				—				—	(A) AUTO (B)				
Air mix door (Passenger side)	ON	—				—				—			(A) AUTO (B)		
	OFF	—				—				—	(A) AUTO (B)				

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

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AIR DISTRIBUTION

< FUNCTION DIAGNOSIS >

[WITHOUT 7 INCH DISPLAY]

AIR DISTRIBUTION

System Description

INFOID:000000003774639

Discharge air flow						
Mode position indication	Condition	Air outlet/distribution				
		VENT		FOOT		DEF
		Front	Rear	Front	Rear	
	DUAL switch: OFF Rear ventilator : OPEN	89%	11%	—	—	—
		46%	17%	27%	10%	—
		14%	16%	34%	14%	22%
		12%	16%	27%	13%	32%
		11%	12%	—	—	77%

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PRECAUTION

PRECAUTIONS

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

INFOID:000000003845339

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 AIRBAG" 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 AIRBAG".
- Never 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.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000003845340

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.

This vehicle is equipped with a push-button ignition switch and a 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 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.

PRECAUTIONS

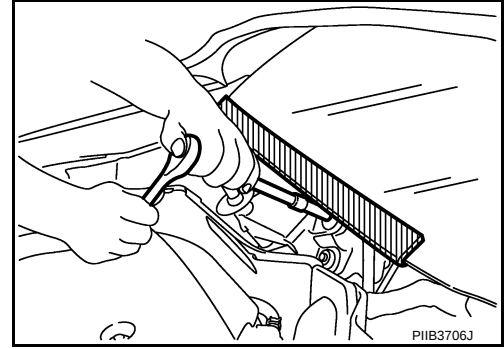
< PRECAUTION >

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Precaution for Procedure without Cowl Top Cover

INFOID:000000003802519

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



Precautions For Xenon Headlamp Service

INFOID:000000003802520

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:000000003802521

CAUTION:

- CFC-12 (R-12) refrigerant and HFC-134a (R-134a) refrigerant are not compatible. These refrigerants must never be mixed, even in the smallest amounts. Compressor malfunction is likely occur if the refrigerants are mixed.
- 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:
 - 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. Reseal immediately containers of lubricant. Lubricant becomes moisture saturated and should not be used without proper sealing.
 - Never allow lubricant (NISSAN A/C System Oil Type S) to come in contact with styrene foam parts. Damage may result.

General Refrigerant Precaution

INFOID:000000003802522

WARNING:

- Never breath A/C refrigerant and lubricant vapor or mist. Exposure may irritate eyes, nose and throat. Use only approved recovery/recycling equipment to discharge HFC-134a (R-134a) refrigerant.

PRECAUTIONS

< PRECAUTION >

[WITHOUT 7 INCH DISPLAY]

- Ventilate 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.
- Wear always 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 been shown 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.

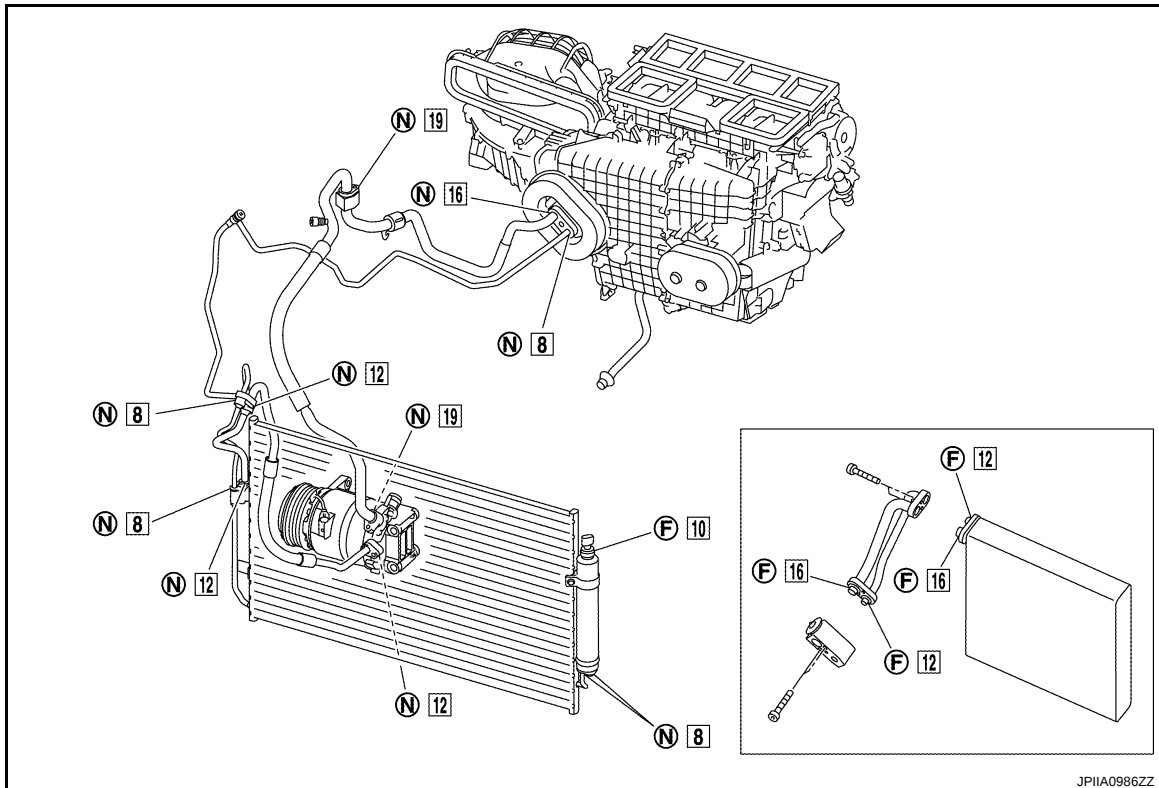
Refrigerant Connection

INFOID:000000003802523

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-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 a wrong O-ring is installed.

PRECAUTIONS

< PRECAUTION >

[WITHOUT 7 INCH DISPLAY]

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	19
	High-pressure pipe to condenser pipe assembly (Outlet)		92471 N8210	1	8
	Condenser pipe assembly (Inlet) to high-pressure flexible hose		92472 N8210	1	12
	Condenser assembly to condenser pipe assembly	Inlet	92472 N8210	1	12
		Outlet	92471 N8210	1	8
	Low-pressure pipe to expansion valve		92473 N8210	1	16
	High-pressure pipe to expansion valve		92471 N8210	1	8
	Compressor to low-pressure flexible hose		92474 N8210	1	19
	Compressor to high-pressure flexible hose		92472 N8210	1	12
	Liquid tank to condenser assembly	Inlet	92471 N8210	1	8
		Outlet		1	
Former	Refrigerant pressure sensor to liquid tank		J2476 89956	1	10
	Expansion valve to evaporator pipe assembly	Inlet	92475 71L00	1	12
		Outlet	92475 72L00	1	16
	Evaporator to evaporator pipe assembly	Inlet	92475 71L00	1	12
		Outlet	92475 72L00	1	16

WARNING:

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

CAUTION:

Observe the following 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 causes lubricant to enter the low-pressure chamber.
- Use always a torque wrench and a back-up wrench when connecting tubes.
- Plug immediately 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 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.
- Remove thoroughly moisture from the refrigeration system before charging the refrigerant.
- Replace always used O-rings.
- Apply lubricant to circle of the O-rings shown in illustration when connecting tube. Be careful not to apply lubricant to threaded portion.

Name : NISSAN A/C System Oil Type S

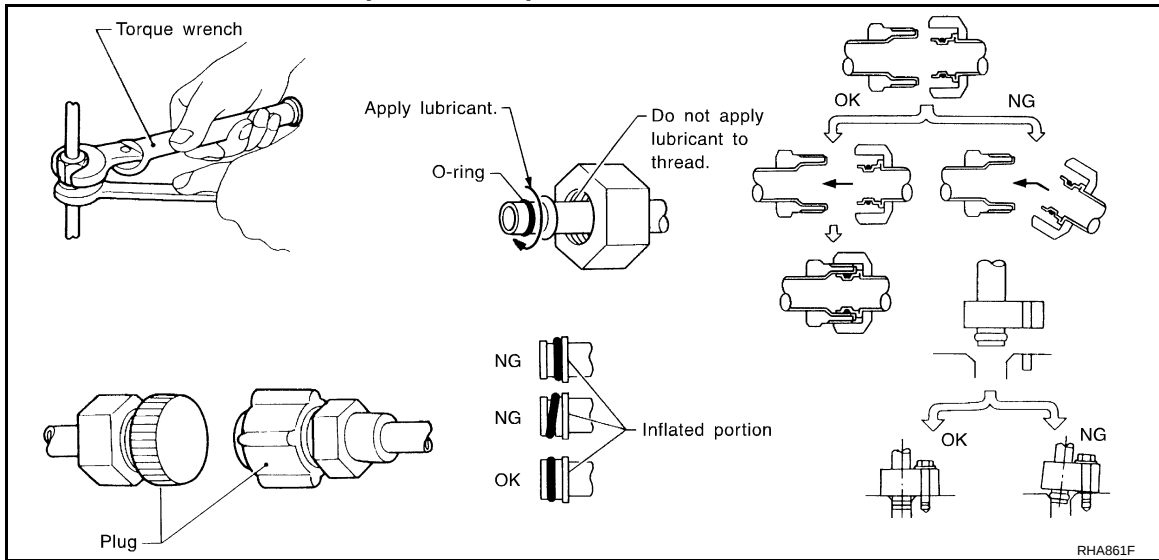
- O-ring must be closely attached to the groove portion of tube.
- Be careful not to damage O-ring and tube when replacing the O-ring.
- Connect tube until a click can be heard. Then tighten the nut or bolt by hand. Check that the O-ring is installed to tube correctly.

PRECAUTIONS

< PRECAUTION >

[WITHOUT 7 INCH DISPLAY]

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



Service Equipment

INFOID:000000003802524

RECOVERY/RECYCLING EQUIPMENT

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

ELECTRICAL LEAK DETECTOR

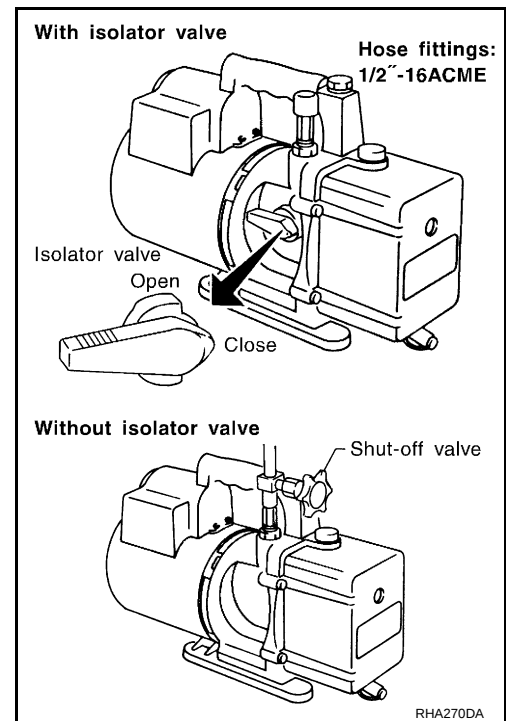
Be certain to follow the manufacturer's instructions for tester operation and tester maintenance.

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 hose is connected to it. To prevent this migration, use a manual valve placed near the hose-to-pump connection, as per the following.

- 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 no vacuum condition. Such valves may restrict the pump's ability to pull a deep vacuum and are not recommended.



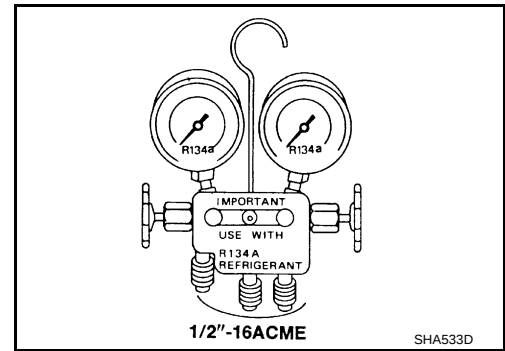
MANIFOLD GAUGE SET

PRECAUTIONS

< PRECAUTION >

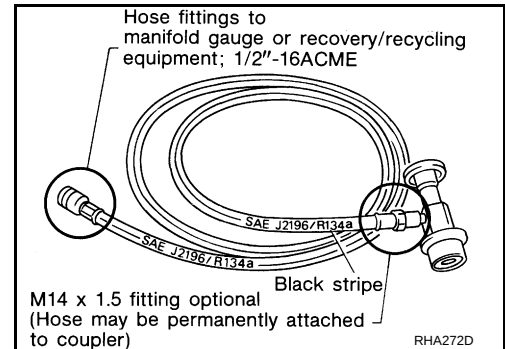
Be certain that the gauge face indicates HFC-134a or R-134a. Be sure the gauge set has 1/2"-16 ACME threaded connections for service hoses. Confirm the set has been used only with refrigerant HFC-134a (R-134a) and specified lubricants.

[WITHOUT 7 INCH DISPLAY]



SERVICE HOSES

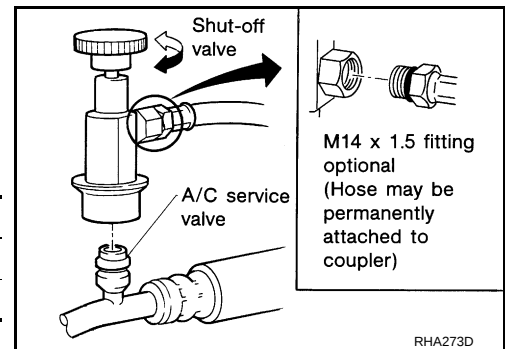
Be certain that the service hoses display the markings described (colored hose with black stripe). All hoses must equip positive shut-off devices (either manual or automatic) near the end of the hoses opposite to the manifold gauge.



SERVICE COUPLERS

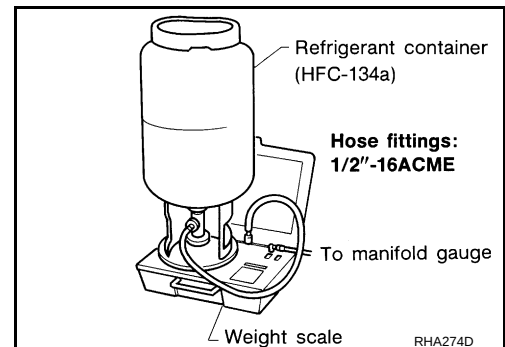
Never attempt to connect HFC-134a (R-134a) service couplers to a CFC-12 (R-12) A/C system. The HFC-134a (R-134a) couplers do not properly connect to the CFC-12 (R-12) system. However, if an improper connection is attempted, discharging and contamination may occur.

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.



CALIBRATING ACR4 WEIGHT SCALE

Calibrate the scale each three month.

To calibrate the weight scale on the ACR4:

1. Press **"Shift/Reset"** and **"Enter"** at the same time.
2. Press **"8787"**. **"A1"** is displayed.
3. Remove all weight from the scale.
4. Press **"0"**, then press **"Enter"**. **"0.00"** is displayed and change to **"A2"**.

PRECAUTIONS

< PRECAUTION >

[WITHOUT 7 INCH DISPLAY]

5. Place a known weight (dumbbell or similar weight), between 4.5 and 8.6 kg (10 and 19 lb.) on the center of the weight scale. A
6. Enter the known weight using four digits. (Example 10 lb. = 10.00, 10.5 lb. = 10.50)
7. Press **“Enter”**— the display returns to the vacuum mode.
8. Press **“Shift/Reset”** and **“Enter”** at the same time. B
9. Press **“6”**— the known weight on the scale is displayed.
10. Remove the known weight from the scale. **“0.00”** is displayed. C
11. Press **“Shift/Reset”** to return the ACR4 to the program mode.

CHARGING CYLINDER

Using a charging cylinder is not recommended. Refrigerant may be vented into air from cylinder's top valve 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. D

E

F

G

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COMPRESSOR

General Precautions

INFOID:000000003802525

CAUTION:

- Plug all openings to prevent moisture and foreign matter 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-28, "Maintenance of Lubricant Quantity"](#).
- Keep friction surfaces between clutch and pulley clean. Wipe it off by using a clean waste cloth 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 distributes equally 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 one and check for normal operation after replacing the compressor magnet clutch.

FLUORESCENT LEAK DETECTOR

< PRECAUTION >

[WITHOUT 7 INCH DISPLAY]

FLUORESCENT LEAK DETECTOR

General Precautions

INFOID:000000003802526

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.
- Wear always 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). The fluorescent dye leak detector should be used in conjunction with an electrical leak detector (SST) to pinpoint refrigerant leakages.
- Read and follow all manufacture's operating instructions and precautions prior to performing the work for the purpose of safety and customer's 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).
- Remove always any remaining dye from the leakage area after repairs are completed to avoid a misdiagnosis during a future service.
- Never allow dye to come into contact with painted body panels or interior components. Clean immediately 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 the 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, or 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 the identification label on the front side of hood.

PREPARATION

< PREPARATION >

[WITHOUT 7 INCH DISPLAY]

PREPARATION

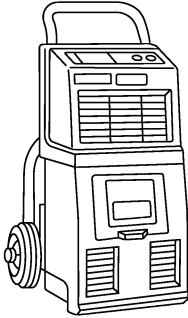
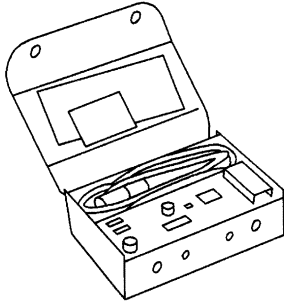
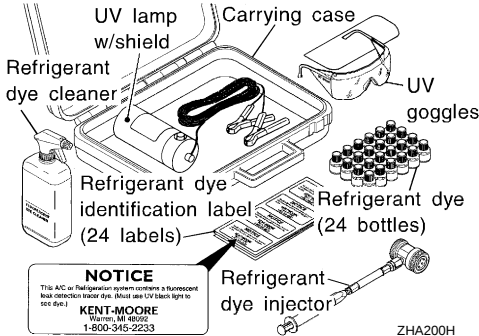
PREPARATION

Special Service Tool

INFOID:000000003802542

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

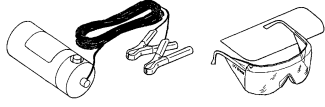
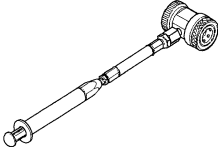
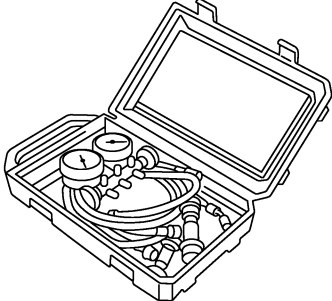
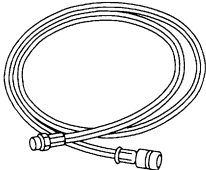
- Never mix HFC-134a (R-134a) refrigerant and/or its specified lubricant with CFC-12 (R-12) refrigerant and/or its lubricant.
- Separate and non-interchangeable service equipment must be used for handling each type of refrigerant/lubricant.
- Refrigerant container fittings, service hose fittings and service equipment fittings (equipment which 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 (SPX-North America No.) Tool name	Description
Recovery/recycling/recharging equipment (ACR4)  RJIA0195E	Function: Refrigerant recovery, recycling and recharging
Electrical leak detector  A/C leak detector SHA705EB	Power supply: DC 12 V (Cigarette lighter)
(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  NOTICE This A/C or Refrigerant system contains a fluorescent leak detection tracer dye. (Must use UV light to see dye.) KENT-MOORE Warren, MI 48090 1-800-245-2223 ZHA200H	Power supply: DC 12 V (Battery terminal)

PREPARATION

< PREPARATION >

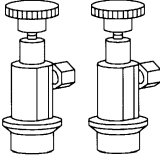
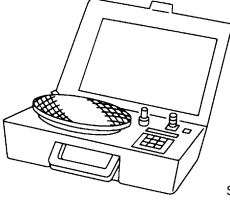
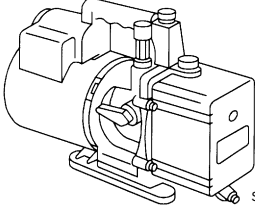
[WITHOUT 7 INCH DISPLAY]

Tool number (SPX-North America No.) Tool name	Description	
(J-42220) UV lamp and UV safety goggles  SHA438F	Power supply: DC 12 V (Battery terminal) For checking refrigerant leak when fluorescent dye is installed in A/C system Includes: UV lamp and UV safety goggles	A B C
(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.)	D E F
(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	G H
(J-43872) Refrigerant dye cleaner  SHA441F	For cleaning dye spills	VTL J
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	K L M N
Service hoses • High-pressure side hose • Low-pressure side hose • Utility hose  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	O P

PREPARATION

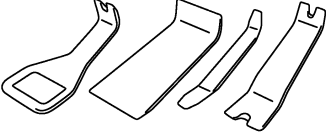
< PREPARATION >

[WITHOUT 7 INCH DISPLAY]

Tool number (SPX-North America No.) Tool name	Description
Service couplers • High-pressure side coupler • Low-pressure side coupler  S-NT202	Hose fitting to service hose: M14 x 1.5 fitting is optional or permanently attached.
Refrigerant weight scale  S-NT200	For measuring of refrigerant Fitting size: Thread size 1/2"-16 ACME
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:000000003774652

Tool name	Description
Remover tools  PIIB7923J	Remove clips, pawls, metal clips

Sealant or/and Lubricant

INFOID:000000003802543

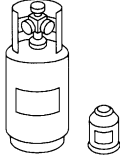
HFC-134a (R-134a) Service Tool and Equipment

- 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 which 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.

PREPARATION

< PREPARATION >

[WITHOUT 7 INCH DISPLAY]

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 mℓ (1.4 Imp fl oz.)

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VTL

AIR CONDITIONER FILTER

< ON-VEHICLE MAINTENANCE >

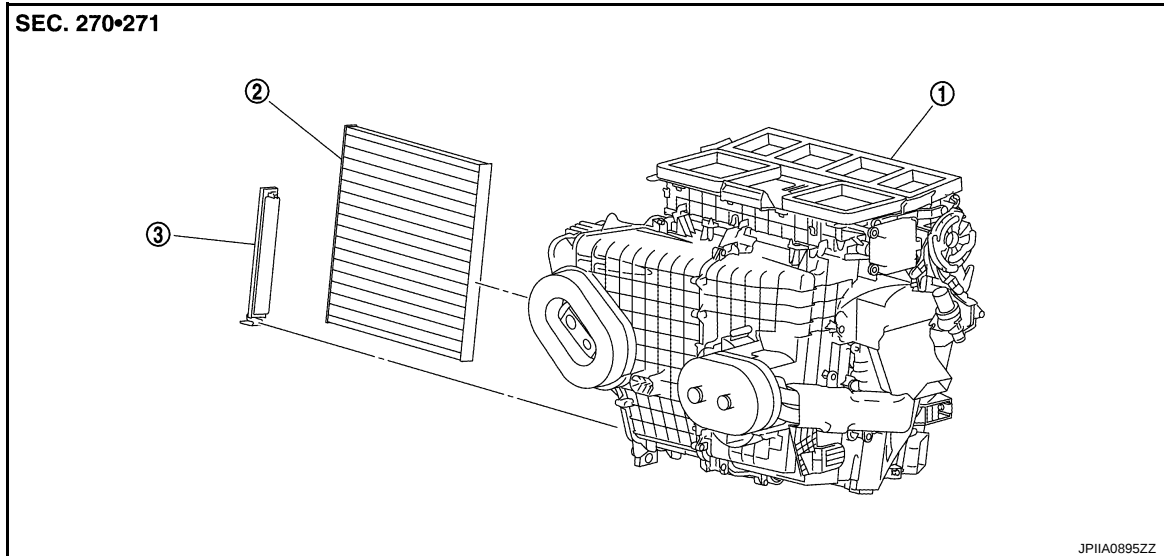
[WITHOUT 7 INCH DISPLAY]

ON-VEHICLE MAINTENANCE

AIR CONDITIONER FILTER

Exploded View

INFOID:000000003774654

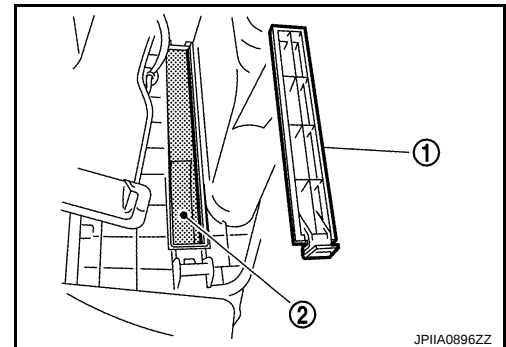


Removal and Installation

INFOID:000000003774655

REMOVAL

1. Remove filter cover (1), and then remove air conditioner filter (2).



INSTALLATION

Installation is basically the reverse order of removal.

CAUTION:

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

Replacement

INFOID:000000003774656

Replace air conditioner filter.

Refer to [MA-6. "Periodic Maintenance"](#).

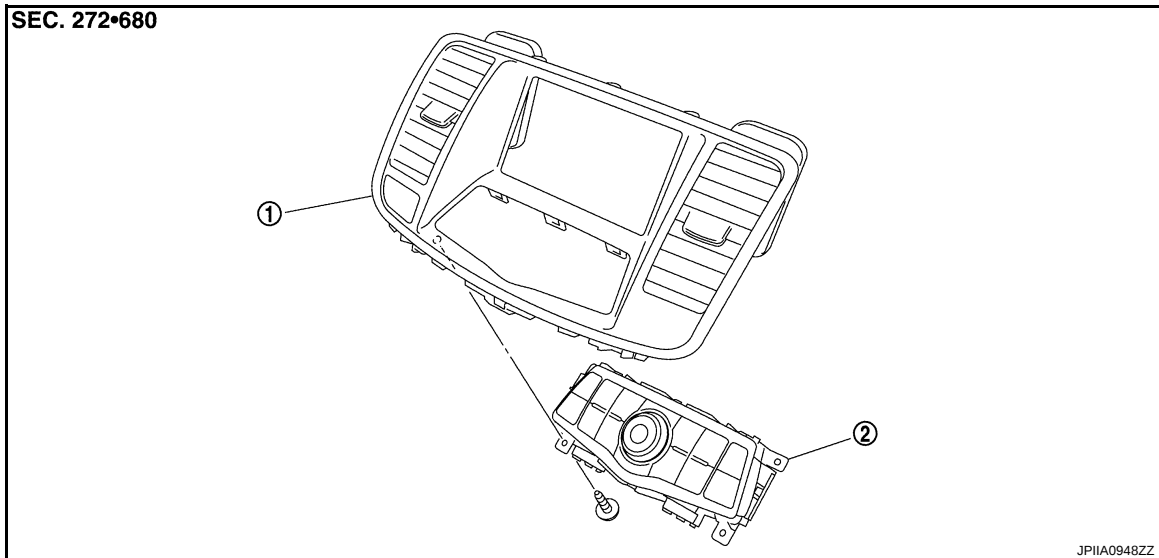
Affix a caution label inside the glove box when replacing filter.

ON-VEHICLE REPAIR

A/C CONTROL

Exploded View

INFOID:000000003774657



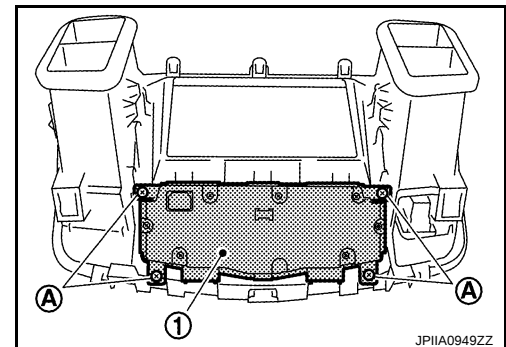
Removal and Installation

INFOID:000000003774658

VTL

REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting screws (A), and then remove A/C control (1).



INSTALLATION

Installation is basically the reverse order of removal.

A/C DISPLAY

< ON-VEHICLE REPAIR >

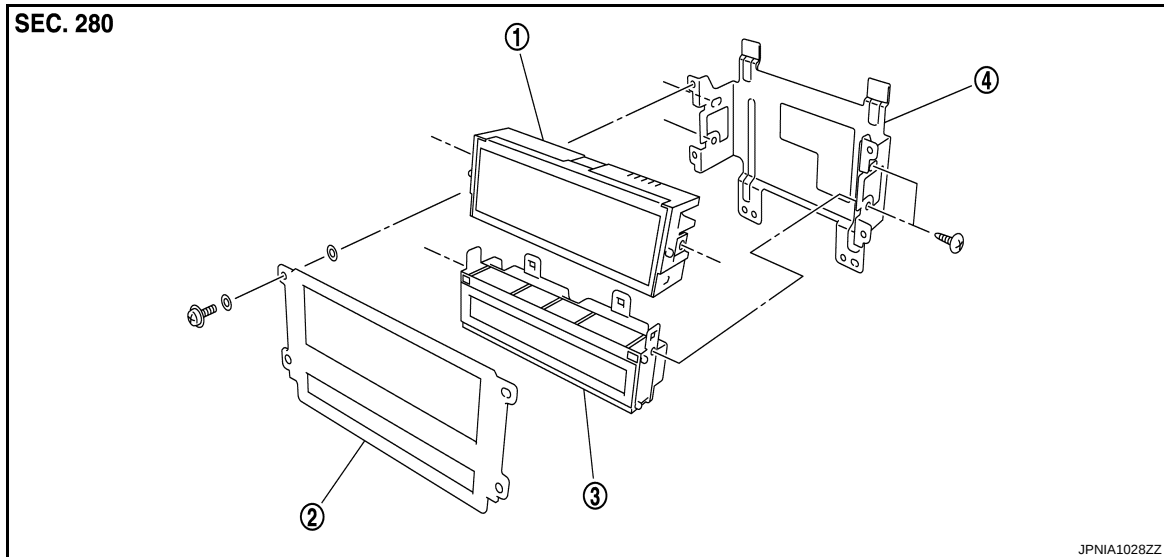
[WITHOUT 7 INCH DISPLAY]

A/C DISPLAY

Exploded View

INFOID:000000003774659

DISASSEMBLY



- 1. AV display
- 4. Bracket

2. CRT filter

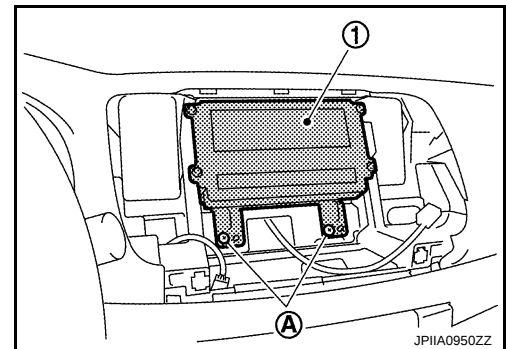
3. A/C display

Removal and Installation

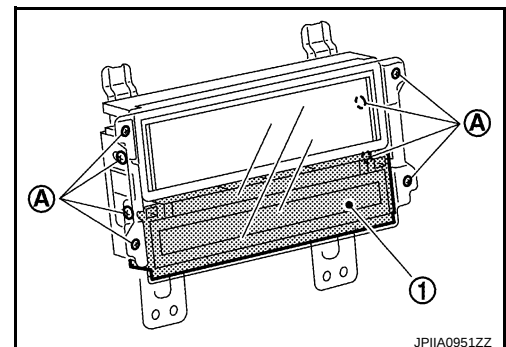
INFOID:000000003774660

REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting screws (A), and then remove audio display with bracket as a single unit (1).



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



INSTALLATION

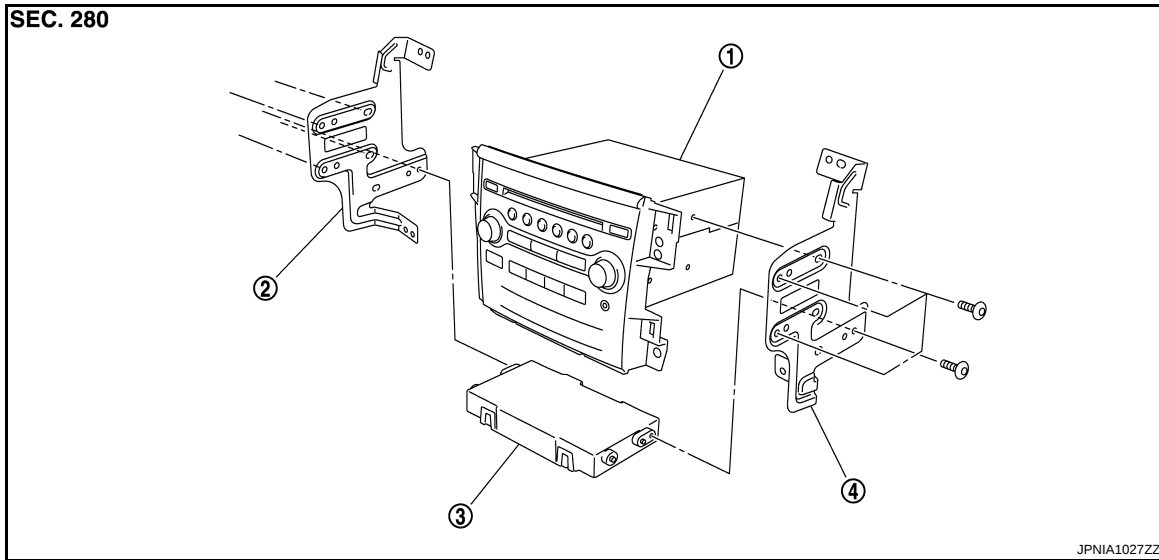
Installation is basically the reverse order of removal.

A/C AUTO AMP.

Exploded View

INFOID:000000003845419

DISASSEMBLY



1. Audio unit

2. Bracket LH

3. A/C auto amp.

4. Bracket RH

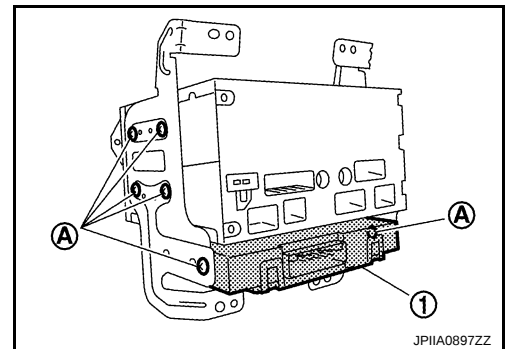
Removal and Installation

INFOID:000000003774662

VTL

REMOVAL

1. Remove audio unit. Refer to [AV-37, "Removal and Installation"](#).
2. Remove mounting screws (A), and then remove A/C auto amp. (1).



INSTALLATION

Installation is basically the reverse order of removal.

AMBIENT SENSOR

< ON-VEHICLE REPAIR >

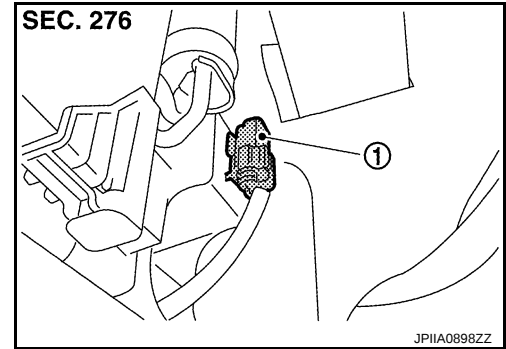
[WITHOUT 7 INCH DISPLAY]

AMBIENT SENSOR

Exploded View

INFOID:000000003774663

1. Ambient sensor

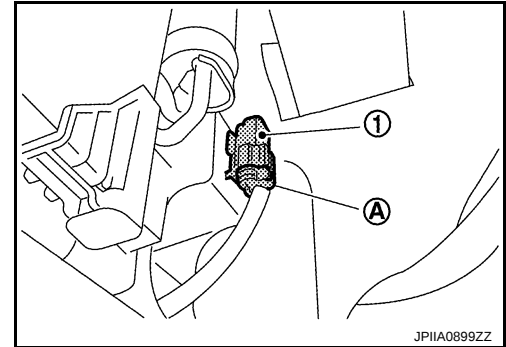


Removal and Installation

INFOID:000000003774664

REMOVAL

1. Remove engine under cover. Refer to [EXT-28, "Exploded View"](#).
2. Disconnect ambient sensor connector (A), and then remove ambient sensor (1).



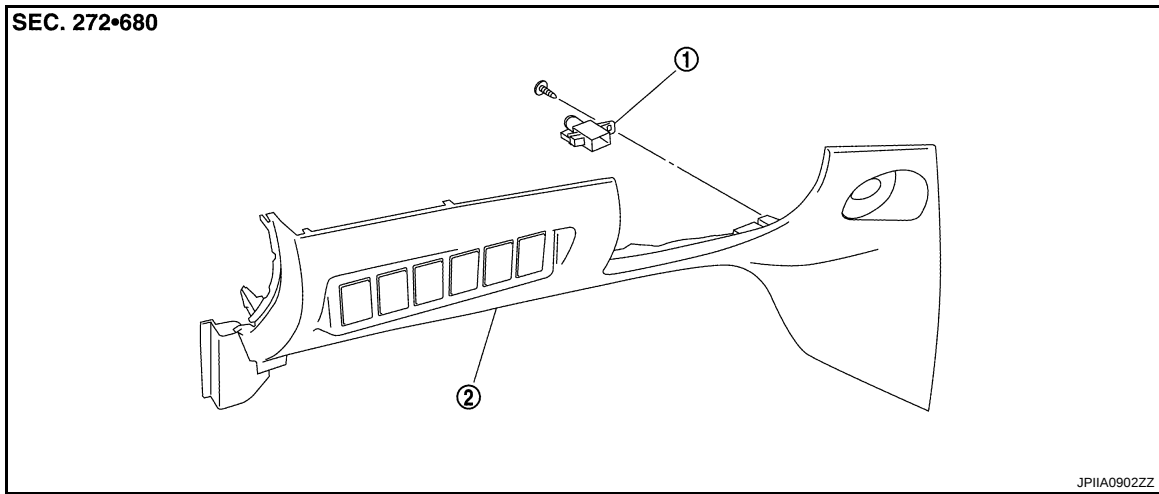
INSTALLATION

Installation is basically the reverse order of removal.

IN-VEHICLE SENSOR

Exploded View

INFOID:000000003774665



1. In-vehicle sensor

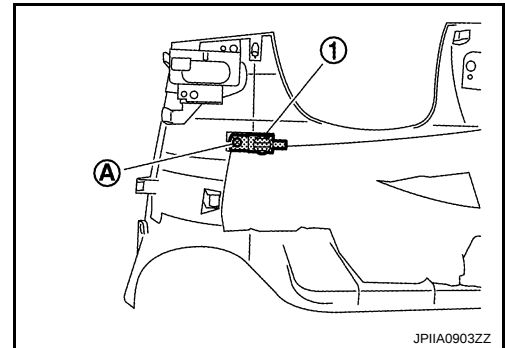
2. Instrument lower panel LH

Removal and Installation

INFOID:000000003774666

REMOVAL

1. Remove instrument lower panel LH. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting screw (A), and then remove in-vehicle sensor (1).



INSTALLATION

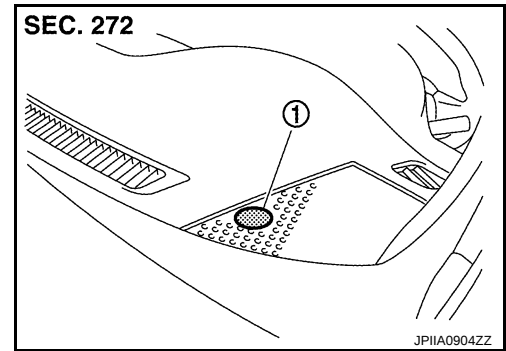
Installation is basically the reverse order of removal.

SUNLOAD SENSOR

Exploded View

INFOID:000000003774667

1. Sunload sensor

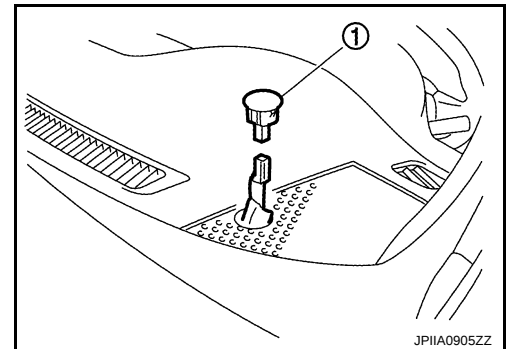


Removal and Installation

INFOID:000000003774668

REMOVAL

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



INSTALLATION

Installation is basically the reverse order of removal.

INTAKE SENSOR

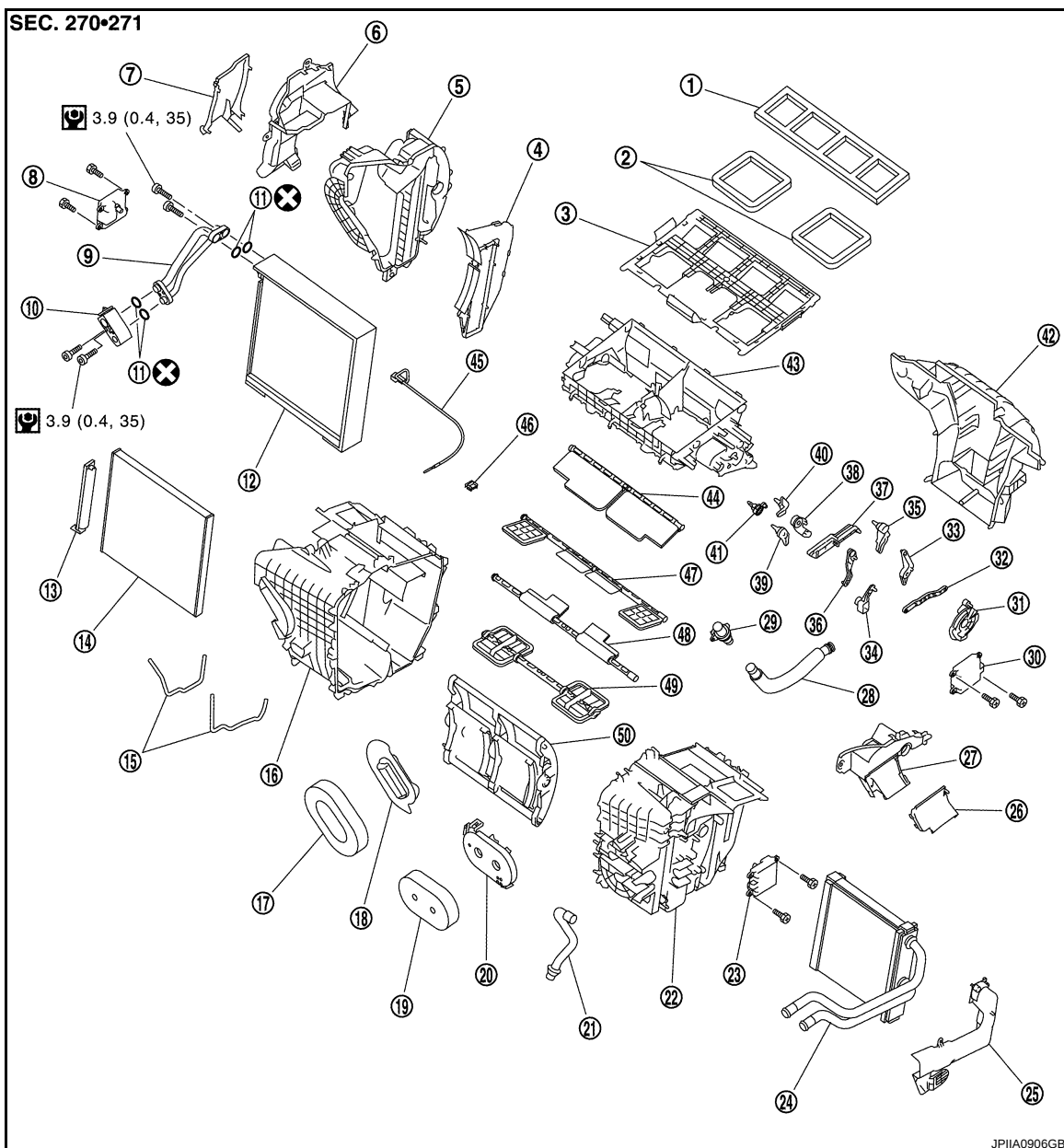
< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

INTAKE SENSOR

Exploded View

INFOID:000000003821339



- | | | |
|--|--|-----------------------------|
| 1. Ventilator seal | 2. Defroster seal | 3. Distributor upper case |
| 4. Center case | 5. Heater & cooling unit case cover | 6. Foot duct 1 (right) |
| 7. Foot duct 2 (right) | 8. Air mix door motor (passenger side) | 9. Evaporator pipe assembly |
| 10. Expansion valve | 11. O-ring | 12. Evaporator |
| 13. Filter cover | 14. Air conditioner filter | 15. Case packing |
| 16. Heater & cooling unit case (right) | 17. Cooler pipe grommet | 18. Grommet |
| 19. Heater pipe grommet | 20. Heater pipe support | 21. Drain hose |
| 22. Heater & cooling unit case (left) | 23. Air mix door motor (driver side) | 24. Heater core |
| 25. Heater pipe cover | 26. Foot duct 2 (left) | 27. Foot duct 1 (left) |
| 28. Aspirator hose | 29. Aspirator | 30. Mode door motor |
| 31. Main link | 32. Rod link | 33. Ventilator door link |
| 34. Mode door lever | 35. Ventilator door lever | 36. Max. cool door link |

INTAKE SENSOR

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

- | | | |
|----------------------------|-------------------------------|--------------------------|
| 37. Defroster door link | 38. Foot door link | 39. Max. cool door lever |
| 40. Foot door lever | 41. Defroster door lever | 42. Adapter case |
| 43. Distributor lower case | 44. Ventilator door | 45. Intake sensor |
| 46. Intake sensor bracket | 47. Foot door | 48. Max. cool door |
| 49. Defroster door | 50. Air mix door (Slide door) | |

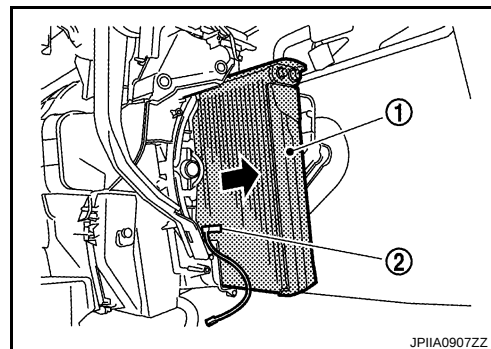
Refer to [GI-4. "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003774670

REMOVAL

1. Remove evaporator pipe assembly. Refer to [HA-54. "Exploded View"](#).
2. Disconnect intake sensor connector.
3. Slide evaporator (1) toward the right side of the vehicle (as shown in the figure), and then remove intake sensor (2).



INSTALLATION

Installation is basically the reverse order of removal.

CAUTION:

- Replace O-rings with new ones. Then apply compressor oil to them when installing.
- Mark the mounting position of intake sensor bracket prior to removal so that the reinstalled sensor can be located in the same position.
- Do not rotate the bracket insertion part when removing and installing the intake sensor.
- Check for refrigerant leakage when charging refrigerant.

BLOWER UNIT

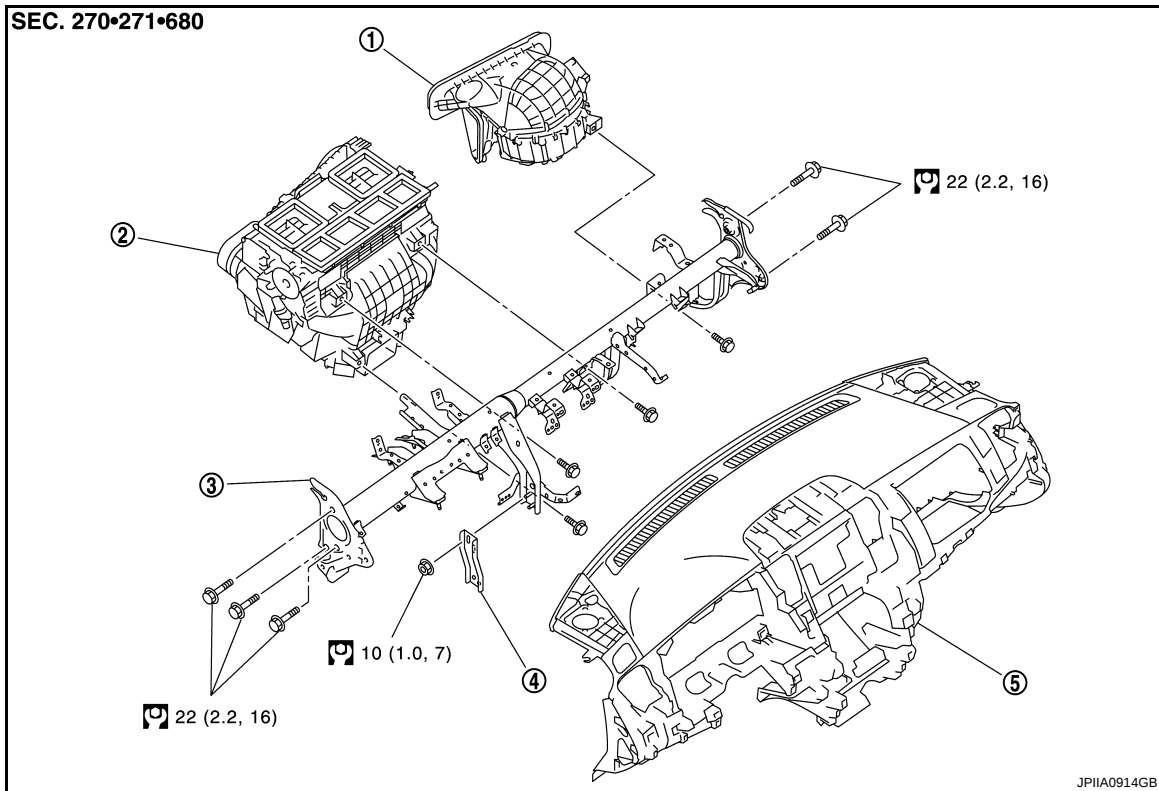
< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

BLOWER UNIT

Exploded View

INFOID:000000003774671



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|--------------------|-----------------------------------|--------------------|
| 1. Blower unit | 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.

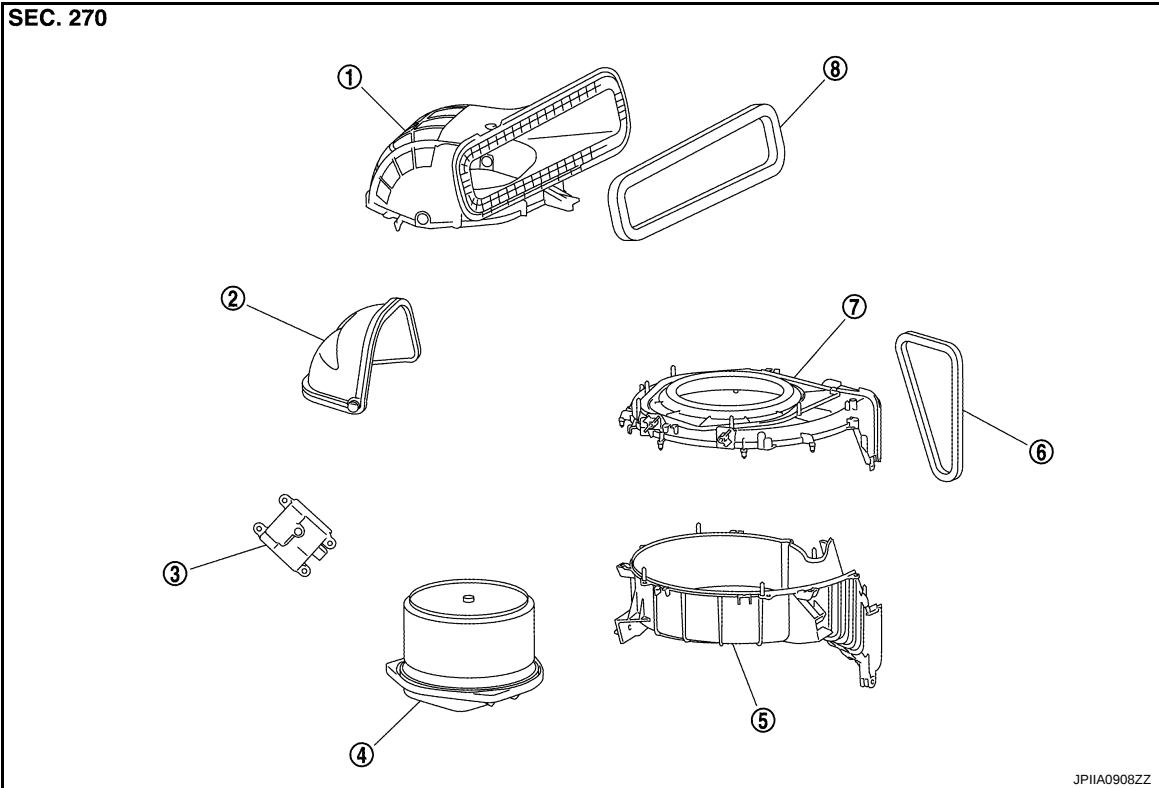
DISASSEMBLY

BLOWER UNIT

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

SEC. 270



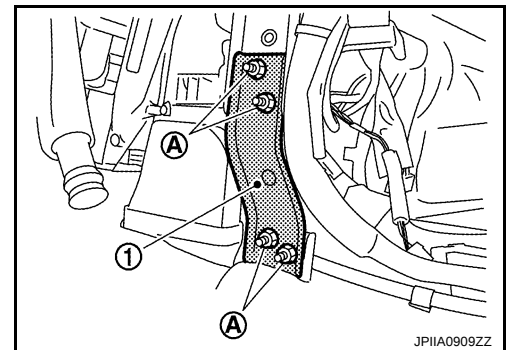
- | | | |
|----------------------|----------------------|----------------------|
| 1. Shutter box case | 2. Intake door | 3. Intake door motor |
| 4. Blower motor | 5. Intake lower case | 6. Outlet seal |
| 7. Intake upper case | 8. Intake seal | |

Removal and Installation

INFOID:000000003774672

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting nuts (A), and then remove instrument stay (1).



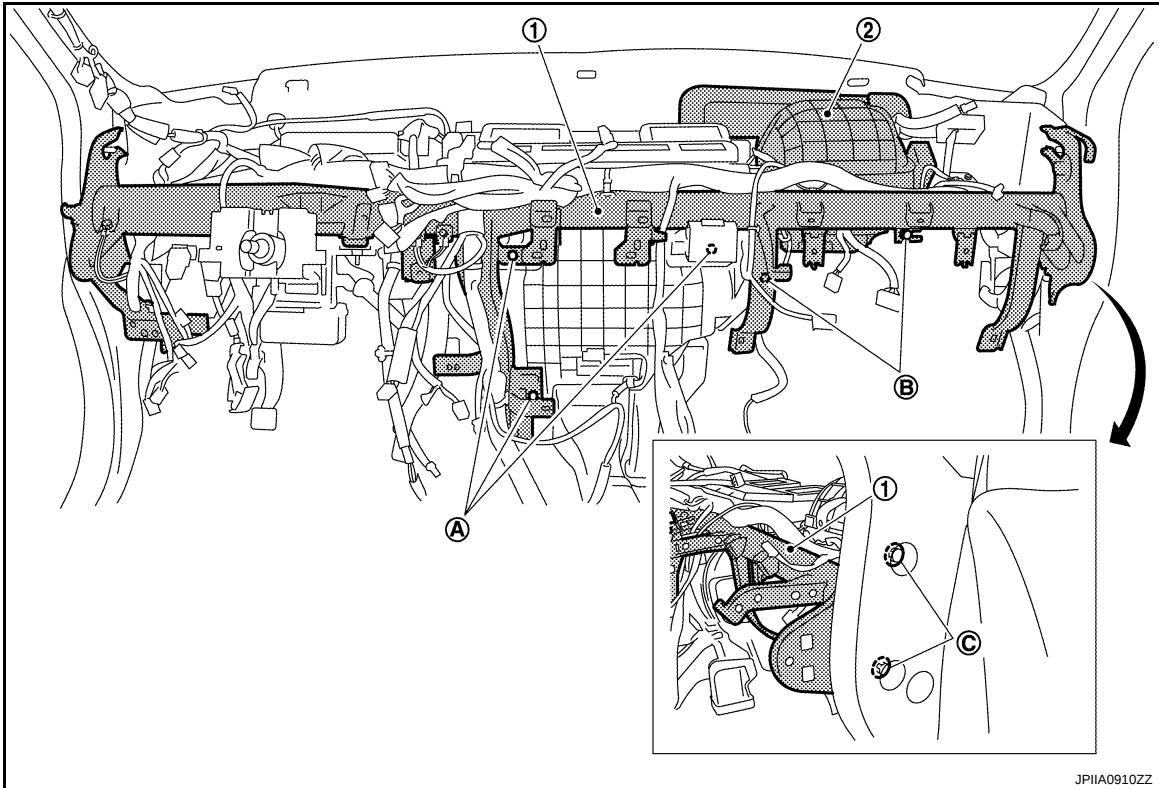
3. Disconnect intake door motor and blower motor connectors.

BLOWER UNIT

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

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



5. Remove steering member mounting bolts (C) (right).
6. Remove blower unit (2) while pulling steering member (1).

INSTALLATION

Installation is basically the reverse order of removal.

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BLOWER MOTOR

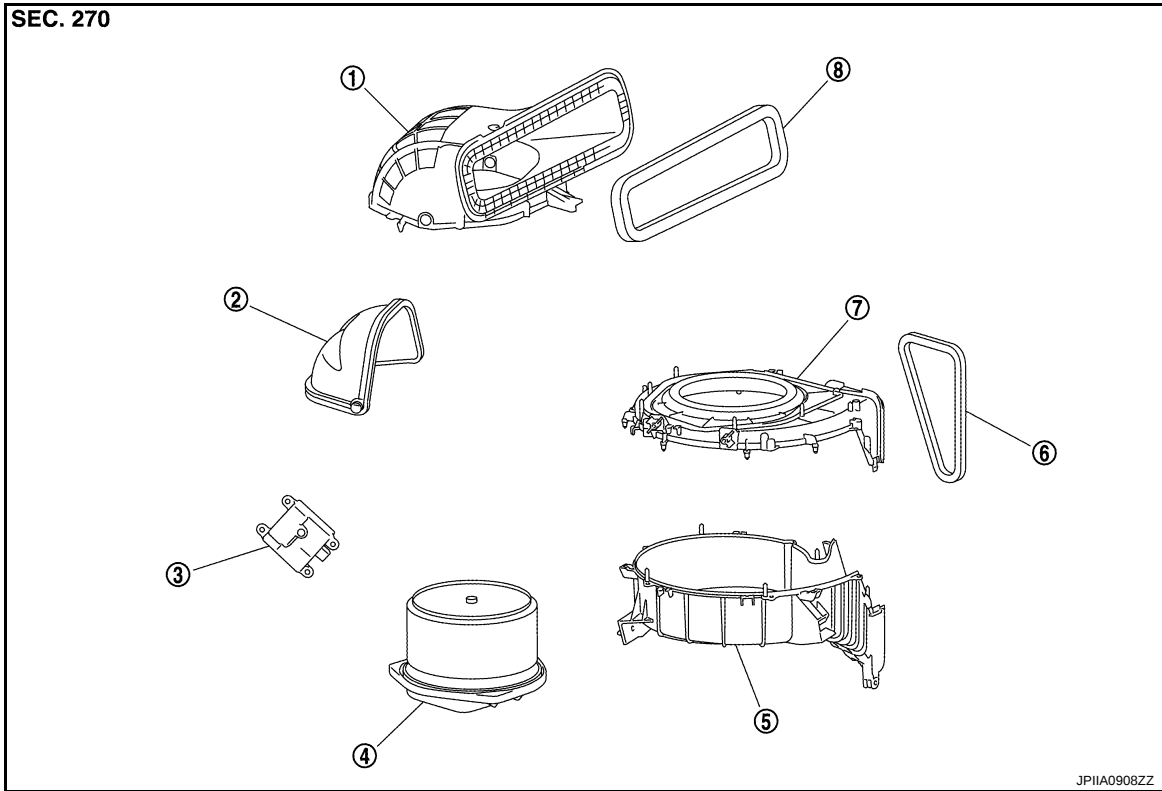
< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

BLOWER MOTOR

Exploded View

INFOID:000000003774673



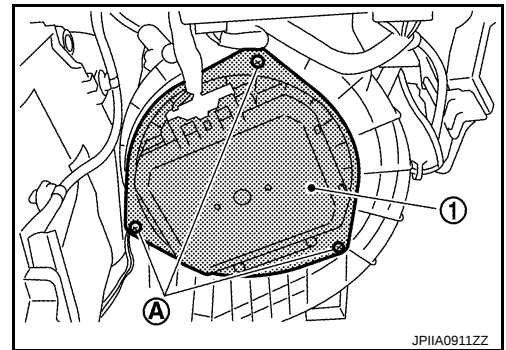
- | | | |
|----------------------|----------------------|----------------------|
| 1. Shutter box case | 2. Intake door | 3. Intake door motor |
| 4. Blower motor | 5. Intake lower case | 6. Outlet seal |
| 7. Intake upper case | 8. Intake seal | |

Removal and Installation

INFOID:000000003774674

REMOVAL

1. Remove globe box assembly. Refer to [IP-11, "Exploded View"](#).
2. Disconnect blower motor connector.
3. Remove mounting screws (A), and then remove blower motor (1).



INSTALLATION

Installation is basically the reverse order of removal.

INTAKE DOOR MOTOR

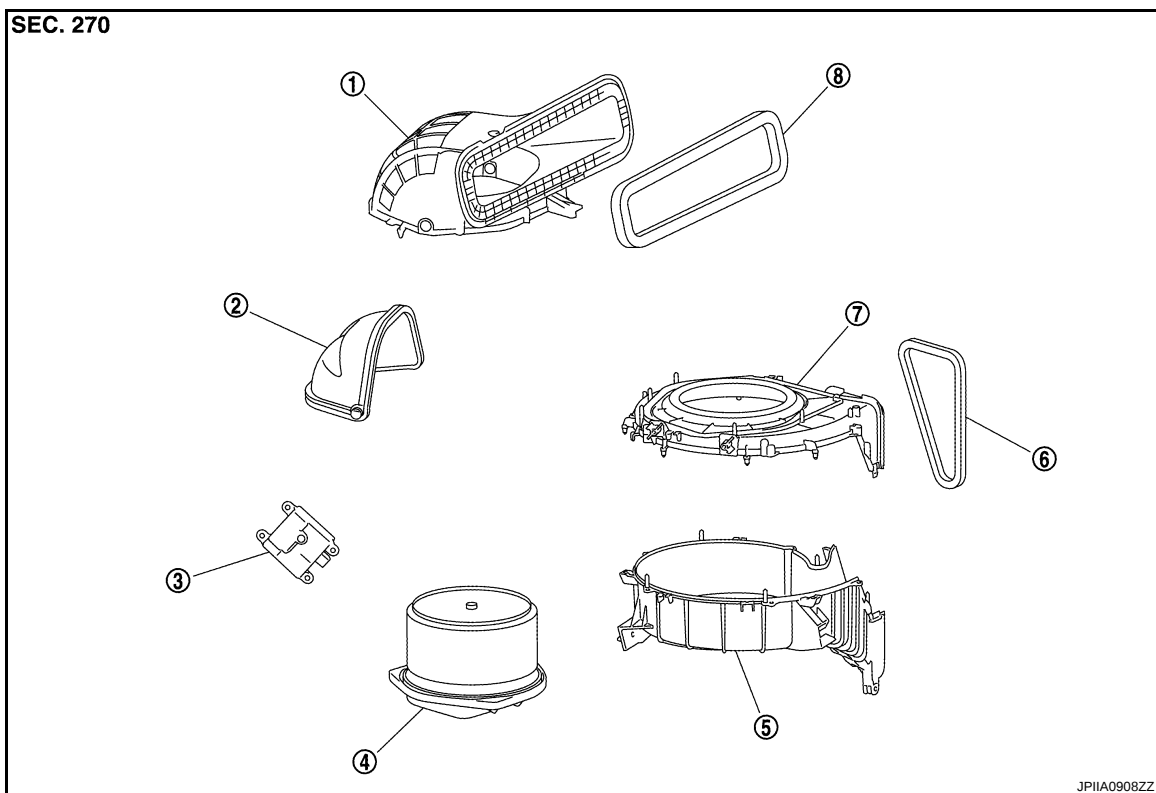
< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

INTAKE DOOR MOTOR

Exploded View

INFOID:000000003774675



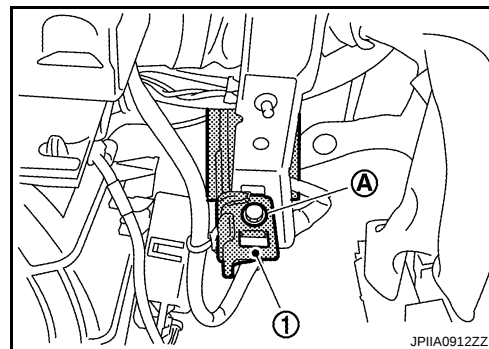
- | | | |
|----------------------|----------------------|----------------------|
| 1. Shutter box case | 2. Intake door | 3. Intake door motor |
| 4. Blower motor | 5. Intake lower case | 6. Outlet seal |
| 7. Intake upper case | 8. Intake seal | |

Removal and Installation

INFOID:000000003774676

REMOVAL

1. Remove globe box assembly. Refer to [JP-11, "Exploded View"](#).
2. Remove mounting screw (A), and then move remote keyless entry receiver (1) to a position where it does not inhibit work.

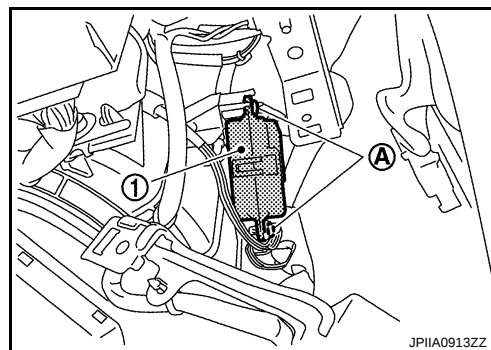


INTAKE DOOR MOTOR

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

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



INSTALLATION

Installation is basically the reverse order of removal.

HEATER & COOLING UNIT ASSEMBLY

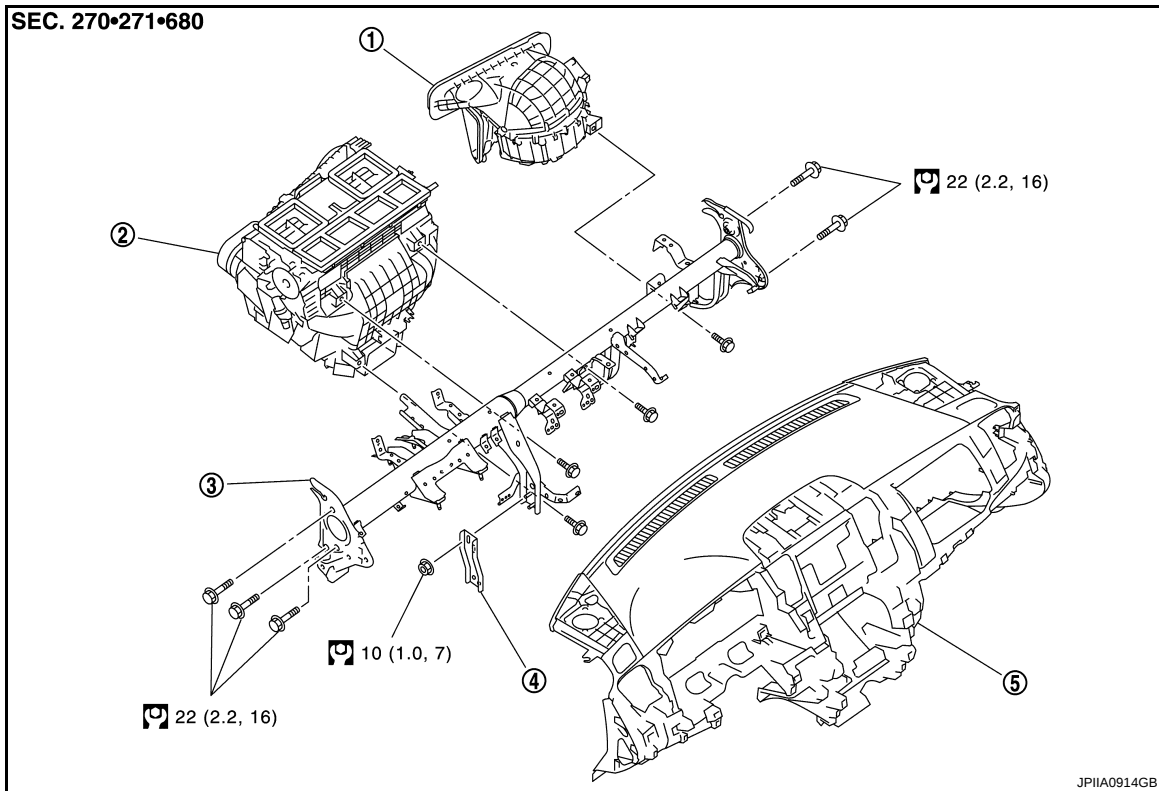
< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

HEATER & COOLING UNIT ASSEMBLY

Exploded View

INFOID:000000003774677



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

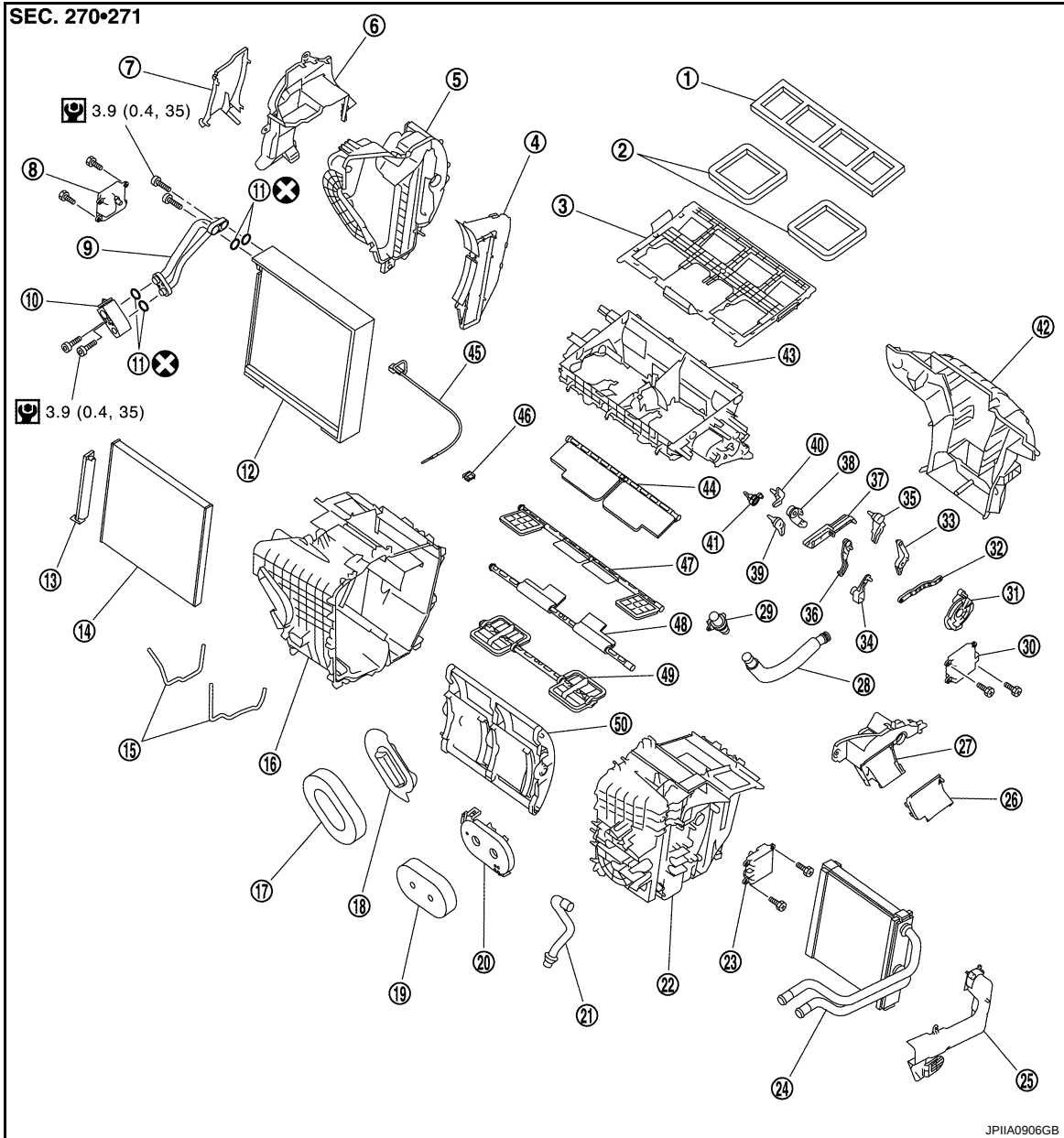
Refer to [GI-4, "Components"](#) for symbols in the figure.

DISASSEMBLY

HEATER & COOLING UNIT ASSEMBLY

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]



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

HEATER & COOLING UNIT ASSEMBLY

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

49. Defroster door

50. Air mix door (Slide door)

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

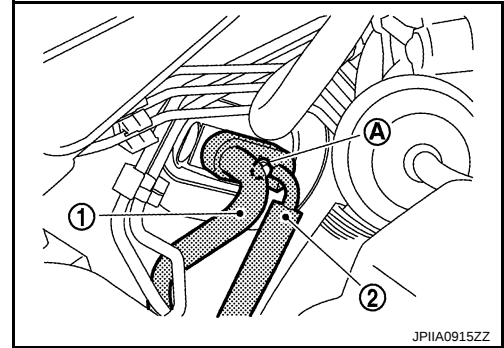
INFOID:000000003774678

REMOVAL

1. Collect the refrigerant with refrigerant collecting equipment (for HFC134a).
2. Drain engine coolant from cooling system. Refer to [CO-8, "Draining"](#).
3. Remove mounting bolt (A), and then disconnect low-pressure pipe (1) and high-pressure pipe (2) from the expansion valve.

CAUTION:

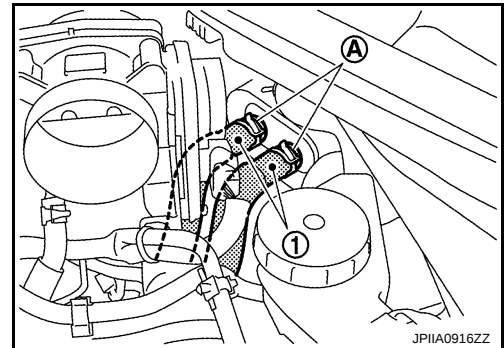
Cap or wrap the joint of the A/C piping and expansion valve with suitable material such as vinyl tape to avoid the entry of air.



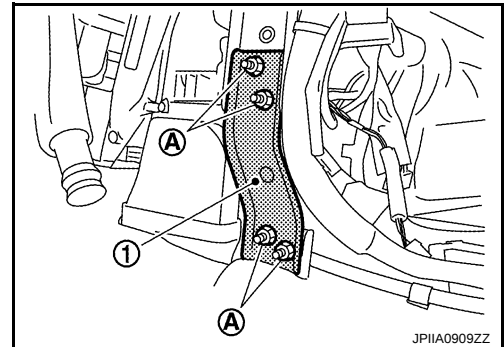
4. Remove air cleaner case and air duct. Refer to [EM-26, "Exploded View"](#)
5. Remove clamps (A), and then disconnect heater hoses (1).

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.



6. Remove instrument panel assembly. Refer to [IP-11, "Exploded View"](#).
7. Remove mounting nuts (A), and then remove instrument stay (1).

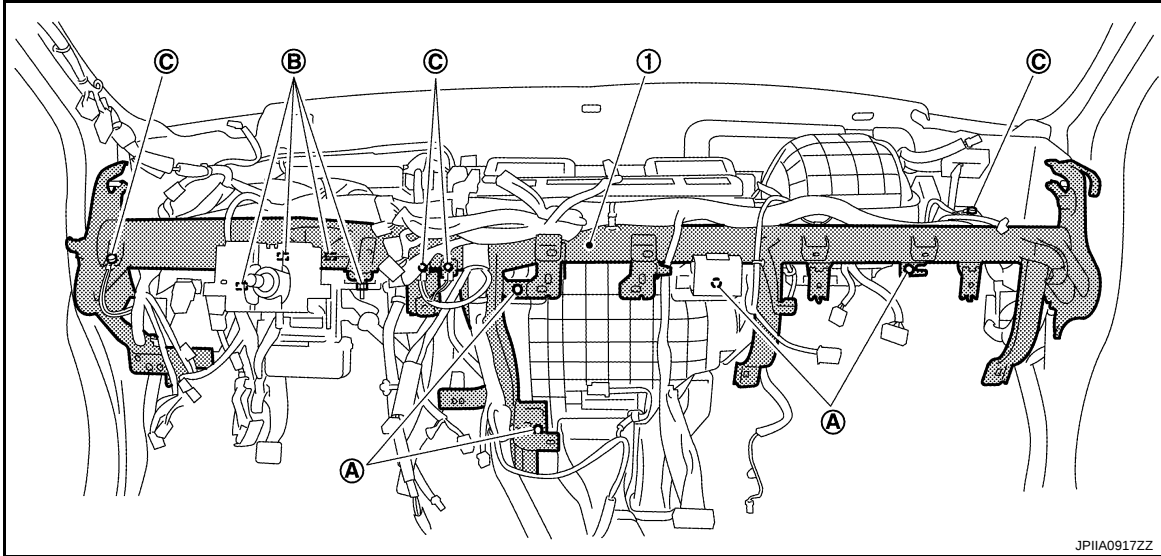


HEATER & COOLING UNIT ASSEMBLY

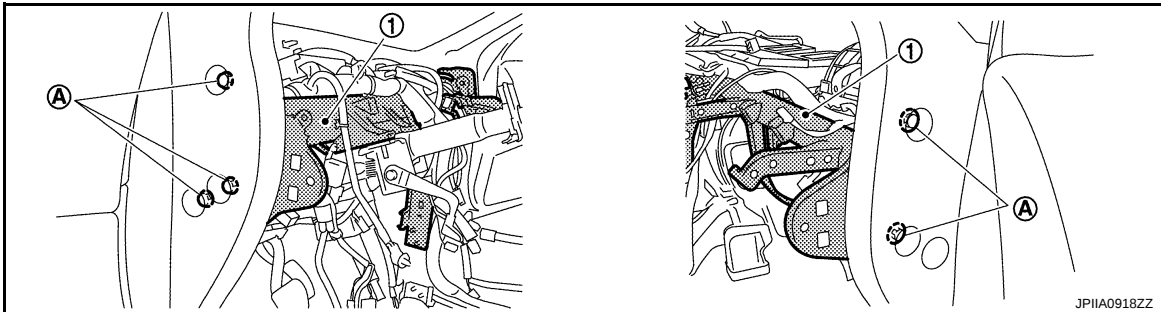
< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

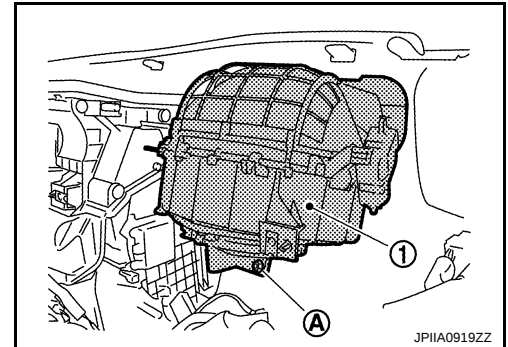
8. Remove mounting bolts (A) from heater & cooling unit assembly and blower unit.



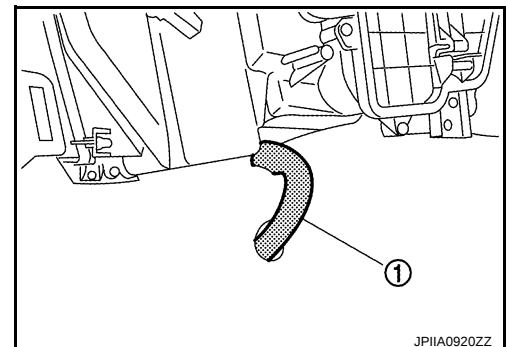
9. Remove steering column mounting nuts (B). Refer to [ST-13, "Exploded View"](#).
10. Remove ground bolts (C) from steering member (1).
11. Disconnect each harness connectors, and remove harness clips from steering member.
12. Remove mounting bolts (A), and then remove steering member (1).



13. Disconnect the intake door motor and blower motor connectors.
14. Remove mounting screws (A), and then remove blower unit (1).



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

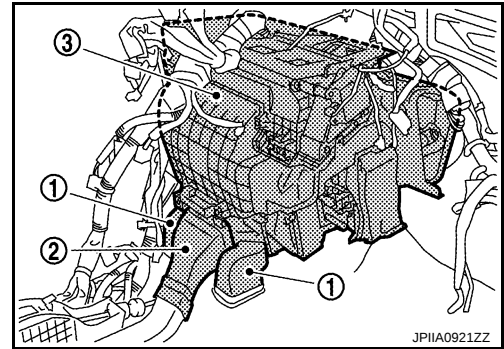


HEATER & COOLING UNIT ASSEMBLY

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

16. Remove floor duct 1 (left and right) (1) and rear ventilator duct 1 (2), and then remove heater & cooling unit assembly (3).



INSTALLATION

Installation is basically the reverse order of removal.

CAUTION:

- Replace O-rings with new ones. Then apply compressor oil to them when installing.
- Check for leakages when recharging refrigerant.

NOTE:

- Refer to [CO-9, "Refilling"](#) when filling radiator with engine coolant.
- Charge the refrigerant.

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MODE DOOR MOTOR

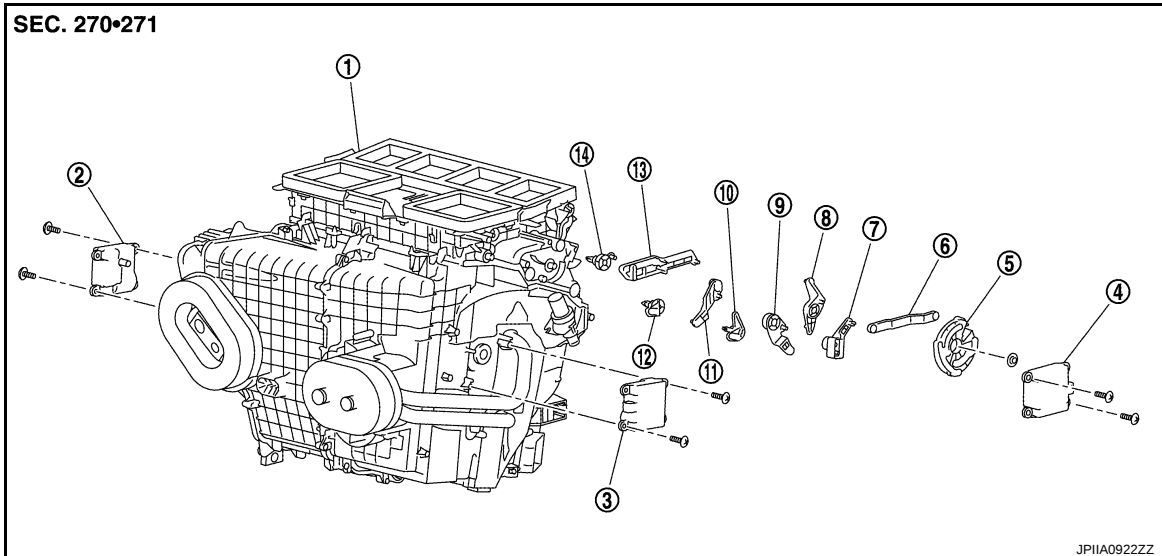
< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

MODE DOOR MOTOR

Exploded View

INFOID:000000003774681



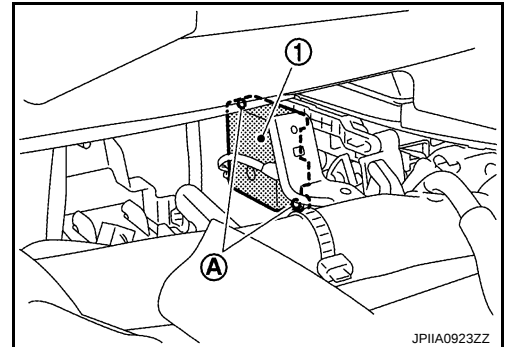
- | | | |
|-----------------------------------|--|-------------------------------------|
| 1. Heater & cooling unit assembly | 2. Air mix door motor (passenger side) | 3. Air mix door motor (driver side) |
| 4. Mode door motor | 5. Main link | 6. Rod link |
| 7. Mode door lever | 8. Ventilator door link | 9. Foot door link |
| 10. Foot door lever | 11. Max. cool door link | 12. Max. cool door lever |
| 13. Defroster door link | 14. Defroster door lever | |

Removal and Installation

INFOID:000000003774682

REMOVAL

1. Remove BCM. Refer to [BCS-78, "Exploded View"](#).
2. Remove mounting screws (A), and then remove mode door motor (1).
3. Disconnect mode door motor connector.



INSTALLATION

Installation is basically the reverse order of removal.

AIR MIX DOOR MOTOR

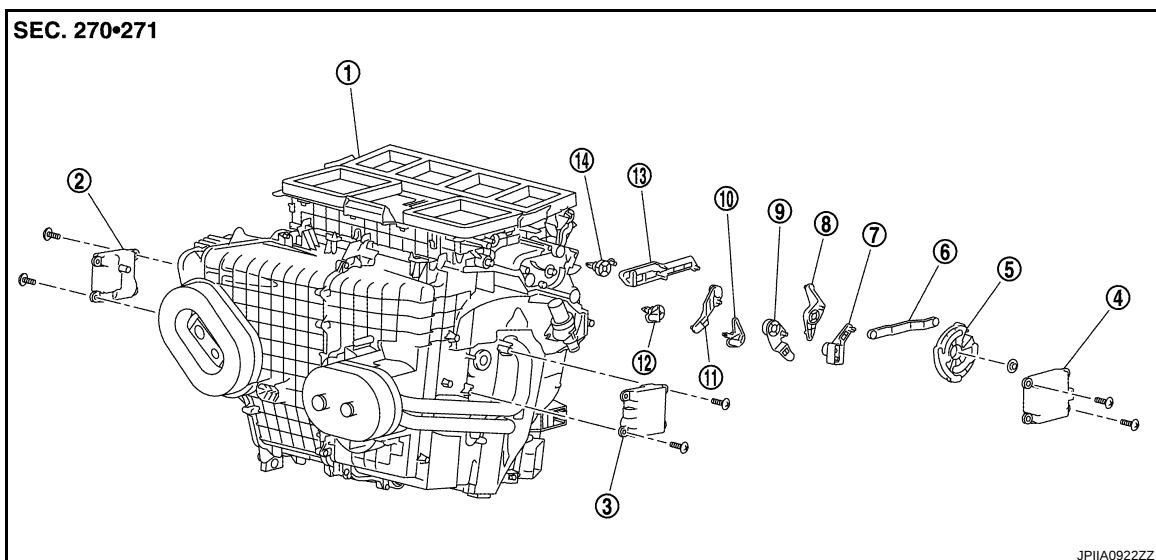
< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

AIR MIX DOOR MOTOR

Exploded View

INFOID:000000003821360



- | | | |
|-----------------------------------|--|-------------------------------------|
| 1. Heater & cooling unit assembly | 2. Air mix door motor (passenger side) | 3. Air mix door motor (driver side) |
| 4. Mode door motor | 5. Main link | 6. Rod link |
| 7. Mode door lever | 8. Ventilator door link | 9. Foot door link |
| 10. Foot door lever | 11. Max. cool door link | 12. Max. cool door lever |
| 13. Defroster door link | 14. Defroster door lever | |

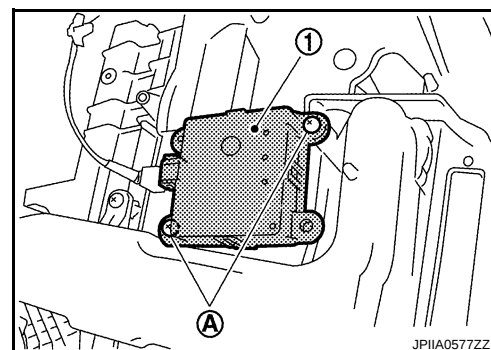
Removal and Installation

INFOID:000000003774684

REMOVAL

Driver Side

1. Disconnect the battery cable from the negative terminal after setting the temperature (driver side) to 18°C (60°F).
2. Remove foot duct (driver side). Refer to [VTL-59. "FOOT DUCT : Exploded View"](#).
3. Remove mounting screws (A), and then remove air mix door motor (driver side) (1).
4. Disconnect air mix door motor connector (driver side).



Passenger Side

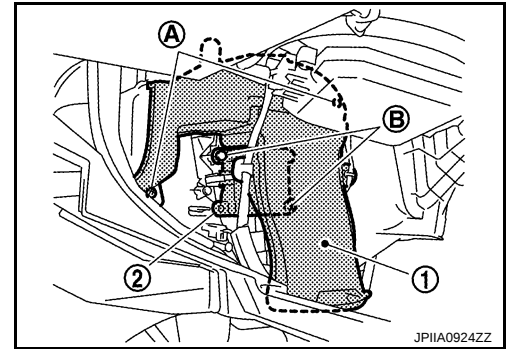
1. Disconnect the battery cable from the negative terminal after setting the temperature (passenger side) to 18°C (60°F).

AIR MIX DOOR MOTOR

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

2. Remove mounting screws (A), and then move foot duct (passenger side) (1) to a position where it does not inhibit work.
3. Remove mounting screws (B), and then remove air mix door motor (passenger side) (2).
4. Disconnect air mix door motor connector (passenger side).



INSTALLATION

Installation is basically the reverse order of removal.

HEATER CORE

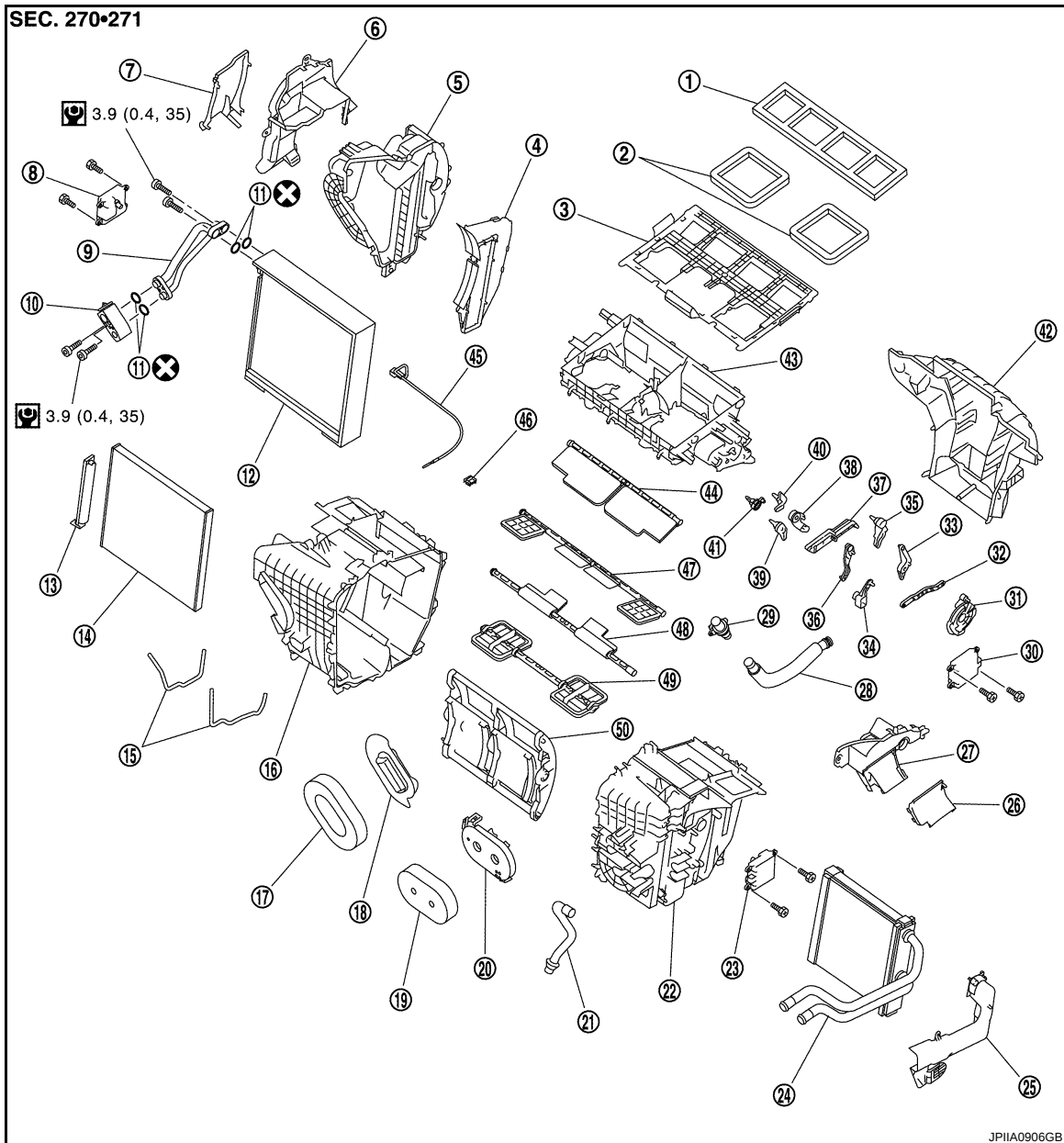
< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

HEATER CORE

Exploded View

INFOID:000000003821362



- | | | |
|--|--|-----------------------------|
| 1. Ventilator seal | 2. Defroster seal | 3. Distributor upper case |
| 4. Center case | 5. Heater & cooling unit case cover | 6. Foot duct 1 (right) |
| 7. Foot duct 2 (right) | 8. Air mix door motor (passenger side) | 9. Evaporator pipe assembly |
| 10. Expansion valve | 11. O-ring | 12. Evaporator |
| 13. Filter cover | 14. Air conditioner filter | 15. Case packing |
| 16. Heater & cooling unit case (right) | 17. Cooler pipe grommet | 18. Grommet |
| 19. Heater pipe grommet | 20. Heater pipe support | 21. Drain hose |
| 22. Heater & cooling unit case (left) | 23. Air mix door motor (driver side) | 24. Heater core |
| 25. Heater pipe cover | 26. Foot duct 2 (left) | 27. Foot duct 1 (left) |
| 28. Aspirator hose | 29. Aspirator | 30. Mode door motor |
| 31. Main link | 32. Rod link | 33. Ventilator door link |
| 34. Mode door lever | 35. Ventilator door lever | 36. Max. cool door link |

HEATER CORE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

- | | | |
|----------------------------|-------------------------------|--------------------------|
| 37. Defroster door link | 38. Foot door link | 39. Max. cool door lever |
| 40. Foot door lever | 41. Defroster door lever | 42. Adapter case |
| 43. Distributor lower case | 44. Ventilator door | 45. Intake sensor |
| 46. Intake sensor bracket | 47. Foot door | 48. Max. cool door |
| 49. Defroster door | 50. Air mix door (Slide door) | |

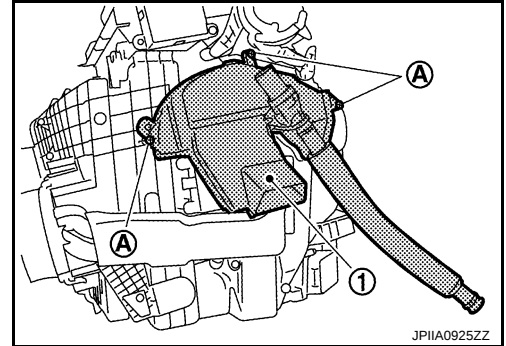
Refer to [GI-4. "Components"](#) for symbols in the figure.

Removal and Installation

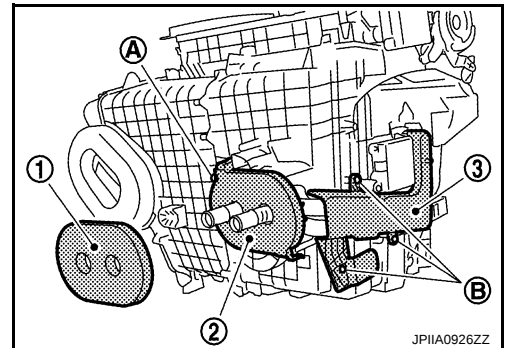
INFOID:000000003774686

REMOVAL

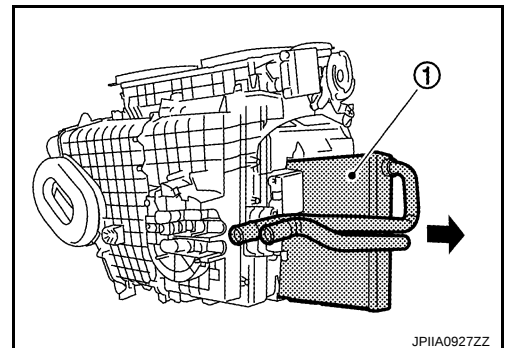
1. Remove heater & cooling unit assembly. Refer to [VTL-35. "Exploded View"](#).
2. Remove mounting screws (A), and then remove foot duct (left) (1).



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



6. Slide heater core (1) to leftward (as shown in the figure).



INSTALLATION

Installation is basically the reverse order of removal.

CAUTION:

- Replace O-rings with new ones. Then apply compressor oil to them when installing.
- Check for refrigerant leakage when charging refrigerant.

NOTE:

- Refer to [CO-9. "Refilling"](#) when filling radiator with engine coolant.
- Charge the refrigerant.

DUCT AND GRILLE

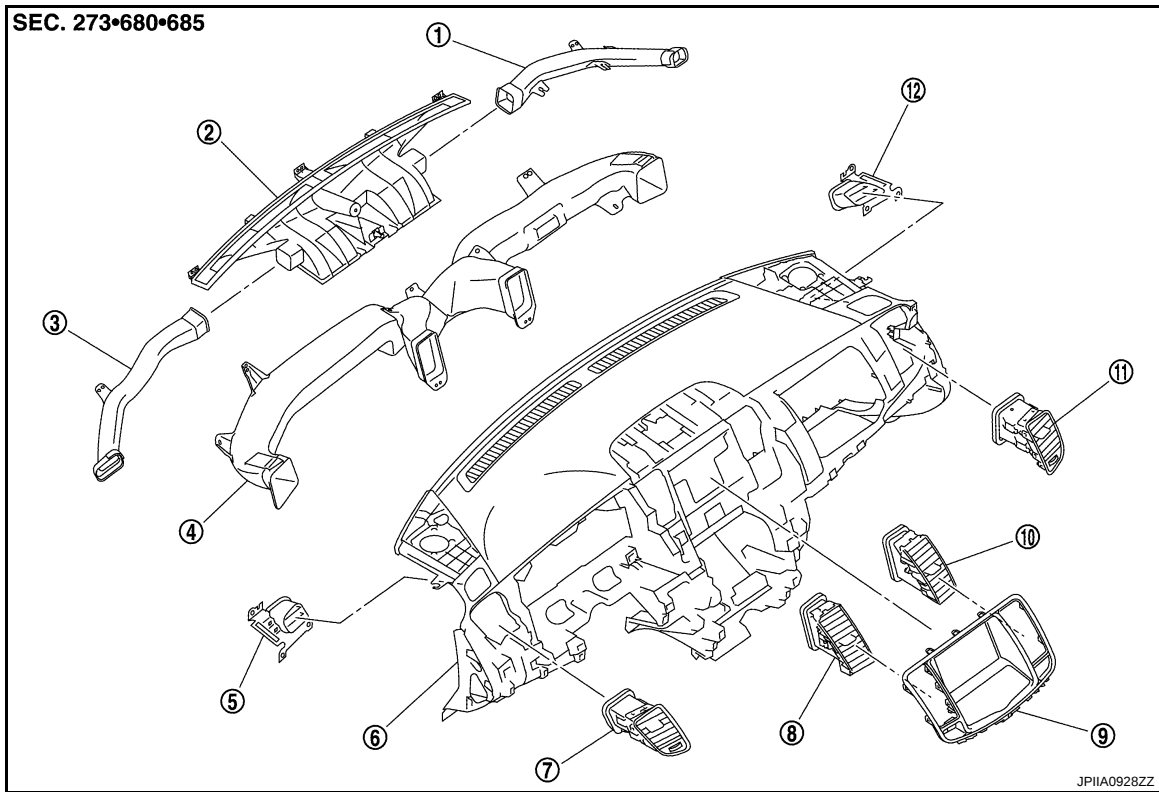
< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

DUCT AND GRILLE CENTER VENTILATOR GRILLE

CENTER VENTILATOR GRILLE : Exploded View

INFOID:000000003774687



- | | | |
|--------------------------------------|------------------------------------|-----------------------------------|
| 1. Side defroster nozzle (right) | 2. Defroster nozzle | 3. Side defroster nozzle (left) |
| 4. Ventilator duct | 5. Side defroster grille (left) | 6. Instrument panel assembly |
| 7. Side ventilator grille (left) | 8. Center ventilator grille (left) | 9. Cluster lid D |
| 10. Center ventilator grille (right) | 11. Side ventilator grille (right) | 12. Side defroster grille (right) |

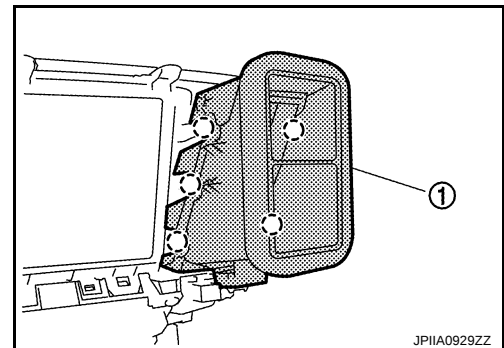
CENTER VENTILATOR GRILLE : Removal and Installation

INFOID:000000003774688

REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Disengage the pawls, and then remove center ventilator grilles (left and right) (1).

 : Pawl



INSTALLATION

Installation is basically the reverse order of removal.

SIDE VENTILATOR GRILLE

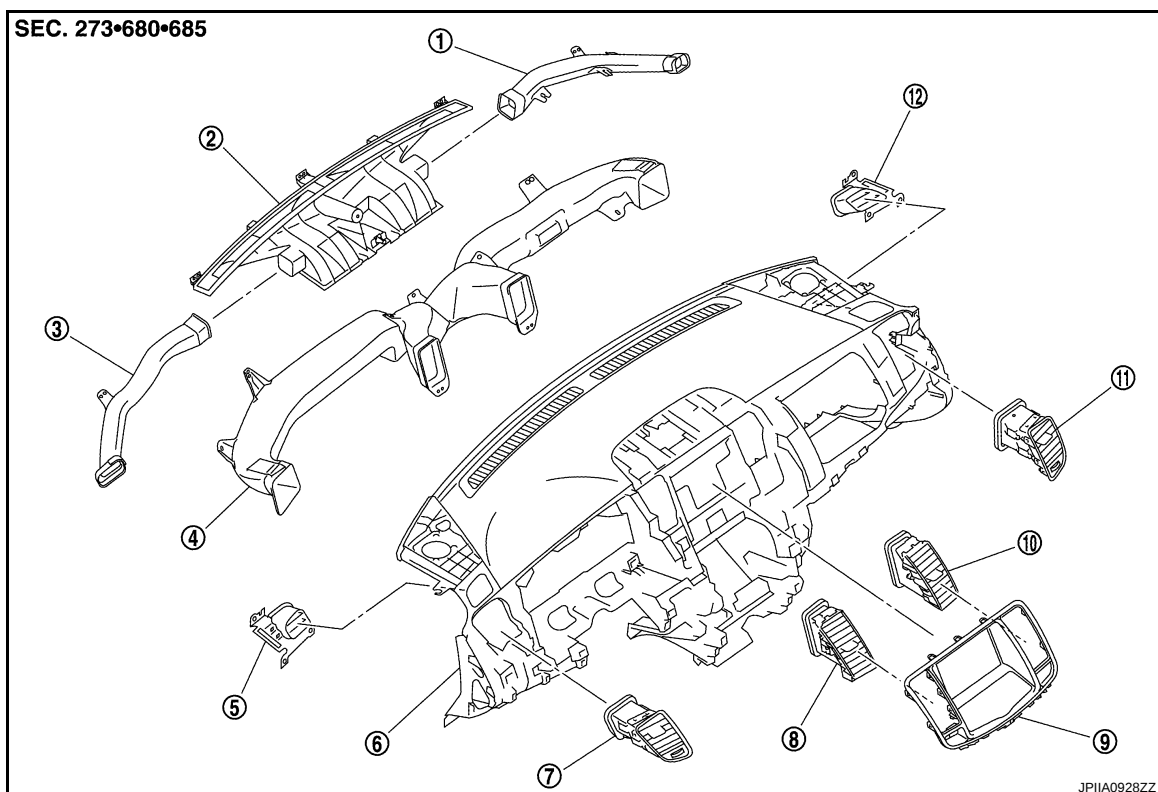
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

SIDE VENTILATOR GRILLE : Exploded View

INFOID:000000003774689



- | | | |
|--------------------------------------|------------------------------------|-----------------------------------|
| 1. Side defroster nozzle (right) | 2. Defroster nozzle | 3. Side defroster nozzle (left) |
| 4. Ventilator duct | 5. Side defroster grille (left) | 6. Instrument panel assembly |
| 7. Side ventilator grille (left) | 8. Center ventilator grille (left) | 9. Cluster lid D |
| 10. Center ventilator grille (right) | 11. Side ventilator grille (right) | 12. Side defroster grille (right) |

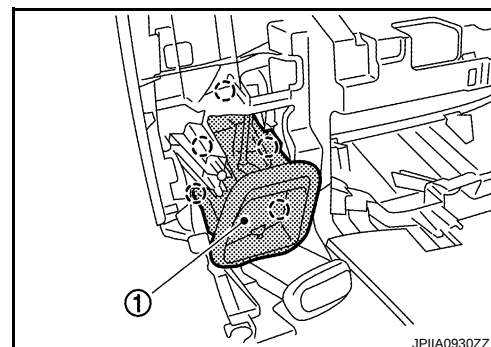
SIDE VENTILATOR GRILLE : Removal and Installation

INFOID:000000003774690

REMOVAL

1. Remove ventilator duct. Refer to [VTL-48, "VENTILATOR DUCT : Exploded View"](#).
2. Disengage the pawls, and then remove side ventilator grilles (left and right) (1).

 : Pawl



INSTALLATION

Installation is basically the reverse order of removal.

SIDE DEFROSTER GRILLE

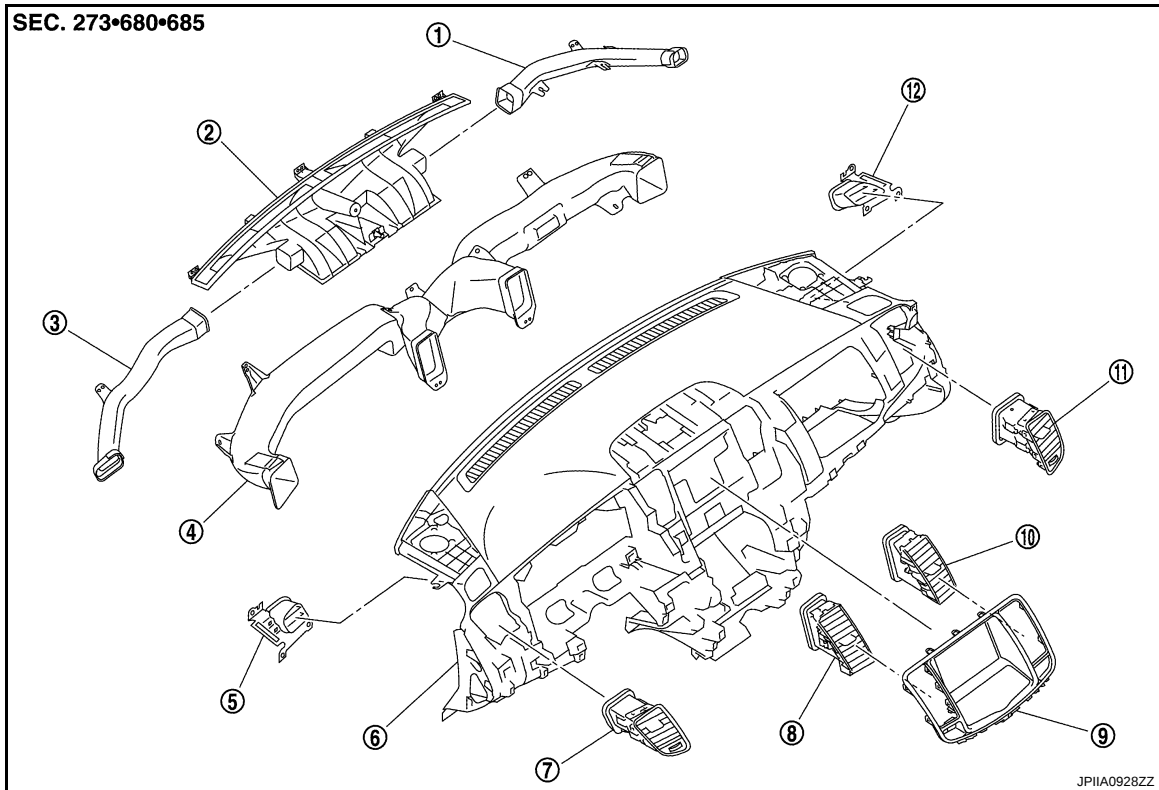
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

SIDE DEFROSTER GRILLE : Exploded View

INFOID:000000003774691



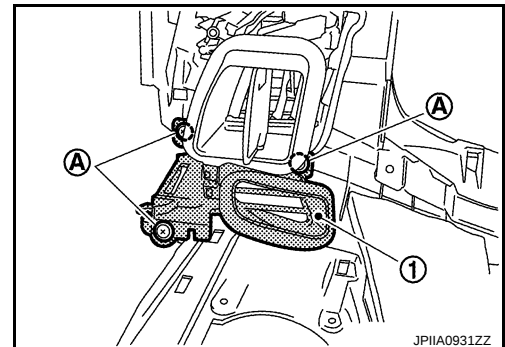
- | | | |
|--------------------------------------|------------------------------------|-----------------------------------|
| 1. Side defroster nozzle (right) | 2. Defroster nozzle | 3. Side defroster nozzle (left) |
| 4. Ventilator duct | 5. Side defroster grille (left) | 6. Instrument panel assembly |
| 7. Side ventilator grille (left) | 8. Center ventilator grille (left) | 9. Cluster lid D |
| 10. Center ventilator grille (right) | 11. Side ventilator grille (right) | 12. Side defroster grille (right) |

SIDE DEFROSTER GRILLE : Removal and Installation

INFOID:000000003774692

REMOVAL

1. Remove side defroster nozzles (left and right). Refer to [VTL-49. "SIDE DEFROSTER NOZZLE : Exploded View"](#).
2. Remove mounting screws (A), and then remove side defroster grilles (left and right) (1).



INSTALLATION

Installation is basically the reverse order of removal.

VENTILATOR DUCT

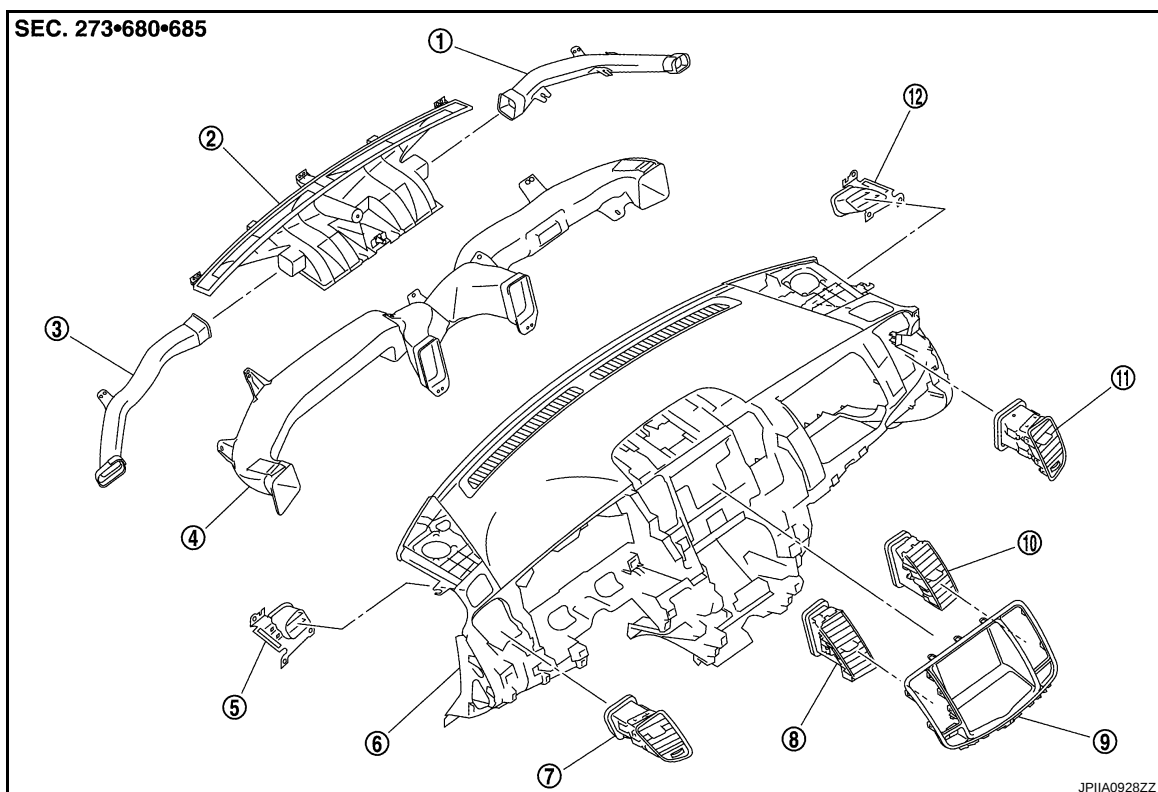
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

VENTILATOR DUCT : Exploded View

INFOID:000000003774693



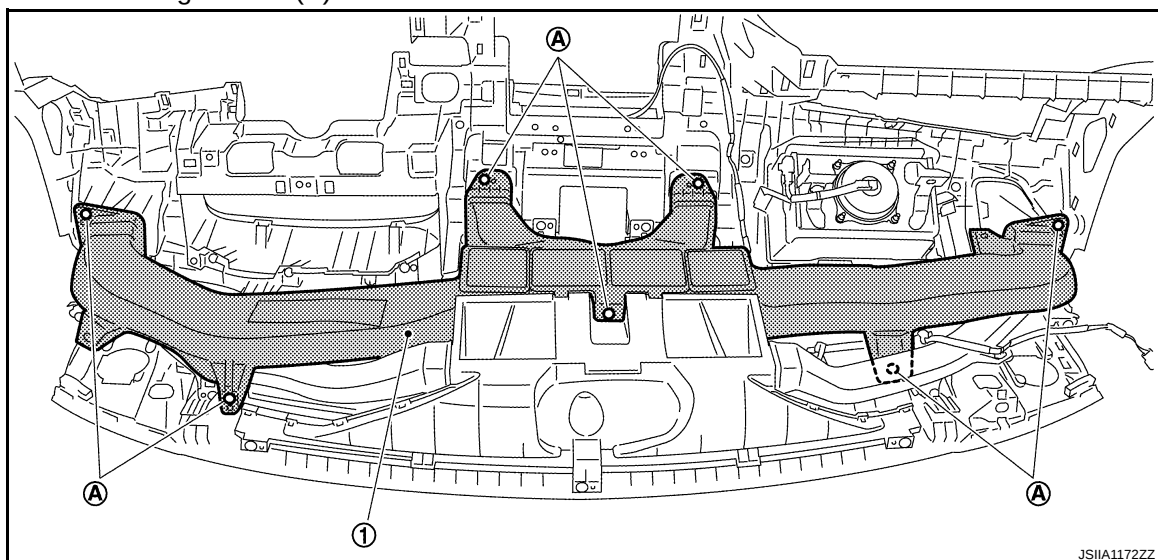
- | | | |
|--------------------------------------|------------------------------------|-----------------------------------|
| 1. Side defroster nozzle (right) | 2. Defroster nozzle | 3. Side defroster nozzle (left) |
| 4. Ventilator duct | 5. Side defroster grille (left) | 6. Instrument panel assembly |
| 7. Side ventilator grille (left) | 8. Center ventilator grille (left) | 9. Cluster lid D |
| 10. Center ventilator grille (right) | 11. Side ventilator grille (right) | 12. Side defroster grille (right) |

VENTILATOR DUCT : Removal and Installation

INFOID:000000003774694

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting screws (A).



3. Remove ventilator duct (1).

DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

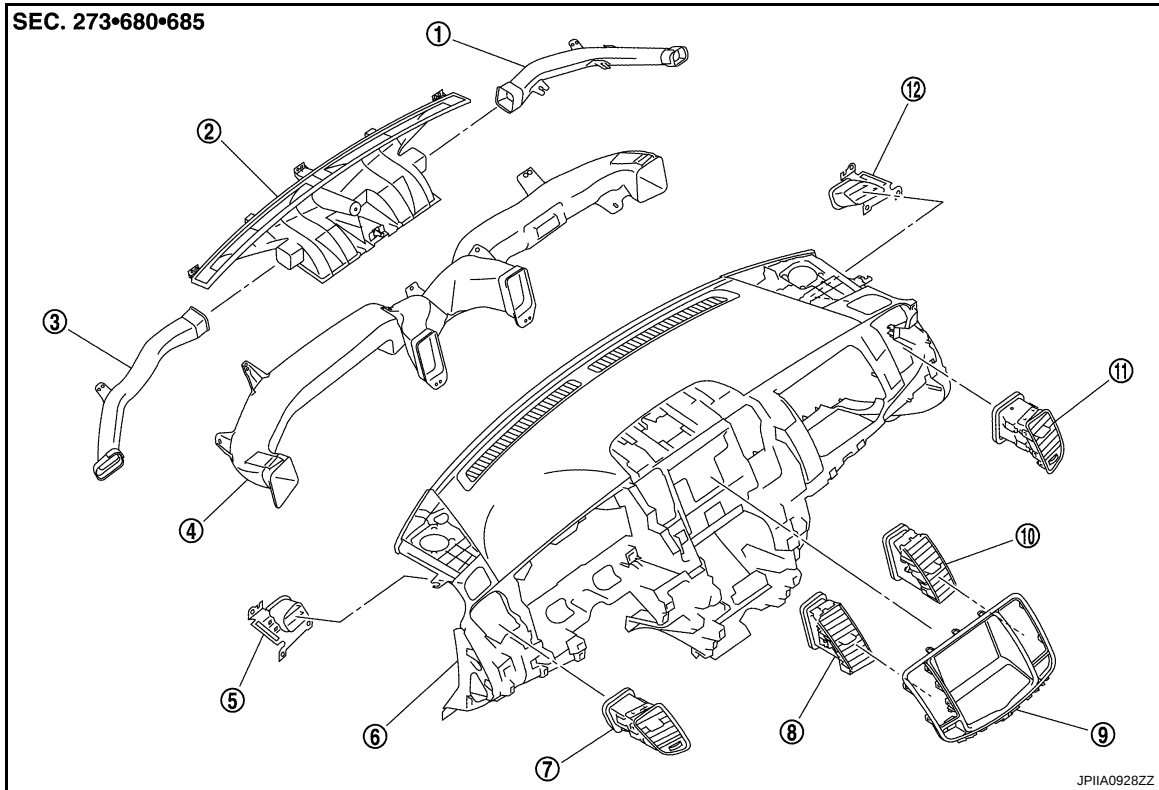
INSTALLATION

Installation is basically the reverse order of removal.

SIDE DEFROSTER NOZZLE

SIDE DEFROSTER NOZZLE : Exploded View

INFOID:000000003774697



- | | | |
|--------------------------------------|------------------------------------|-----------------------------------|
| 1. Side defroster nozzle (right) | 2. Defroster nozzle | 3. Side defroster nozzle (left) |
| 4. Ventilator duct | 5. Side defroster grille (left) | 6. Instrument panel assembly |
| 7. Side ventilator grille (left) | 8. Center ventilator grille (left) | 9. Cluster lid D |
| 10. Center ventilator grille (right) | 11. Side ventilator grille (right) | 12. Side defroster grille (right) |

SIDE DEFROSTER NOZZLE : Removal and Installation

INFOID:000000003774698

REMOVAL

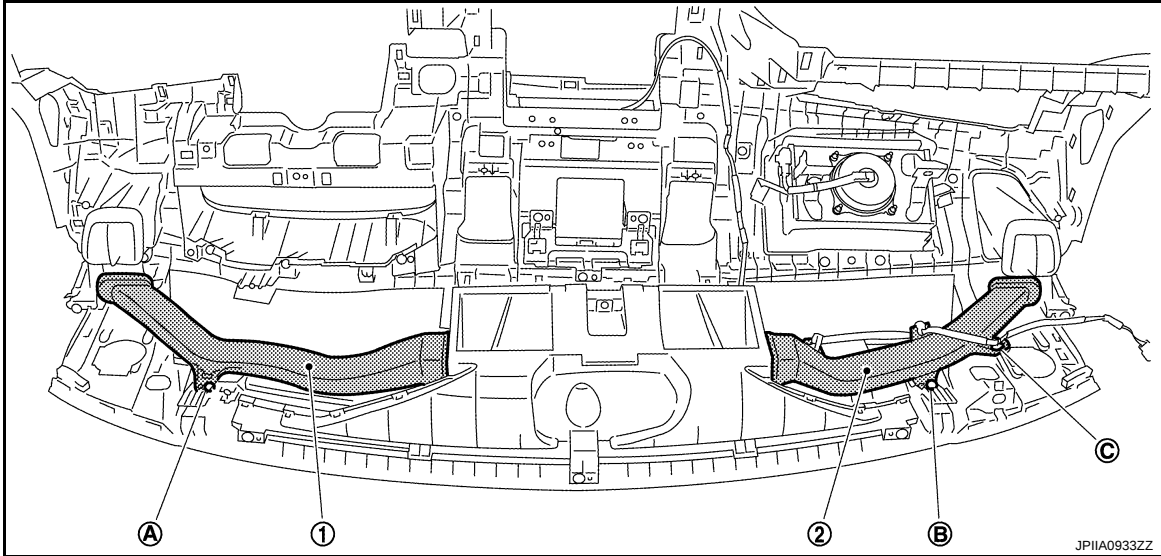
1. Remove ventilator duct. Refer to [VTL-48. "VENTILATOR DUCT : Exploded View"](#).

DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

- Remove mounting screws (A), and then remove side defroster nozzle (left) (1).



- Remove mounting screw (B) and harness clip (C), and then remove side defroster nozzle (right) (2).

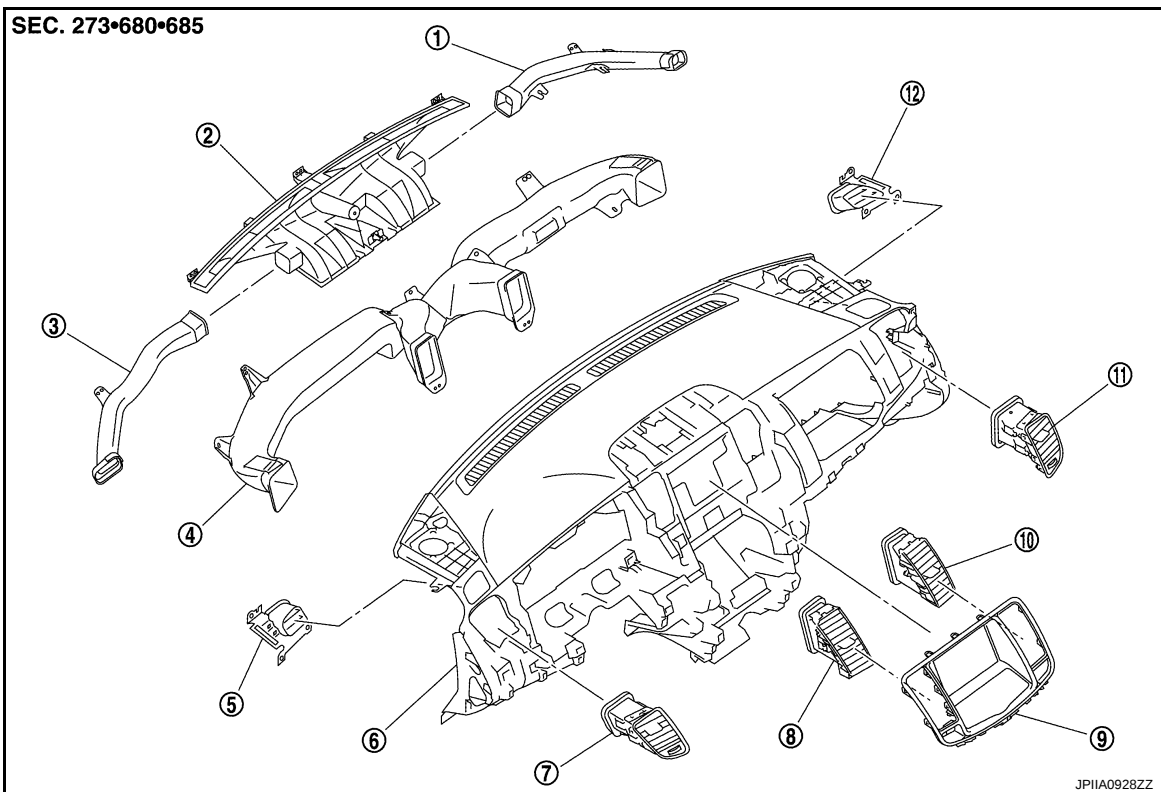
INSTALLATION

Installation is basically the reverse order of removal.

DEFROSTER NOZZLE

DEFROSTER NOZZLE : Exploded View

INFOID:000000003821401



- | | | |
|--------------------------------------|------------------------------------|-----------------------------------|
| 1. Side defroster nozzle (right) | 2. Defroster nozzle | 3. Side defroster nozzle (left) |
| 4. Ventilator duct | 5. Side defroster grille (left) | 6. Instrument panel assembly |
| 7. Side ventilator grille (left) | 8. Center ventilator grille (left) | 9. Cluster lid D |
| 10. Center ventilator grille (right) | 11. Side ventilator grille (right) | 12. Side defroster grille (right) |

DUCT AND GRILLE

< ON-VEHICLE REPAIR >

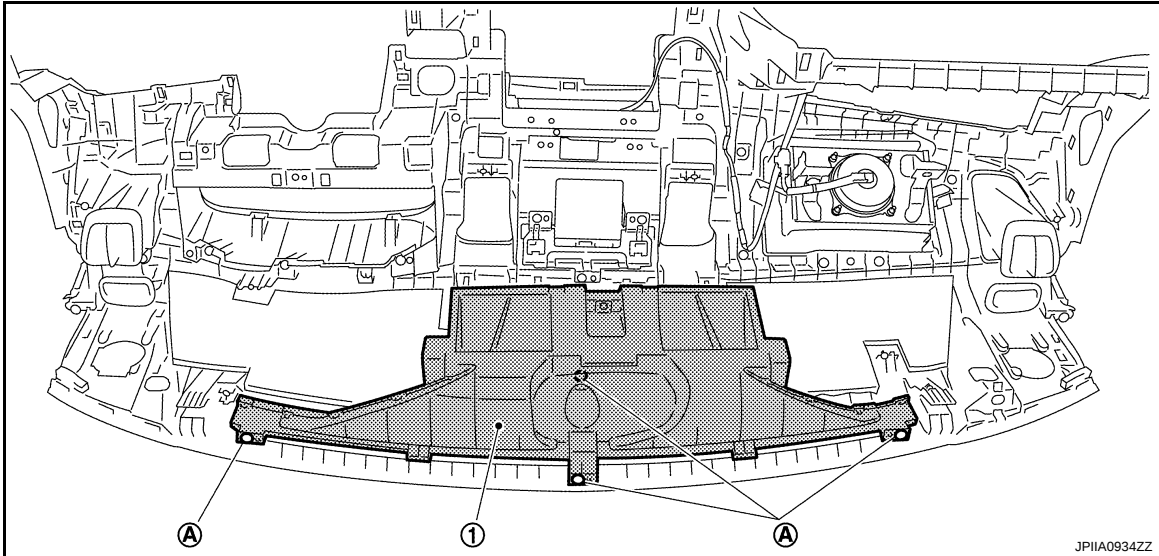
[WITHOUT 7 INCH DISPLAY]

DEFROSTER NOZZLE : Removal and Installation

INFOID:000000003821398

REMOVAL

1. Remove side defroster nozzles (left and right). Refer to [VTL-49. "SIDE DEFROSTER NOZZLE : Exploded View"](#).
2. Remove mounting screws (A), and then remove defroster nozzle (1).



INSTALLATION

Installation is basically the reverse order of removal.

REAR VENTILATOR GRILLE

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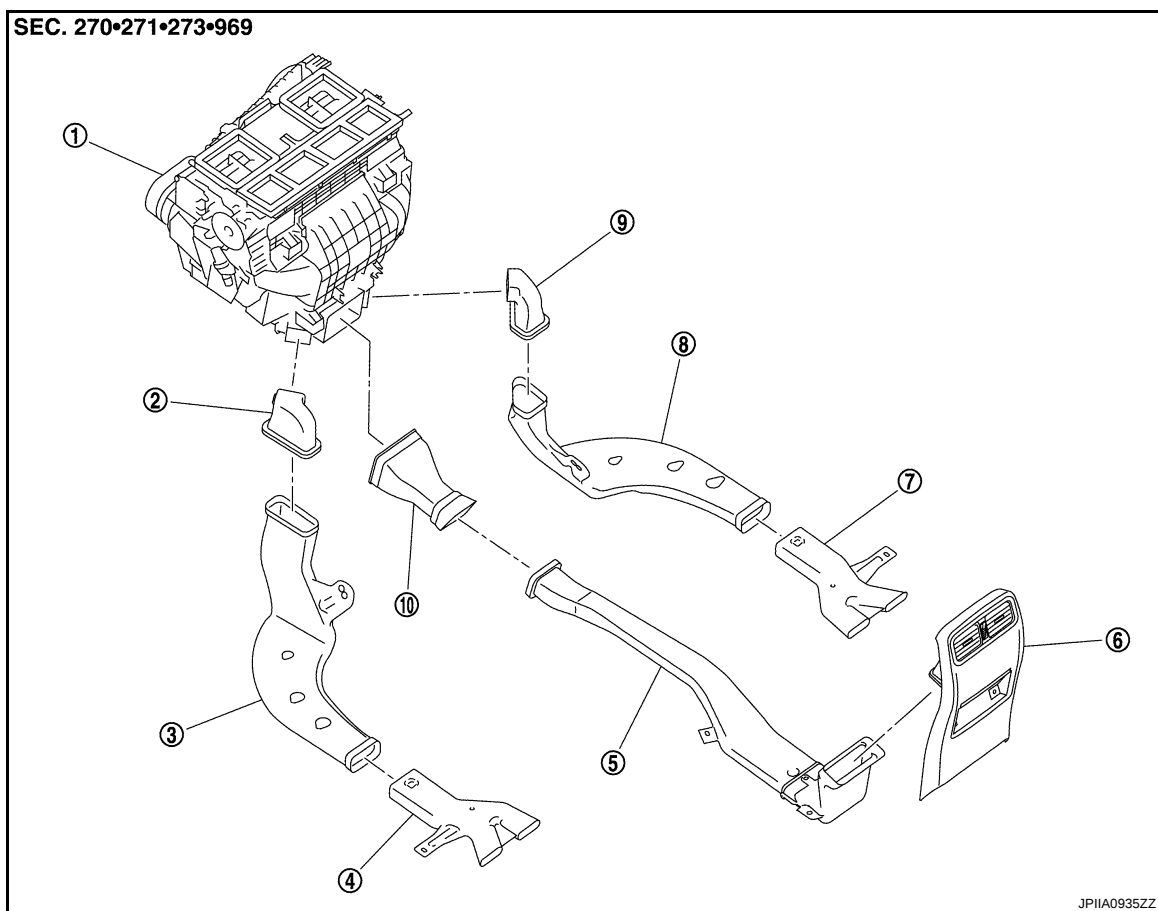
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

REAR VENTILATOR GRILLE : Exploded View

INFOID:000000003774699



- | | | |
|-----------------------------------|-----------------------------|--|
| 1. Heater & cooling unit assembly | 2. Rear foot duct 1 (left) | 3. Rear foot duct 2 (left) |
| 4. Rear foot duct 3 (left) | 5. Rear ventilator duct 2 | 6. Console rear cover (Rear ventilator grille) |
| 7. Rear foot duct 3 (right) | 8. Rear foot duct 2 (right) | 9. Rear foot duct 1 (right) |
| 10. Rear ventilator duct 1 | | |

REAR VENTILATOR GRILLE : Removal and Installation

INFOID:000000003774700

REMOVAL

Remove console rear cover (rear ventilator grille). Refer to [IP-22, "Exploded View"](#).

INSTALLATION

Installation is basically the reverse order of removal.

REAR VENTILATOR DUCT 1

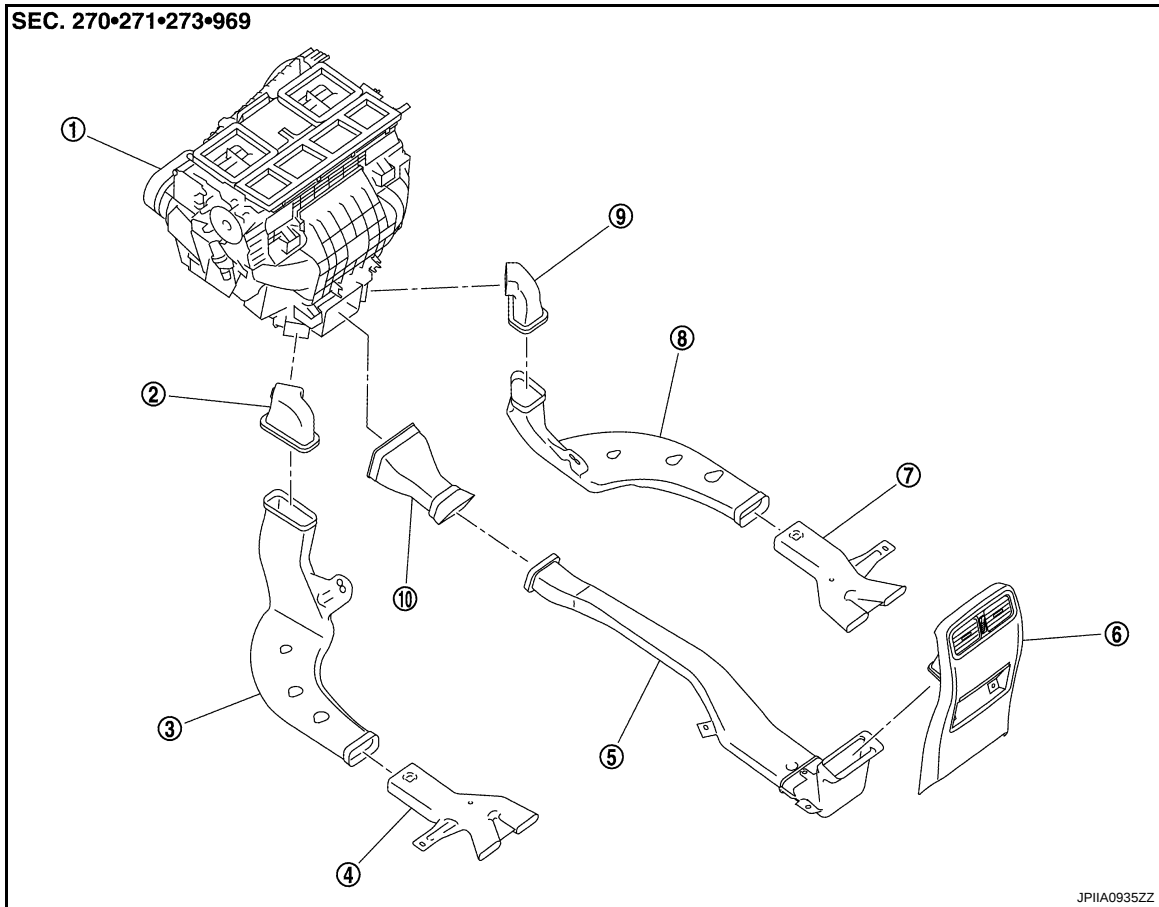
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

REAR VENTILATOR DUCT 1 : Exploded View

INFOID:000000003774701



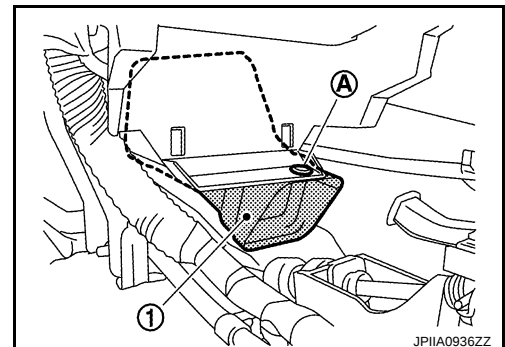
- | | | |
|-----------------------------------|-----------------------------|--|
| 1. Heater & cooling unit assembly | 2. Rear foot duct 1 (left) | 3. Rear foot duct 2 (left) |
| 4. Rear foot duct 3 (left) | 5. Rear ventilator duct 2 | 6. Console rear cover (Rear ventilator grille) |
| 7. Rear foot duct 3 (right) | 8. Rear foot duct 2 (right) | 9. Rear foot duct 1 (right) |
| 10. Rear ventilator duct 1 | | |

REAR VENTILATOR DUCT 1 : Removal and Installation

INFOID:000000003774702

REMOVAL

1. Remove rear ventilator duct 2. Refer to [VTL-54, "REAR VENTILATOR DUCT 2 : Exploded View"](#).
2. Remove mounting clip (A), and then remove rear ventilator duct 1 (1).



INSTALLATION

Installation is basically the reverse order of removal.

REAR VENTILATOR DUCT 2

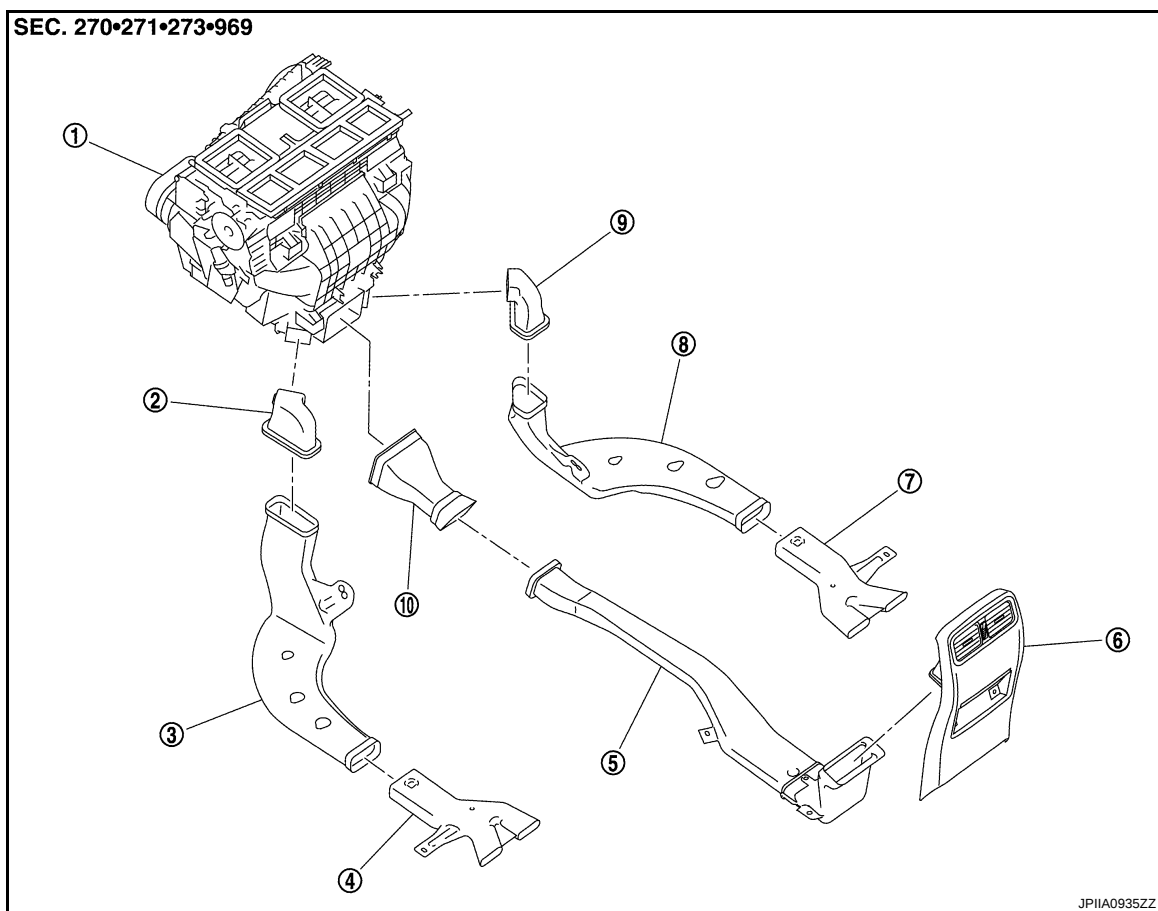
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

REAR VENTILATOR DUCT 2 : Exploded View

INFOID:000000003774703



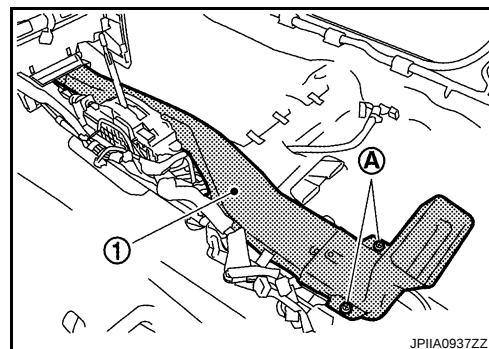
- | | | |
|-----------------------------------|-----------------------------|--|
| 1. Heater & cooling unit assembly | 2. Rear foot duct 1 (left) | 3. Rear foot duct 2 (left) |
| 4. Rear foot duct 3 (left) | 5. Rear ventilator duct 2 | 6. Console rear cover (Rear ventilator grille) |
| 7. Rear foot duct 3 (right) | 8. Rear foot duct 2 (right) | 9. Rear foot duct 1 (right) |
| 10. Rear ventilator duct 1 | | |

REAR VENTILATOR DUCT 2 : Removal and Installation

INFOID:000000003774704

REMOVAL

1. Remove center console assembly. Refer to [IP-22, "Exploded View"](#).
2. Remove screws (A), and then remove rear ventilator duct 2 (1).



INSTALLATION

Installation is basically the reverse order of removal.

REAR FOOT DUCT 1

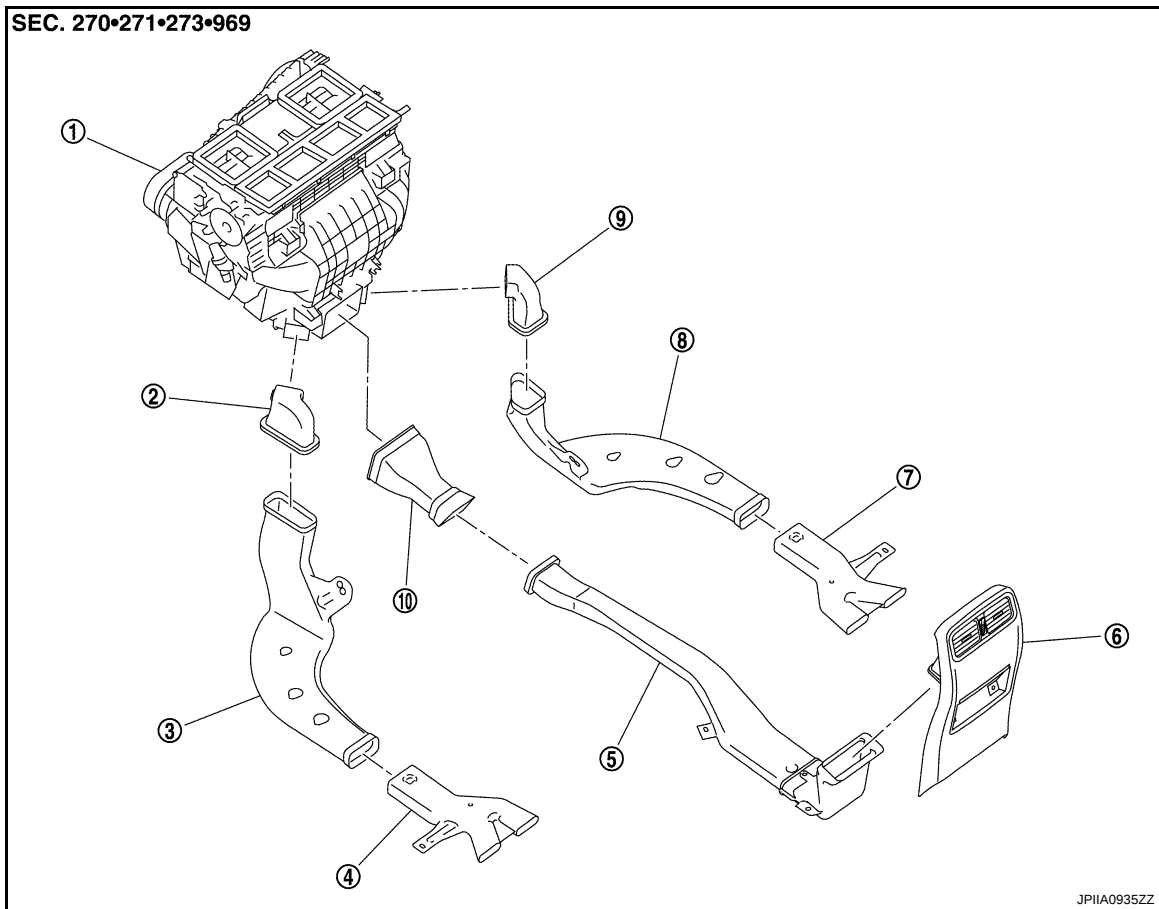
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

REAR FOOT DUCT 1 : Exploded View

INFOID:000000003774709



- | | | |
|-----------------------------------|-----------------------------|--|
| 1. Heater & cooling unit assembly | 2. Rear foot duct 1 (left) | 3. Rear foot duct 2 (left) |
| 4. Rear foot duct 3 (left) | 5. Rear ventilator duct 2 | 6. Console rear cover (Rear ventilator grille) |
| 7. Rear foot duct 3 (right) | 8. Rear foot duct 2 (right) | 9. Rear foot duct 1 (right) |
| 10. Rear ventilator duct 1 | | |

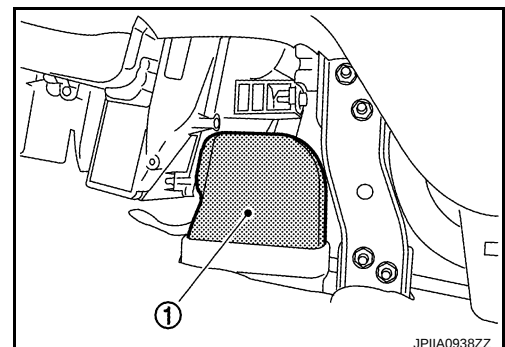
REAR FOOT DUCT 1 : Removal and Installation

INFOID:000000003774710

REMOVAL

Driver side

1. Remove instrument lower cover LH. Refer to [IP-11, "Exploded View"](#).
2. Remove rear foot duct 1 (left) (1).



Passenger side

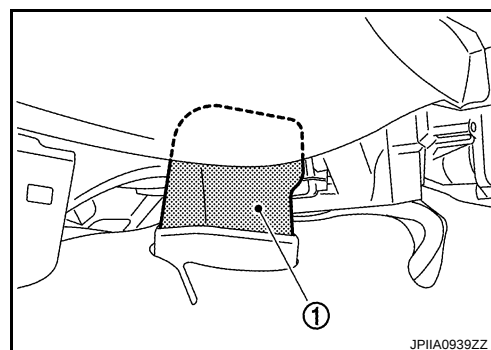
1. Remove instrument lower cover RH. Refer to [IP-11, "Exploded View"](#).

DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

2. Remove the rear foot duct 1 (right) (1).



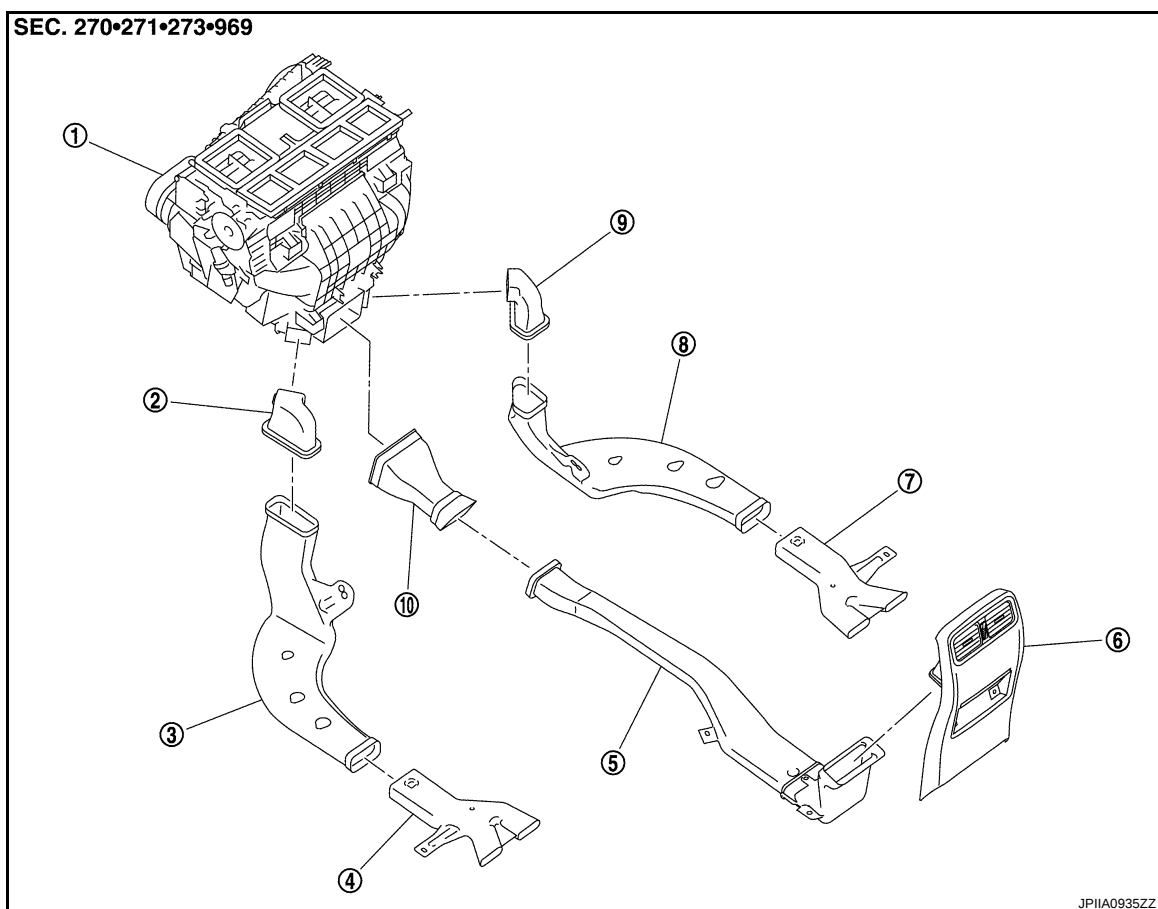
INSTALLATION

Installation is basically the reverse order of removal.

REAR FOOT DUCT 2

REAR FOOT DUCT 2 : Exploded View

INFOID:000000003774711



- | | | |
|-----------------------------------|-----------------------------|--|
| 1. Heater & cooling unit assembly | 2. Rear foot duct 1 (left) | 3. Rear foot duct 2 (left) |
| 4. Rear foot duct 3 (left) | 5. Rear ventilator duct 2 | 6. Console rear cover (Rear ventilator grille) |
| 7. Rear foot duct 3 (right) | 8. Rear foot duct 2 (right) | 9. Rear foot duct 1 (right) |
| 10. Rear ventilator duct 1 | | |

REAR FOOT DUCT 2 : Removal and Installation

INFOID:000000003774712

REMOVAL

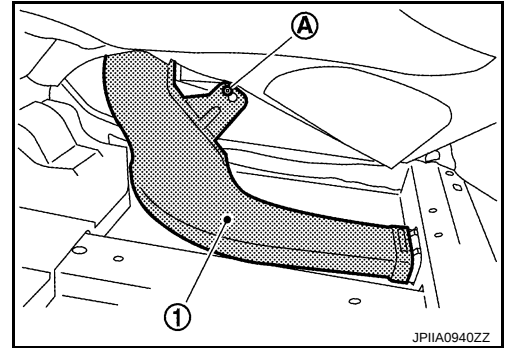
Driver side

DUCT AND GRILLE

< ON-VEHICLE REPAIR >

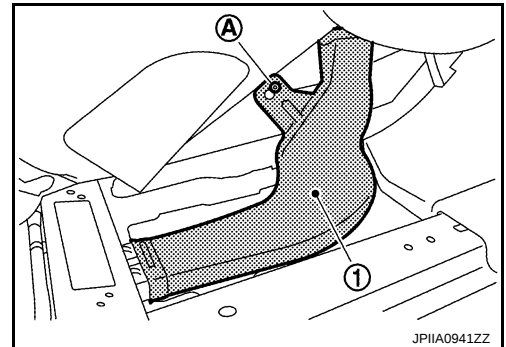
[WITHOUT 7 INCH DISPLAY]

1. Remove rear foot duct 1 (left). Refer to [VTL-55, "REAR FOOT DUCT 1 : Exploded View"](#).
2. Pull up driver side floor carpet. Refer to [INT-47, "Exploded View"](#).
3. Remove mounting clip (A), and then remove rear foot duct 2 (left) (1).



Passenger side

1. Remove the rear foot duct 1 (right). Refer to [VTL-55, "REAR FOOT DUCT 1 : Exploded View"](#).
2. Pull up passenger side floor carpet. Refer to [INT-47, "Exploded View"](#).
3. Remove mounting clip (A), and then remove rear foot duct 2 (right) (1).



INSTALLATION

Installation is basically the reverse order of removal.

REAR FOOT DUCT 3

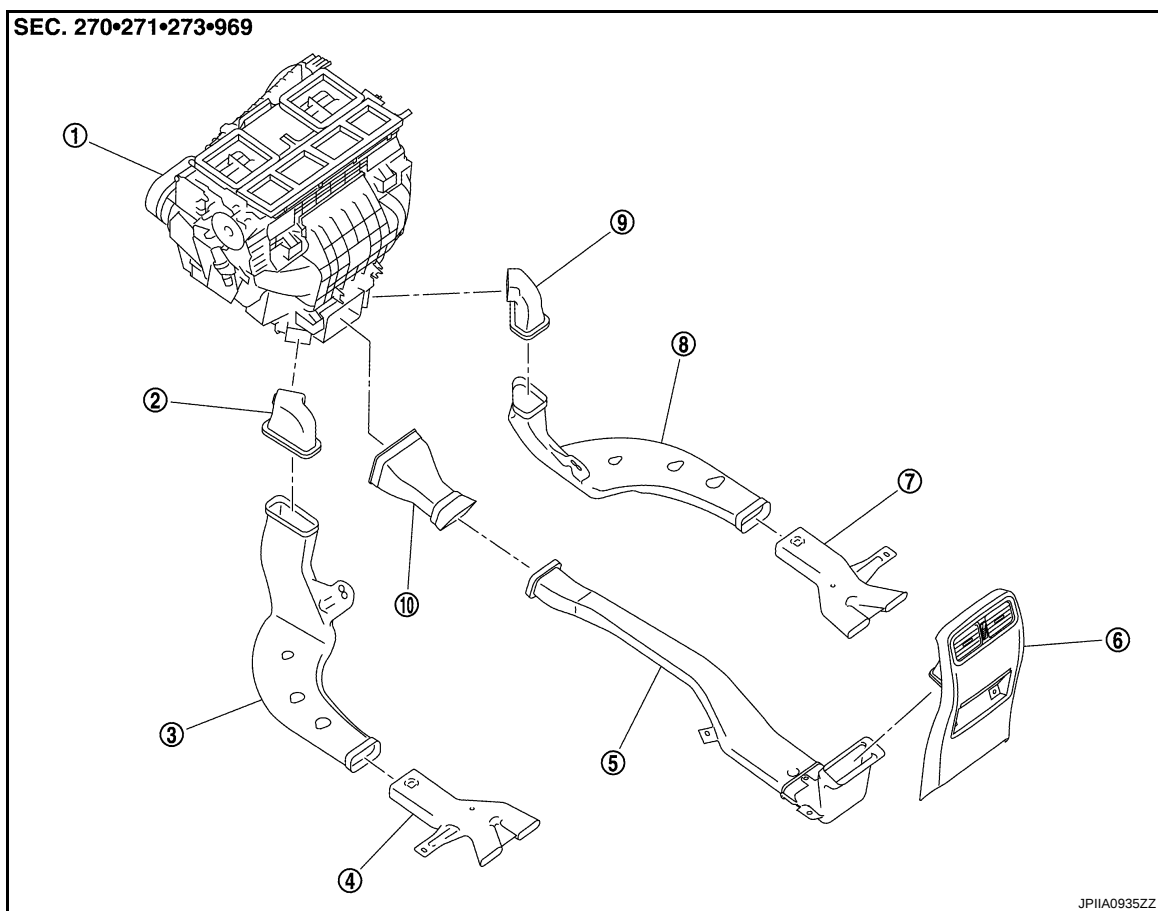
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

REAR FOOT DUCT 3 : Exploded View

INFOID:000000003774713



- | | | |
|-----------------------------------|-----------------------------|--|
| 1. Heater & cooling unit assembly | 2. Rear foot duct 1 (left) | 3. Rear foot duct 2 (left) |
| 4. Rear foot duct 3 (left) | 5. Rear ventilator duct 2 | 6. Console rear cover (Rear ventilator grille) |
| 7. Rear foot duct 3 (right) | 8. Rear foot duct 2 (right) | 9. Rear foot duct 1 (right) |
| 10. Rear ventilator duct 1 | | |

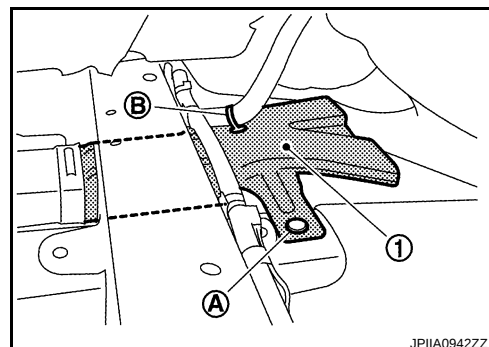
REAR FOOT DUCT 3 : Removal and Installation

INFOID:000000003774714

REMOVAL

Driver side

1. Pull up driver side floor carpet. Refer to [INT-47, "Exploded View"](#).
2. Remove mounting clip (A) and harness clip (B), and then remove rear foot duct 3 (left) (1).



Passenger side

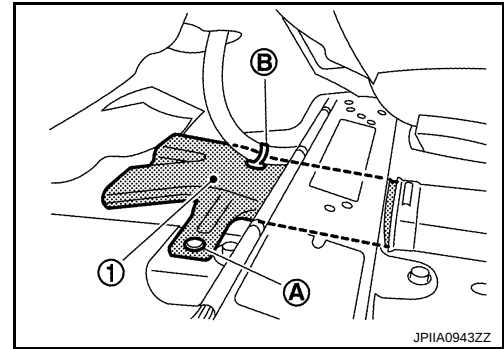
1. Pull up passenger side floor carpet. Refer to [INT-47, "Exploded View"](#).

DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

- Remove mounting clip (A) and harness clip (B), and then remove rear foot duct 3 (right) (1).



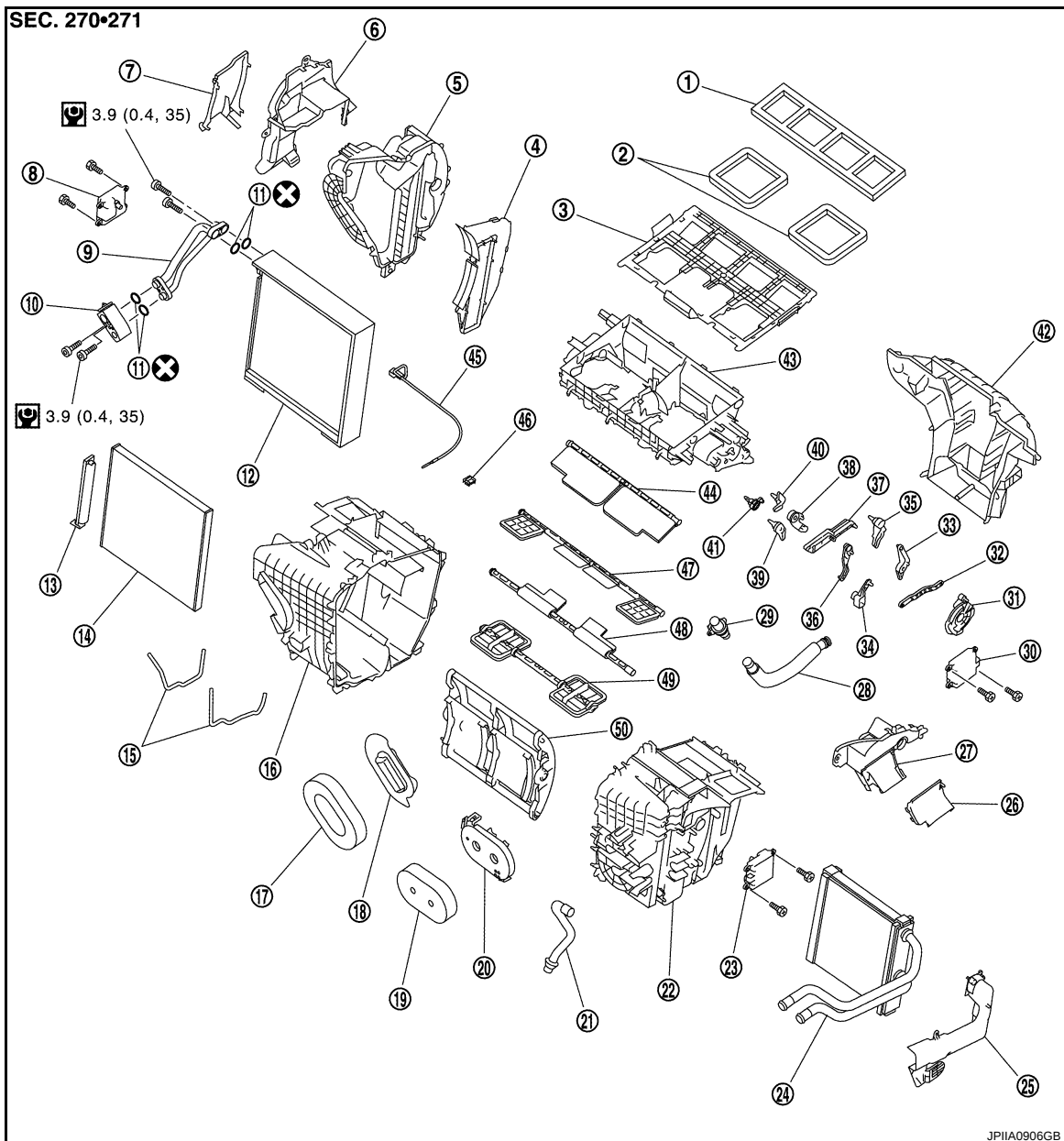
INSTALLATION

Installation is basically the reverse order of removal.

FOOT DUCT

FOOT DUCT : Exploded View

INFOID:000000003821492



DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITHOUT 7 INCH DISPLAY]

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

Refer to [GI-4, "Components"](#) for symbols in the figure.

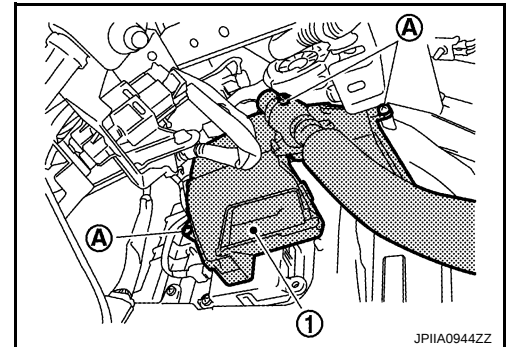
FOOT DUCT : Removal and Installation

INFOID:000000003774716

REMOVAL

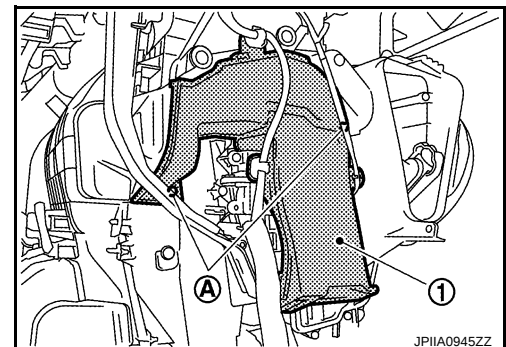
Driver side

1. Remove instrument driver lower panel. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting screws (A), and then remove foot duct (left) (1).



Passenger side

1. Remove blower unit assembly. Refer to [VTL-29, "Exploded View"](#).
2. Remove mounting screws (A) and harness clip, and then remove foot duct (right) (1).



INSTALLATION

Installation is basically the reverse order of removal.

SWITCHES AND THEIR CONTROL FUNCTION

< FUNCTION DIAGNOSIS >

[WITH 7 INCH DISPLAY]

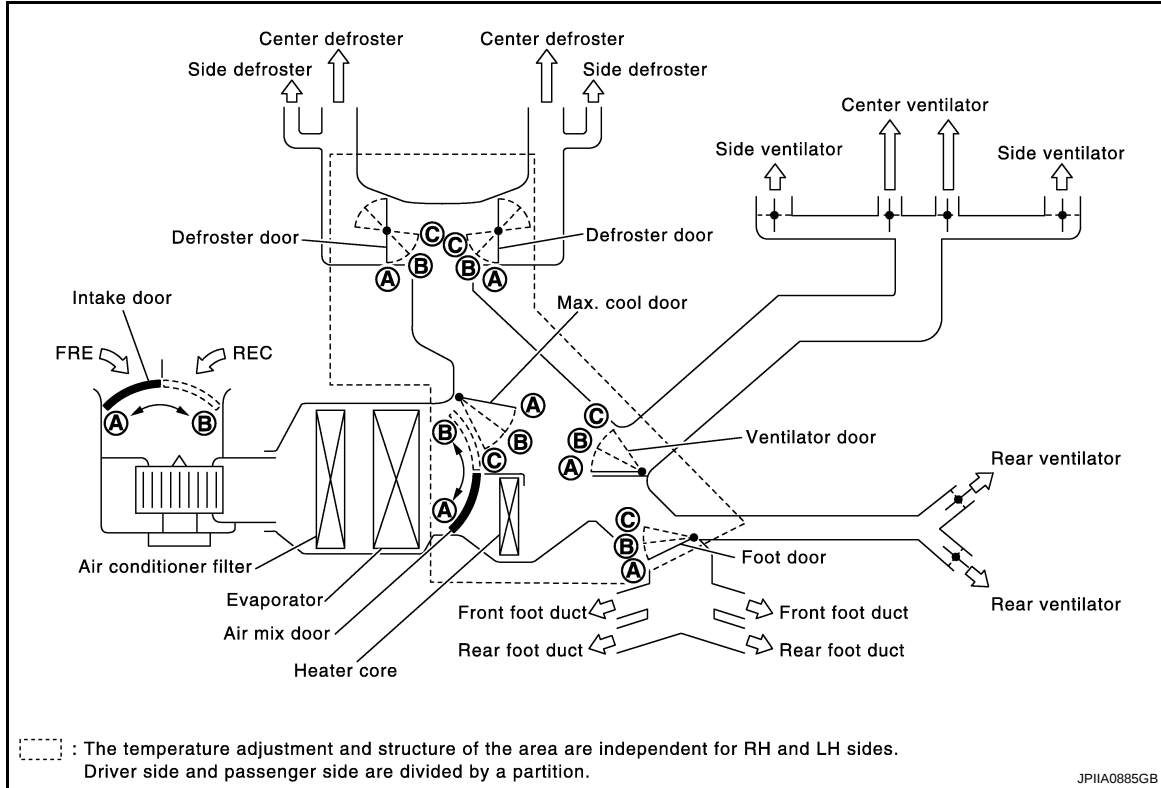
FUNCTION DIAGNOSIS

SWITCHES AND THEIR CONTROL FUNCTION

WITHOUT INTELLIGENT AIR CONDITIONER SYSTEM

WITHOUT INTELLIGENT AIR CONDITIONER SYSTEM : System Description

INFOID:000000003894439



Position or switch	DUAL switch	MODE switch				DEF switch		AUTO switch	Intake switch		Temperature control dial(Driver side)		Temperature control dial(Passenger side)		OFF switch
		VENT	B/L	FOOT	D/F	ON	OFF		REC	FRE					
Door		MODE													
Ventilator door	—	A	B	C	C	C	—	AUTO	—	—	18°C (60°F)	32°C (90°F)	18°C (60°F)	32°C (90°F)	C
Max. cool door	—	A	B	B	B	C	—	—	—	—	—	—	—	—	B
Defroster door	—	A	A	B	B	C	—	—	—	—	—	—	—	—	B
Foot door	—	A	B	C	B	A	—	—	—	—	—	—	—	—	C
Intake door	—	—				B	—	—	A*	B*	—	—	—	—	B
Air mix door (Driver side)	—	—				—	—	—	—	—	A	AUTO	B	—	—
Air mix door (Passenger side)	ON	—				—	—	—	—	—	—	A	AUTO	B	—
	OFF	—				—	—	—	—	—	A	AUTO	B	—	—

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

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AIR DISTRIBUTION

< FUNCTION DIAGNOSIS >

[WITH 7 INCH DISPLAY]

AIR DISTRIBUTION

System Description

INFOID:000000003894441

Discharge air flow						
Mode position indication	Condition	Air outlet/distribution				
		VENT		FOOT		DEF
		Front	Rear	Front	Rear	
	DUAL switch: OFF Rear ventilator : OPEN	89%	11%	—	—	—
		46%	17%	27%	10%	—
		14%	16%	34%	14%	22%
		12%	16%	27%	13%	32%
		11%	12%	—	—	77%

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PRECAUTION

PRECAUTIONS

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

INFOID:000000003894443

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 AIRBAG" 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 AIRBAG".
- 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.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000003894445

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.

This vehicle is equipped with a push-button ignition switch and a 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 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.

PRECAUTIONS

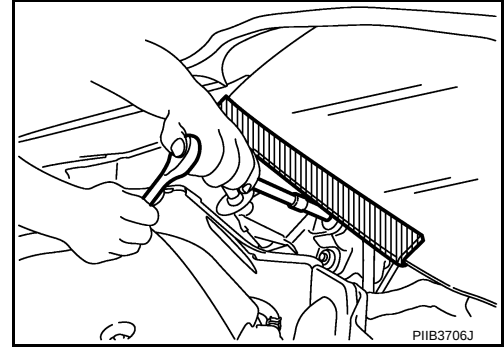
< PRECAUTION >

[WITH 7 INCH DISPLAY]

Precaution for Procedure without Cowl Top Cover

INFOID:000000003894447

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



Precautions For Xenon Headlamp Service

INFOID:000000003894448

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:000000003894449

CAUTION:

- CFC-12 (R-12) refrigerant and HFC-134a (R-134a) refrigerant are not compatible. These refrigerants must never be mixed, even in the smallest amounts. Compressor malfunction is likely occur if the refrigerants are mixed.
- 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:
 - 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. Reseal immediately containers of lubricant. Lubricant becomes moisture saturated and should not be used without proper sealing.
 - Never allow lubricant (NISSAN A/C System Oil Type S) to come in contact with styrene foam parts. Damage may result.

General Refrigerant Precaution

INFOID:000000003894450

WARNING:

- Never breath A/C refrigerant and lubricant vapor or mist. Exposure may irritate eyes, nose and throat. Use only approved recovery/recycling equipment to discharge HFC-134a (R-134a) refrigerant.

PRECAUTIONS

< PRECAUTION >

[WITH 7 INCH DISPLAY]

Ventilate 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.
- Wear always 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 been shown 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.

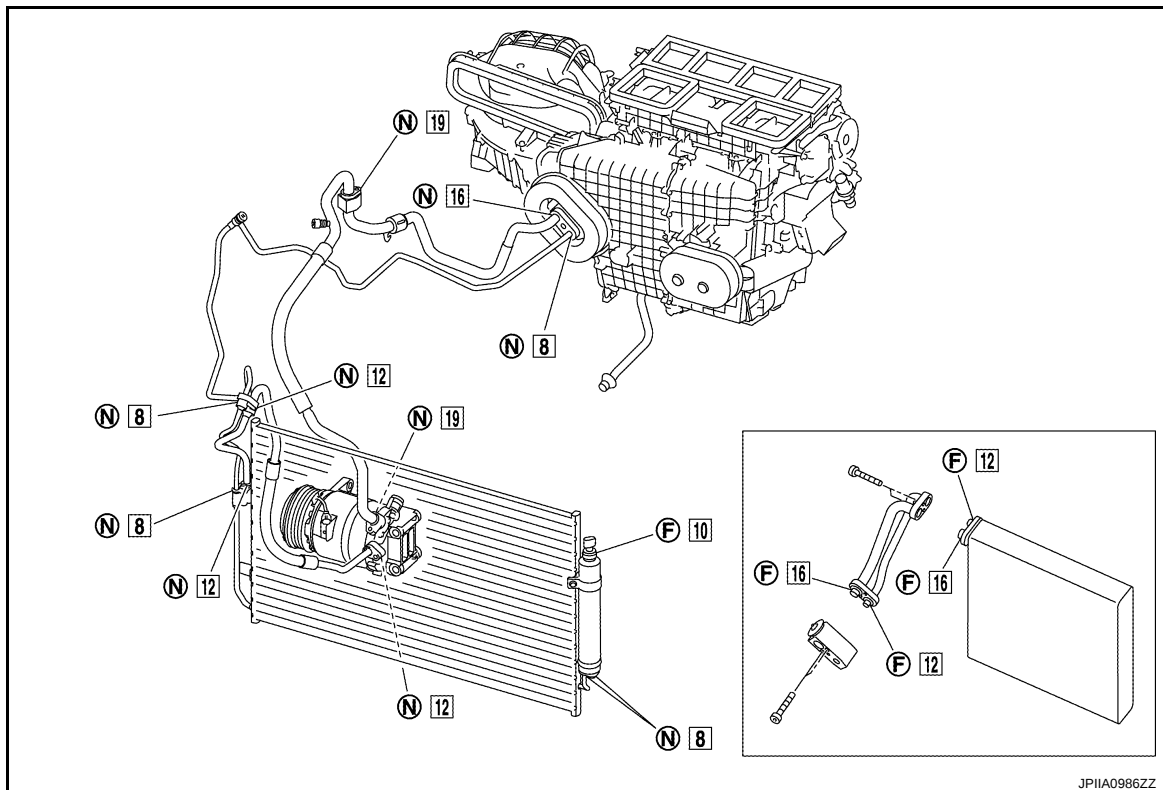
Refrigerant Connection

INFOID:000000003894451

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-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 a wrong O-ring is installed.

PRECAUTIONS

< PRECAUTION >

[WITH 7 INCH DISPLAY]

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	19
	High-pressure pipe to condenser pipe assembly (Outlet)		92471 N8210	1	8
	Condenser pipe assembly (Inlet) to high-pressure flexible hose		92472 N8210	1	12
	Condenser assembly to condenser pipe assembly	Inlet	92472 N8210	1	12
		Outlet	92471 N8210	1	8
	Low-pressure pipe to expansion valve		92473 N8210	1	16
	High-pressure pipe to expansion valve		92471 N8210	1	8
	Compressor to low-pressure flexible hose		92474 N8210	1	19
	Compressor to high-pressure flexible hose		92472 N8210	1	12
	Liquid tank to condenser assembly	Inlet	92471 N8210	1	8
		Outlet		1	
Former	Refrigerant pressure sensor to liquid tank		J2476 89956	1	10
	Expansion valve to evaporator pipe assembly	Inlet	92475 71L00	1	12
		Outlet	92475 72L00	1	16
	Evaporator to evaporator pipe assembly	Inlet	92475 71L00	1	12
		Outlet	92475 72L00	1	16

WARNING:

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

CAUTION:

Observe the following 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 causes lubricant to enter the low-pressure chamber.
- Use always a torque wrench and a back-up wrench when connecting tubes.
- Plug immediately 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 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.
- Remove thoroughly moisture from the refrigeration system before charging the refrigerant.
- Replace always used O-rings.
- Apply lubricant to circle of the O-rings shown in illustration when connecting tube. Be careful not to apply lubricant to threaded portion.

Name : NISSAN A/C System Oil Type S

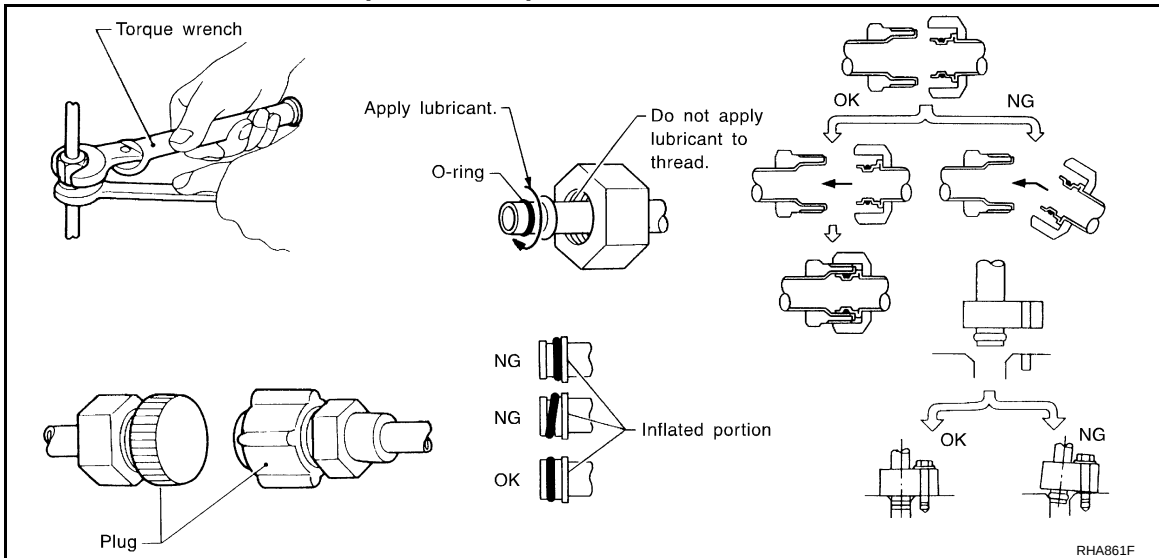
- O-ring must be closely attached to the groove portion of tube.
- Be careful not to damage O-ring and tube when replacing the O-ring.
- Connect tube until a click can be heard. Then tighten the nut or bolt by hand. Check that the O-ring is installed to tube correctly.

PRECAUTIONS

< PRECAUTION >

[WITH 7 INCH DISPLAY]

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



Service Equipment

INFOID:000000003894452

RECOVERY/RECYCLING EQUIPMENT

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

ELECTRICAL LEAK DETECTOR

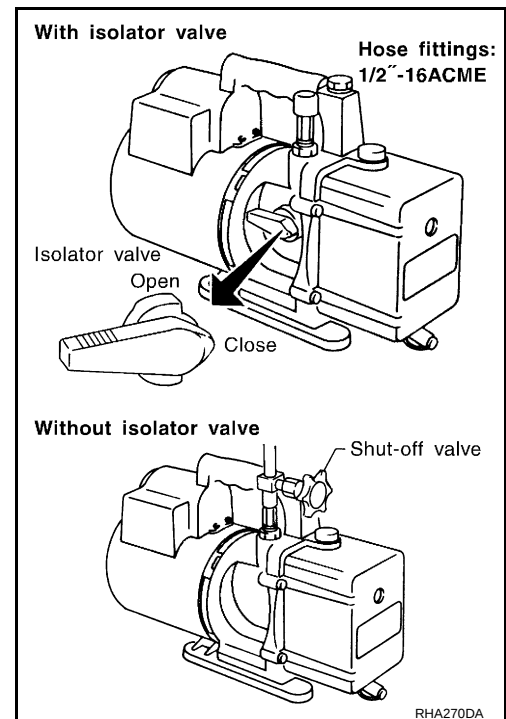
Be certain to follow the manufacturer's instructions for tester operation and tester maintenance.

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 hose is connected to it. To prevent this migration, use a manual valve placed near the hose-to-pump connection, as per the following.

- 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 no vacuum condition. Such valves may restrict the pump's ability to pull a deep vacuum and are not recommended.



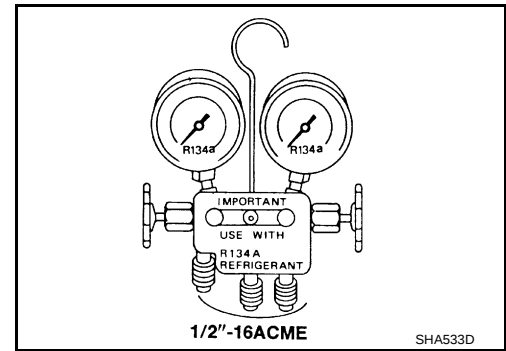
MANIFOLD GAUGE SET

PRECAUTIONS

< PRECAUTION >

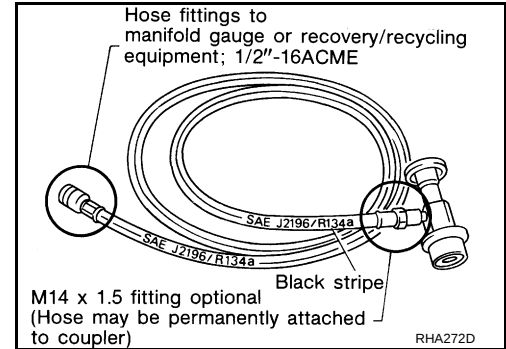
Be certain that the gauge face indicates HFC-134a or R-134a. Be sure the gauge set has 1/2"-16 ACME threaded connections for service hoses. Confirm the set has been used only with refrigerant HFC-134a (R-134a) and specified lubricants.

[WITH 7 INCH DISPLAY]



SERVICE HOSES

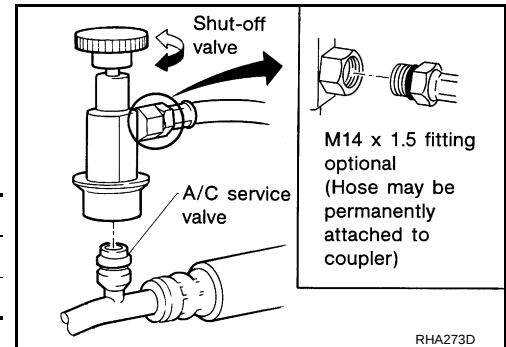
Be certain that the service hoses display the markings described (colored hose with black stripe). All hoses must equip positive shut-off devices (either manual or automatic) near the end of the hoses opposite to the manifold gauge.



SERVICE COUPLERS

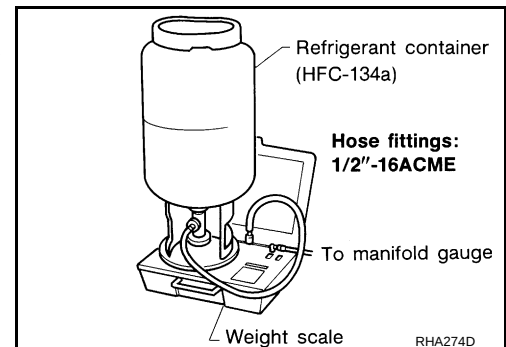
Never attempt to connect HFC-134a (R-134a) service couplers to a CFC-12 (R-12) A/C system. The HFC-134a (R-134a) couplers do not properly connect to the CFC-12 (R-12) system. However, if an improper connection is attempted, discharging and contamination may occur.

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.



CALIBRATING ACR4 WEIGHT SCALE

Calibrate the scale each three month.

To calibrate the weight scale on the ACR4:

1. Press **"Shift/Reset"** and **"Enter"** at the same time.
2. Press **"8787"**. **"A1"** is displayed.
3. Remove all weight from the scale.
4. Press **"0"**, then press **"Enter"**. **"0.00"** is displayed and change to **"A2"**.

PRECAUTIONS

< PRECAUTION >

[WITH 7 INCH DISPLAY]

5. Place a known weight (dumbbell or similar weight), between 4.5 and 8.6 kg (10 and 19 lb.) on the center of the weight scale.
6. Enter the known weight using four digits. (Example 10 lb. = 10.00, 10.5 lb. = 10.50)
7. Press **“Enter”**— the display returns to the vacuum mode.
8. Press **“Shift/Reset”** and **“Enter”** at the same time.
9. Press **“6”**— the known weight on the scale is displayed.
10. Remove the known weight from the scale. **“0.00”** is displayed.
11. Press **“Shift/Reset”** to return the ACR4 to the program mode.

CHARGING CYLINDER

Using a charging cylinder is not recommended. Refrigerant may be vented into air from cylinder's top valve 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:000000003894453

CAUTION:

- Plug all openings to prevent moisture and foreign matter 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-28, "Maintenance of Lubricant Quantity"](#).
- Keep friction surfaces between clutch and pulley clean. Wipe it off by using a clean waste cloth 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 distributes equally 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 one and check for normal operation after replacing the compressor magnet clutch.

A

B

C

D

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VTL

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P

FLUORESCENT LEAK DETECTOR

General Precautions

INFOID:000000003894454

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.
- Wear always 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). The fluorescent dye leak detector should be used in conjunction with an electrical leak detector (SST) to pinpoint refrigerant leakages.
- Read and follow all manufacture's operating instructions and precautions prior to performing the work for the purpose of safety and customer's 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).
- Remove always any remaining dye from the leakage area after repairs are completed to avoid a misdiagnosis during a future service.
- Never allow dye to come into contact with painted body panels or interior components. Clean immediately 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 the 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, or 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 the identification label on the front side of hood.

PREPARATION

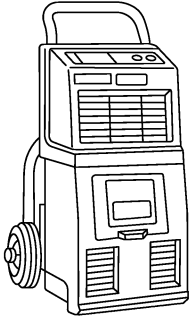
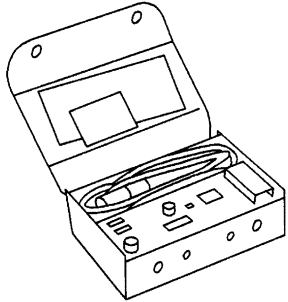
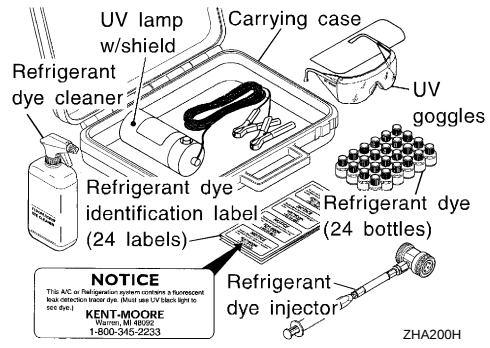
PREPARATION

Special Service Tool

INFOID:000000003894466

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

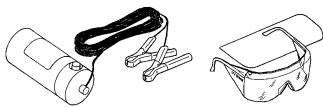
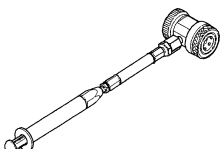
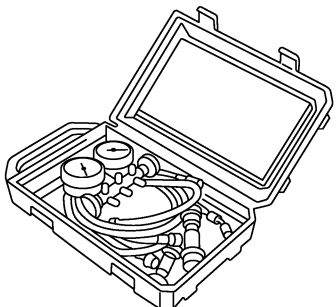
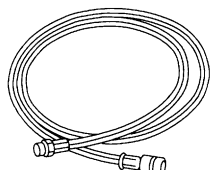
- Never mix HFC-134a (R-134a) refrigerant and/or its specified lubricant with CFC-12 (R-12) refrigerant and/or its lubricant.
- Separate and non-interchangeable service equipment must be used for handling each type of refrigerant/lubricant.
- Refrigerant container fittings, service hose fittings and service equipment fittings (equipment which 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 (SPX-North America No.) Tool name	Description
Recovery/recycling/recharging equipment (ACR4)  RJIA0195E	Function: Refrigerant recovery, recycling and recharging
Electrical leak detector  A/C leak detector SHA705EB	Power supply: DC 12 V (Cigarette lighter)
(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  NOTICE This A/C or Refrigeration system contains a fluorescent leak detection tracer dye. (Must use UV light to see dye.) KENT-MOORE Warren, MI 48090 1-800-345-2223 ZHA200H	Power supply: DC 12 V (Battery terminal)

PREPARATION

< PREPARATION >

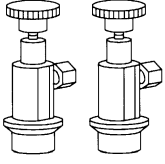
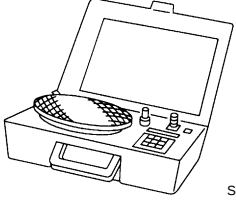
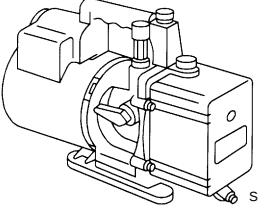
[WITH 7 INCH DISPLAY]

Tool number (SPX-North America No.) Tool name	Description
(J-42220) UV lamp and UV safety goggles  SHA438F	Power supply: DC 12 V (Battery terminal) For checking refrigerant leak when fluorescent dye is installed 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
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 - Low-pressure side hose - Utility hose  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

PREPARATION

< PREPARATION >

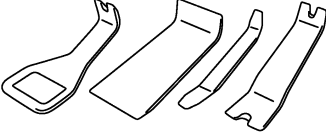
[WITH 7 INCH DISPLAY]

Tool number (SPX-North America No.) Tool name	Description	A
Service couplers • High-pressure side coupler • Low-pressure side coupler  S-NT202	Hose fitting to service hose: M14 x 1.5 fitting is optional or permanently attached.	B C
Refrigerant weight scale  S-NT200	For measuring of refrigerant Fitting size: Thread size 1/2"-16 ACME	D E F
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	G H

Commercial Service Tool

INFOID:000000003894468

VTL

Tool name	Description	J
Remover tools  PIIB7923J	Remove clips, pawls, metal clips	K L

Sealant or/and Lubricant

INFOID:000000003894469

M

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 which 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.

N

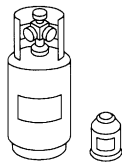
O

P

PREPARATION

< PREPARATION >

[WITH 7 INCH DISPLAY]

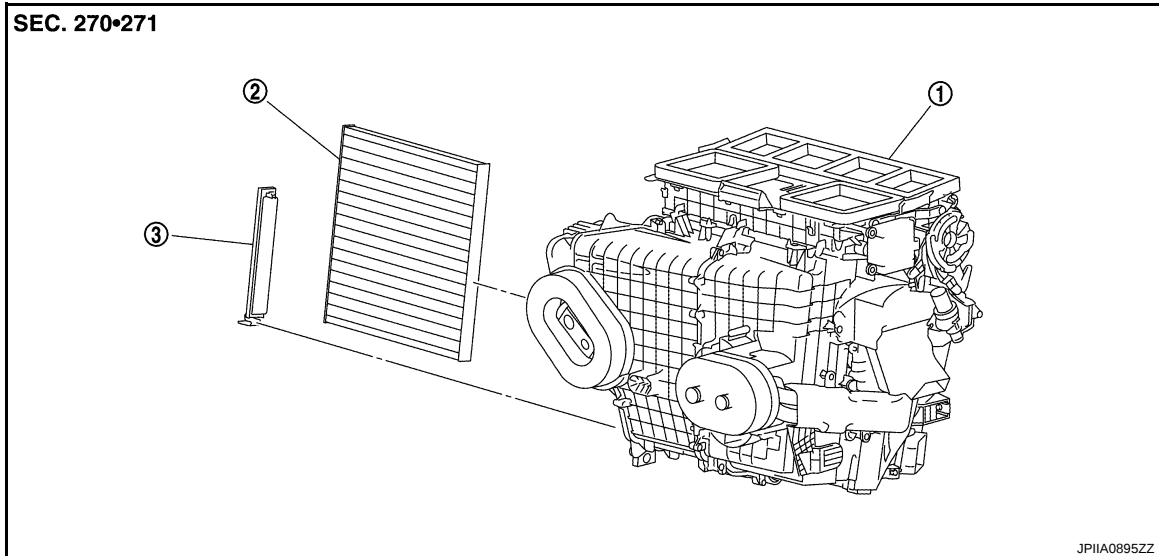
Tool name	Description
HFC-134a (R-134a) refrigerant  S-NT196	Container color: Light blue Container marking: HFC-134a (R-134a) Fitting size: Thread size • Large container 1/2"-16 ACME
NISSAN A/C System Oil Type S (DH-PS)  S-NT197	Type: Polyalkylene glycol oil (PAG), type S (DH-PS) Application: HFC-134a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

ON-VEHICLE MAINTENANCE

AIR CONDITIONER FILTER

Exploded View

INFOID:000000003894471



1. Heater & cooling unit assembly

2. Air conditioner filter

3. Filter cover

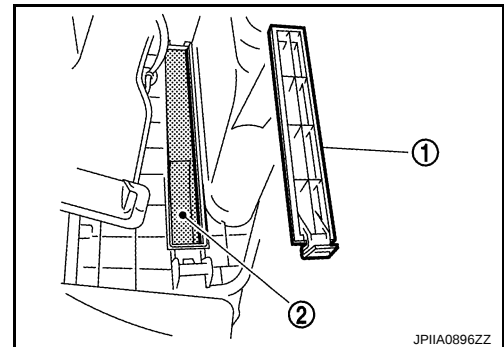
Removal and Installation

INFOID:000000003894472

VTL

REMOVAL

1. Remove filter cover (1), and then remove air conditioner filter (2).



INSTALLATION

Installation is basically the reverse order of removal.

CAUTION:

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

Replacement

INFOID:000000003894473

Replace air conditioner filter.

Refer to [MA-6, "Periodic Maintenance"](#).

Affix a caution label inside the glove box when replacing filter.

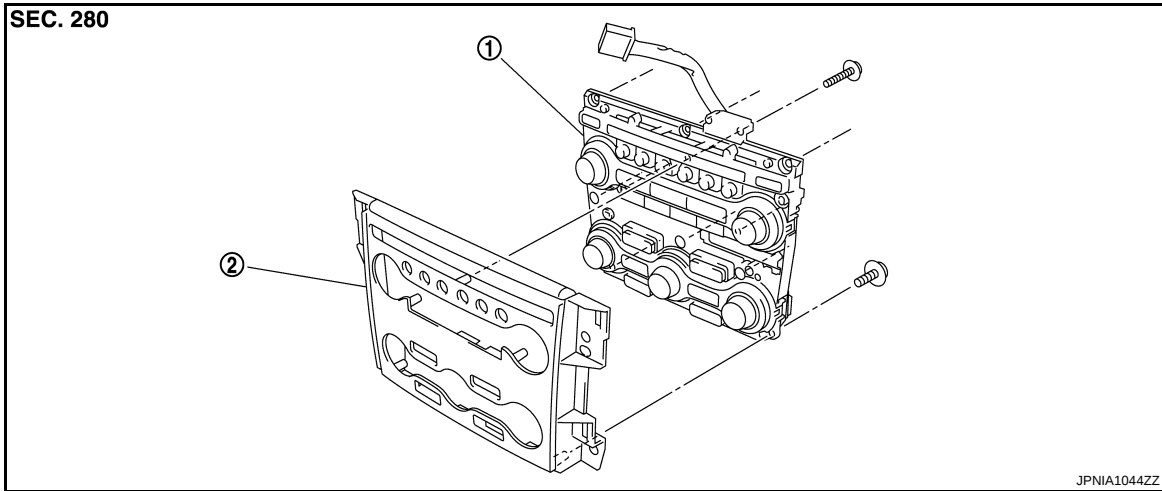
ON-VEHICLE REPAIR

PRESET SWITCH

Exploded View

INFOID:000000003894474

DISASSEMBLY



1. Preset switch

2. Cluster lid C

Removal and Installation

INFOID:000000003894475

REMOVAL

Refer to [AV-177, "Exploded View"](#) (BASE AUDIO AND DISPLAY SYSTEM), [AV-389, "Exploded View"](#) (BOSE AUDIO WITHOUT NAVIGATION) or [AV-660, "Exploded View"](#) (BOSE AUDIO WITH NAVIGATION).

INSTALLATION

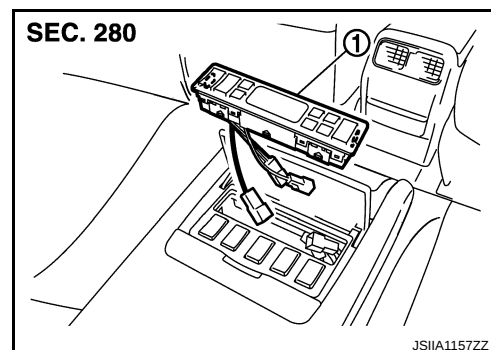
Installation is basically the reverse order of removal.

REAR CONTROL SWITCH

Exploded View

1. Rear control switch

INFOID:000000003894478

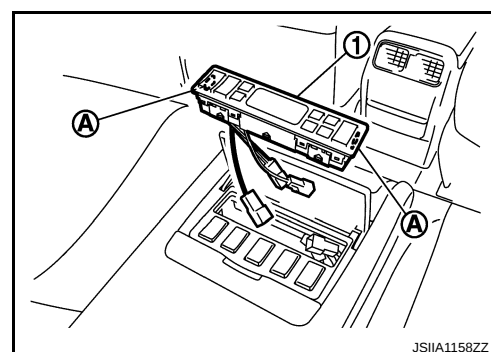


Removal and Installation

INFOID:000000003894479

REMOVAL

1. Remove rear control switch (1), stretching pawls (A) of armrest assembly.
2. Disconnect rear control switch connector.



INSTALLATION

Installation is basically the reverse order of removal.

A/C AUTO AMP.

< ON-VEHICLE REPAIR >

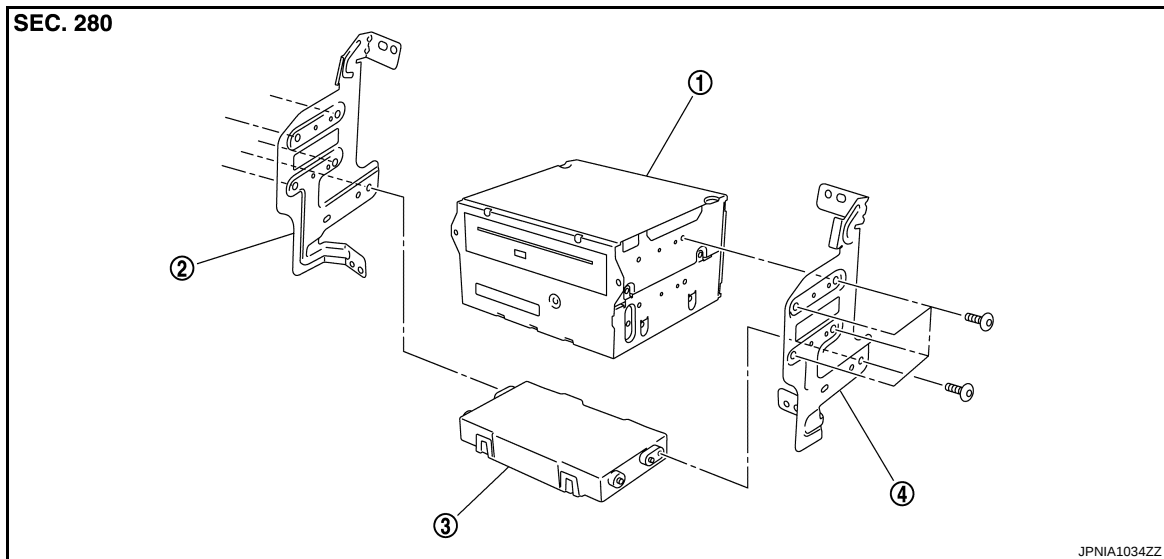
[WITH 7 INCH DISPLAY]

A/C AUTO AMP.

Exploded View

INFOID:000000003894485

DISASSEMBLY



1. AV control unit

2. Bracket LH

3. A/C auto amp.

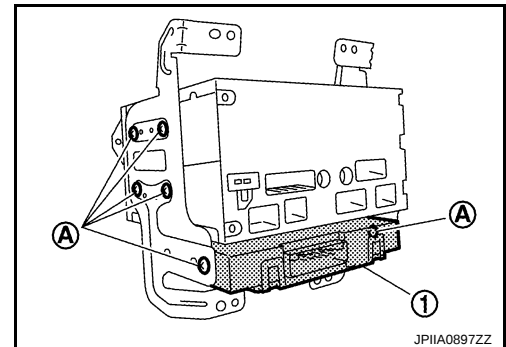
4. Bracket RH

Removal and Installation

INFOID:000000003894487

REMOVAL

1. Remove AV control unit. Refer to [AV-170. "Exploded View"](#) (BASE AUDIO AND DISPLAY SYSTEM), [AV-378. "Exploded View"](#) (BOSE AUDIO WITHOUT NAVIGATION) or [AV-648. "Exploded View"](#) (BOSE AUDIO WITH NAVIGATION).
2. Remove mounting screws (A), and then remove A/C auto amp. (1).



INSTALLATION

Installation is basically the reverse order of removal.

AMBIENT SENSOR

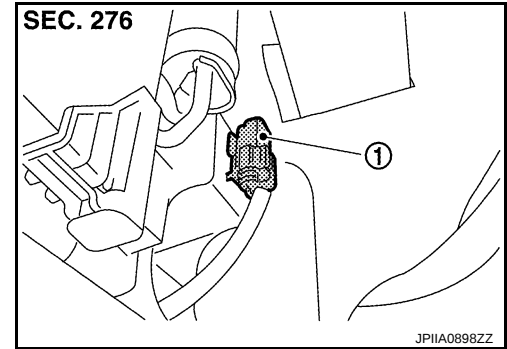
< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

AMBIENT SENSOR

Exploded View

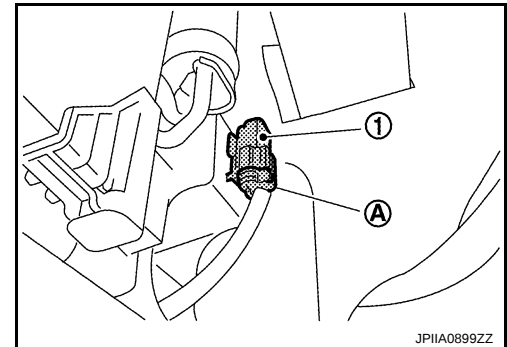
1. Ambient sensor



Removal and Installation

REMOVAL

1. Remove engine under cover. Refer to [EXT-28, "Exploded View"](#).
2. Disconnect ambient sensor connector (A), and then remove ambient sensor (1).



INSTALLATION

Installation is basically the reverse order of removal.

GAS SENSOR

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

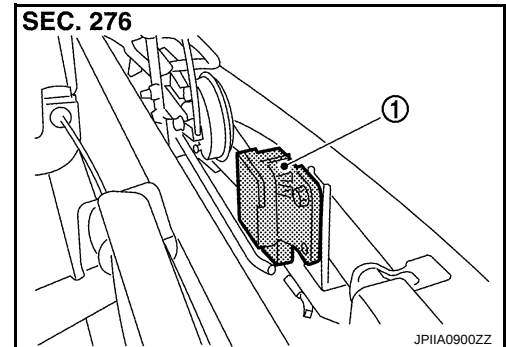
GAS SENSOR

WITH INTELLIGENT AIR CONDITIONER SYSTEM

WITH INTELLIGENT AIR CONDITIONER SYSTEM : Exploded View

INFOID:000000003894490

1. Gas sensor

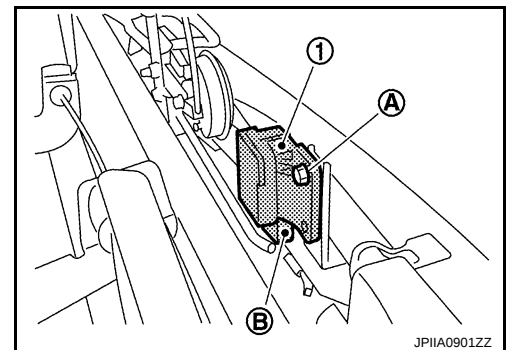


WITH INTELLIGENT AIR CONDITIONER SYSTEM : Removal and Installation

INFOID:000000003894491

REMOVAL

1. Remove mounting bolt (A), and then remove gas sensor (1).
2. Disconnect gas sensor connector (B).



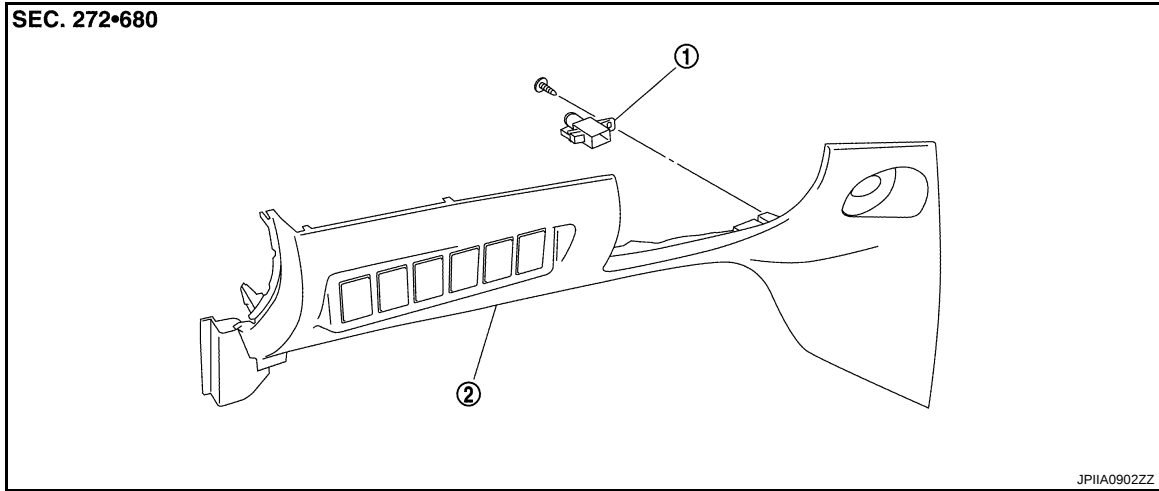
INSTALLATION

Installation is basically the reverse order of removal.

IN-VEHICLE SENSOR

Exploded View

INFOID:000000003894492



1. In-vehicle sensor

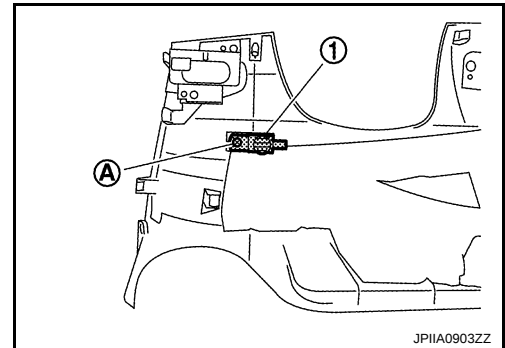
2. Instrument lower panel LH

Removal and Installation

INFOID:000000003894493

REMOVAL

1. Remove instrument lower panel LH. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting screw (A), and then remove in-vehicle sensor (1).



INSTALLATION

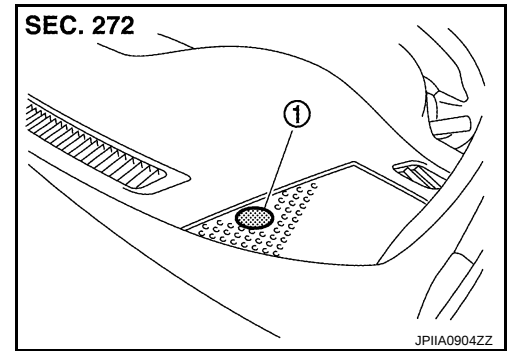
Installation is basically the reverse order of removal.

SUNLOAD SENSOR

Exploded View

INFOID:000000003894494

1. Sunload sensor

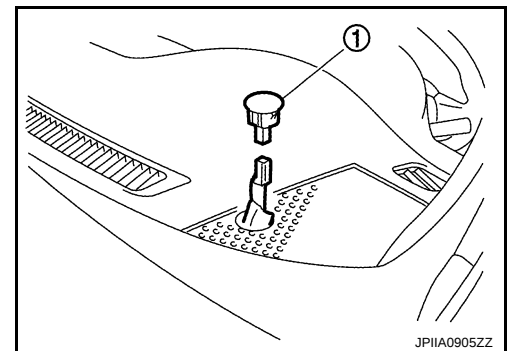


Removal and Installation

INFOID:000000003894495

REMOVAL

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



INSTALLATION

Installation is basically the reverse order of removal.

INTAKE SENSOR

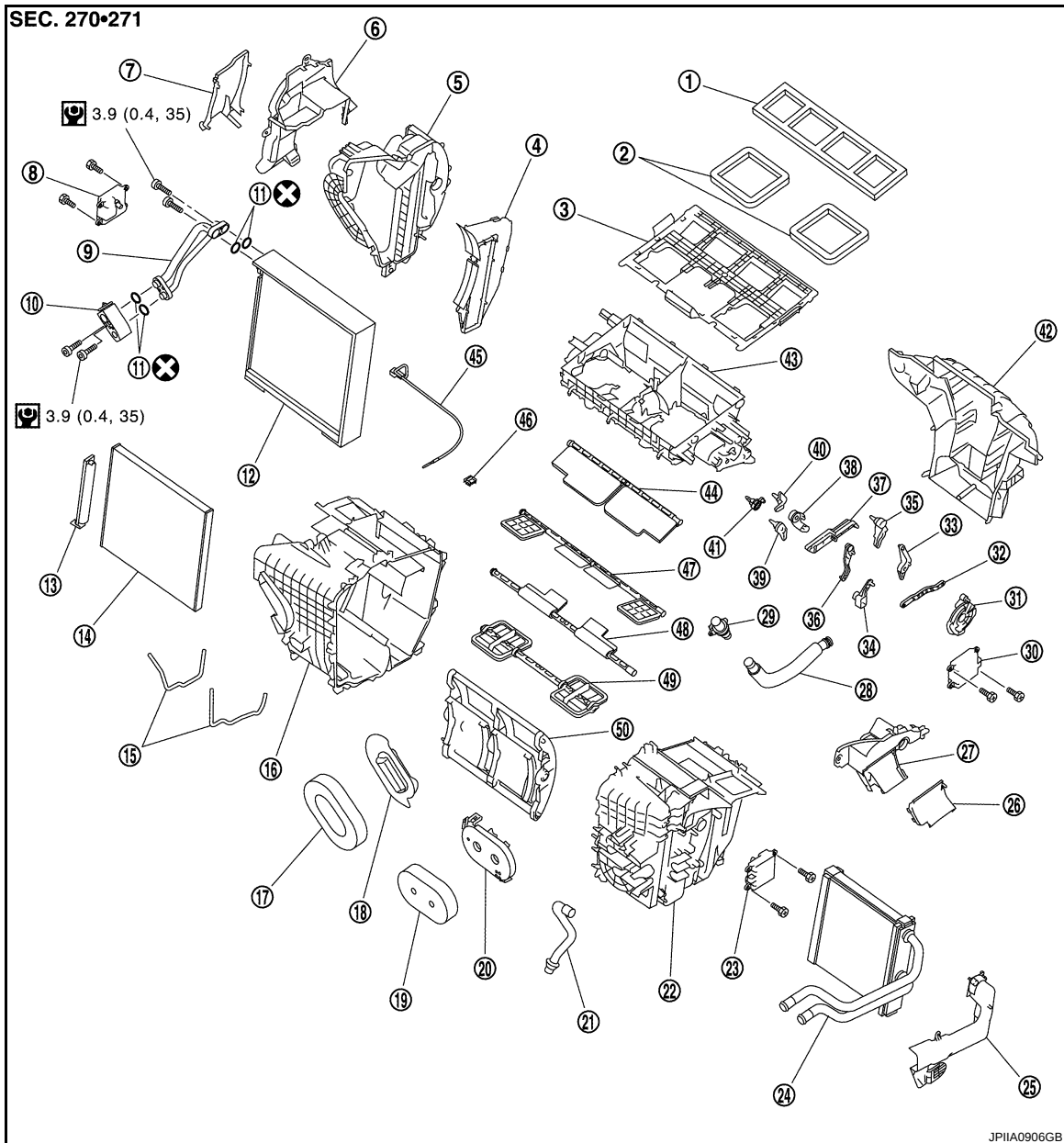
< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

INTAKE SENSOR

Exploded View

INFOID:000000003894496



- | | | |
|--|--|-----------------------------|
| 1. Ventilator seal | 2. Defroster seal | 3. Distributor upper case |
| 4. Center case | 5. Heater & cooling unit case cover | 6. Foot duct 1 (right) |
| 7. Foot duct 2 (right) | 8. Air mix door motor (passenger side) | 9. Evaporator pipe assembly |
| 10. Expansion valve | 11. O-ring | 12. Evaporator |
| 13. Filter cover | 14. Air conditioner filter | 15. Case packing |
| 16. Heater & cooling unit case (right) | 17. Cooler pipe grommet | 18. Grommet |
| 19. Heater pipe grommet | 20. Heater pipe support | 21. Drain hose |
| 22. Heater & cooling unit case (left) | 23. Air mix door motor (driver side) | 24. Heater core |
| 25. Heater pipe cover | 26. Foot duct 2 (left) | 27. Foot duct 1 (left) |
| 28. Aspirator hose | 29. Aspirator | 30. Mode door motor |
| 31. Main link | 32. Rod link | 33. Ventilator door link |
| 34. Mode door lever | 35. Ventilator door lever | 36. Max. cool door link |

INTAKE SENSOR

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

- | | | |
|----------------------------|-------------------------------|--------------------------|
| 37. Defroster door link | 38. Foot door link | 39. Max. cool door lever |
| 40. Foot door lever | 41. Defroster door lever | 42. Adapter case |
| 43. Distributor lower case | 44. Ventilator door | 45. Intake sensor |
| 46. Intake sensor bracket | 47. Foot door | 48. Max. cool door |
| 49. Defroster door | 50. Air mix door (Slide door) | |

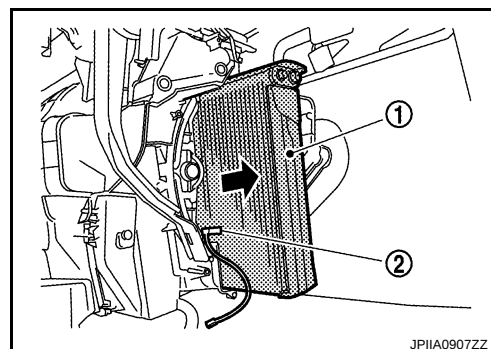
Refer to [GI-4. "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003894498

REMOVAL

1. Remove evaporator pipe assembly. Refer to [HA-54. "Exploded View"](#).
2. Disconnect intake sensor connector.
3. Slide evaporator (1) toward the right side of the vehicle (as shown in the figure), and then remove intake sensor (2).



INSTALLATION

Installation is basically the reverse order of removal.

CAUTION:

- Replace O-rings with new ones. Then apply compressor oil to them when installing.
- Mark the mounting position of intake sensor bracket prior to removal so that the reinstalled sensor can be located in the same position.
- Do not rotate the bracket insertion part when removing and installing the intake sensor.
- Check for refrigerant leakage when charging refrigerant.

BLOWER UNIT

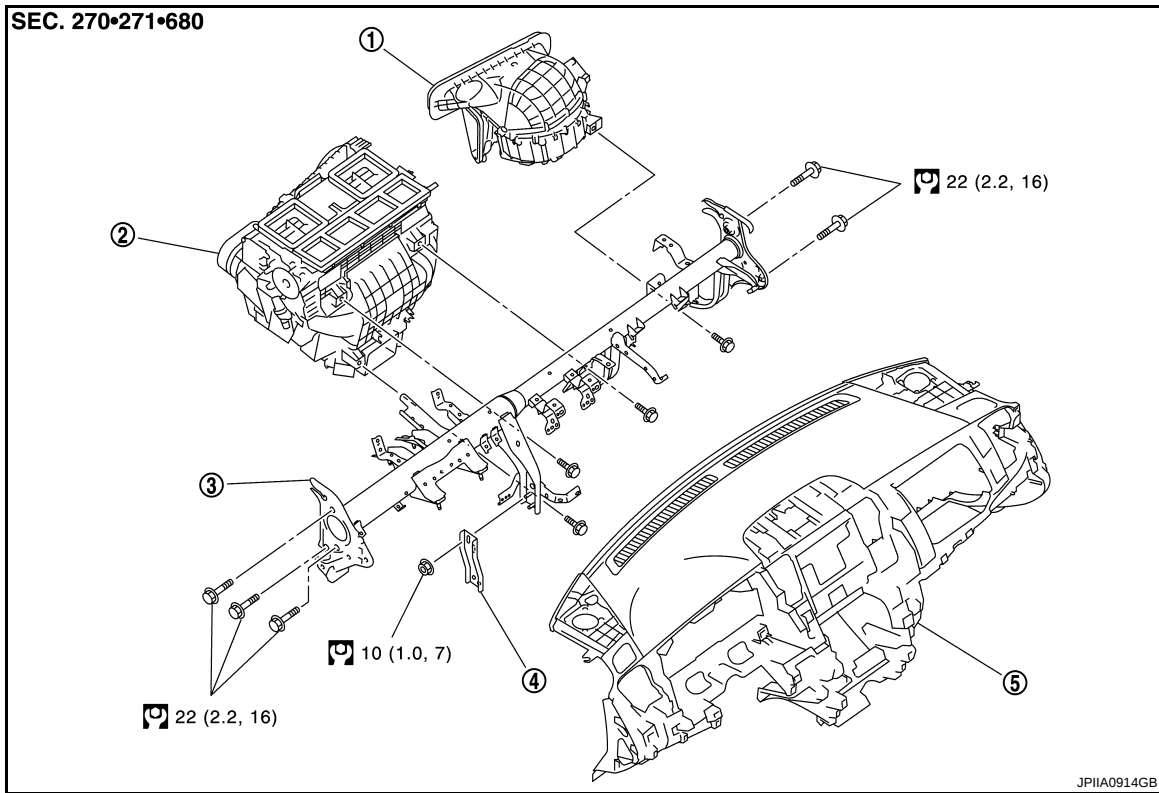
< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

BLOWER UNIT

Exploded View

INFOID:000000003894499



- | | | |
|--------------------|-----------------------------------|--------------------|
| 1. Blower unit | 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.

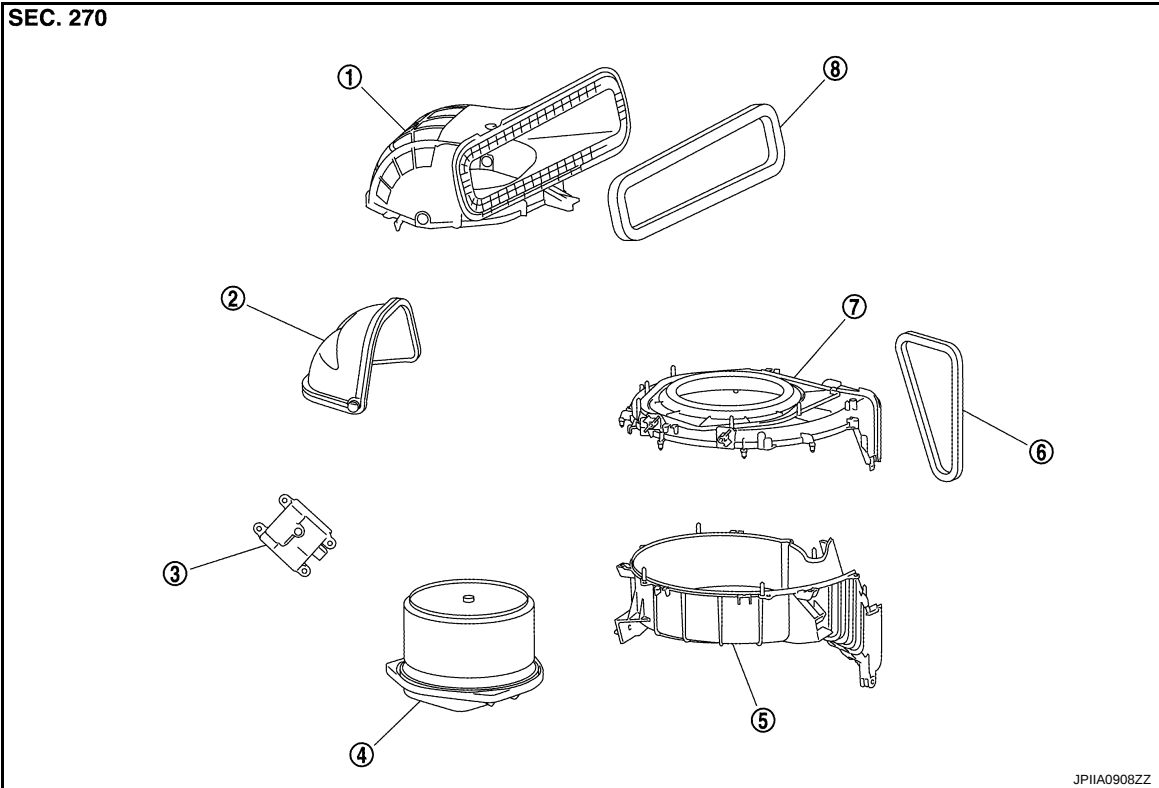
DISASSEMBLY

BLOWER UNIT

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

SEC. 270



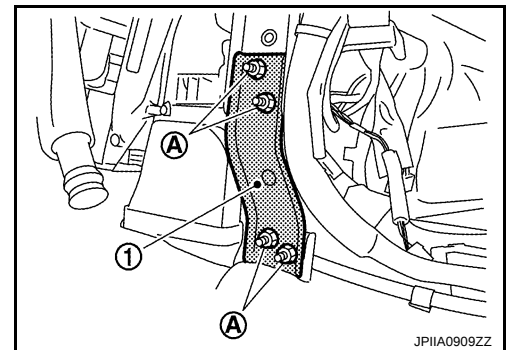
- | | | |
|----------------------|----------------------|----------------------|
| 1. Shutter box case | 2. Intake door | 3. Intake door motor |
| 4. Blower motor | 5. Intake lower case | 6. Outlet seal |
| 7. Intake upper case | 8. Intake seal | |

Removal and Installation

INFOID:000000003940511

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting nuts (A), and then remove instrument stay (1).



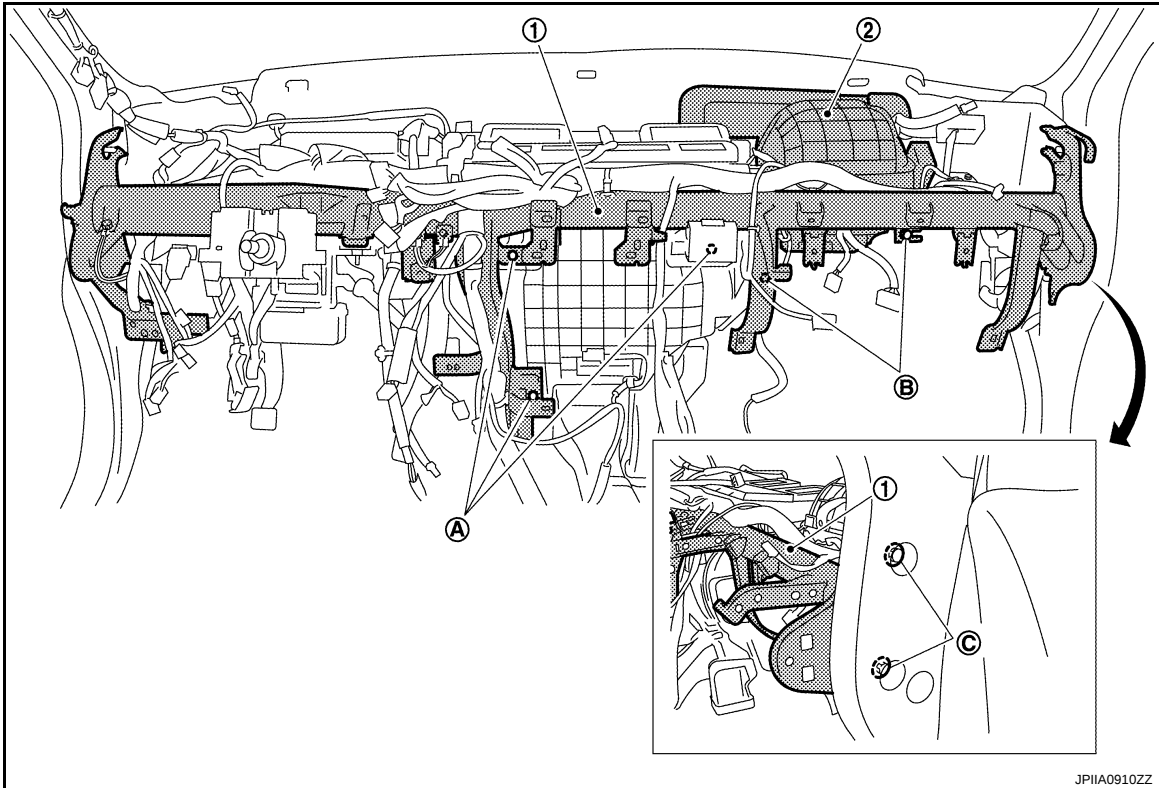
3. Disconnect intake door motor and blower motor connectors.

BLOWER UNIT

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

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



5. Remove steering member mounting bolts (C) (right).
6. Remove blower unit (2) while pulling steering member (1).

INSTALLATION

Installation is basically the reverse order of removal.

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BLOWER MOTOR

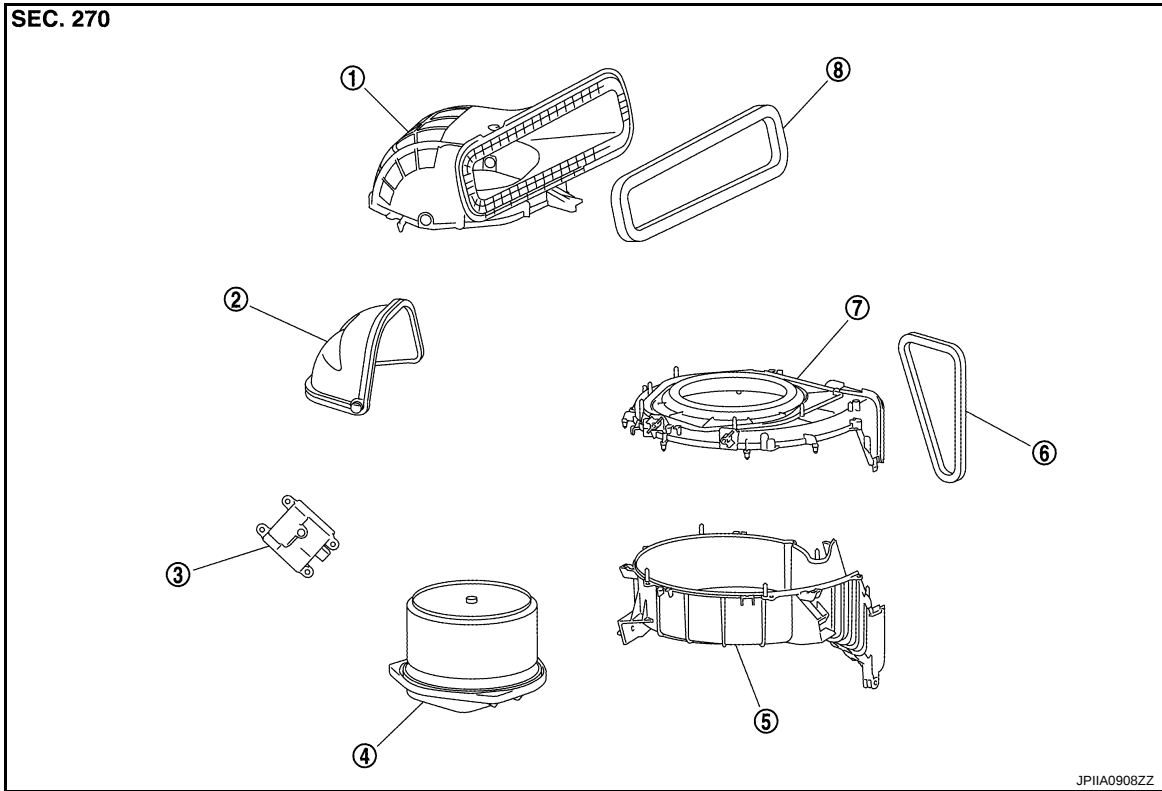
< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

BLOWER MOTOR

Exploded View

INFOID:000000003894501



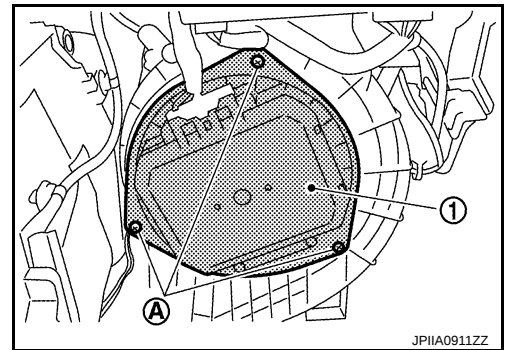
- | | | |
|----------------------|----------------------|----------------------|
| 1. Shutter box case | 2. Intake door | 3. Intake door motor |
| 4. Blower motor | 5. Intake lower case | 6. Outlet seal |
| 7. Intake upper case | 8. Intake seal | |

Removal and Installation

INFOID:000000003894502

REMOVAL

1. Remove globe box assembly. Refer to [IP-11, "Exploded View"](#).
2. Disconnect blower motor connector.
3. Remove mounting screws (A), and then remove blower motor (1).



INSTALLATION

Installation is basically the reverse order of removal.

INTAKE DOOR MOTOR

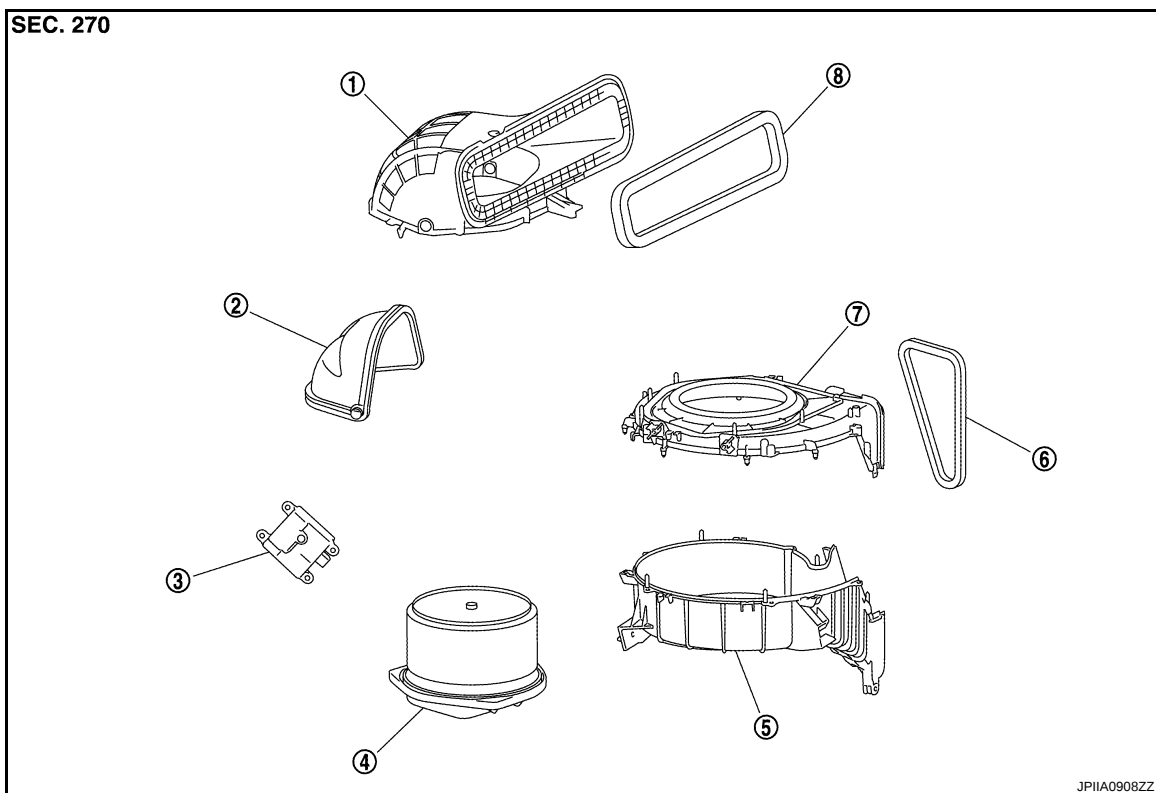
< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

INTAKE DOOR MOTOR

Exploded View

INFOID:000000003894503



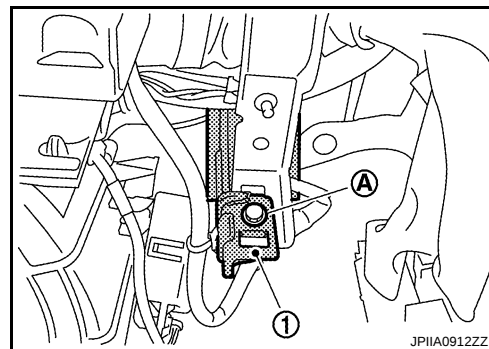
- | | | |
|----------------------|----------------------|----------------------|
| 1. Shutter box case | 2. Intake door | 3. Intake door motor |
| 4. Blower motor | 5. Intake lower case | 6. Outlet seal |
| 7. Intake upper case | 8. Intake seal | |

Removal and Installation

INFOID:000000003894504

REMOVAL

1. Remove globe box assembly. Refer to [JP-11, "Exploded View"](#).
2. Remove mounting screw (A), and then move remote keyless entry receiver (1) to a position where it does not inhibit work.

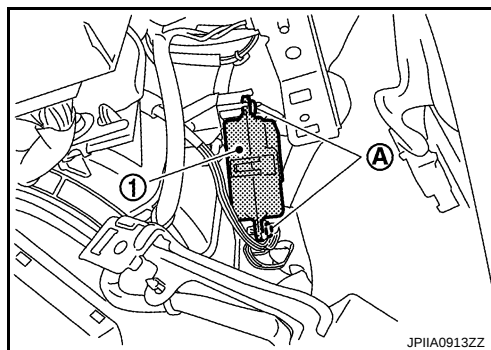


INTAKE DOOR MOTOR

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

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



INSTALLATION

Installation is basically the reverse order of removal.

HEATER & COOLING UNIT ASSEMBLY

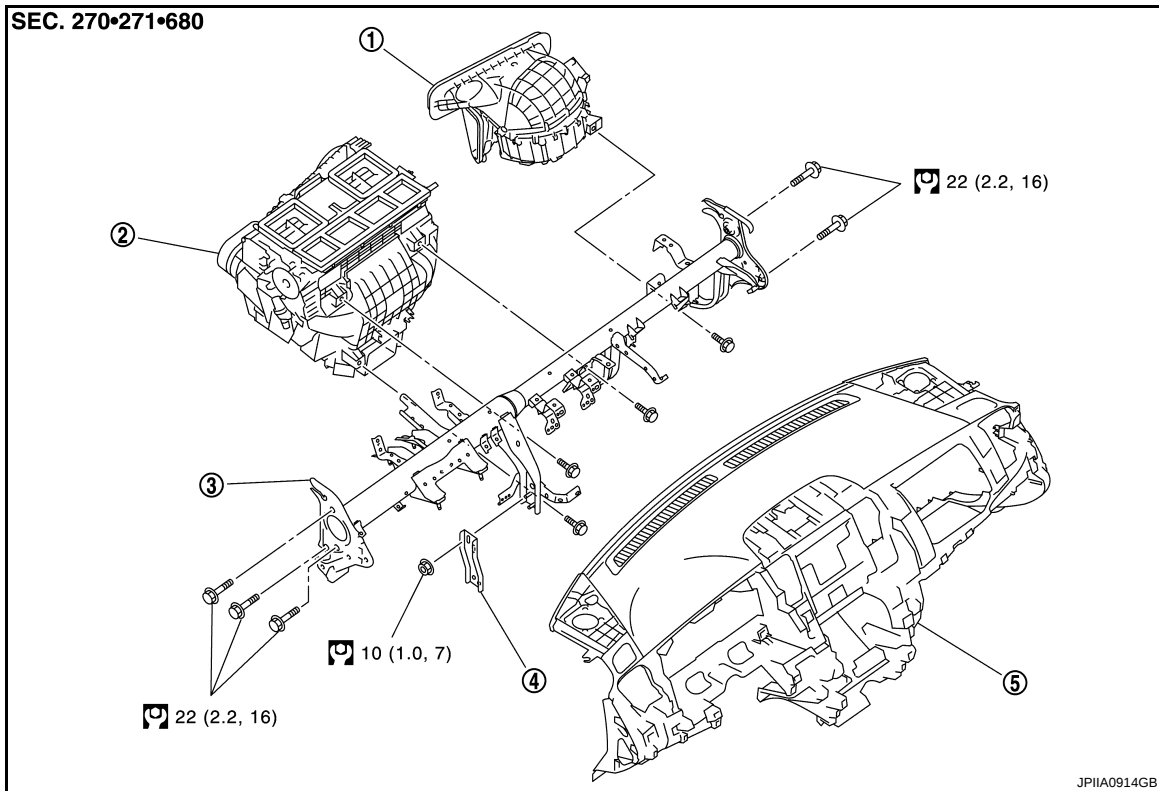
< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

HEATER & COOLING UNIT ASSEMBLY

Exploded View

INFOID:000000003894505



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

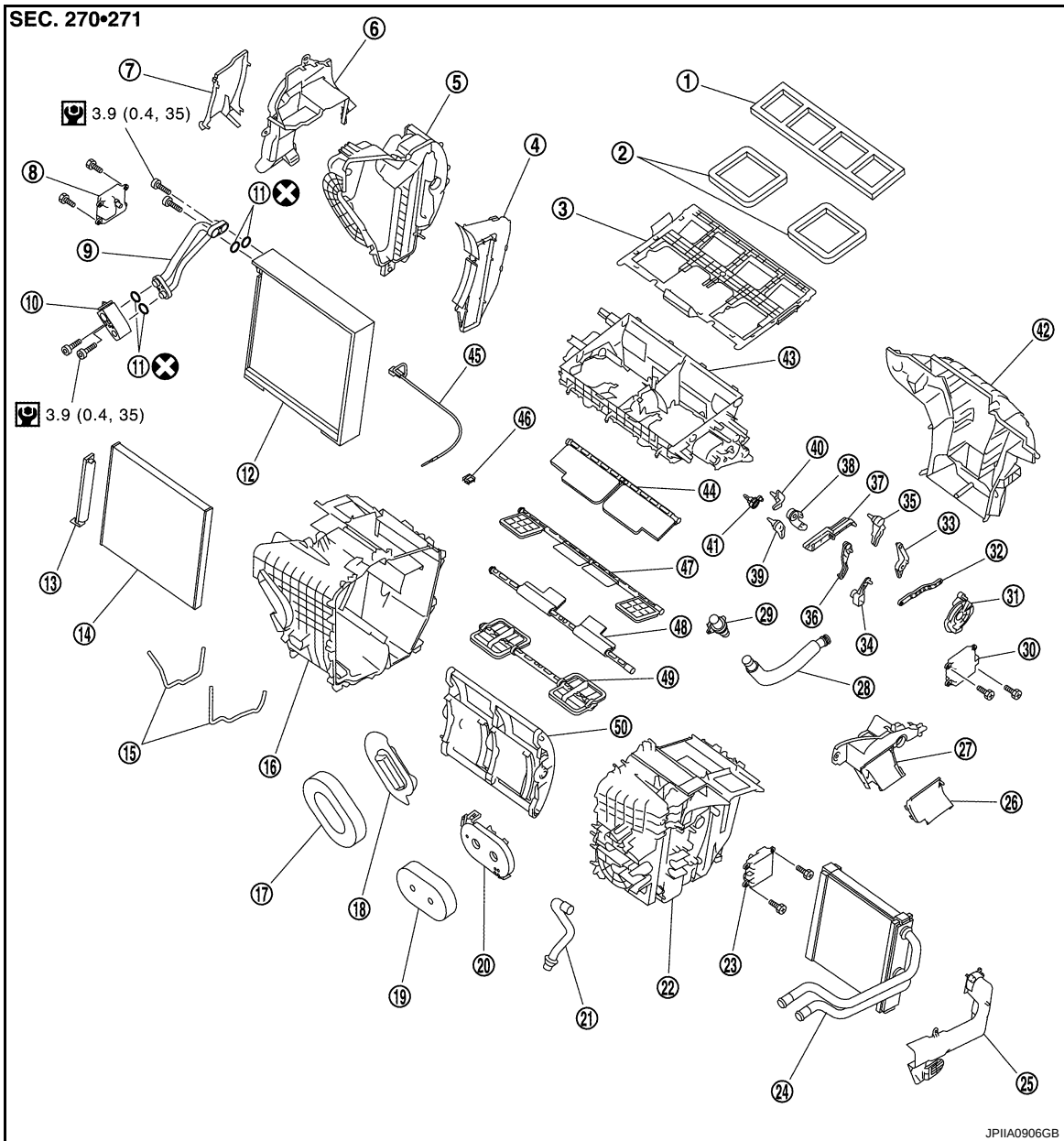
Refer to [GI-4, "Components"](#) for symbols in the figure.

DISASSEMBLY

HEATER & COOLING UNIT ASSEMBLY

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]



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

HEATER & COOLING UNIT ASSEMBLY

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

49. Defroster door

50. Air mix door (Slide door)

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

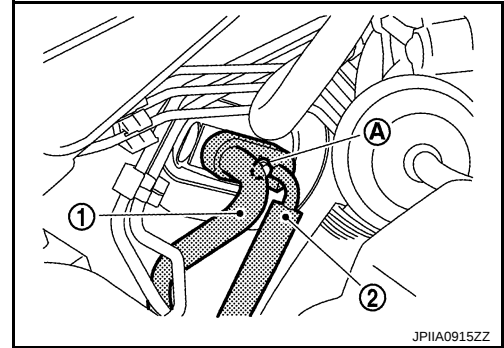
INFOID:000000003940515

REMOVAL

1. Collect the refrigerant with refrigerant collecting equipment (for HFC134a).
2. Drain engine coolant from cooling system. Refer to [CO-8, "Draining"](#).
3. Remove mounting bolt (A), and then disconnect low-pressure pipe (1) and high-pressure pipe (2) from the expansion valve.

CAUTION:

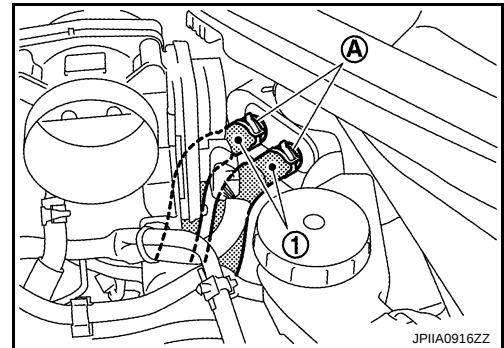
Cap or wrap the joint of the A/C piping and expansion valve with suitable material such as vinyl tape to avoid the entry of air.



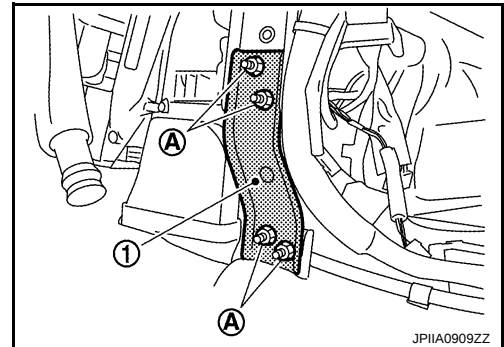
4. Remove air cleaner case and air duct. Refer to [EM-26, "Exploded View"](#)
5. Remove clamps (A), and then disconnect heater hoses (1).

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.



6. Remove instrument panel assembly. Refer to [IP-11, "Exploded View"](#).
7. Remove mounting nuts (A), and then remove instrument stay (1).

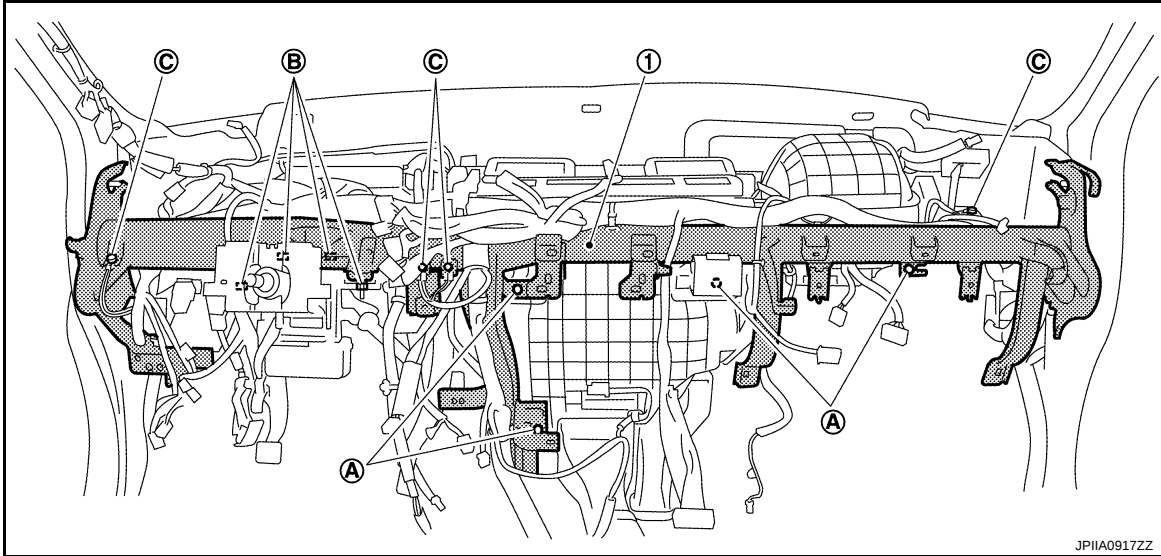


HEATER & COOLING UNIT ASSEMBLY

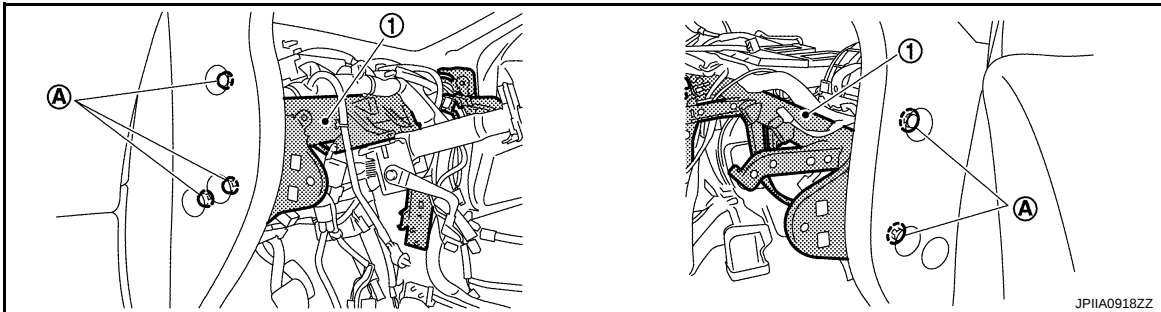
< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

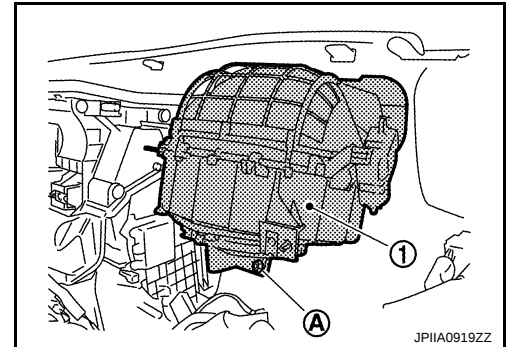
8. Remove mounting bolts (A) from heater & cooling unit assembly and blower unit.



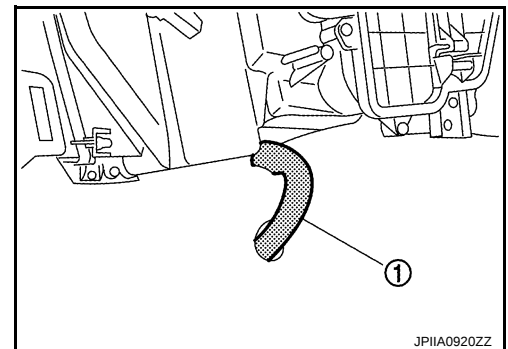
9. Remove steering column mounting nuts (B). Refer to [ST-13, "Exploded View"](#).
10. Remove ground bolts (C) from steering member (1).
11. Disconnect each harness connectors, and remove harness clips from steering member.
12. Remove mounting bolts (A), and then remove steering member (1).



13. Disconnect the intake door motor and blower motor connectors.
14. Remove mounting screws (A), and then remove blower unit (1).



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

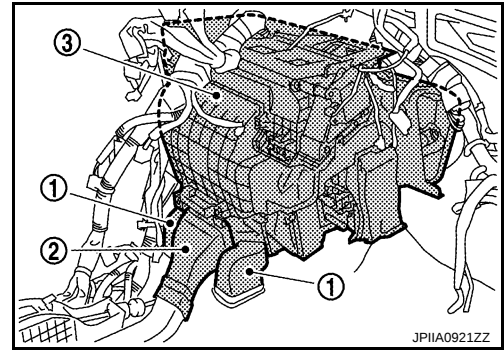


HEATER & COOLING UNIT ASSEMBLY

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

16. Remove floor duct 1 (left and right) (1) and rear ventilator duct 1 (2), and then remove heater & cooling unit assembly (3).



INSTALLATION

Installation is basically the reverse order of removal.

CAUTION:

- Replace O-rings with new ones. Then apply compressor oil to them when installing.
- Check for leakages when recharging refrigerant.

NOTE:

- Refer to [CO-9, "Refilling"](#) when filling radiator with engine coolant.
- Charge the refrigerant.

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MODE DOOR MOTOR

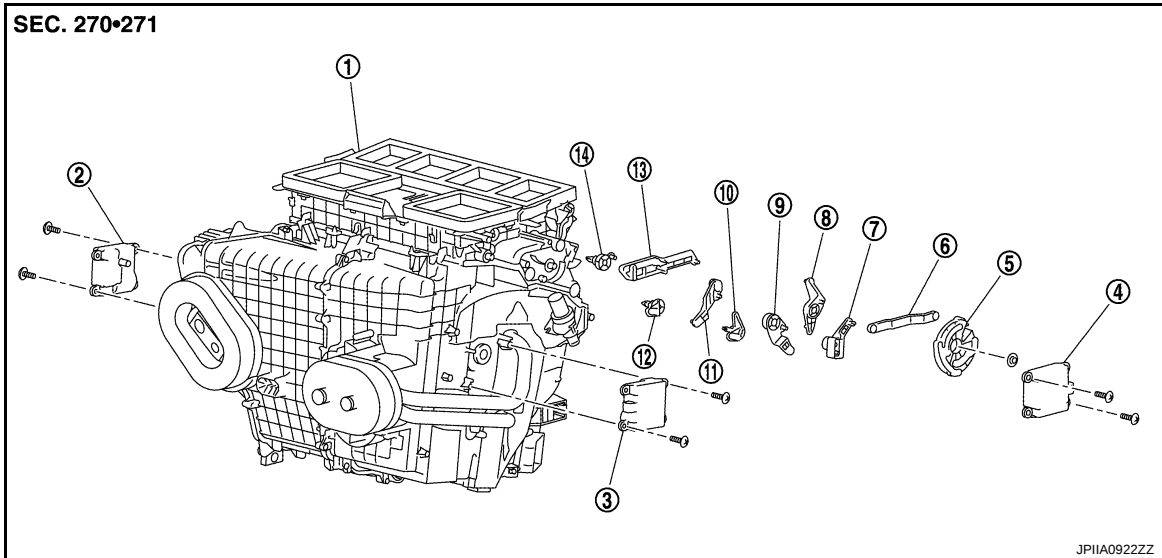
< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

MODE DOOR MOTOR

Exploded View

INFOID:000000003894509



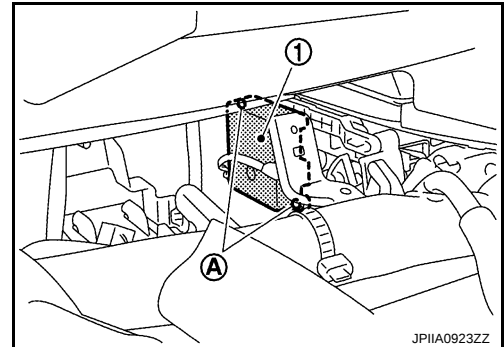
- | | | |
|-----------------------------------|--|-------------------------------------|
| 1. Heater & cooling unit assembly | 2. Air mix door motor (passenger side) | 3. Air mix door motor (driver side) |
| 4. Mode door motor | 5. Main link | 6. Rod link |
| 7. Mode door lever | 8. Ventilator door link | 9. Foot door link |
| 10. Foot door lever | 11. Max. cool door link | 12. Max. cool door lever |
| 13. Defroster door link | 14. Defroster door lever | |

Removal and Installation

INFOID:000000003894510

REMOVAL

1. Remove BCM. Refer to [BCS-78, "Exploded View"](#).
2. Remove mounting screws (A), and then remove mode door motor (1).
3. Disconnect mode door motor connector.



INSTALLATION

Installation is basically the reverse order of removal.

AIR MIX DOOR MOTOR

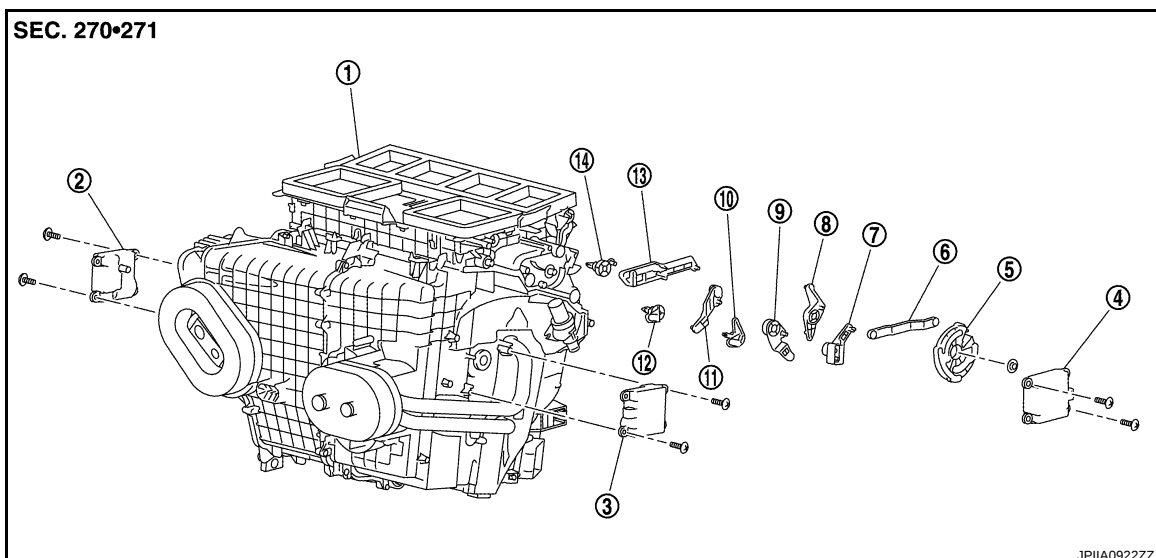
< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

AIR MIX DOOR MOTOR

Exploded View

INFOID:000000003894511



- | | | |
|-----------------------------------|--|-------------------------------------|
| 1. Heater & cooling unit assembly | 2. Air mix door motor (passenger side) | 3. Air mix door motor (driver side) |
| 4. Mode door motor | 5. Main link | 6. Rod link |
| 7. Mode door lever | 8. Ventilator door link | 9. Foot door link |
| 10. Foot door lever | 11. Max. cool door link | 12. Max. cool door lever |
| 13. Defroster door link | 14. Defroster door lever | |

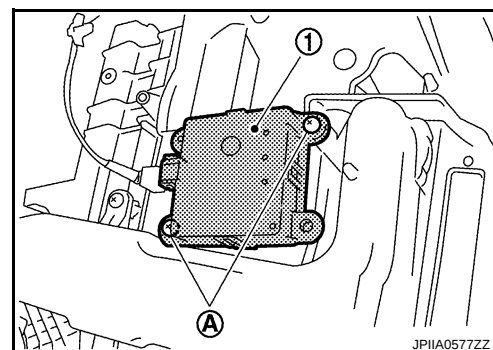
Removal and Installation

INFOID:000000003940523

REMOVAL

Driver Side

1. Disconnect the battery cable from the negative terminal after setting the temperature (driver side) to 18°C (60°F).
2. Remove foot duct (driver side). Refer to [VTL-117, "FOOT DUCT : Exploded View"](#).
3. Remove mounting screws (A), and then remove air mix door motor (driver side) (1).
4. Disconnect air mix door motor connector (driver side).



Passenger Side

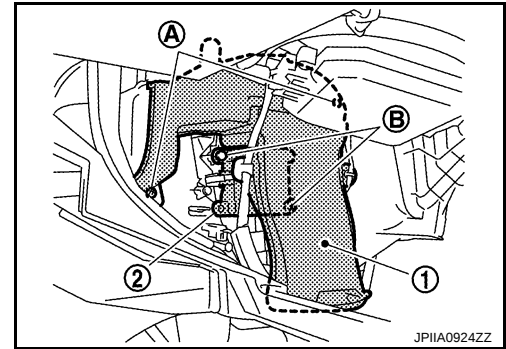
1. Disconnect the battery cable from the negative terminal after setting the temperature (passenger side) to 18°C (60°F).

AIR MIX DOOR MOTOR

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

2. Remove mounting screws (A), and then move foot duct (passenger side) (1) to a position where it does not inhibit work.
3. Remove mounting screws (B), and then remove air mix door motor (passenger side) (2).
4. Disconnect air mix door motor connector (passenger side).



INSTALLATION

Installation is basically the reverse order of removal.

HEATER CORE

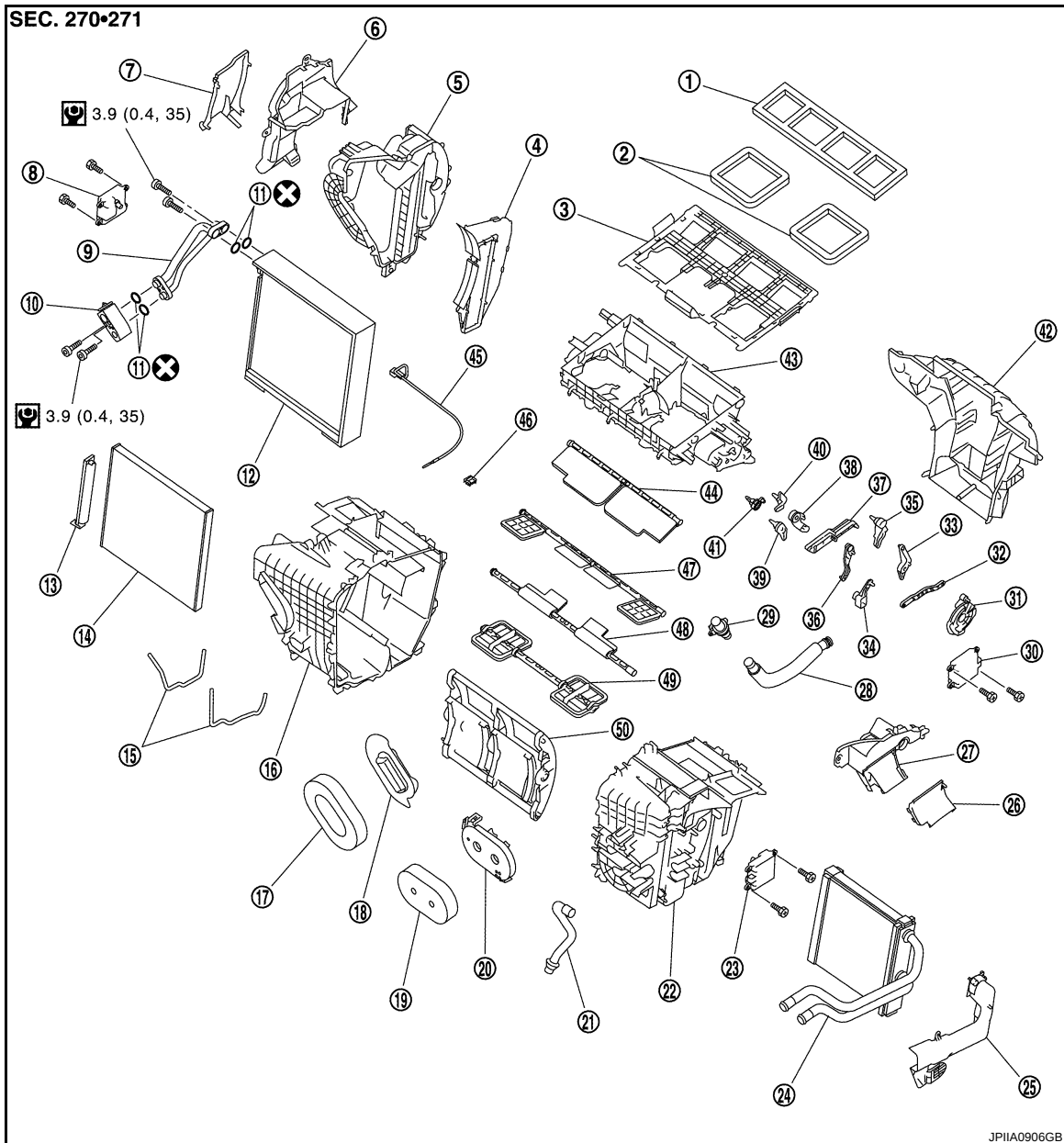
< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

HEATER CORE

Exploded View

INFOID:000000003894514



- | | | |
|--|--|-----------------------------|
| 1. Ventilator seal | 2. Defroster seal | 3. Distributor upper case |
| 4. Center case | 5. Heater & cooling unit case cover | 6. Foot duct 1 (right) |
| 7. Foot duct 2 (right) | 8. Air mix door motor (passenger side) | 9. Evaporator pipe assembly |
| 10. Expansion valve | 11. O-ring | 12. Evaporator |
| 13. Filter cover | 14. Air conditioner filter | 15. Case packing |
| 16. Heater & cooling unit case (right) | 17. Cooler pipe grommet | 18. Grommet |
| 19. Heater pipe grommet | 20. Heater pipe support | 21. Drain hose |
| 22. Heater & cooling unit case (left) | 23. Air mix door motor (driver side) | 24. Heater core |
| 25. Heater pipe cover | 26. Foot duct 2 (left) | 27. Foot duct 1 (left) |
| 28. Aspirator hose | 29. Aspirator | 30. Mode door motor |
| 31. Main link | 32. Rod link | 33. Ventilator door link |
| 34. Mode door lever | 35. Ventilator door lever | 36. Max. cool door link |

HEATER CORE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

- | | | |
|----------------------------|-------------------------------|--------------------------|
| 37. Defroster door link | 38. Foot door link | 39. Max. cool door lever |
| 40. Foot door lever | 41. Defroster door lever | 42. Adapter case |
| 43. Distributor lower case | 44. Ventilator door | 45. Intake sensor |
| 46. Intake sensor bracket | 47. Foot door | 48. Max. cool door |
| 49. Defroster door | 50. Air mix door (Slide door) | |

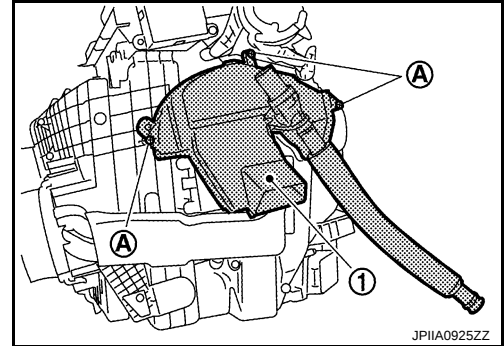
Refer to [GI-4. "Components"](#) for symbols in the figure.

Removal and Installation

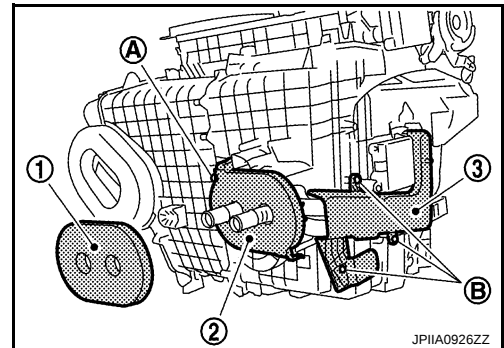
INFOID:000000003894516

REMOVAL

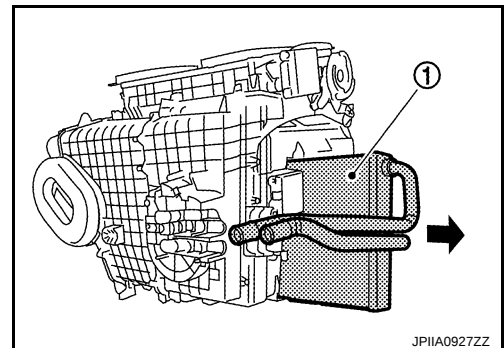
1. Remove heater & cooling unit assembly. Refer to [VTL-93. "Exploded View"](#).
2. Remove mounting screws (A), and then remove foot duct (left) (1).



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



6. Slide heater core (1) to leftward (as shown in the figure).



INSTALLATION

Installation is basically the reverse order of removal.

CAUTION:

- Replace O-rings with new ones. Then apply compressor oil to them when installing.
- Check for refrigerant leakage when charging refrigerant.

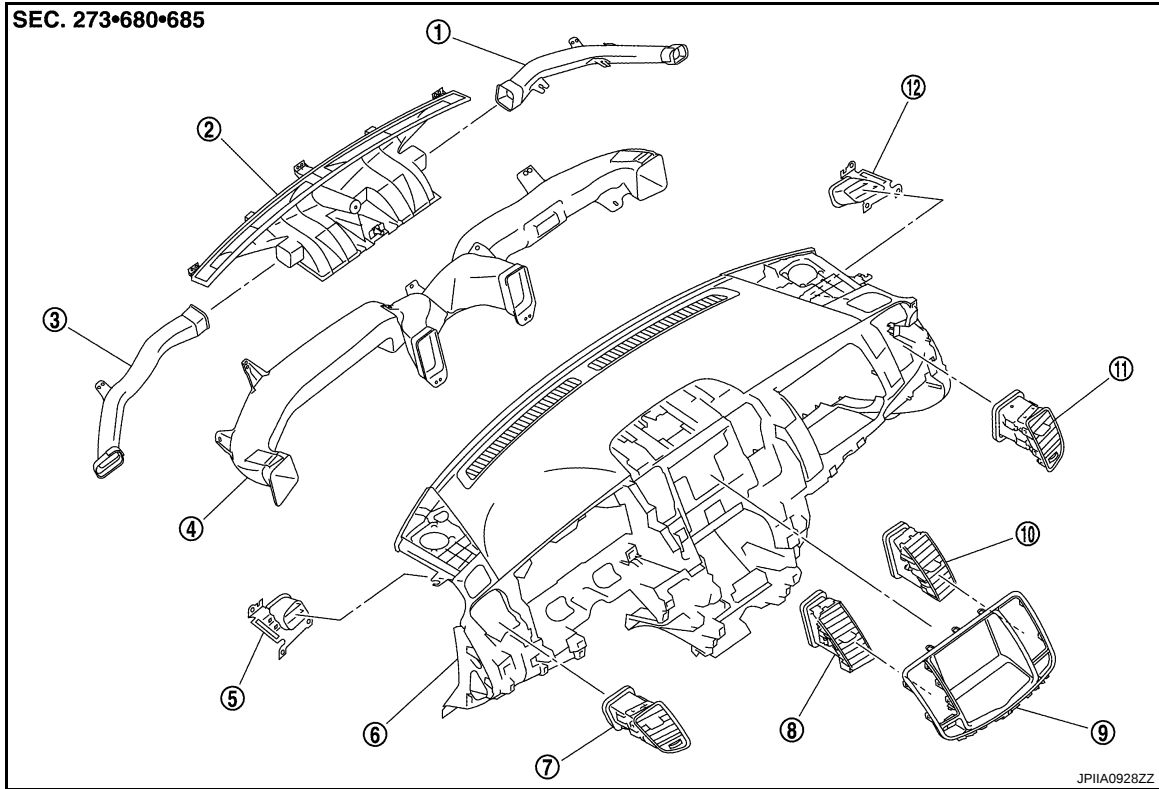
NOTE:

- Refer to [CO-9. "Refilling"](#) when filling radiator with engine coolant.
- Charge the refrigerant.

DUCT AND GRILLE CENTER VENTILATOR GRILLE

CENTER VENTILATOR GRILLE : Exploded View

INFOID:000000003894517



- | | | |
|--------------------------------------|------------------------------------|-----------------------------------|
| 1. Side defroster nozzle (right) | 2. Defroster nozzle | 3. Side defroster nozzle (left) |
| 4. Ventilator duct | 5. Side defroster grille (left) | 6. Instrument panel assembly |
| 7. Side ventilator grille (left) | 8. Center ventilator grille (left) | 9. Cluster lid D |
| 10. Center ventilator grille (right) | 11. Side ventilator grille (right) | 12. Side defroster grille (right) |

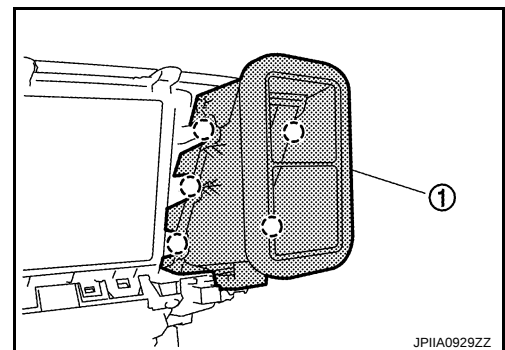
CENTER VENTILATOR GRILLE : Removal and Installation

INFOID:000000003894518

REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Disengage the pawls, and then remove center ventilator grilles (left and right) (1).

 : Pawl



INSTALLATION

Installation is basically the reverse order of removal.

SIDE VENTILATOR GRILLE

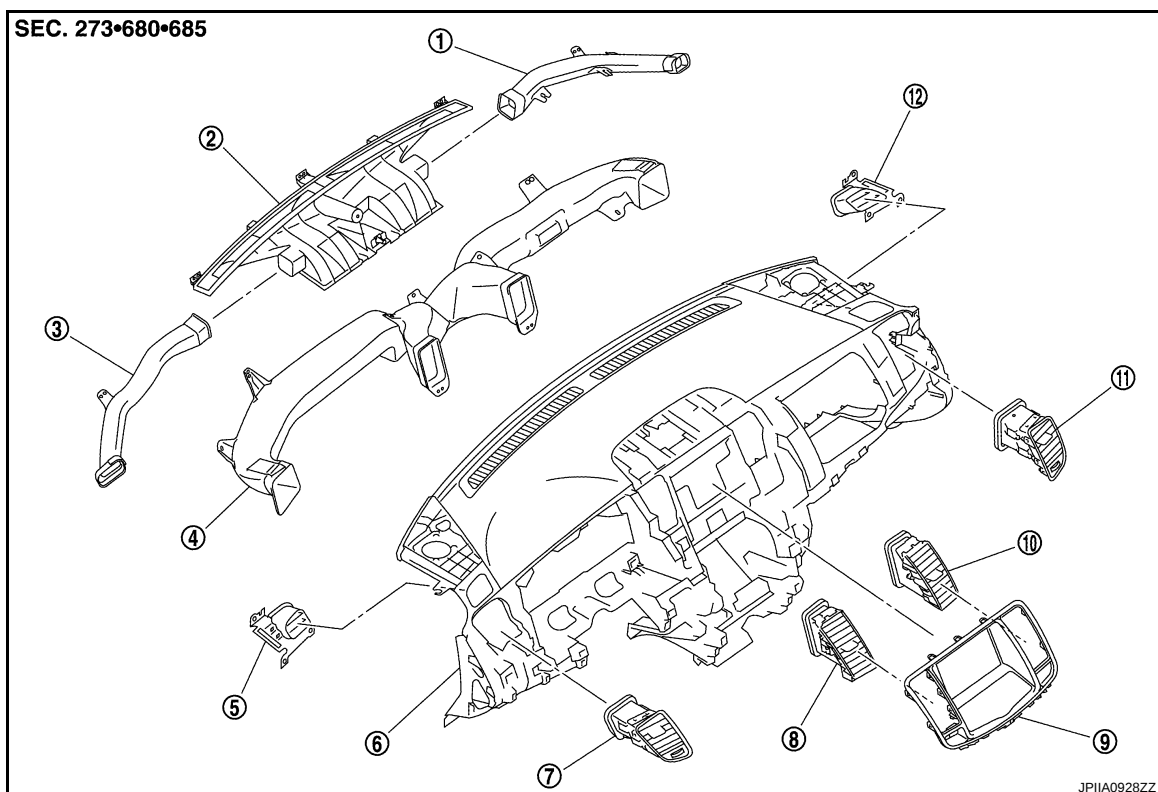
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

SIDE VENTILATOR GRILLE : Exploded View

INFOID:000000003894519



- | | | |
|--------------------------------------|------------------------------------|-----------------------------------|
| 1. Side defroster nozzle (right) | 2. Defroster nozzle | 3. Side defroster nozzle (left) |
| 4. Ventilator duct | 5. Side defroster grille (left) | 6. Instrument panel assembly |
| 7. Side ventilator grille (left) | 8. Center ventilator grille (left) | 9. Cluster lid D |
| 10. Center ventilator grille (right) | 11. Side ventilator grille (right) | 12. Side defroster grille (right) |

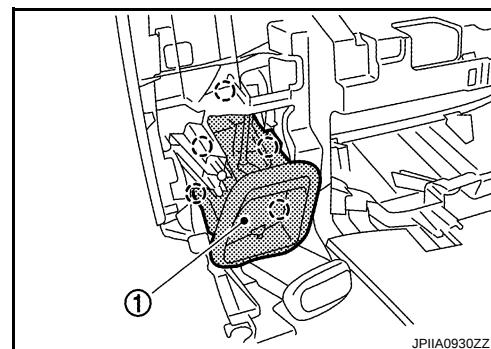
SIDE VENTILATOR GRILLE : Removal and Installation

INFOID:000000003894520

REMOVAL

1. Remove ventilator duct. Refer to [VTL-106. "VENTILATOR DUCT : Exploded View"](#).
2. Disengage the pawls, and then remove side ventilator grilles (left and right) (1).

 : Pawl



INSTALLATION

Installation is basically the reverse order of removal.

SIDE DEFROSTER GRILLE

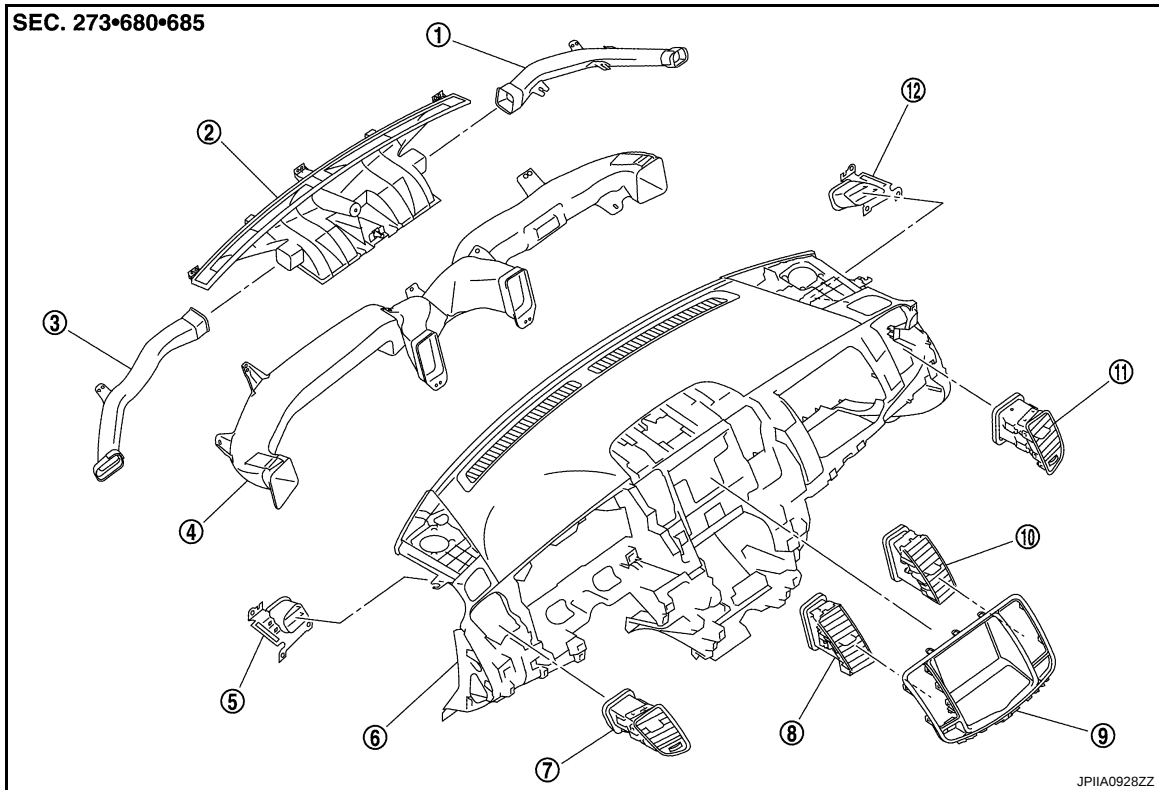
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

SIDE DEFROSTER GRILLE : Exploded View

INFOID:000000003894521



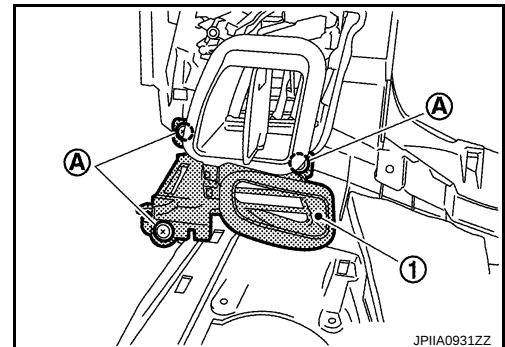
- | | | |
|--------------------------------------|------------------------------------|-----------------------------------|
| 1. Side defroster nozzle (right) | 2. Defroster nozzle | 3. Side defroster nozzle (left) |
| 4. Ventilator duct | 5. Side defroster grille (left) | 6. Instrument panel assembly |
| 7. Side ventilator grille (left) | 8. Center ventilator grille (left) | 9. Cluster lid D |
| 10. Center ventilator grille (right) | 11. Side ventilator grille (right) | 12. Side defroster grille (right) |

SIDE DEFROSTER GRILLE : Removal and Installation

INFOID:000000003894522

REMOVAL

1. Remove side defroster nozzles (left and right). Refer to [VTL-107. "SIDE DEFROSTER NOZZLE : Exploded View"](#).
2. Remove mounting screws (A), and then remove side defroster grilles (left and right) (1).



INSTALLATION

Installation is basically the reverse order of removal.

VENTILATOR DUCT

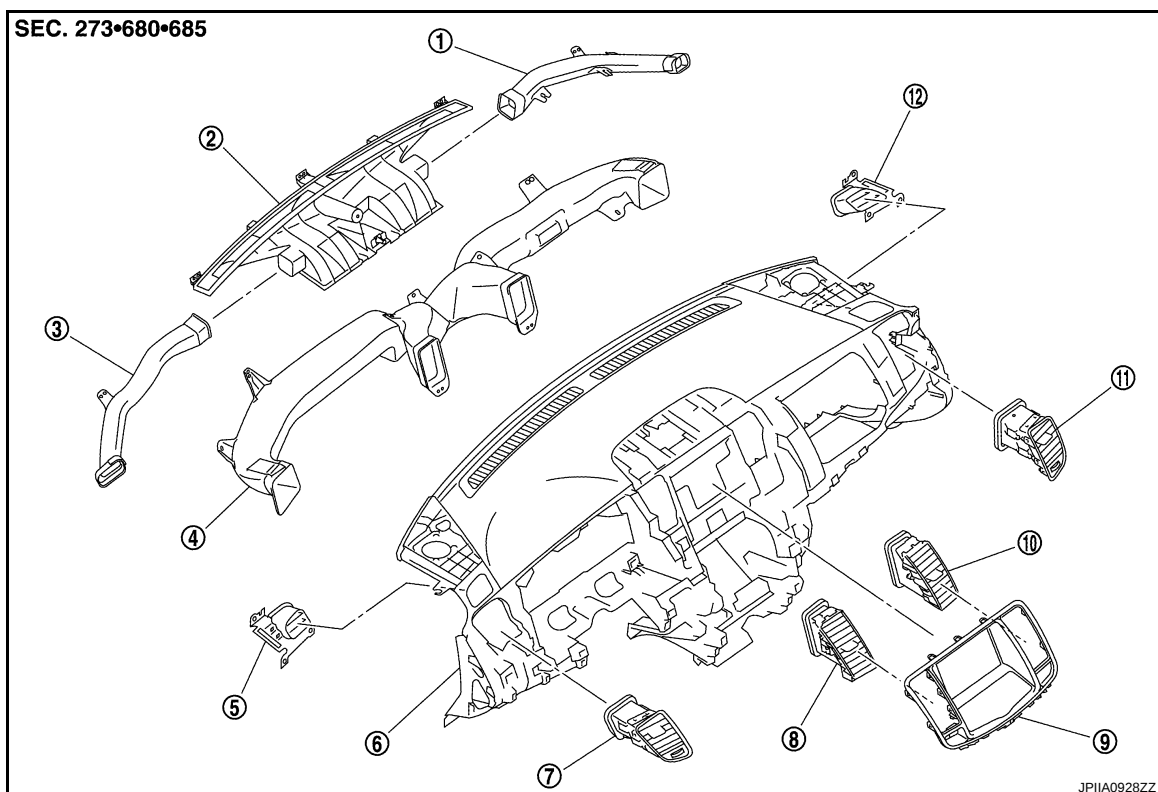
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

VENTILATOR DUCT : Exploded View

INFOID:000000003894523



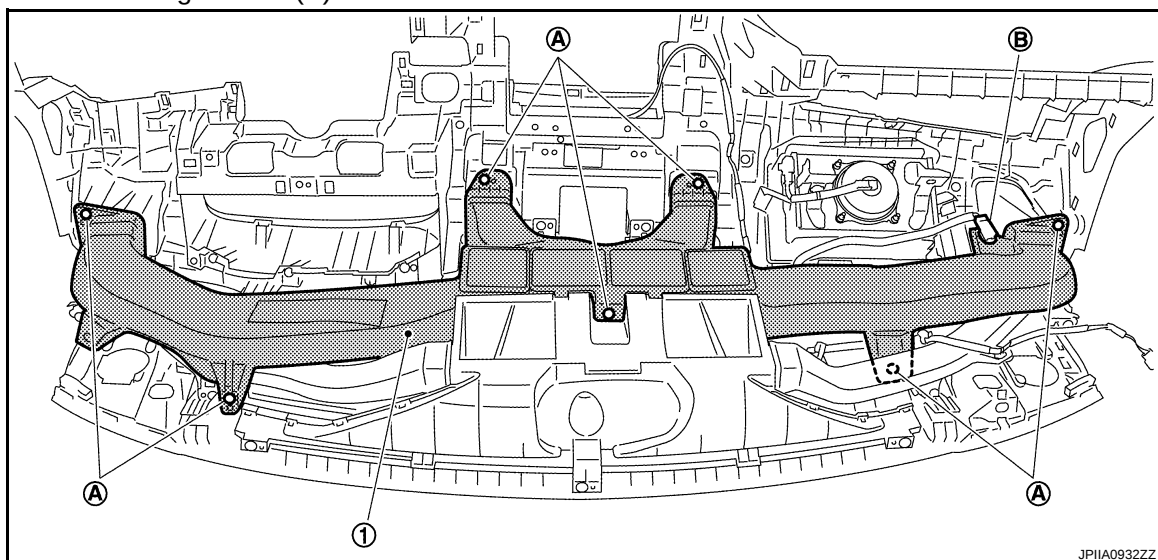
- | | | |
|--------------------------------------|------------------------------------|-----------------------------------|
| 1. Side defroster nozzle (right) | 2. Defroster nozzle | 3. Side defroster nozzle (left) |
| 4. Ventilator duct | 5. Side defroster grille (left) | 6. Instrument panel assembly |
| 7. Side ventilator grille (left) | 8. Center ventilator grille (left) | 9. Cluster lid D |
| 10. Center ventilator grille (right) | 11. Side ventilator grille (right) | 12. Side defroster grille (right) |

VENTILATOR DUCT : Removal and Installation

INFOID:000000003894524

REMOVAL

1. Remove instrument panel assembly. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting screws (A).



3. Remove ventilator duct (1).

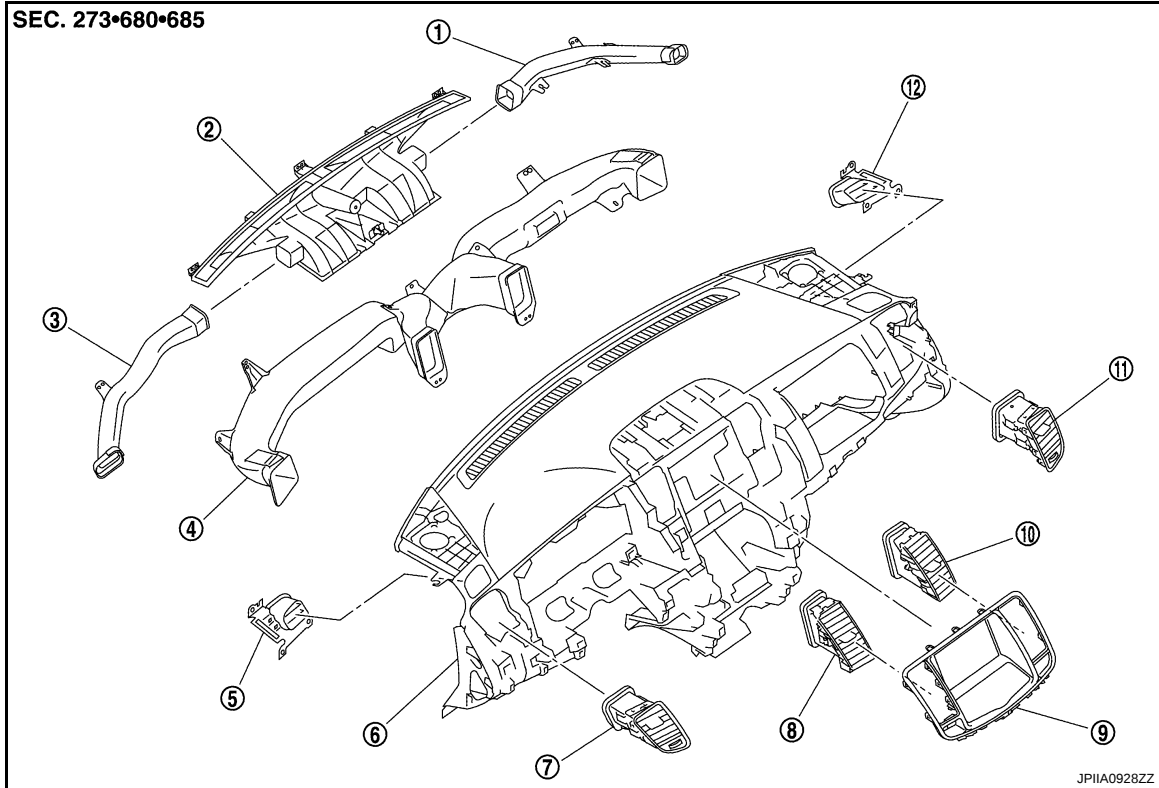
INSTALLATION

Installation is basically the reverse order of removal.

SIDE DEFROSTER NOZZLE

SIDE DEFROSTER NOZZLE : Exploded View

INFOID:000000003894527



- | | | |
|--------------------------------------|------------------------------------|-----------------------------------|
| 1. Side defroster nozzle (right) | 2. Defroster nozzle | 3. Side defroster nozzle (left) |
| 4. Ventilator duct | 5. Side defroster grille (left) | 6. Instrument panel assembly |
| 7. Side ventilator grille (left) | 8. Center ventilator grille (left) | 9. Cluster lid D |
| 10. Center ventilator grille (right) | 11. Side ventilator grille (right) | 12. Side defroster grille (right) |

SIDE DEFROSTER NOZZLE : Removal and Installation

INFOID:000000003894528

REMOVAL

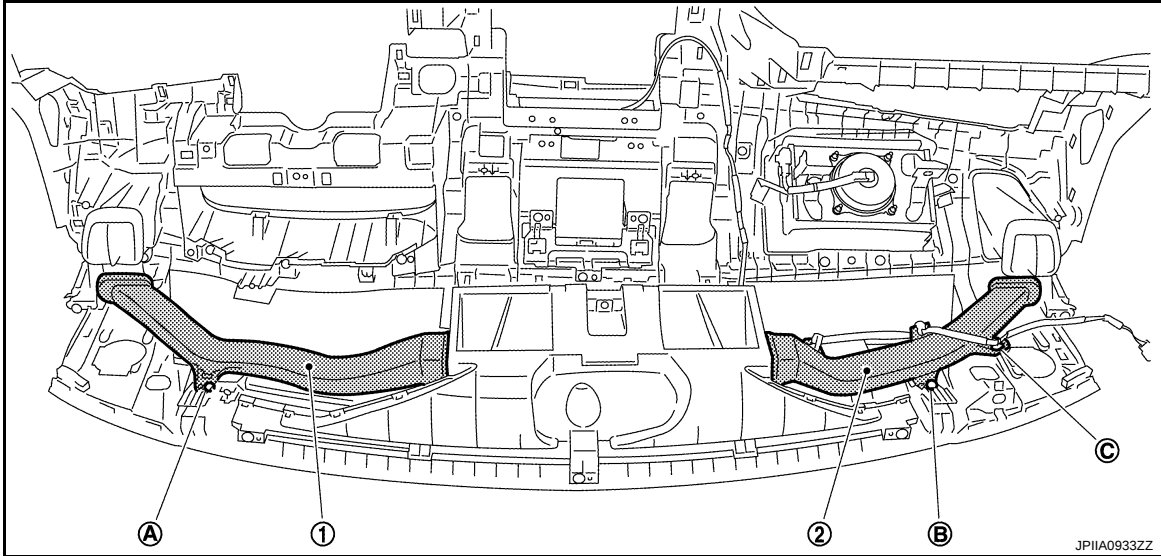
1. Remove ventilator duct. Refer to [VTL-106. "VENTILATOR DUCT : Exploded View"](#).

DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

- Remove mounting screws (A), and then remove side defroster nozzle (left) (1).



- Remove mounting screw (B) and harness clip (C), and then remove side defroster nozzle (right) (2).

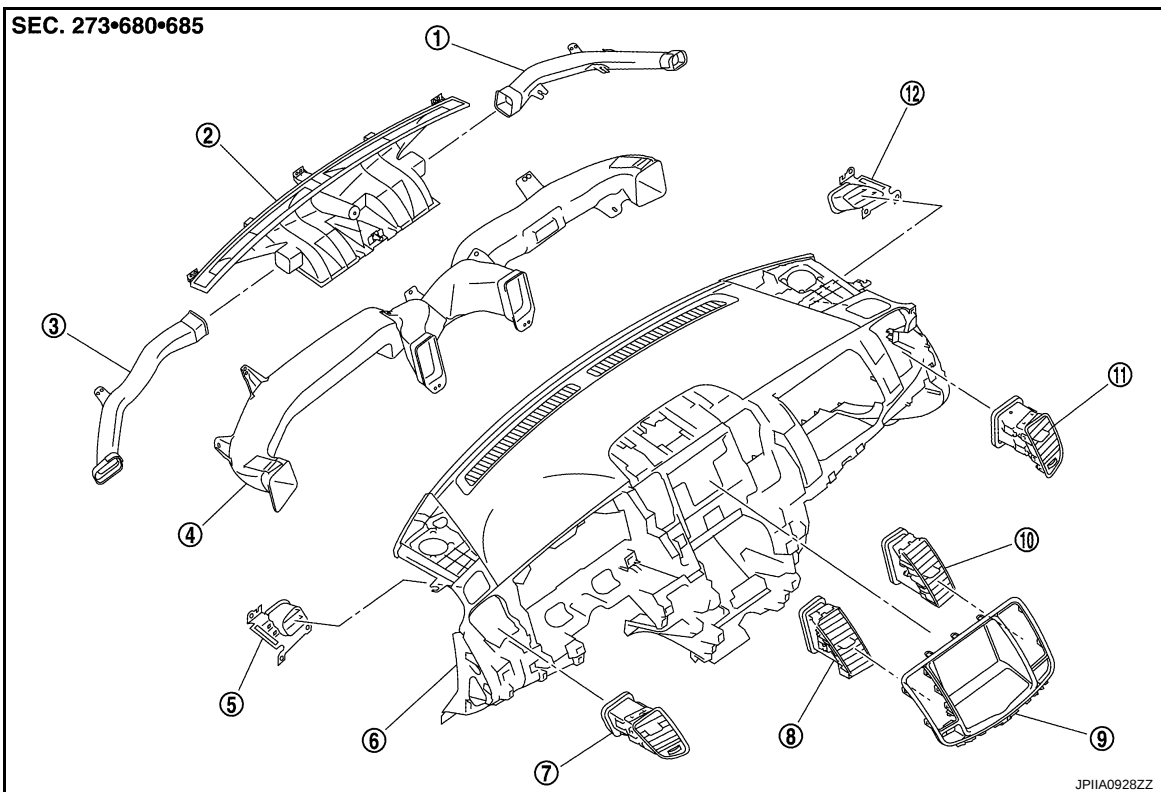
INSTALLATION

Installation is basically the reverse order of removal.

DEFROSTER NOZZLE

DEFROSTER NOZZLE : Exploded View

INFOID:000000003894529



- | | | |
|--------------------------------------|------------------------------------|-----------------------------------|
| 1. Side defroster nozzle (right) | 2. Defroster nozzle | 3. Side defroster nozzle (left) |
| 4. Ventilator duct | 5. Side defroster grille (left) | 6. Instrument panel assembly |
| 7. Side ventilator grille (left) | 8. Center ventilator grille (left) | 9. Cluster lid D |
| 10. Center ventilator grille (right) | 11. Side ventilator grille (right) | 12. Side defroster grille (right) |

DUCT AND GRILLE

< ON-VEHICLE REPAIR >

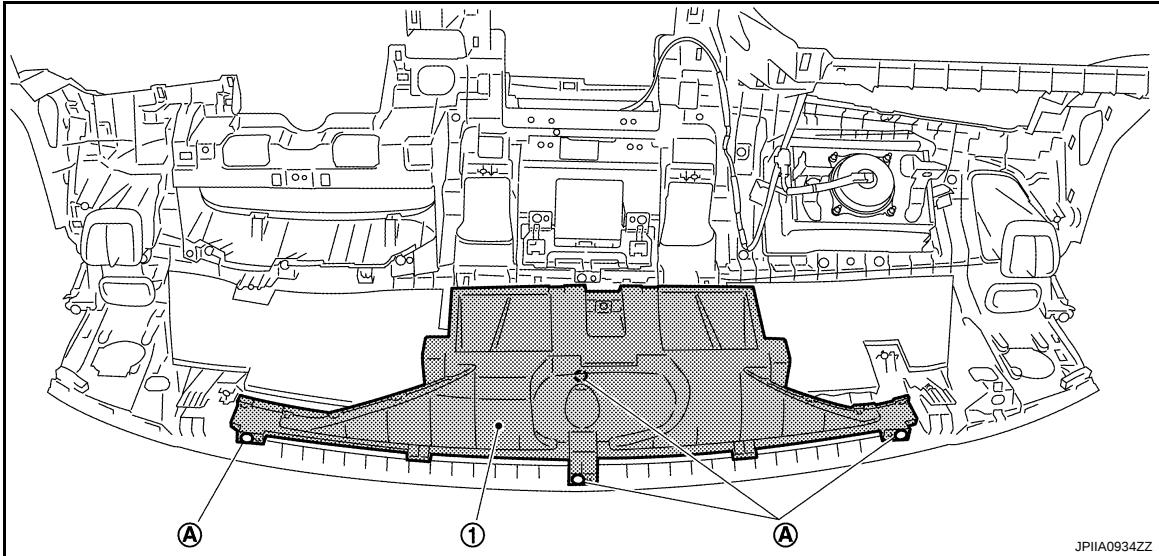
[WITH 7 INCH DISPLAY]

DEFROSTER NOZZLE : Removal and Installation

INFOID:000000003894531

REMOVAL

1. Remove side defroster nozzles (left and right). Refer to [VTL-107, "SIDE DEFROSTER NOZZLE : Exploded View"](#).
2. Remove mounting screws (A), and then remove defroster nozzle (1).



INSTALLATION

Installation is basically the reverse order of removal.

REAR VENTILATOR GRILLE

A
B
C
D
E
F
G
H
J
K
L
M
N
O
P

VTL

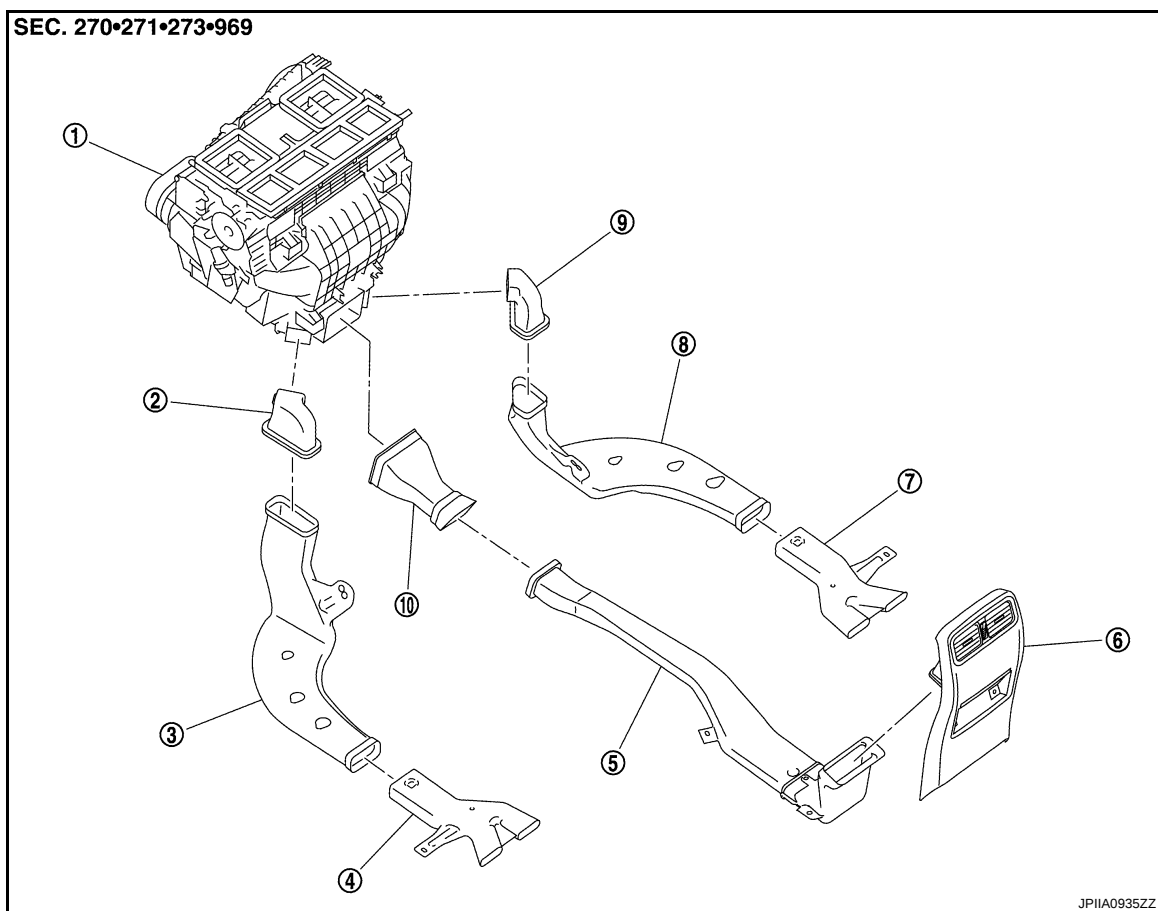
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

REAR VENTILATOR GRILLE : Exploded View

INFOID:000000003894532



- | | | |
|-----------------------------------|-----------------------------|--|
| 1. Heater & cooling unit assembly | 2. Rear foot duct 1 (left) | 3. Rear foot duct 2 (left) |
| 4. Rear foot duct 3 (left) | 5. Rear ventilator duct 2 | 6. Console rear cover (Rear ventilator grille) |
| 7. Rear foot duct 3 (right) | 8. Rear foot duct 2 (right) | 9. Rear foot duct 1 (right) |
| 10. Rear ventilator duct 1 | | |

REAR VENTILATOR GRILLE : Removal and Installation

INFOID:000000003894533

REMOVAL

Remove console rear cover (rear ventilator grille). Refer to [IP-22, "Exploded View"](#).

INSTALLATION

Installation is basically the reverse order of removal.

REAR VENTILATOR DUCT 1

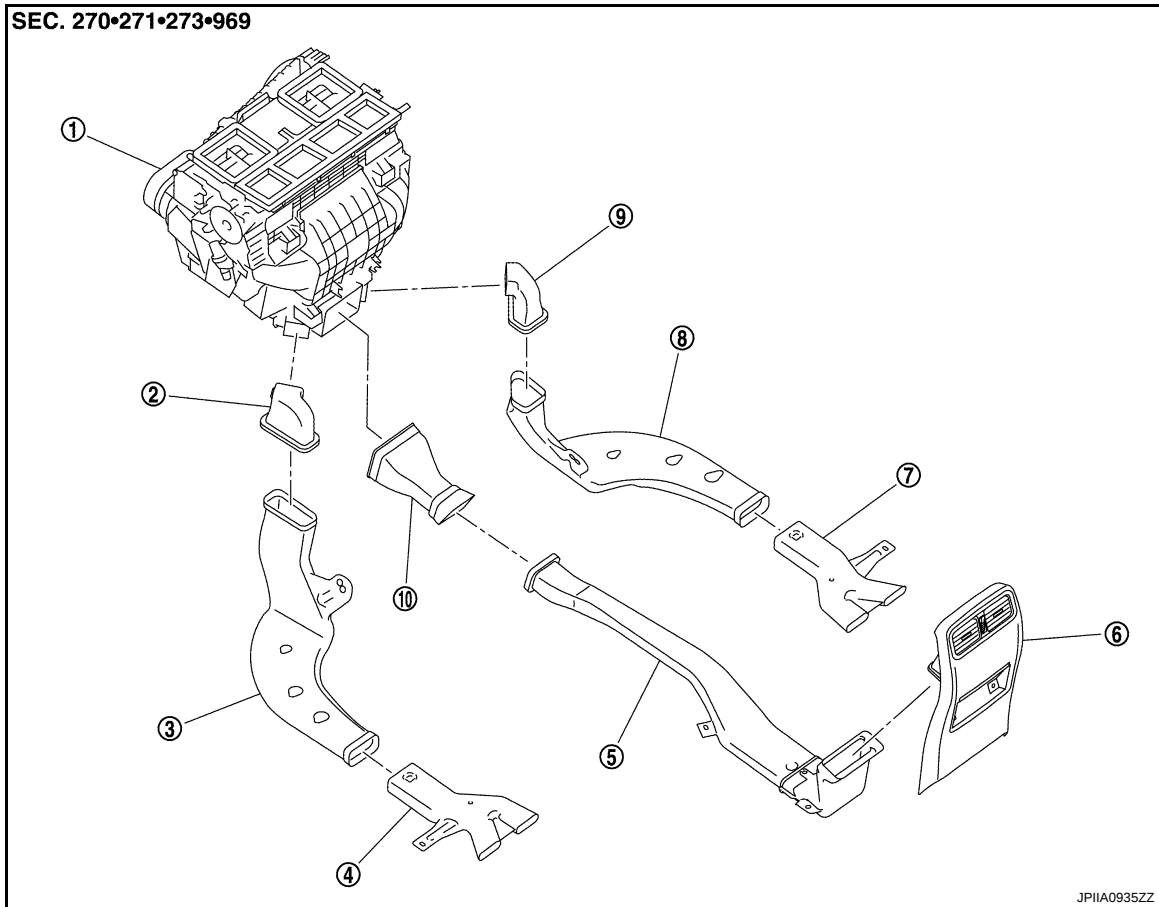
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

REAR VENTILATOR DUCT 1 : Exploded View

INFOID:000000003894534



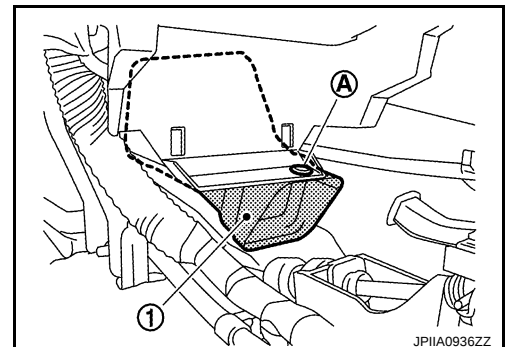
- | | | |
|-----------------------------------|-----------------------------|--|
| 1. Heater & cooling unit assembly | 2. Rear foot duct 1 (left) | 3. Rear foot duct 2 (left) |
| 4. Rear foot duct 3 (left) | 5. Rear ventilator duct 2 | 6. Console rear cover (Rear ventilator grille) |
| 7. Rear foot duct 3 (right) | 8. Rear foot duct 2 (right) | 9. Rear foot duct 1 (right) |
| 10. Rear ventilator duct 1 | | |

REAR VENTILATOR DUCT 1 : Removal and Installation

INFOID:000000003894535

REMOVAL

1. Remove rear ventilator duct 2. Refer to [VTL-112, "REAR VENTILATOR DUCT 2 : Exploded View"](#).
2. Remove mounting clip (A), and then remove rear ventilator duct 1 (1).



INSTALLATION

Installation is basically the reverse order of removal.

REAR VENTILATOR DUCT 2

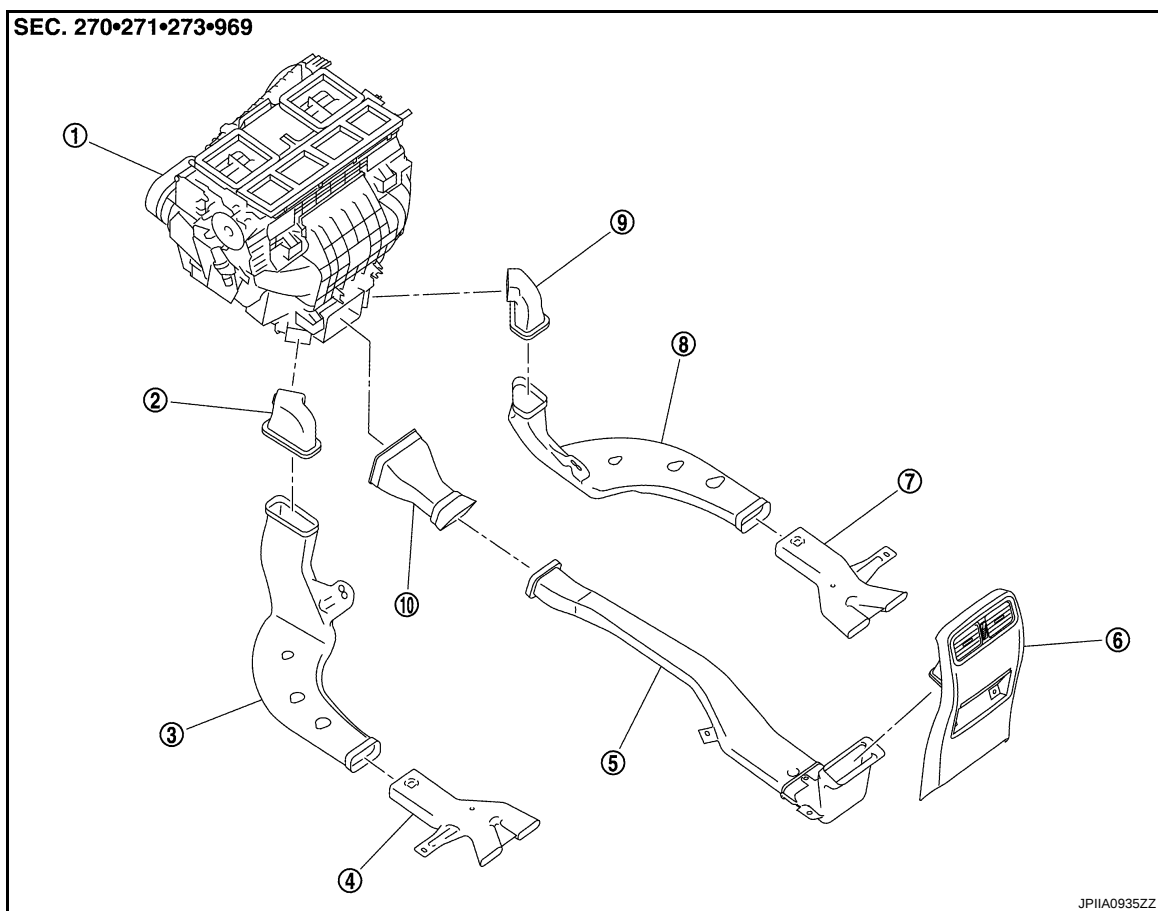
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

REAR VENTILATOR DUCT 2 : Exploded View

INFOID:000000003894536



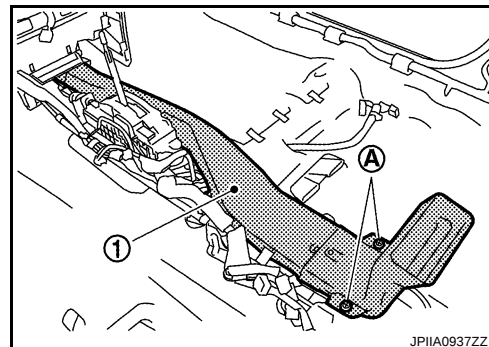
- | | | |
|-----------------------------------|-----------------------------|--|
| 1. Heater & cooling unit assembly | 2. Rear foot duct 1 (left) | 3. Rear foot duct 2 (left) |
| 4. Rear foot duct 3 (left) | 5. Rear ventilator duct 2 | 6. Console rear cover (Rear ventilator grille) |
| 7. Rear foot duct 3 (right) | 8. Rear foot duct 2 (right) | 9. Rear foot duct 1 (right) |
| 10. Rear ventilator duct 1 | | |

REAR VENTILATOR DUCT 2 : Removal and Installation

INFOID:000000003894537

REMOVAL

1. Remove center console assembly. Refer to [IP-22, "Exploded View"](#).
2. Remove screws (A), and then remove rear ventilator duct 2 (1).



INSTALLATION

Installation is basically the reverse order of removal.

REAR FOOT DUCT 1

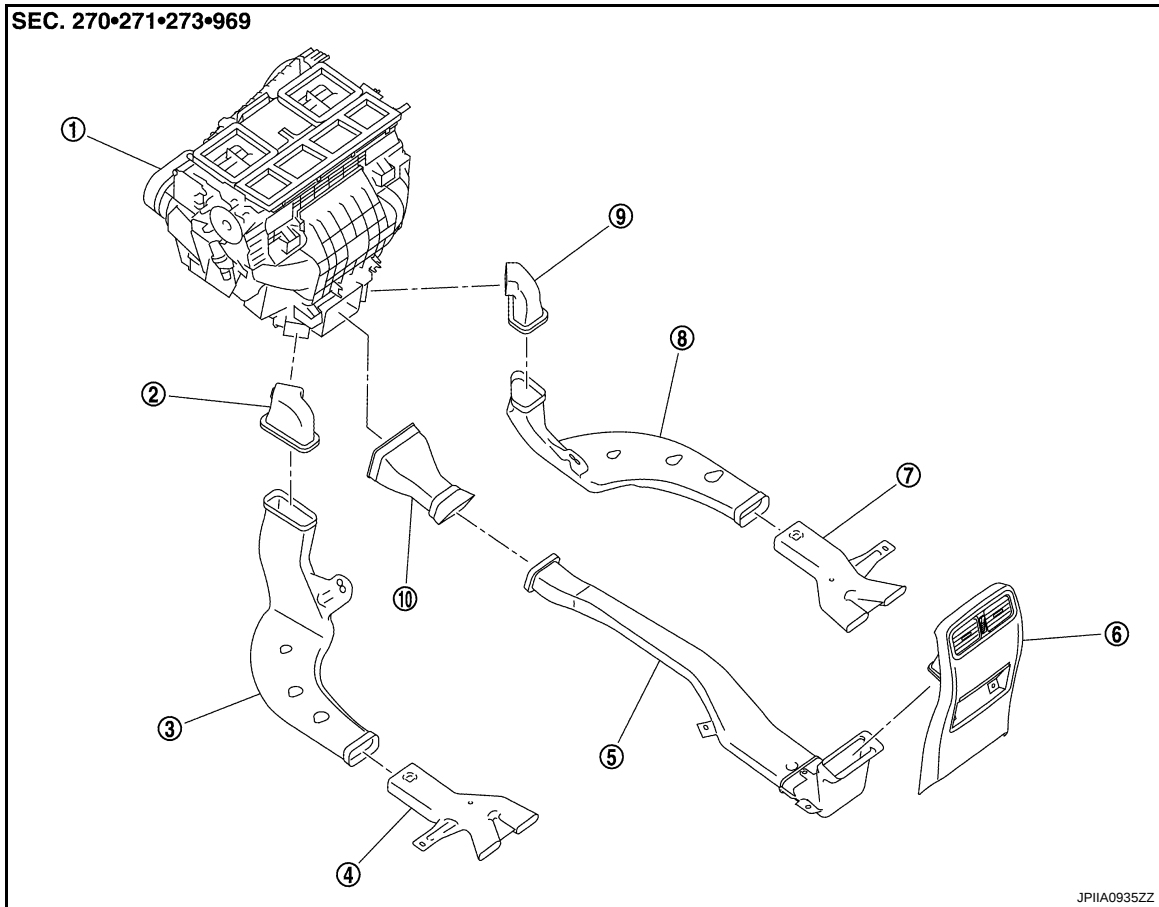
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

REAR FOOT DUCT 1 : Exploded View

INFOID:000000003894542



- | | | |
|-----------------------------------|-----------------------------|--|
| 1. Heater & cooling unit assembly | 2. Rear foot duct 1 (left) | 3. Rear foot duct 2 (left) |
| 4. Rear foot duct 3 (left) | 5. Rear ventilator duct 2 | 6. Console rear cover (Rear ventilator grille) |
| 7. Rear foot duct 3 (right) | 8. Rear foot duct 2 (right) | 9. Rear foot duct 1 (right) |
| 10. Rear ventilator duct 1 | | |

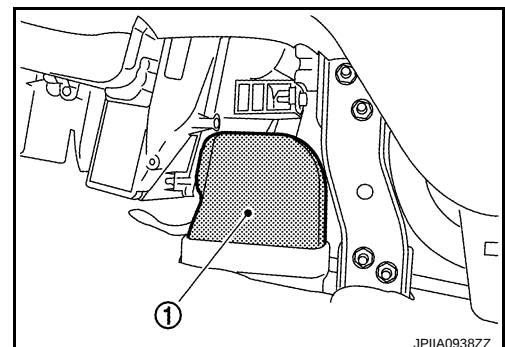
REAR FOOT DUCT 1 : Removal and Installation

INFOID:000000003894543

REMOVAL

Driver side

1. Remove instrument lower cover LH. Refer to [IP-11, "Exploded View"](#).
2. Remove rear foot duct 1 (left) (1).



Passenger side

1. Remove instrument lower cover RH. Refer to [IP-11, "Exploded View"](#).

A

B

C

D

E

F

G

H

VTL

J

K

L

M

N

O

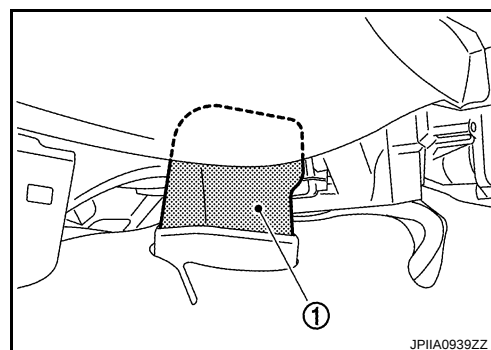
P

DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

2. Remove the rear foot duct 1 (right) (1).



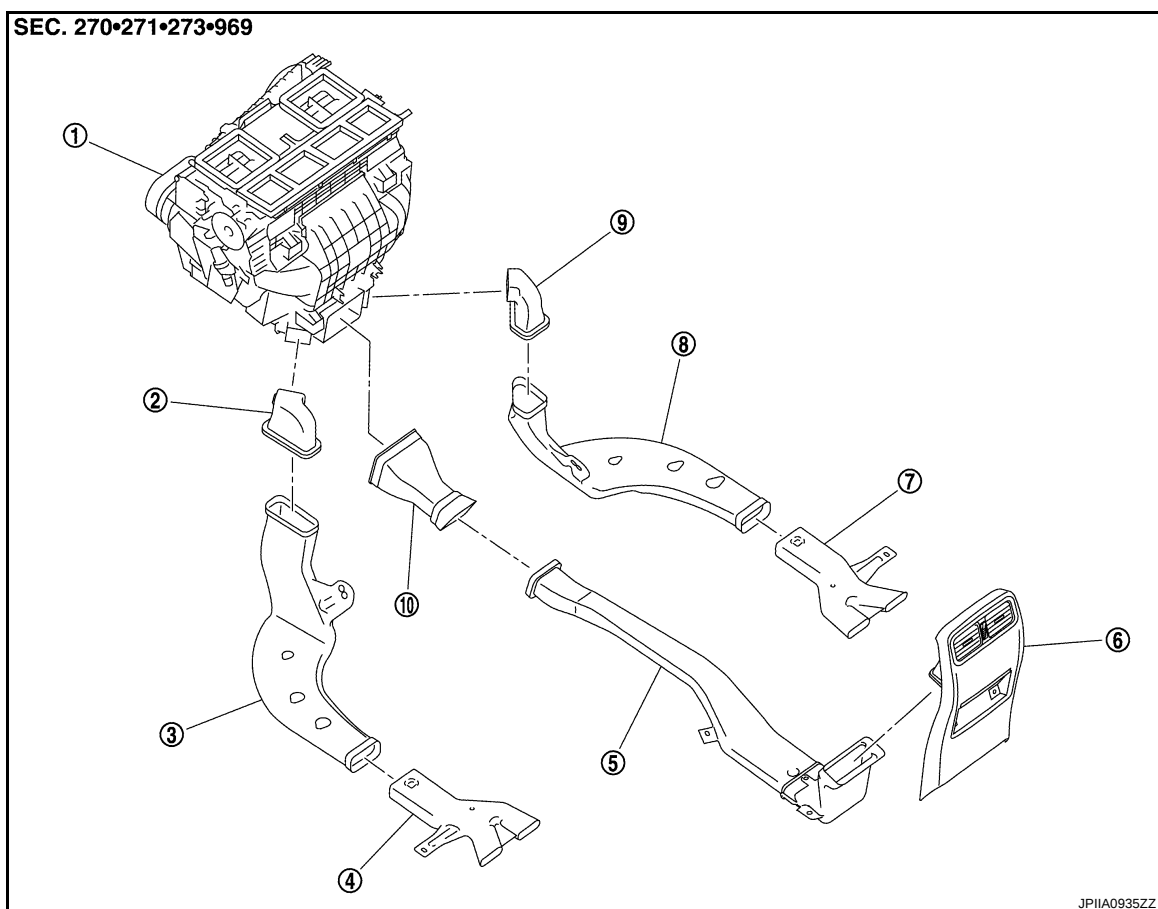
INSTALLATION

Installation is basically the reverse order of removal.

REAR FOOT DUCT 2

REAR FOOT DUCT 2 : Exploded View

INFOID:000000003894544



- | | | |
|-----------------------------------|-----------------------------|--|
| 1. Heater & cooling unit assembly | 2. Rear foot duct 1 (left) | 3. Rear foot duct 2 (left) |
| 4. Rear foot duct 3 (left) | 5. Rear ventilator duct 2 | 6. Console rear cover (Rear ventilator grille) |
| 7. Rear foot duct 3 (right) | 8. Rear foot duct 2 (right) | 9. Rear foot duct 1 (right) |
| 10. Rear ventilator duct 1 | | |

REAR FOOT DUCT 2 : Removal and Installation

INFOID:000000003894545

REMOVAL

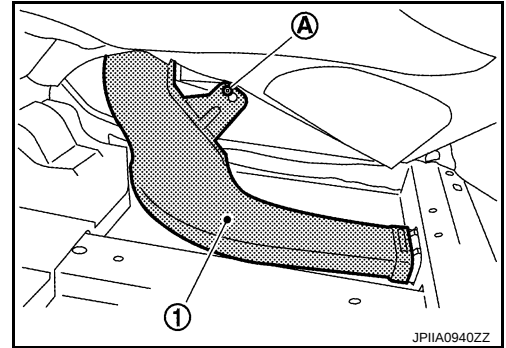
Driver side

DUCT AND GRILLE

< ON-VEHICLE REPAIR >

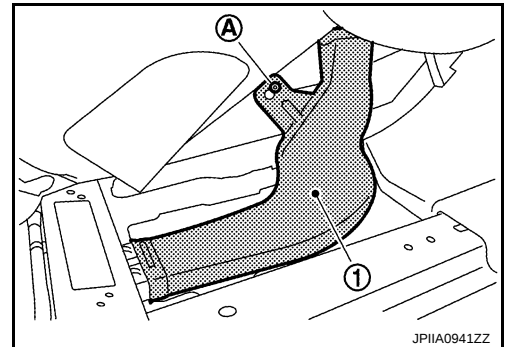
[WITH 7 INCH DISPLAY]

1. Remove rear foot duct 1 (left). Refer to [VTL-113, "REAR FOOT DUCT 1 : Exploded View"](#).
2. Pull up driver side floor carpet. Refer to [INT-47, "Exploded View"](#).
3. Remove mounting clip (A), and then remove rear foot duct 2 (left) (1).



Passenger side

1. Remove the rear foot duct 1 (right). Refer to [VTL-113, "REAR FOOT DUCT 1 : Exploded View"](#).
2. Pull up passenger side floor carpet. Refer to [INT-47, "Exploded View"](#).
3. Remove mounting clip (A), and then remove rear foot duct 2 (right) (1).



INSTALLATION

Installation is basically the reverse order of removal.

REAR FOOT DUCT 3

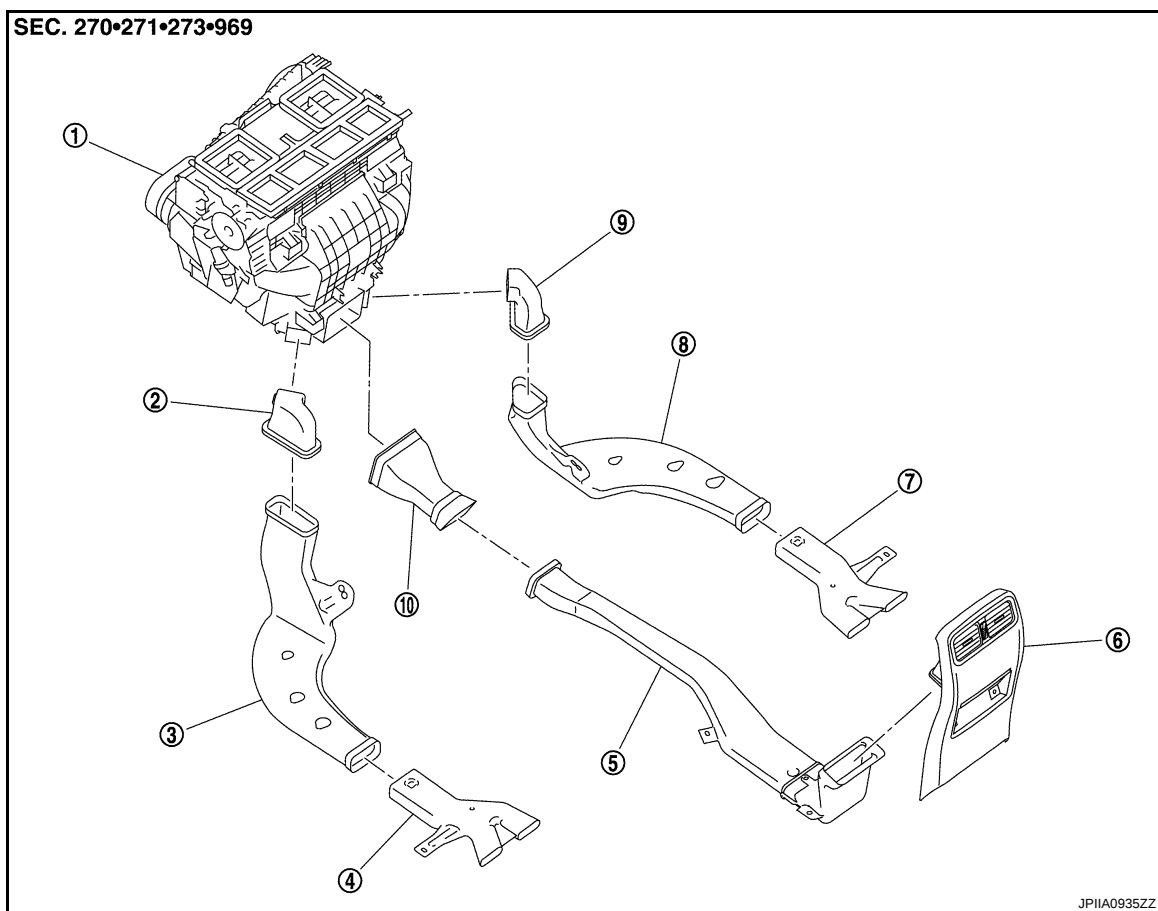
DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

REAR FOOT DUCT 3 : Exploded View

INFOID:000000003894546



- | | | |
|-----------------------------------|-----------------------------|--|
| 1. Heater & cooling unit assembly | 2. Rear foot duct 1 (left) | 3. Rear foot duct 2 (left) |
| 4. Rear foot duct 3 (left) | 5. Rear ventilator duct 2 | 6. Console rear cover (Rear ventilator grille) |
| 7. Rear foot duct 3 (right) | 8. Rear foot duct 2 (right) | 9. Rear foot duct 1 (right) |
| 10. Rear ventilator duct 1 | | |

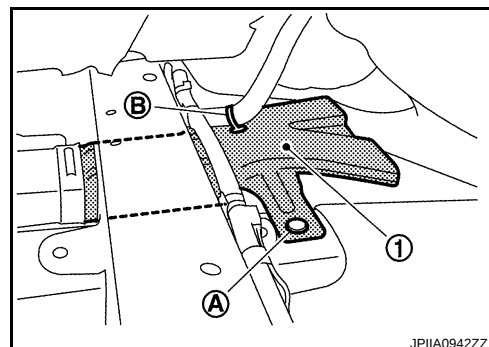
REAR FOOT DUCT 3 : Removal and Installation

INFOID:000000003894547

REMOVAL

Driver side

1. Pull up driver side floor carpet. Refer to [INT-47, "Exploded View"](#).
2. Remove mounting clip (A) and harness clip (B), and then remove rear foot duct 3 (left) (1).



Passenger side

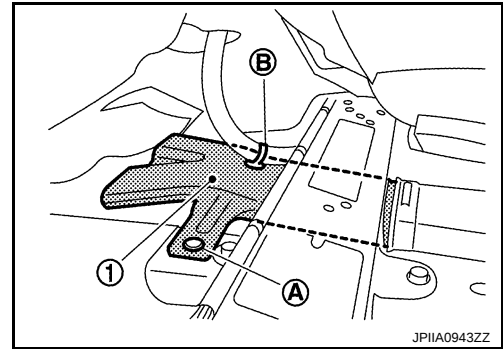
1. Pull up passenger side floor carpet. Refer to [INT-47, "Exploded View"](#).

DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

- Remove mounting clip (A) and harness clip (B), and then remove rear foot duct 3 (right) (1).



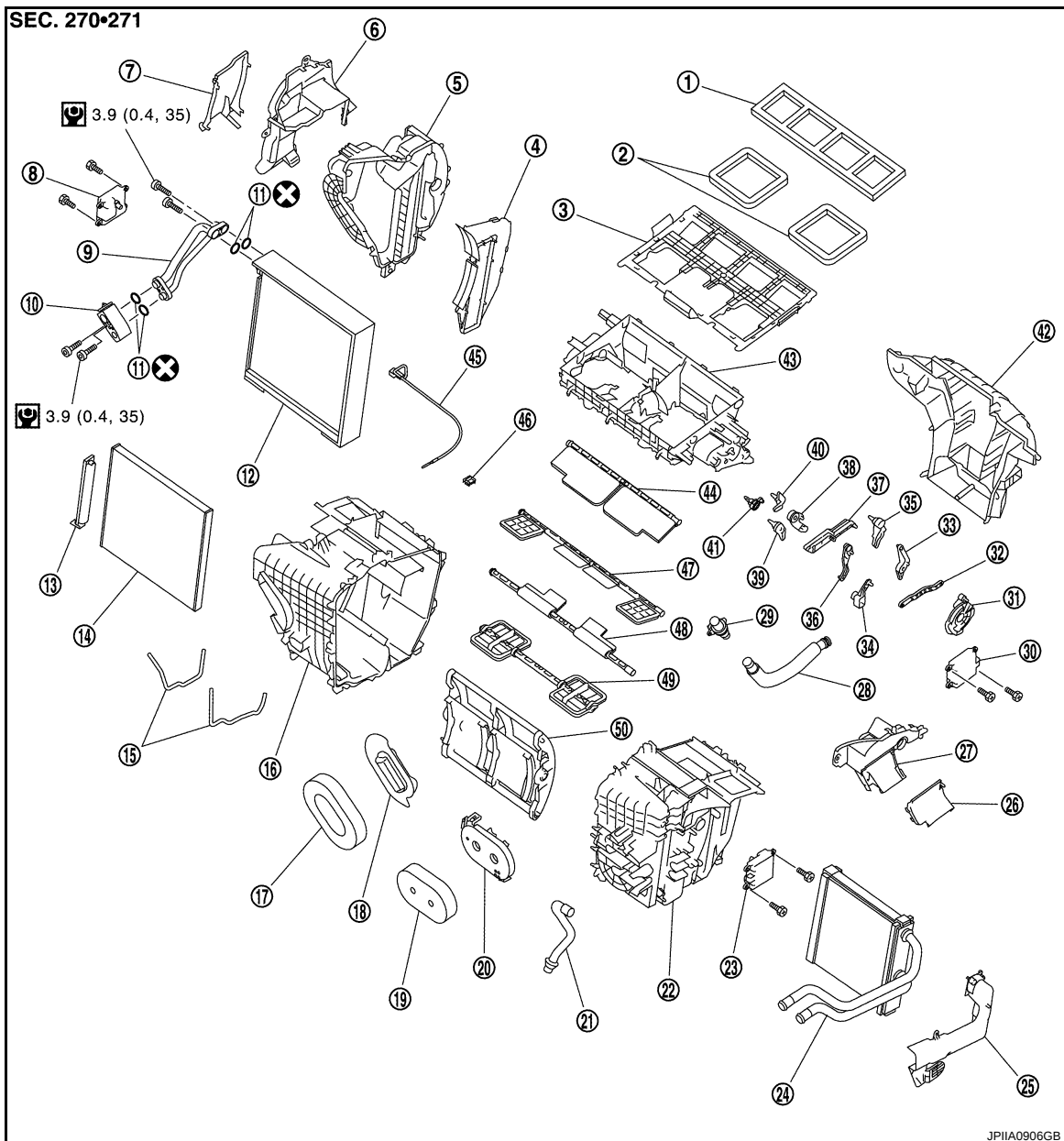
INSTALLATION

Installation is basically the reverse order of removal.

FOOT DUCT

FOOT DUCT : Exploded View

INFOID:000000003894548



DUCT AND GRILLE

< ON-VEHICLE REPAIR >

[WITH 7 INCH DISPLAY]

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

Refer to [GI-4, "Components"](#) for symbols in the figure.

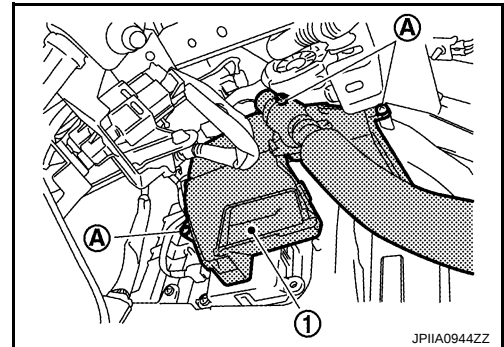
FOOT DUCT : Removal and Installation

INFOID:000000003894550

REMOVAL

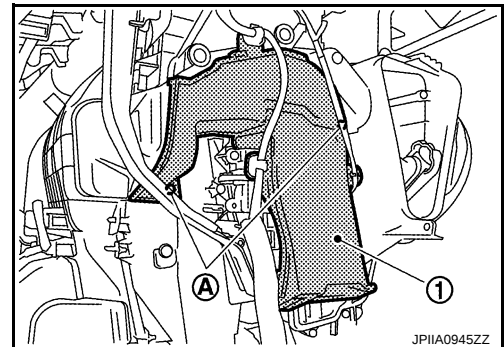
Driver side

1. Remove instrument driver lower panel. Refer to [IP-11, "Exploded View"](#).
2. Remove mounting screws (A), and then remove foot duct (left) (1).



Passenger side

1. Remove blower unit assembly. Refer to [VTL-87, "Exploded View"](#).
2. Remove mounting screws (A) and harness clip, and then remove foot duct (right) (1).



INSTALLATION

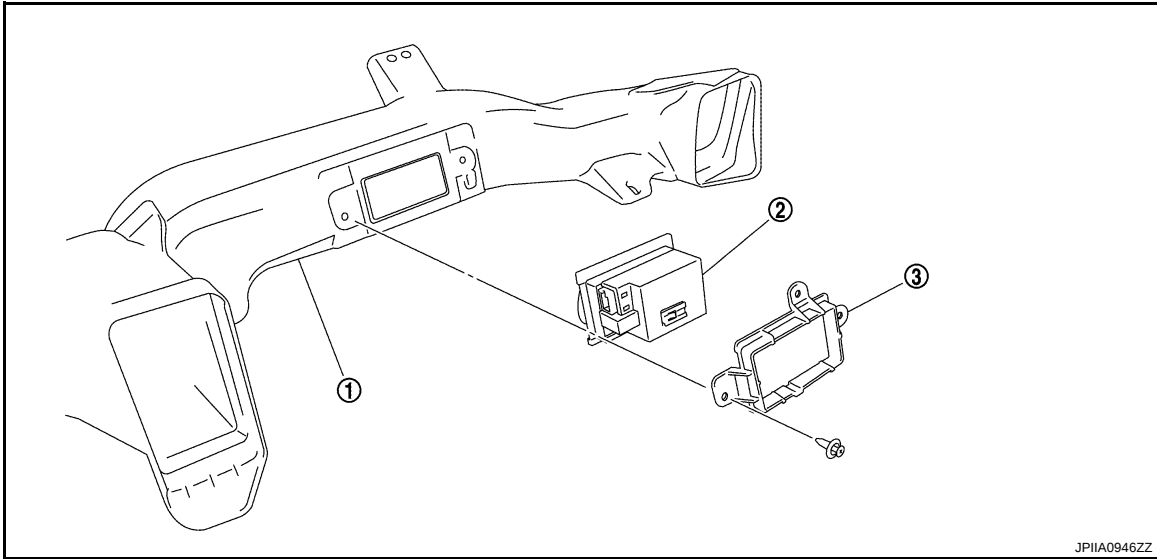
Installation is basically the reverse order of removal.

IONIZER

WITH INTELLIGENT AIR CONDITIONER SYSTEM

WITH INTELLIGENT AIR CONDITIONER SYSTEM : Exploded View

INFOID:000000003894551



1. Ventilator duct

2. Ionizer

3. Ionizer bracket

WITH INTELLIGENT AIR CONDITIONER SYSTEM : Removal and Installation

INFOID:000000003894552

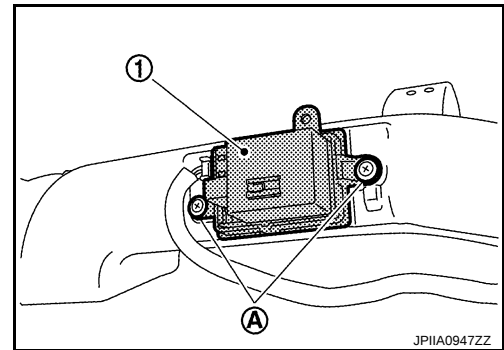
VTL

REMOVAL

1. Remove ventilator duct. Refer to [VTL-106. "VENTILATOR DUCT : Exploded View"](#).
2. Remove mounting clips (A), and then remove ionizer (1).

CAUTION:

Never touch the front surface (ceramic part) of ionizer. It is the discharge electrode.



INSTALLATION

installation is basically the reverse order of removal.

CAUTION:

If there is dirt, use a clean cloth and clean the discharge electrode (ceramic) of ionizer.