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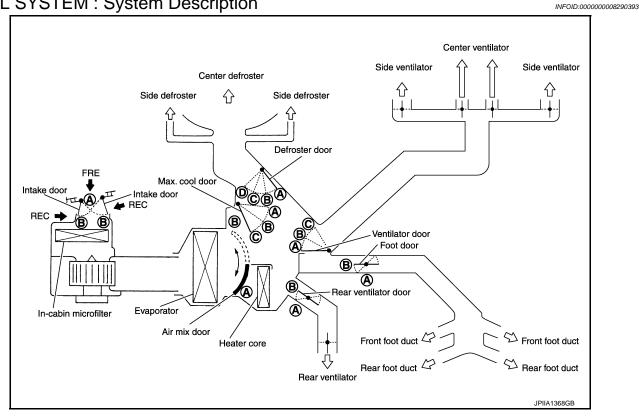
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SYSTEM DESCRIPTION

SWITCHES AND THEIR CONTROL FUNCTION
WITHOUT LEFT AND RIGHT VENTILATION TEMPERATURE SEPARATELY
CONTROL SYSTEM

WITHOUT LEFT AND RIGHT VENTILATION TEMPERATURE SEPARATELY CONTROL SYSTEM: System Description



Position		MODE	switch		DEF switch		AUTO switch	Intake switch	Temperature control dial	OFF
or	VENT	B/L	FOOT	D/F	ON	OFF		FRE REC		switch
switch	 ;;	!!	i ,,i		<u> </u>	<u> </u>	RISH AUTO			OFF
									18°C (60°F) ⇔ 32°C (90°F)	راك
Ventilator door	(A)	B	©	©	©					
Max.cool door	A	B	©	©	©					
Defroster door	0	0	©	B	(A)					AUTO
Foot door	B	B	B	B	(A)		AUTO			A010
Rear ventilator door	B	B	B	B	(A)					
Intake door				B	B			B * A *		
Air mix door		_	_						A AUTO B	

^{*:}Inlet status is displayed by LED when activating automatic control.

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WITH LEFT AND RIGHT VENTILATION TEMPERATURE SEPARATELY CONTROL SYSTEM

WITH LEFT AND RIGHT VENTILATION TEMPERATURE SEPARATELY CONTROL

Revision: 2012 August VTL-3 2013 G Sedan

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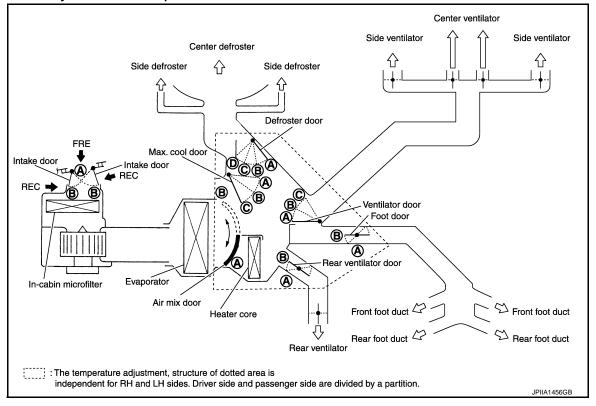
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SWITCHES AND THEIR CONTROL FUNCTION

< SYSTEM DESCRIPTION >

SYSTEM: System Description

INFOID:0000000008290394



1 \	DUAL switch		MODE	switch		DEF s	switch	AUTO switch	Intake	switch		ture control river side)	Temperatu dial(Passe	ure control enger side)	OFF						
or switch		VENT	B/L	FOOT	D/F	ON OFF		ON OFF		ON OFF		ON OFF			FRE	REC					switch
Door	PUSH DUAL	MODE			(\$		PISH AUTO	<u>@</u>	\$		<i>\bigg </i> "		<i></i>	OFF							
D001		? ?	***	₩							18℃ (60°F)	⇔ 32°C (90°F)	18℃ (60°F) <	32°C (90°F)							
Ventilator door	_	(A)	B	©	((_											
Max.cool door	_	(A)	B	©	0	©			_	_	-	_	-	_							
Defroster door		0	0	©	B	A	AUTO		_	_					AUTO						
Foot door		B	B	B	B	(A)			_	_	-		_	_	7.010						
Rear ventilator door		B	B	B	B	A		AUTO	_	_	-	_	_								
Intake door					B	B				(A) *	_		_								
Air mix door (Driver side)				_		_			_		(A) A	ито 📵	_	_							
Air mix door	ON		_	_					_	_		_	(A) AU	то 📵]-						
(Passenger side)	OFF		_	_		_			_		(A)	ито 📵	_	_							

 $[\]ensuremath{^{\star}}\xspace$: Inlet status is displayed by LED when activating automatic control.

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AIR DISTRIBUTION

< SYSTEM DESCRIPTION >

AIR DISTRIBUTION

System Description

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WITHOUT REAR VENTILATOR

		Discharge air flo	W						
		Air outlet/distribution							
Mode position indication	Condition	VENT	FC	DEF					
		VEINI	Front	Rear	DEF				
7	DUAL switch: OFF*	100%	_	_	_				
Ÿ		53%	29%	18%	_				
ij		11%	39%	24%	26%				
		9%	33%	21%	37%				
₩.		16%	_	_	84%				

^{*:} With left and right ventilation temperature separately control system.

WITH REAR VENTILATOR

		Discharge a	ir flow					
		Air outlet/distribution						
Mode position indication	Condition	VI	ENT	FC	DEE			
		Front	Rear	Front	Rear	- DEF		
7)	DUAL switch: OFF* Rear ventilator: OPEN	88%	12%	_	_	_		
Ÿ		49%	10%	25%	16%	_		
ų, i		10%	12%	33%	22%	23%		
9FD *		9%	11%	29%	18%	33%		
₩;		15%	_	_	_	85%		

 $[\]ensuremath{^{*}}\xspace$ With left and right ventilation temperature separately control system.

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- 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.

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

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with
 a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing
 serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

PREPARATION

< PREPARATION >

PREPARATION

PREPARATION

Commercial Service Tool

	Tool name	Description	
Remover tool		Remove clips, pawls and metal clips	
	JMKIA3050ZZ		Е

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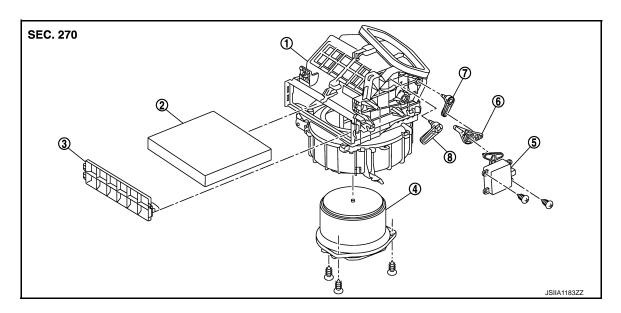
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PERIODIC MAINTENANCE

IN-CABIN MICROFILTER

Exploded View



- 1. Blower unit
- 4. Blower motor assembly
- Intake door lever 1
- 2. In-cabin microfilter
- 5. Intake door motor
- 8. Intake door lever 2
- 3. Filter cover
- Intake door link

INFOID:0000000008290399

Removal and Installation

REMOVAL

- Remove instrument lower panel RH. Refer to <u>IP-11, "A/T MODELS: Exploded View"</u>.
- 2. Remove filter cover, and then remove in-cabin microfilter.

INSTALLATION

Note the following items, and then install in 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:0000000008290400

Replace in-cabin microfilter.

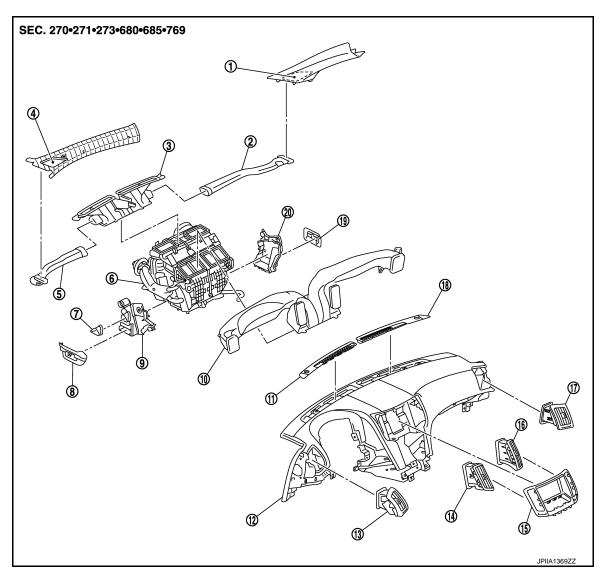
Refer to MA-9, "FOR NORTH AMERICA: Schedule 1" and MA-11, "FOR NORTH AMERICA: Schedule 2". Affix a caution label inside the glove box when replacing filter.

REMOVAL AND INSTALLATION

DUCT AND GRILLE

Exploded View

FRONT



- Side defroster duct RH (Front pillar garnish RH)
- 4. Side defroster duct LH (Front pillar garnish LH)
- 7. Heater duct
- 10. Ventilator duct
- 13. Side ventilator grille LH
- 16. Center ventilator grille RH
- 19. Foot grille RH

- Side defroster nozzle RH
- 5. Side defroster nozzle LH
- 8. Foot grille LH
- 11. Front defroster grille LH
- 14. Center ventilator grille LH
- 17. Side ventilator grille RH
- 20. Foot duct RH

- 3. Defroster nozzle
- 6. Heater & cooling unit assembly

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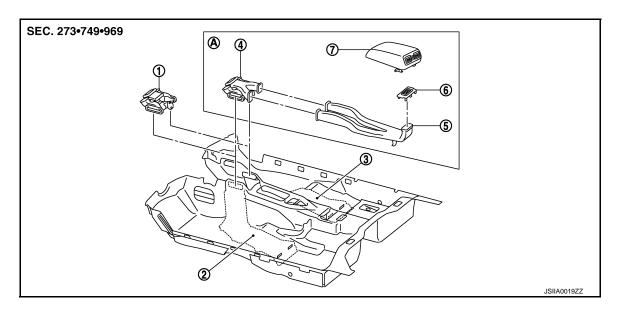
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- 9. Foot duct LH
- 12. Instrument panel assembly
- 15. Cluster lid D
- 18. Front defroster grille RH

REAR

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- 1. Rear floor duct 1 (Without rear ventilator)
- Rear floor duct 2 LH
- Rear floor duct 2 RH

- - Rear floor duct 1& rear ventilator duct 1 5. Rear ventilator duct 2
- 6. Console mask

- 7. Rear ventilator grille (Console lid assembly)
- A. With rear ventilator

CENTER VENTILATOR GRILLE

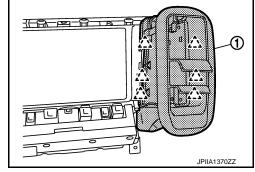
CENTER VENTILATOR GRILLE: Removal and Installation

INFOID:0000000008290402

REMOVAL

- 1. Remove cluster lid D. Refer to IP-11, "A/T MODELS: Exploded View".
- Disengage fixing pawls, and then remove center ventilator grille (1).





INSTALLATION

Install in the reverse order of removal.

SIDE VENTILATOR GRILLE

SIDE VENTILATOR GRILLE: Removal and Installation

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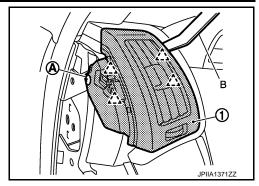
REMOVAL

1. Remove instrument side finisher. Refer to IP-11, "A/T MODELS: Exploded View".

< REMOVAL AND INSTALLATION >

- 2. Remove fixing screw (A).
- 3. Disengage fixing pawls using a remover tool (B), and then remove side ventilator grille (1).





INSTALLATION

Install in the reverse order of removal.

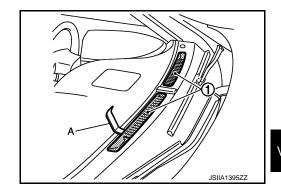
FRONT DEFROSTER GRILLE

FRONT DEFROSTER GRILLE: Removal and Installation

INFOID:0000000008290404

REMOVAL

Remove front defroster grilles (1), using a remover tool (A).



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INSTALLATION

Install in the reverse order of removal.

FRONT DEFROSTER NOZZLE, SIDE DEFROSTER NOZZLE AND VENTILATOR DUCT

FRONT DEFROSTER NOZZLE, SIDE DEFROSTER NOZZLE AND VENTILATOR
DUCT: Removal and Installation

REMOVAL

1. Remove instrument panel assembly. Refer to IP-11, "A/T MODELS: Exploded View".

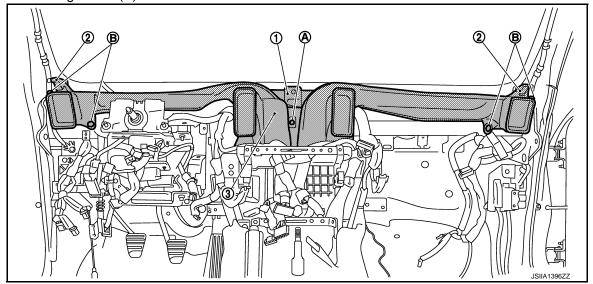
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< REMOVAL AND INSTALLATION >

Remove fixing screw (A).



3. Remove fixing clips (B), and then remove defroster nozzle (1), side defroster nozzle (2) and ventilator duct (3).

INSTALLATION

Install in the reverse order of removal.

SIDE DEFROSTER DUCT

SIDE DEFROSTER DUCT: Removal and Installation

INFOID:0000000008290406

REMOVAL

Remove front pillar garnish. Refer to INT-14, "Exploded View".

INSTALLATION

Install in the reverse order of removal.

REAR VENTILATOR GRILLE

REAR VENTILATOR GRILLE: Removal and Installation

INFOID:0000000008290407

REMOVAL

Remove console rear finisher. Refer to IP-33, "A/T MODELS: Exploded View".

INSTALLATION

Install in the reverse order of removal.

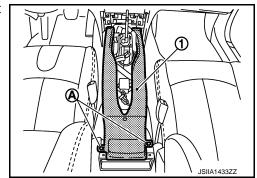
REAR VENTILATOR DUCT 2

REAR VENTILATOR DUCT 2: Removal and Installation

INFOID:0000000008290408

REMOVAL

- Remove center console assembly. Refer to <u>IP-33, "A/T MODELS : Exploded View"</u>.
- 2. Remove fixing screws (A), and then remove rear ventilator duct 2 (1).



INSTALLATION

Install in the reverse order of removal.

REAR FLOOR DUCT 1 (WITHOUT REAR VENTILATOR)

REAR FLOOR DUCT 1 (WITHOUT REAR VENTILATOR): Removal and Installation

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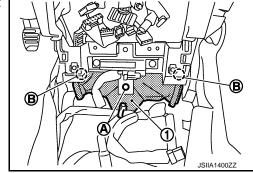
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REMOVAL

- Remove center console assembly. Refer to IP-33, "A/T MODELS: Exploded View".
- Remove instrument side panel RH. Refer to IP-11, "A/T MODELS: Exploded View".
- 3. Remove AV control unit. Refer to the following.
 - Refer to AV-75, "Exploded View". (BASE AUDIO WITHOUT REAR VIEW CAMERA)
 - Refer to AV-175, "Exploded View". (BASE AUDIO WITH REAR VIEW CAMERA)
 - Refer to AV-290, "Exploded View". (BOSE AUDIO WITHOUT NAVIGATION)
 - Refer to AV-428, "Exploded View". (BOSE AUDIO WITH NAVIGATION)
- 4. Remove fixing clips (A) and (B), and then peel back floor carpet to a point where rear floor duct 1 (1) is visible.
- Remove rear floor duct 1 to rightward.



INSTALLATION

Install in the reverse order of removal.

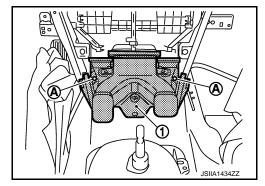
REAR FLOOR DUCT 1 & REAR VENTILATOR DUCT 1 (WITH REAR VENTILA-TOR)

REAR FLOOR DUCT 1 & REAR VENTILATOR DUCT 1 (WITH REAR VENTILATOR)

: Removal and Installation

REMOVAL

- Remove instrument panel assembly. Refer to IP-11, "A/T MODELS: Exploded View".
- Remove fixing clips (A), and then remove rear floor duct 1 (1).



INSTALLATION

Install in the reverse order of removal.

FOOT GRILLE

FOOT GRILLE: Removal and Installation

REMOVAL

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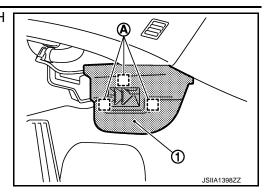
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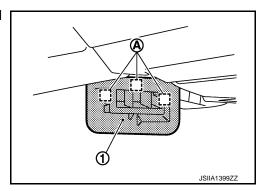
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< REMOVAL AND INSTALLATION >

1. Remove fixing metal clips (A), and then remove foot grille LH (1).



2. Remove fixing metal clips (A), and then remove foot grille RH (1).



INSTALLATION

Install in the reverse order of removal.

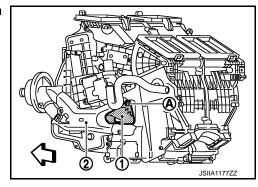
HEATER DUCT

HEATER DUCT: Removal and Installation

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REMOVAL

Remove fixing screw (A), and then remove heater duct (1) from heater & cooling unit assembly (2).



INSTALLATION

Install in the reverse order of removal.

FOOT DUCT

FOOT DUCT: Removal and Installation

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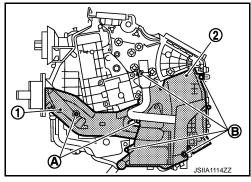
REMOVAL

Driver Side

1. Remove heater & cooling unit assembly. Refer to HA-51, "Exploded View".

< REMOVAL AND INSTALLATION >

- 2. Remove fixing screws (A), and then remove heater pipe cover (1).
- 3. Remove fixing screws (B), and then remove foot duct LH (2).



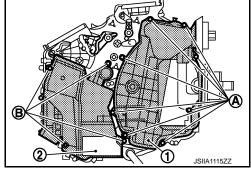
Passenger Side

Set the temperature at full cold.

CAUTION:

The angle may be out, when installing the air mix door motor to the air mix door, unless the above procedure is performed.

- Disconnect the battery cable from the negative terminal.
- 3. Remove heater & cooling unit assembly. Refer to HA-51, "Exploded View".
- 4. Remove air mix door motor. Refer to HAC-171, "Exploded View".
- 5. Remove mode door motor and links. Refer to HAC-171, "Exploded View".
- 6. Remove fixing screws (A), and then remove evaporator cover (1).
- 7. Remove fixing screws (B), and then remove foot duct RH (2).



INSTALLATION

Install in the reverse order of removal.

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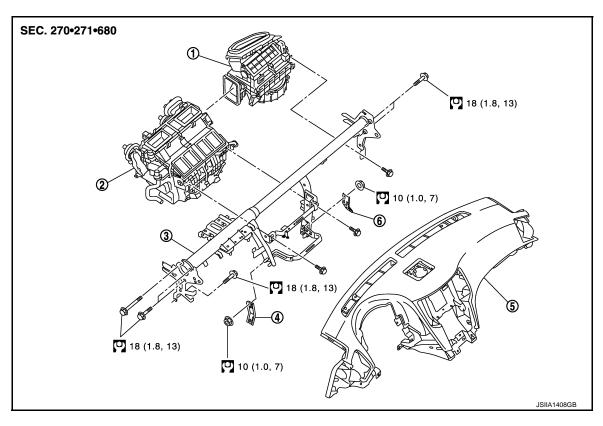
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BLOWER UNIT

Exploded View

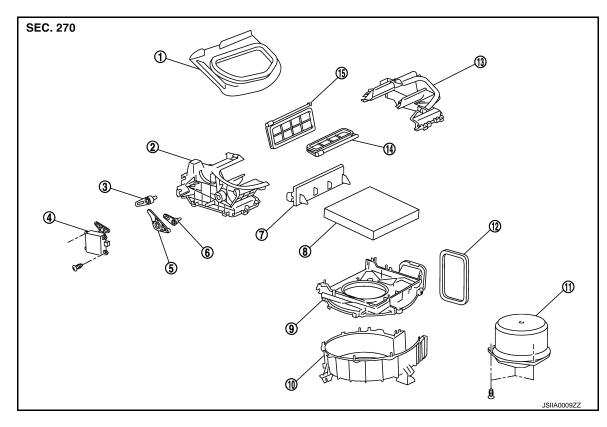


1. Blower unit

- 2. Heater & cooling unit assembly
- 4. Instrument stay LH
- 5. Instrument panel assembly
- 3. Steering member
- 6. Instrument stay RH

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

DISASSEMBLY



- 1. Adapter
- 4. Intake door motor
- 7. Filter cover
- 10. Intake lower case
- 13. Intake box LH

- 2. Intake box RH
- Intake door link
- 8. In-cabin microfilter
- 11. Blower motor assembly
- 14. Intake door 1

- Intake door lever 2
- 6. Intake door lever 1
- 9. Intake upper case
- 12. Seal
- 15. Intake door 2

BLOWER UNIT

BLOWER UNIT: Removal and Installation

REMOVAL

- Remove instrument lower panel RH. Refer to <u>IP-11, "A/T MODELS: Exploded View"</u>.
- 2. Disconnect ECM (1) connectors.
- 3. Disconnect AWD control unit (2) connector (AWD models).
- 4. Remove mounting nuts (A), and then remove ECM with bracket attached.
- Remove power steering control unit (WITHOUT 4WAS). Refer to STC-18, "Exploded View".
- Disconnect intake door motor (3) connector and blower motor
 (4) connector.
- 7. Remove mounting bolt (B) and fixing screw (C), and then remove blower unit (5).

CAUTION:

Move blower unit rightward, and remove locating pin (1 part) and joint. Then remove blower unit downward.

INSTALLATION

Note the following items, and then install in the reverse order of removal. **CAUTION:**

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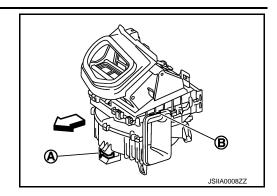
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BLOWER UNIT

< REMOVAL AND INSTALLATION >

Check locating pin (A) and joint (B) are securely inserted.



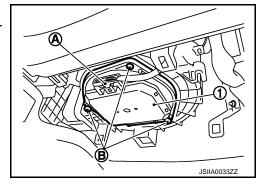
BLOWER MOTOR

BLOWER MOTOR: Removal and Installation

INFOID:0000000008290416

REMOVAL

- 1. Remove instrument lower cover. Refer to IP-11, "A/T MODELS: Exploded View".
- 2. Disconnect blower motor connector (A).
- 3. Remove fixing screws (B), and then remove blower motor assembly (1).



INSTALLATION

Install in the reverse order of removal.