# SECTION VENTILATION SYSTEM C

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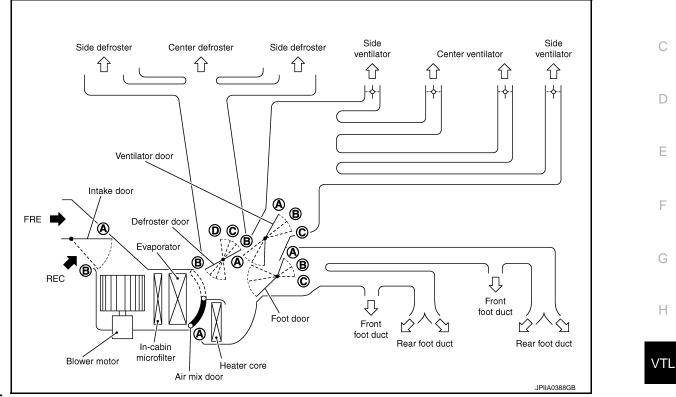
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# SWITCHES AND THEIR CONTROL FUNCTION

# < SYSTEM DESCRIPTION >

# SYSTEM DESCRIPTION SWITCHES AND THEIR CONTROL FUNCTION

# System Description



# NOTE:

Ventilator door has center ventilator openings and side ventilator openings, side ventilator opening cannot be J completely closed.

Position	Mode control dial								Intake switch		Temperature control dial		
or	MAX A/C	VENT	B/L	FOOT	FOOT2	D/F	D/F2	DEF	ON	OFF	Ĥ		
switch Door	MAX	**			¥¥		¥¥	رک					
$\sim$	A/C							*1*			Full cold	$\Leftrightarrow$	Full hot
Ventilator door	۵	A	B	©	©	©	©	©					
Foot door	۵	A	B	©	©	B	₿	۹					
Defroster door	۵	(A)         (B)         (B-C)         (C)         (C-D)         (D)				_	_		—				
Intake door	۵	Ø Ø						A	B				
Air mix door									A	_	₿		

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# < SYSTEM DESCRIPTION >

# AIR DISTRIBUTION

# System Description

WITHOUT REAR FOOT DUCT

Discharge air flow					
	Air outlet/distribution				
Mode door position	VENT	FOOT	DEF		
<b>ن</b> ړ <sup>-</sup>	100%	_	_		
よび	63%	37%			
نہ ۲	13%	63%	24%		
,	12%	41%	47%		
	18%	_	82%		

# WITH REAR FOOT DUCT

Discharge air flow	1						
	Air outlet/distribution						
Mode door position	VENT	FO	от	DEF			
	VENT	Front	Rear				
نم -	100%	_	—	_			
よび	60%	26%	14%	_			
نہ ۲	13%	42%	24%	21%			
,	12%	28%	16%	44%			
(III)	18%	_	_	82%			

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# < PRECAUTION > PRECAUTION PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA : 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:

- 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:

- 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.

# FOR USA AND CANADA : Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

### NOTE:

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition switch in the M "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock <sup>N</sup> mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

### OPERATION PROCEDURE

1. Connect both battery cables. NOTE:

Supply power using jumper cables if battery is discharged.

2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.

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# PRECAUTIONS

# < PRECAUTION >

- 3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- 6 Perform a self-diagnosis check of all control units using CONSULT-III.

# FOR MEXICO

### FOR MEXICO : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:000000006200781

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

### WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "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:

- 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.

### FOR MEXICO : Precaution Necessary for Steering Wheel Rotation After Battery Disconnect INFOID:000000006200782

### NOTE:

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI) VEHICLE IMMOBILIZER SYSTEM - NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition switch in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

### OPERATION PROCEDURE

 Connect both battery cables. NOTE:

Supply power using jumper cables if battery is discharged.

Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the 2. steering lock will be released.

# PRECAUTIONS

< PRECAUTION >

3.	Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.	А
4.	Perform the necessary repair operation.	
5.	When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)	В
6.	Perform a self-diagnosis check of all control units using CONSULT-III.	
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# < PREPARATION >

# PREPARATION

# PREPARATION

# **Commercial Service Tool**

	Description			
Remover tool	PIIB7923J	Remove clips, pawls, metal clips		
Refrigerant identifier equipment	RJA197E	Checking for refrigerant purity and system contamination		
Power tool	PBIC0190E	For loosening bolts and nuts		

# < PERIODIC MAINTENANCE > PERIODIC MAINTENANCE

# **IN-CABIN MICROFILTER**

# **Exploded View**

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VTL

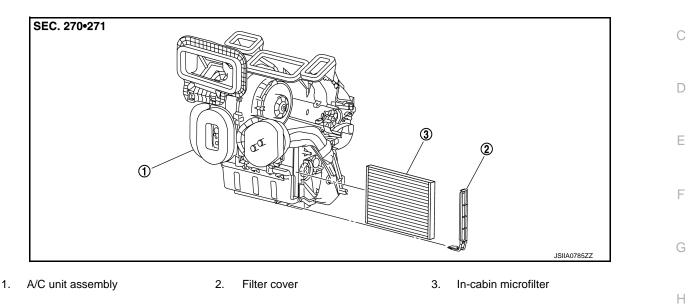
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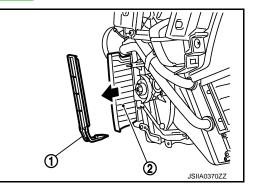
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# Removal and Installation

# REMOVAL

- 1. Remove instrument driver lower cover. Refer to IP-13, "Exploded View".
- 2. Remove accelerator pedal assembly. Refer to <u>ACC-4, "Exploded View"</u>.
- 3. Remove filter cover (1), and then remove in-cabin microfilter (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

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Replace in-cabin microfilter.

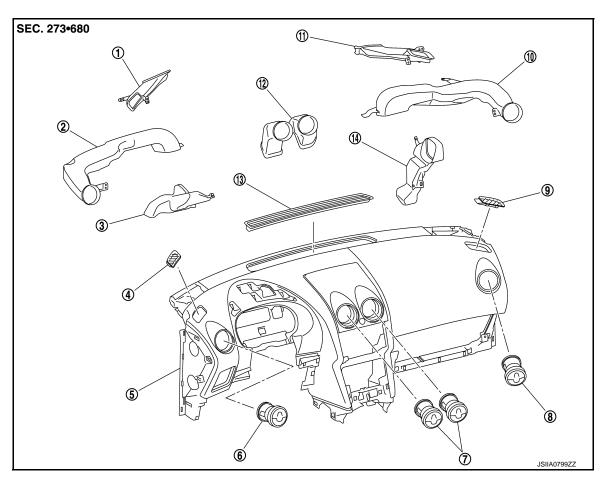
Refer to <u>MA-8, "FOR NORTH AMERICA : Schedule 1"</u> (FOR NORTH AMERICA), <u>MA-10, "FOR NORTH AMERICA : Schedule 2"</u> (FOR NORTH AMERICA) or <u>MA-11, "FOR MEXICO : Periodic Maintenance"</u> (FOR MEXICO).

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

# < REMOVAL AND INSTALLATION > **REMOVAL AND INSTALLATION DUCT AND GRILLE**

# Exploded View

FRONT

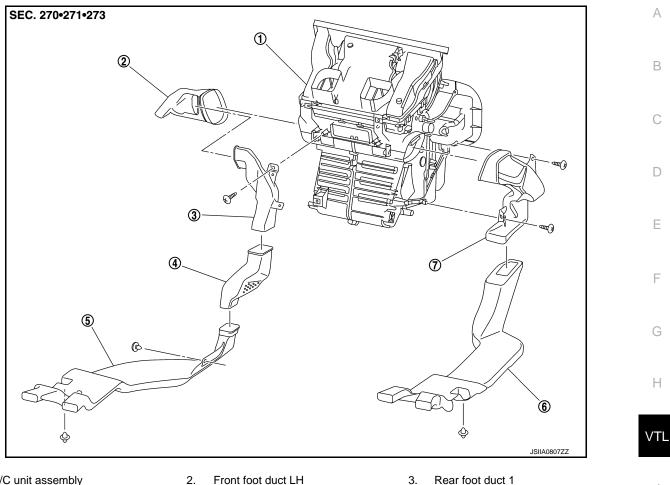


- Side defroster duct LH 1.
- Side defroster grille LH 4.
- Center ventilator grille 7.
- 10. Side ventilator duct RH
- 13. Front defroster grille
- REAR

- Side ventilator duct LH 2.
- 5. Instrument panel
- 8. Side ventilator grille RH
- Side defroster duct RH 11.
- 14. Front foot duct RH

- Front foot duct LH 3.
- 6. Side ventilator grille LH
- Side defroster grille RH 9.
- 12. Center ventilator duct

# < REMOVAL AND INSTALLATION >



6.

Rear foot duct 3 RH

- A/C unit assembly 1.
- Front foot duct LH 2.

Rear foot duct 3 LH

- Rear foot duct 2 5.
- 7. Front foot duct RH

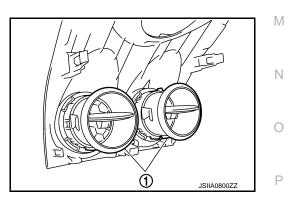
# **CENTER VENTILATOR GRILLE**

# **CENTER VENTILATOR GRILLE : Removal and Installation**

# REMOVAL

4.

- 1. Remove cluster lid C. Refer to IP-13, "Exploded View".
- 2. Remove center ventilator grilles (1).
  - Using flat screwdriver to push the pawls.
  - Pull to remove center ventilator grilles from cluster lid C.



# **INSTALLATION** Installation is basically the reverse order of removal. CENTER VENTILATOR DUCT

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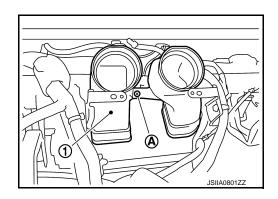
# < REMOVAL AND INSTALLATION >

# CENTER VENTILATOR DUCT : Removal and Installation

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## REMOVAL

- 1. Remove instrument panel. Refer to IP-13, "Exploded View".
- 2. Remove screw (A), and then remove center ventilator duct (1).

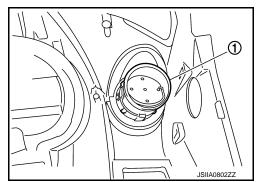


INSTALLATION Installation is basically the reverse order of removal. SIDE VENTILATOR GRILLE

# SIDE VENTILATOR GRILLE : Removal and Installation

# REMOVAL

- 1. Remove side ventilator duct. Refer to <u>VTL-10, "Exploded View"</u>.
- 2. Remove side ventilator grilles (1).
  - Using flat screwdriver to push the pawls.
  - Pull to remove center ventilator grilles from instrument panel.



INSTALLATION Installation is basically the reverse order of removal. SIDE VENTILATOR DUCT

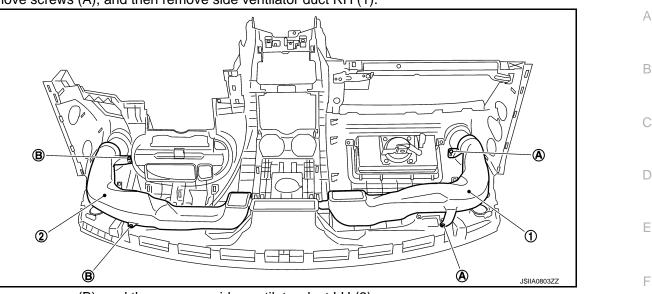
SIDE VENTILATOR DUCT : Removal and Installation

# REMOVAL

1. Remove instrument panel. Refer to IP-13, "Exploded View".

# < REMOVAL AND INSTALLATION >

2. Remove screws (A), and then remove side ventilator duct RH (1).



3. Remove screws (B), and then remove side ventilator duct LH (2).

# INSTALLATION

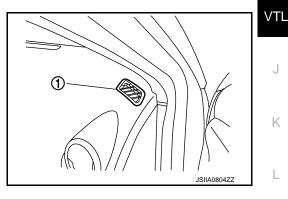
Installation is basically the reverse order of removal. SIDE DEFROSTER GRILLE

# SIDE DEFROSTER GRILLE : Removal and Installation

# REMOVAL

Using remover tool, remove side defroster grilles (1). CAUTION:

Use shop cloth and all other protection necessaries to avoid damage.



INSTALLATION Installation is basically the reverse order of removal. SIDE DEFROSTER DUCT

SIDE DEFROSTER DUCT : Removal and Installation



1. Remove side ventilator duct. Refer to <u>VTL-10, "Exploded View"</u>.

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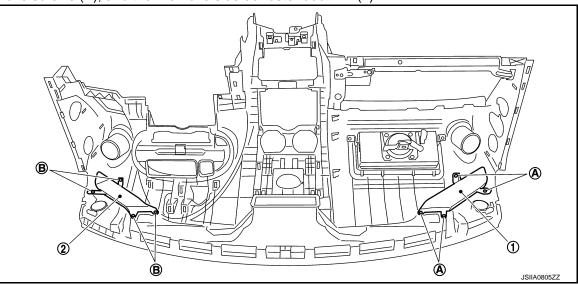
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# < REMOVAL AND INSTALLATION >

2. Remove screws (A), and then remove side defroster duct RH (1).



3. Remove screws (B), and then remove side defroster duct LH (2).

# INSTALLATION

Installation is basically the reverse order of removal. FRONT DEFROSTER GRILLE

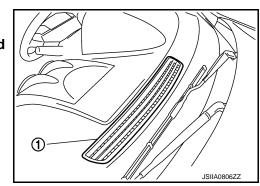
# FRONT DEFROSTER GRILLE : Removal and Installation

INFOID:000000006200794

# REMOVAL

Using remover tool, remove front defroster grille (1). **CAUTION:** 

Use shop cloth and all other protection necessaries to avoid damage.



INSTALLATION Installation is basically the reverse order of removal. FRONT FOOT DUCT

FRONT FOOT DUCT : Removal and Installation

# REMOVAL

Driver side

- 1. Remove instrument driver lower cover. Refer to <u>IP-13, "Exploded View"</u>.
- 2. Remove knee protector. Refer to IP-13, "Exploded View".
- 3. Remove rear foot duct 1 (with rear foot duct). Refer to VTL-10, "Exploded View".
- 4. Remove front foot duct LH.

### Passenger side

- 1. Remove glove box assembly. Refer to IP-13, "Exploded View".
- 2. Remove mounting screws, and then remove front foot duct RH.

INSTALLATION

DUCT AND GRILLE	
< REMOVAL AND INSTALLATION >	_
Installation is basically the reverse order of removal. REAR FOOT DUCT 1	A
REAR FOOT DUCT 1 : Removal and Installation	_
REMOVAL	В
<ol> <li>Remove cluster lid C. Refer to <u>IP-13, "Exploded View"</u>.</li> <li>Remove screw, and then remove rear foot duct 1.</li> </ol>	С
INSTALLATION Installation is basically the reverse order of removal. REAR FOOT DUCT 2	D
REAR FOOT DUCT 2 : Removal and Installation	97
<ol> <li>REMOVAL</li> <li>Remove instrument lower cover LH. Refer to <u>IP-13, "Exploded View"</u>.</li> <li>Remove rear foot duct 2. Refer to <u>VTL-10, "Exploded View"</u>.</li> </ol>	F
INSTALLATION Installation is basically the reverse of removal. REAR FOOT DUCT 3	G
REAR FOOT DUCT 3 : Removal and Installation	<sup>98</sup> H
REMOVAL	
Driver side 1. Peel back floor carpet to a point where rear foot duct 3 LH is visible. Refer to <u>INT-23, "Exploded View"</u> .	VTL
<ol> <li>Remove clips, and then remove rear foot duct 3 LH.</li> <li>Passenger side</li> </ol>	J
<ol> <li>Peel back floor carpet to a point where rear foot duct 3 RH is visible. Refer to <u>INT-23, "Exploded View"</u>.</li> <li>Remove clip, and then remove rear foot duct 3 RH.</li> </ol>	K
INSTALLATION Installation is basically the reverse of removal.	I
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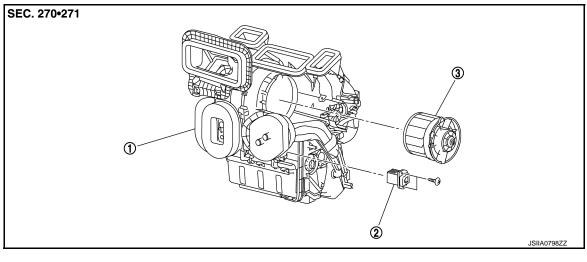
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# < REMOVAL AND INSTALLATION > BLOWER MOTOR

# Exploded View

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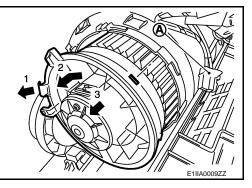
- 1. A/C unit assembly
- 2. Fan control amp.
- 3. Blower motor

# Removal and Installation

# REMOVAL

- 1. Remove instrument driver lower cover. Refer to IP-13, "Exploded View".
- 2. Remove combination meter. Refer to MWI-78, "Removal and Installation".
- 3. Remove knee protector. Refer to IP-13, "Exploded View".
- 4. Remove foot duct LH. Refer to VTL-10, "Exploded View".
- 5. Remove mode door motor. Refer to HAC-209, "Exploded View".
- 6. Remove brake pedal assembly and accelerator pedal. Refer to <u>BR-20, "Exploded View"</u>.
- 7. Disconnect blower motor connector (A).
- 8. Press flange holding hook (1). Then turn blower motor counterclockwise (2).
- Pull outside (3) and remove blower motor.
   CAUTION:

The balance is adjusted when blower fan and blower motor are assembled, so do not replace the individual parts.



INSTALLATION Installation is basically the reverse order of removal. CAUTION: Install correctly blower motor flange holding hook in A/C unit assembly.

# FAN CONTROL AMPLIFIER

< REMOVAL AND INSTALLATION >	-
FAN CONTROL AMPLIFIER	А
Exploded View	1
Refer to <u>VTL-16</u> , "Exploded View". Removal and Installation	8 2
REMOVAL 1. Remove instrument driver lower cover. Refer to <u>IP-13</u> , "Exploded View". 2. Remove pagelerator pedal assembly. Refer to <u>ACC 4</u> . "Exploded View".	С
<ol> <li>Remove accelerator pedal assembly. Refer to <u>ACC-4, "Exploded View"</u>.</li> <li>Disconnect fan control amp. connector.</li> <li>Remove mounting screws, and then remove fan control amp.</li> </ol>	D
INSTALLATION Installation is basically the reverse order of removal.	E
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