SECTION VTL
VENTILATION SYSTEM

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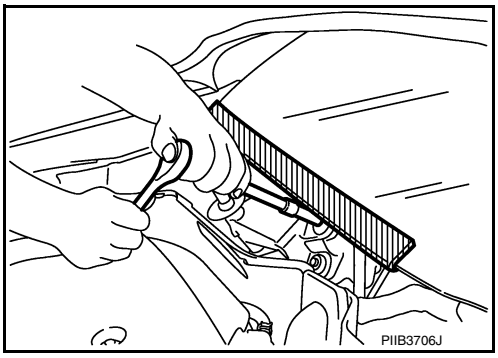
PRECAUTION

PRECAUTIONS

Precaution for Procedure without Cowl Top Cover

INFOID:0000000013550886

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

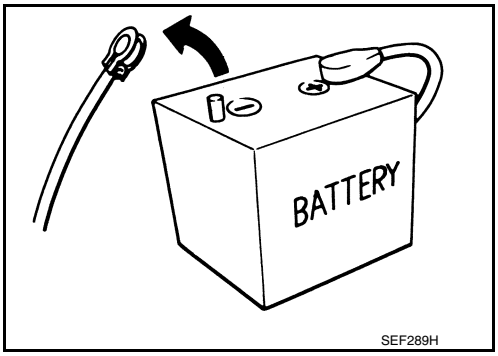


Precautions for Removing Battery Terminal

INFOID:0000000013550887

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:



BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		

NOTE:
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

  NOTE:
  - Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
  - Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

  NOTE:
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.
- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

  NOTE:
  The removal of 12V battery may cause a DTC detection error.

SYSTEM DESCRIPTION

VENTILATION SYSTEM

System Description

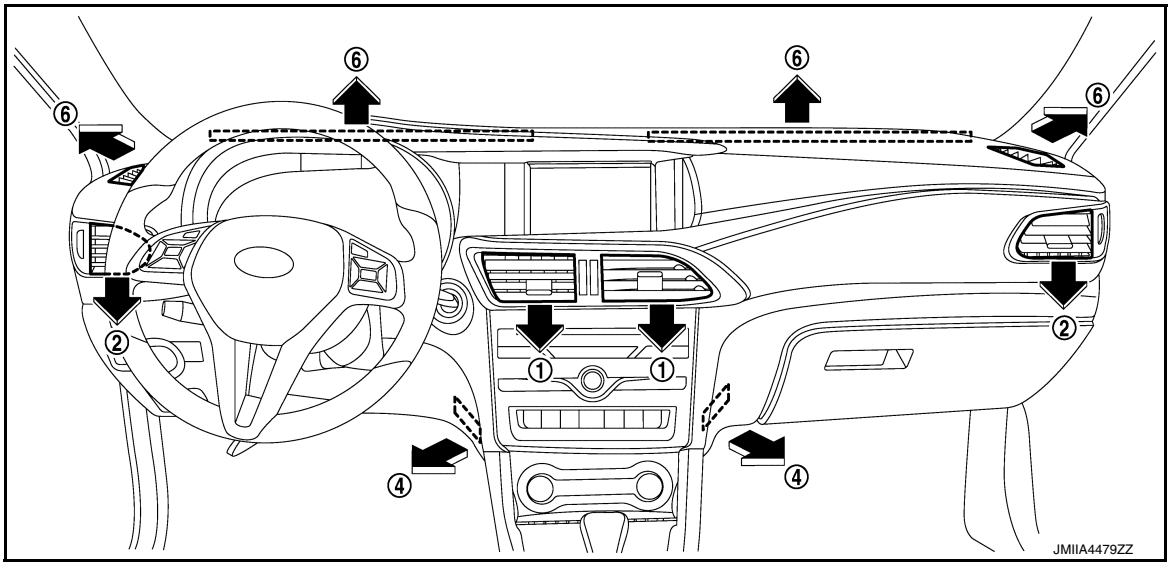
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OUTLINE

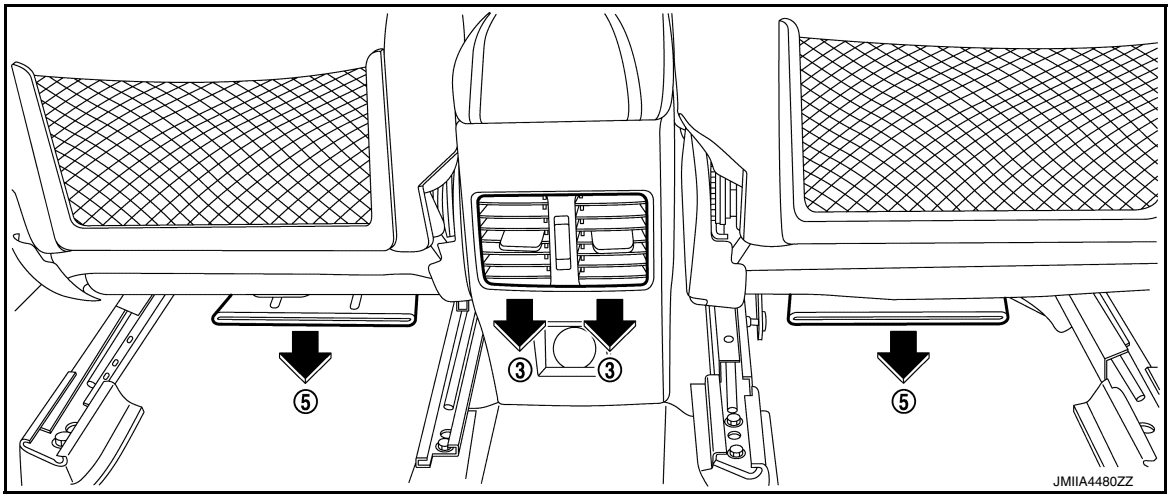
Ventilation system is controlled by A/C auto amp. For details of air conditioner system, refer to HAC-13, "System Description".

AIR FLOW

Front



Rear



×: Applicable

MODE/DEF position indication	AIR OUTLET					
	Ventilator			Foot		Defroster ⑥
	Front		Rear ③	Front ④	Rear ⑤	
	Center ①	Side ②				
	×	×	×	—	—	—
	×	×	×	×	×	—
	—	×	×	×	×	×

MODE/DEF position indication	AIR OUTLET					
	Ventilator			Foot		Defroster ⑥
	Front		Rear ③	Front ④	Rear ⑤	
	Center ①	Side ②				
	—	×	×	×	×	×
	—	×	×	—	—	×

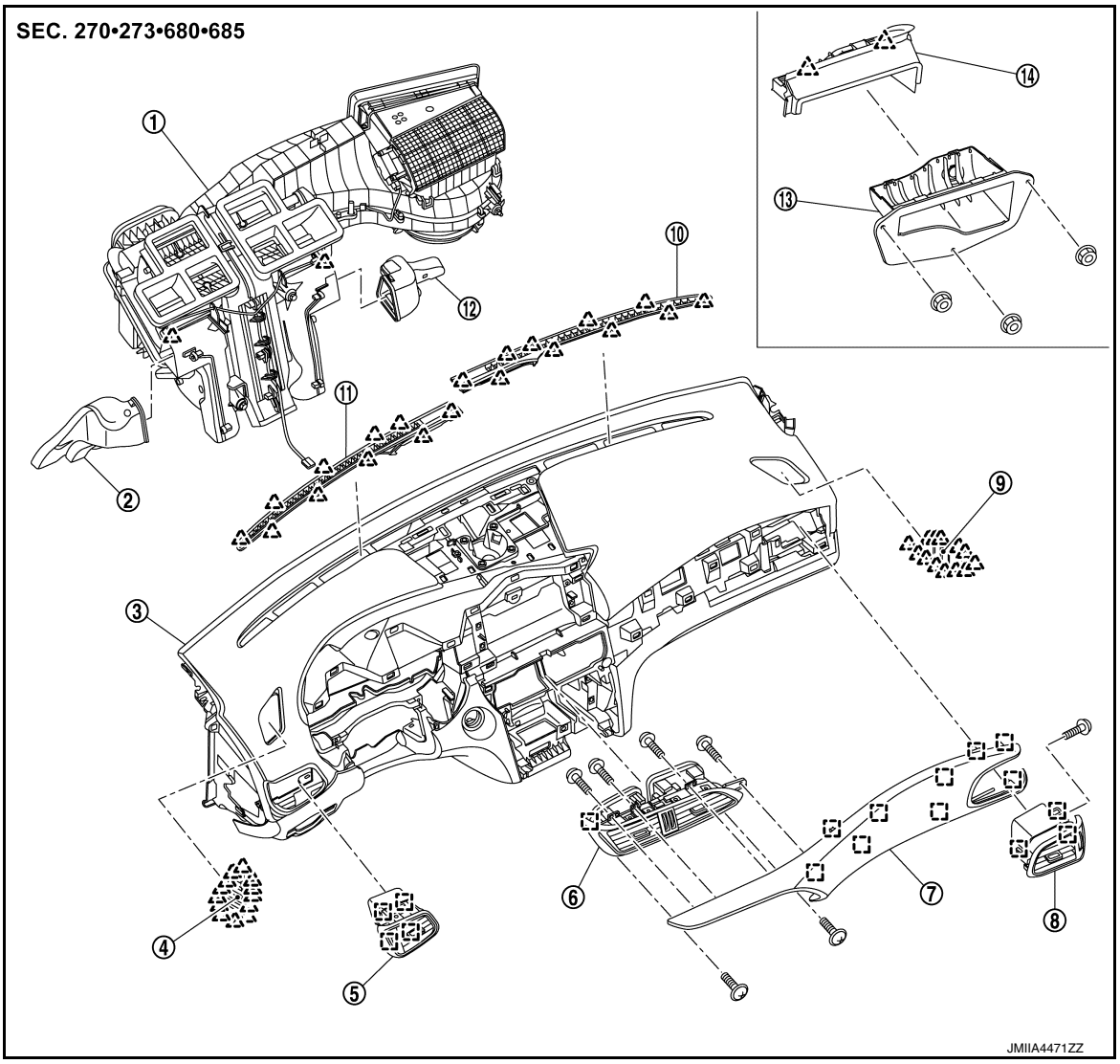
REMOVAL AND INSTALLATION

DUCT AND GRILLE

Exploded View

INFOID:0000000013550889

FRONT

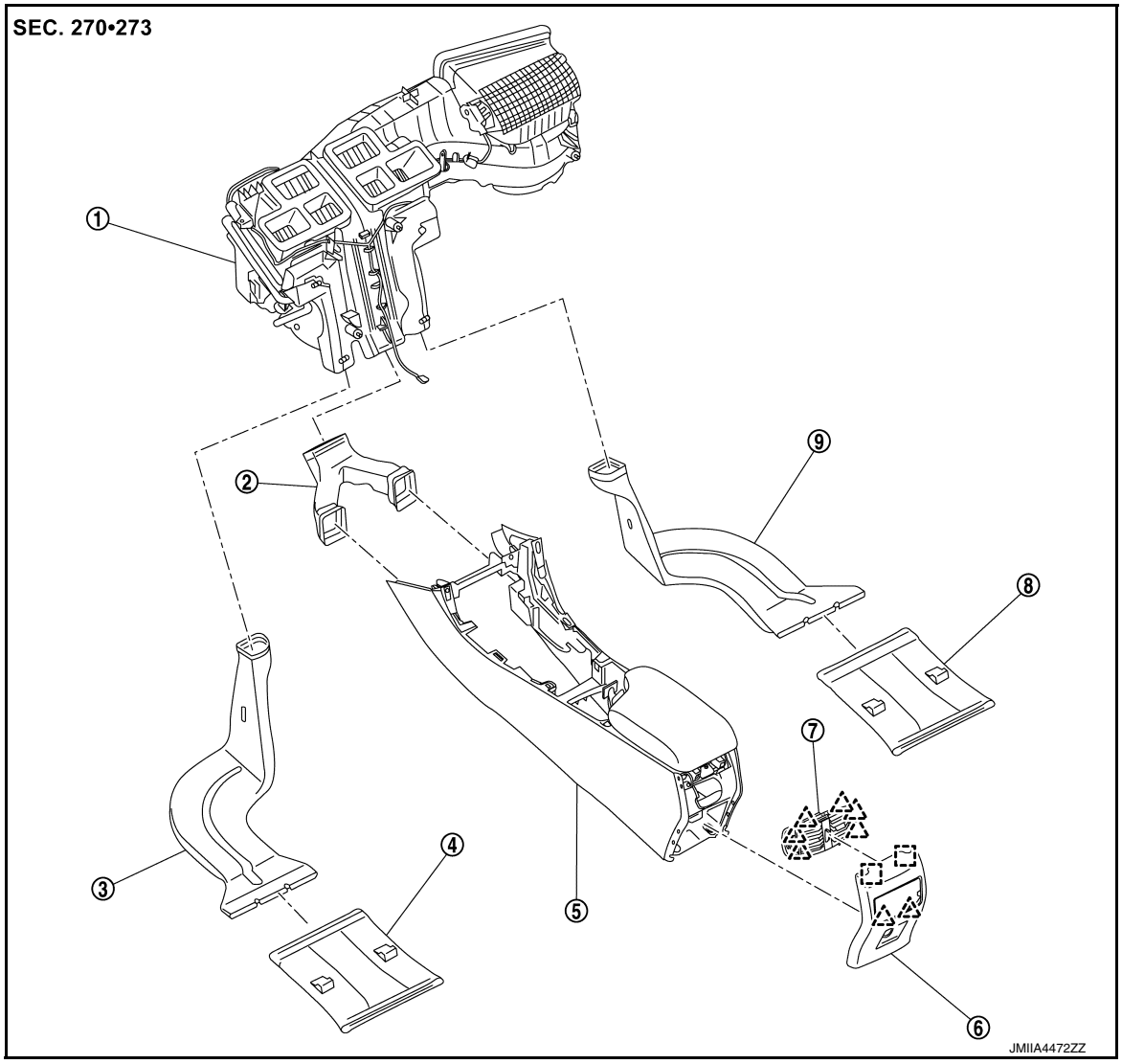


① A/C unit assembly	② Foot duct LH	③ Instrument panel assembly
④ Side defroster grille LH	⑤ Side ventilator grille LH	⑥ Center ventilator grille
⑦ Instrument pad C	⑧ Side ventilator grille RH	⑨ Side defroster grille RH
⑩ Front defroster grille RH	⑪ Front defroster grille LH	⑫ Foot duct RH
⑬ Intake duct lower	⑭ Intake duct upper	

: Metal clip

: Pawl

REAR



① A/C unit assembly
② Rear ventirator duct
③ Rear foot duct 1 LH
④ Rear foot duct 2 LH
⑤ Center console assembly
⑥ Center console rear finisher
⑦ Rear ventirator grille
⑧ Rear foot duct 2 RH
⑨ Rear foot duct 1 RH
: Metal clip
: Pawl

CENTER VENTILATOR GRILLE

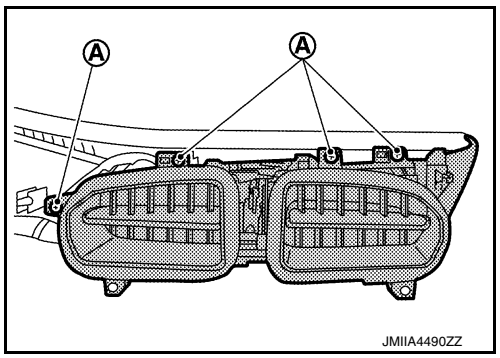
CENTER VENTILATOR GRILLE : Removal and Installation

INFOID:0000000013550890

REMOVAL

1. Remove instrument pad C. Refer to IP-13, "Removal and Installation".

2. Remove fixing screws Ⓐ, and then remove center ventilator grille from instrument pad C.



INSTALLATION
Install in the reverse order of removal.

SIDE VENTILATOR GRILLE

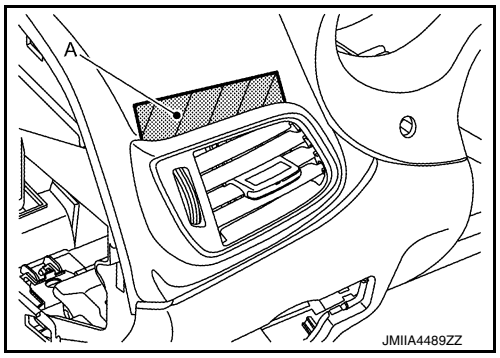
SIDE VENTILATOR GRILLE : Removal and Installation

INFOID:0000000013550891

REMOVAL
CAUTION:
When removing, always use a remover tool that is made of plastic to prevent damage to the parts.

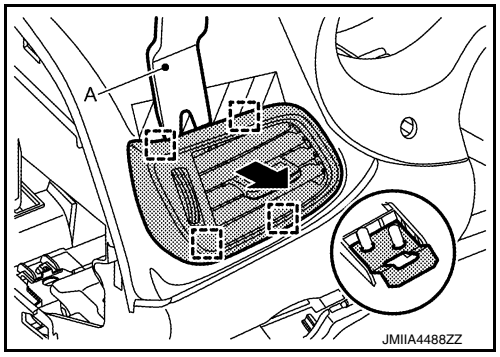
Driver Side

1. Apply protective tape (A) on instrument panel assembly to protect from damage.



2. Disengage fixing metal clips using a remover tool (A), and then remove side ventilator grille.

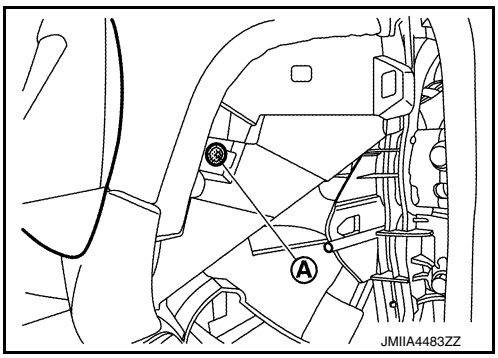
: Metal clip



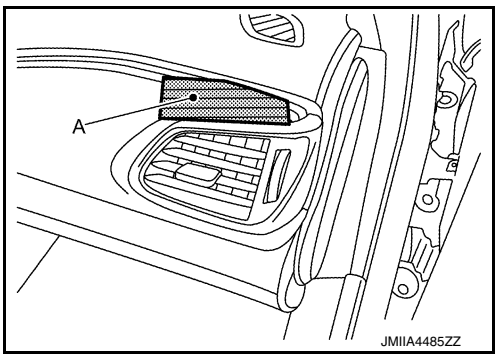
Pasenger Side

1. Remove instrument side finisher. Refer to IP-13, "Removal and Installation".

2. Remove fixing screw Ⓐ.

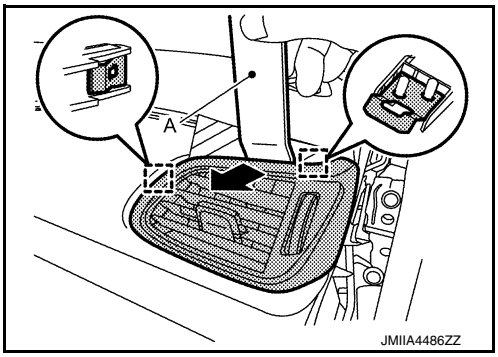


3. Apply protective tape (A) on instrument panel assembly to protect from damage.



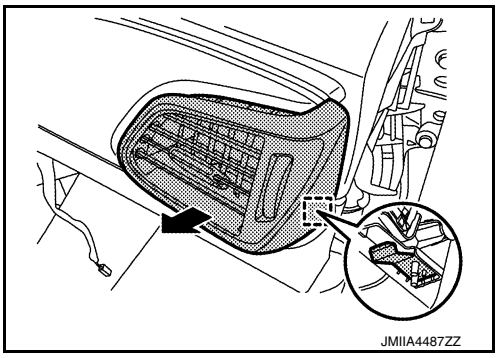
4. Disengage fixing metal clips using a remover tool (A).

: Metal clip



5. Disengage fixing metal clip, and then remove side ventilator grille.

: Pawl



INSTALLATION
Install in the reverse order of removal.

REAR VENTILATOR GRILLE

REAR VENTILATOR GRILLE : Removal and Installation

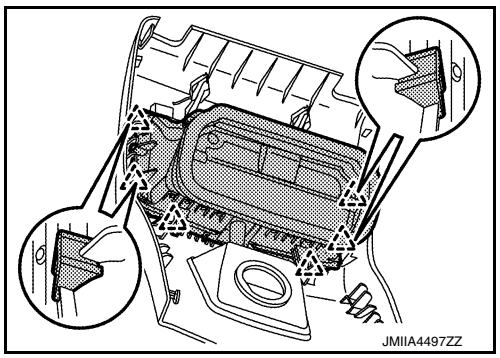
INFOID:0000000013550892

REMOVAL

1. Remove center console rear finisher assembly. Refer to IP-22, "Removal and Installation".

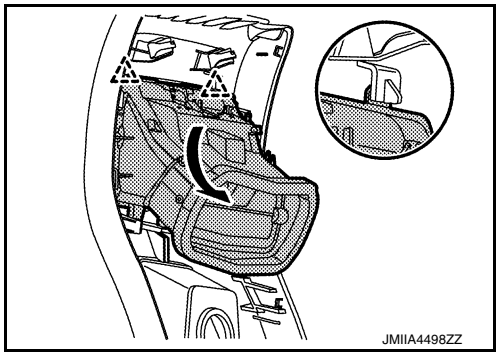
2. Disengage fixing pawls.

: Pawl



3. Disengage fixing pawls, and then remove rear ventilator grille.

: Pawl



INSTALLATION

Install in the reverse order of removal.

SIDE DEFROSTER GRILLE

SIDE DEFROSTER GRILLE : Removal and Installation

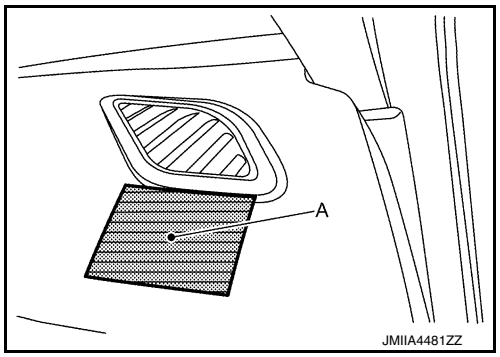
INFOID:0000000013550893

CAUTION:

When removing, always use a remover tool that is made of plastic to prevent damage to the parts.

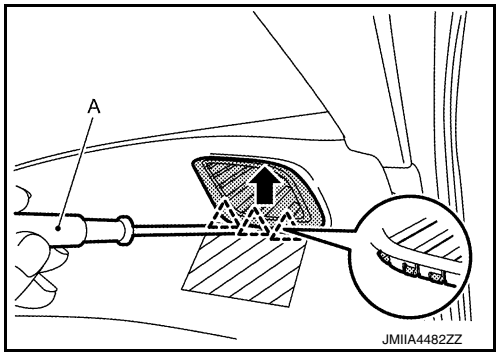
REMOVAL

1. Apply protective tape (A) on instrument panel assembly to protect from damage.



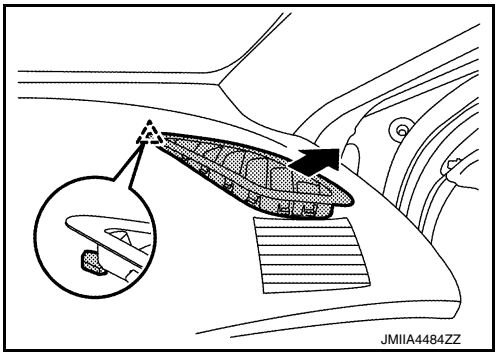
2. Disengage fixing pawls using a remover tool (A).

: Pawl



3. Disengage fixing pawl, and then remove side defroster grille.

: Pawl



INSTALLATION
Install in the reverse order of removal.

INTAKE DUCT

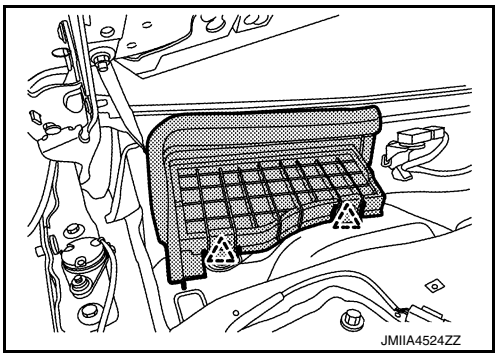
INTAKE DUCT : Removal and Installation

INFOID:0000000013550894

REMOVAL

1. Remove cowl top cover. Refer to EXT-35, "Removal and Installation".
2. Disengage fixing pawls, and then remove intake duct upper.

: Pawl



3. Remove A/C unit assembly. Refer to HA-38, "HEATER & COOLING UNIT ASSEMBLY : Removal and Installation".
4. Remove mouting nuts, and then remove intake duct lower from vehicle.

INSTALLATION
Install in the reverse order of removal.

FRONT DEFROSTER GRILLE

FRONT DEFROSTER GRILLE : Removal and Installation

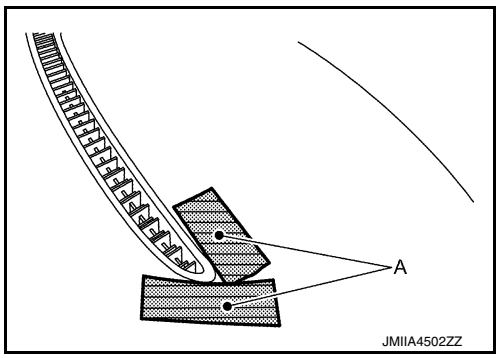
INFOID:0000000013550895

CAUTION:
When removing, always use a remover tool that is made of plastic to prevent damage to the parts.

REMOVAL

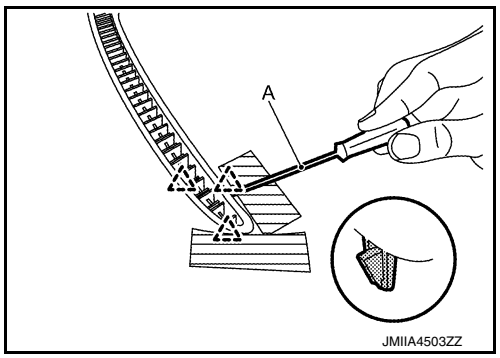
1. Remove center squawker grille. Refer to IP-13, "Removal and Installation".

2. Apply protective tape (A) on instrument panel assembly to protect from damage.



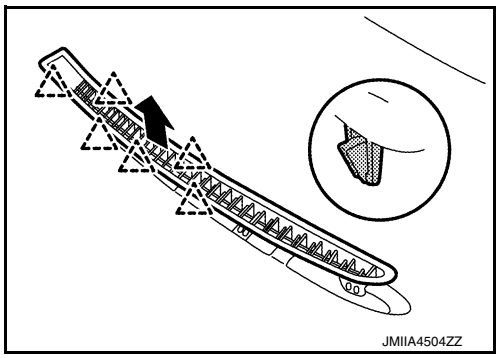
3. Disengage fixing pawls using a remover tool (A).

: Pawl



4. Disengage fixing pawls, and then remove front defroster grille.

: Pawl



INSTALLATION

Install in the reverse order of removal.

FRONT FOOT DUCT

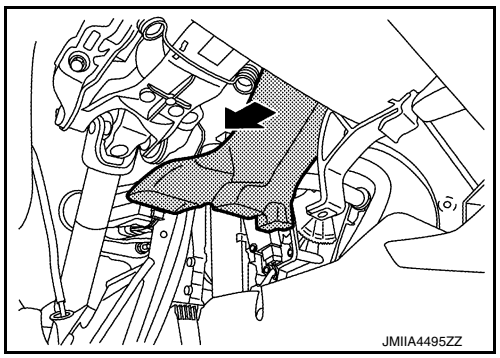
FRONT FOOT DUCT : Removal and Installation

INFOID:0000000013550896

REMOVAL

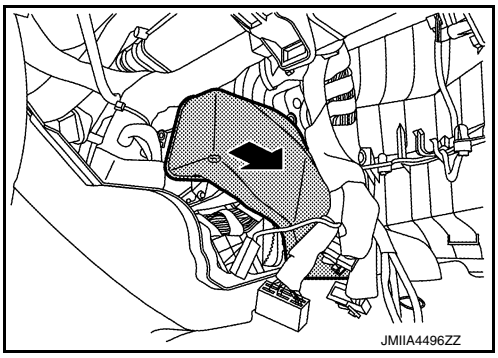
Driver Side

1. Remove instrument lower panel (LH). Refer to IP-13, "Removal and Installation".
2. Disengage fixing pawl, and then remove front foot duct LH.



Passenger Side

1. Remove grove box assembly. Refer to IP-13, "Removal and Installation".
2. Disengage fixing pawl, and then remove front foot duct RH.



INSTALLATION
Install in the reverse order of removal.

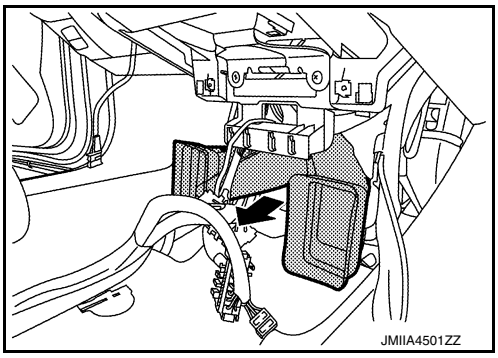
REAR VENTILATOR DUCT

REAR VENTILATOR DUCT : Removal and Installation

INFOID:0000000013550897

REMOVAL

1. Remove center console assembly. Refer to IP-13, "Removal and Installation".
2. Remove rear ventilator duct.



INSTALLATION
Install in the reverse order of removal.

REAR FOOT DUCT 1

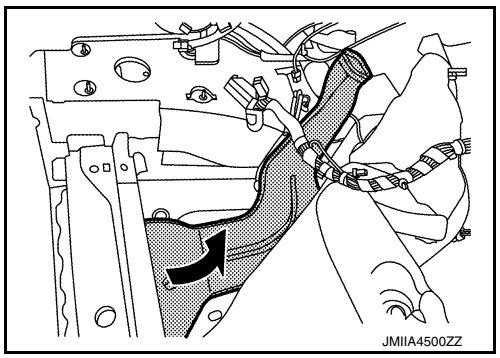
REAR FOOT DUCT 1 : Removal and Installation

INFOID:0000000013550898

REMOVAL

1. Remove rear foot duct 2. Refer to VTL-13, "REAR FOOT DUCT 2 : Removal and Installation"
2. Remove front floor spacer by pulling it out while lifting up floor carpet. Refer to INT-29, "Removal and Installation".

3. Remove rear foot duct 1 toward the direction by the arrow as shown in the figure.



INSTALLATION
Install in the reverse order of removal.

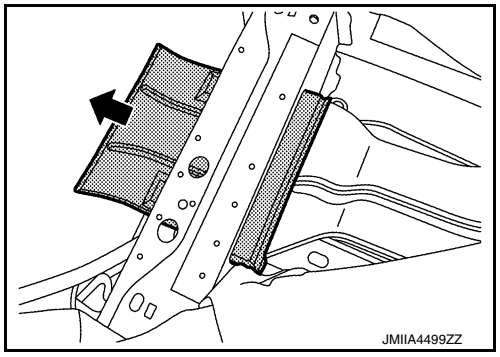
REAR FOOT DUCT 2

REAR FOOT DUCT 2 : Removal and Installation

INFOID:0000000013550899

REMOVAL

1. Remove front seat. Refer to SE-66, "Removal and Installation".
2. Remove rear foot duct 2 toward the direction by the arrow as shown in the figure.

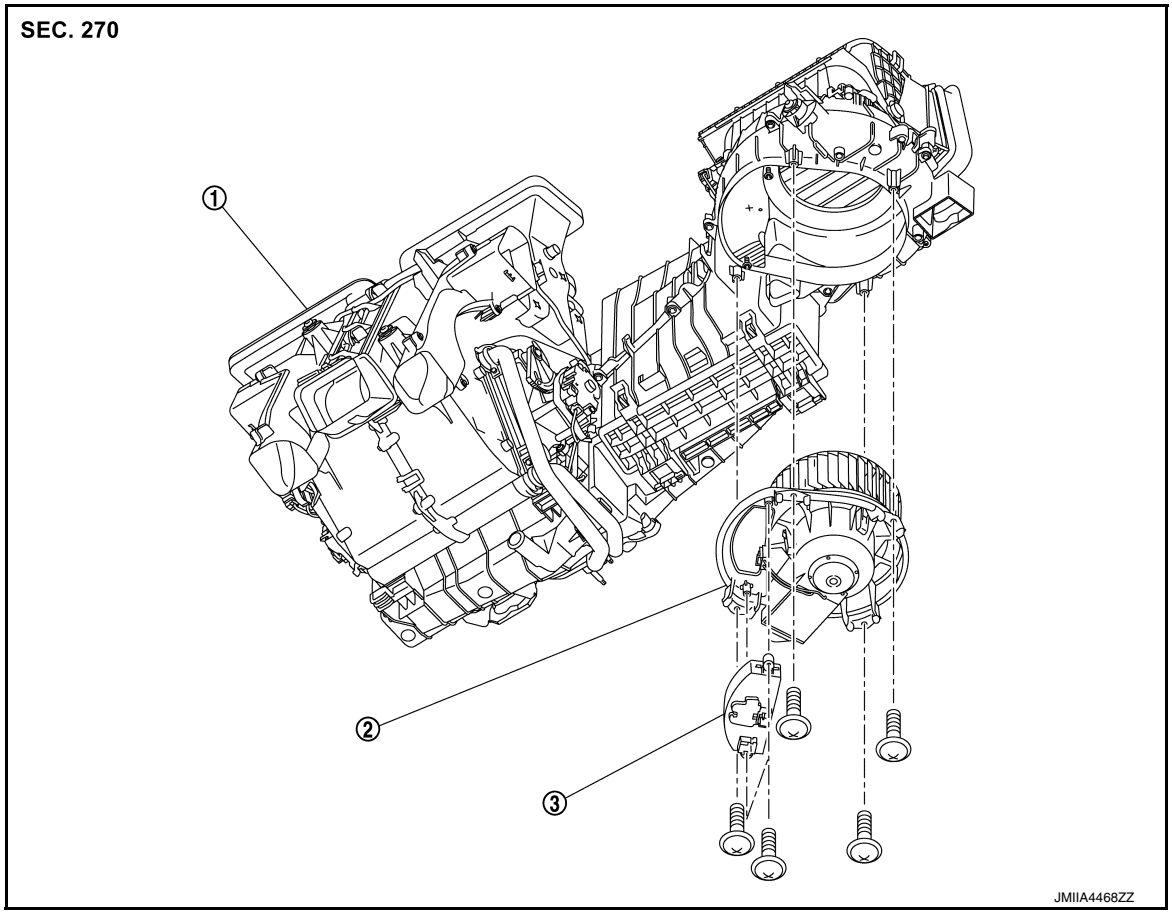


INSTALLATION
Install in the reverse order of removal.

BLOWER MOTOR

Exploded View

INFOID:0000000013550900



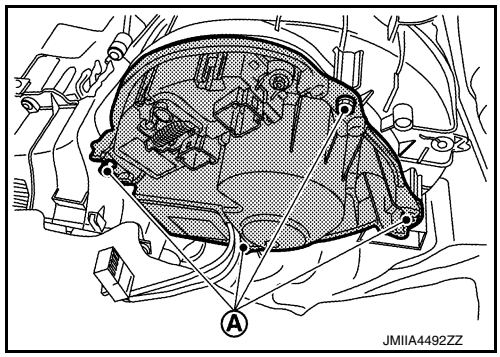
① A/C unit assembly ② Blower motor ③ Blower regulator

Removal and Installation

INFOID:0000000013550901

REMOVAL

1. Remove glove box cover assembly. Refer to IP-13, "Removal and Installation".
2. Disconnect harness connecter.
3. Remove fixing screws Ⓐ, and then remove blower motor.



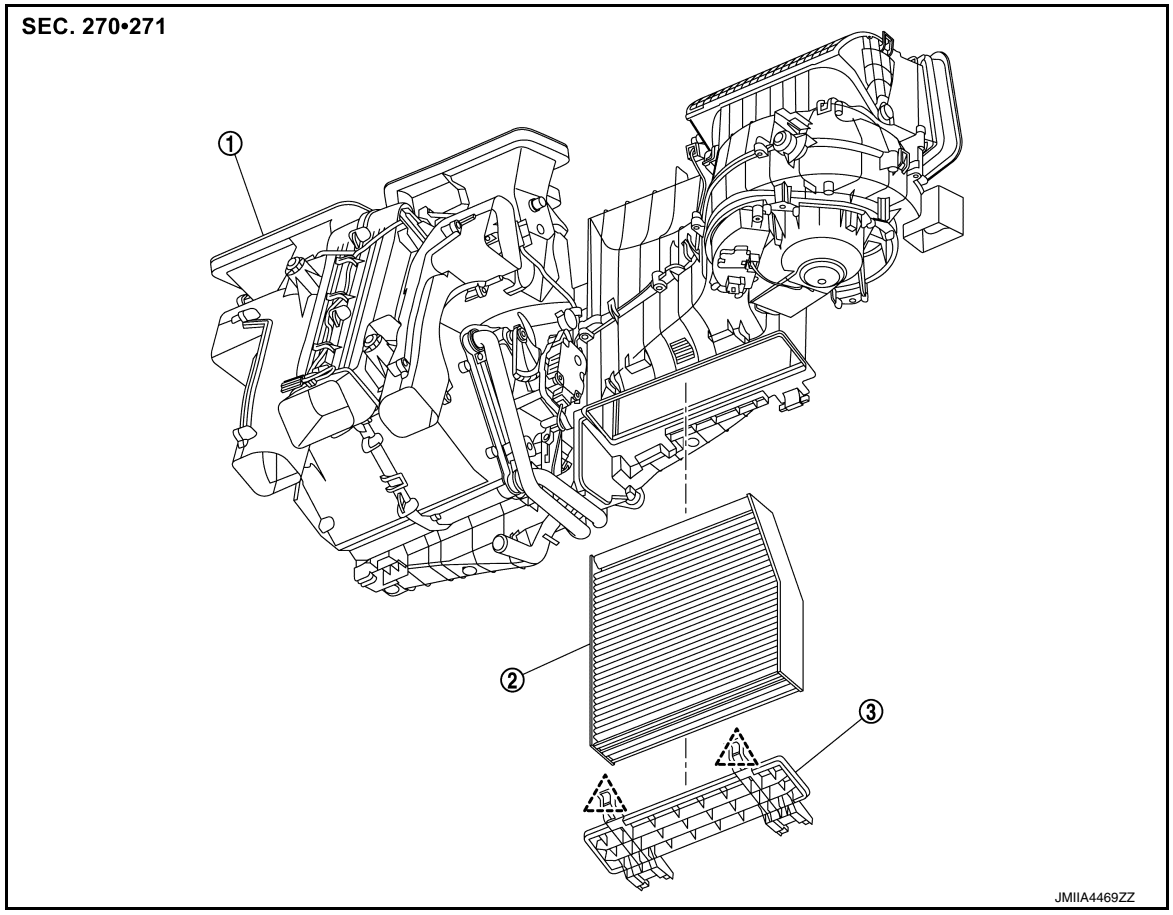
INSTALLATION

Install in the reverse order of removal.

AIR CONDITIONER FILTER

Exploded View

INFOID:0000000013550902



① A/C unit assembly ② Air conditioner filter ③ Filter cover

△ : Pawl

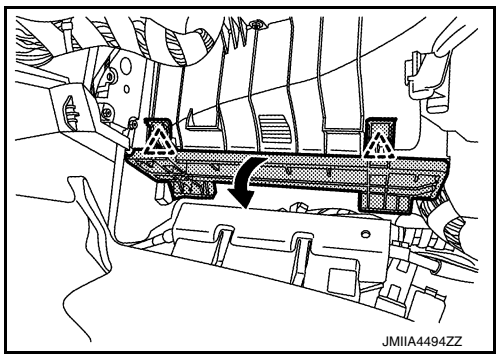
Removal and Installation

INFOID:0000000013550903

REMOVAL

1. Disengage fixing pawls, and then remove filter cover.

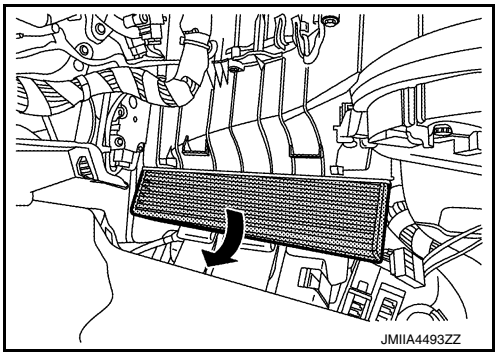
△ : Pawl



2. Remove air conditioner filter.

CAUTION:

If the filter is deformed/damaged when removing, replace it with a new one. Deformed/damaged filter may deteriorate the dust collecting performance.



INSTALLATION

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

CAUTION:

When installing, handle the filter with extreme care to avoid deforming/damaging.

Replacement

INFOID:0000000013550904

Replace air conditioner filter.

Refer to VTL-17, "Air conditioner filter".

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Air conditioner filter

INFOID:0000000013550905

Replacement interval	MA-8, "FOR NORTH AMERICA : Introduction of Periodic Maintenance" (FOR NORTH AMERICA)
	MA-10, "FOR MEXICO : Periodic Maintenance" (FOR MEXICO)