

D

Е

F

Н

J

Κ

L

M

Ν

0

Р

# **CONTENTS**

SYSTEM DESCRIPTION	2
SWITCHES AND THEIR CONTROL FUNC-	2
System Description	
AIR DISTRIBUTION	
PRECAUTION	6
PRECAUTIONS  Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN-SIONER"  Service Procedure Precautions for Models with a Pop-up Roll Bar  Precaution Necessary for Steering Wheel Rotation after Battery Disconnect  Precaution for Battery Service	6
PREPARATION	
-	
PREPARATION Commercial Service Tool	
PERIODIC MAINTENANCE	9
IN-CABIN MICROFILTER  Exploded View  Removal and Installation  Replacement	9 9
REMOVAL AND INSTALLATION	.10
DUCT AND GRILLE	
CENTER VENTILATOR GRILLE CENTER VENTILATOR GRILLE : Removal and Installation	

SIDE VENTILATOR GRILLE11 SIDE VENTILATOR GRILLE : Removal and Installation11
FRONT DEFROSTER GRILLE : Removal and Installation
FRONT DEFROSTER NOZZLE, SIDE DEFROST- ER NOZZLE AND VENTILATOR DUCT12 FRONT DEFROSTER NOZZLE, SIDE DE- FROSTER NOZZLE AND VENTILATOR DUCT : Removal and Installation12
SIDE DEFROSTER DUCT12 SIDE DEFROSTER DUCT : Removal and Installation
FOOT GRILLE : Removal and Installation13
HEATER DUCT : Removal and Installation13
FOOT DUCT : Removal and Installation13
REAR FLOOR DUCT 114  REAR FLOOR DUCT 1 : Removal and Installation14
REAR FLOOR DUCT 215 REAR FLOOR DUCT 2 : Removal and Installation15
<b>BLOWER UNIT16</b> Exploded View16
BLOWER UNIT17 BLOWER UNIT : Removal and Installation17
BLOWER MOTOR18 BLOWER MOTOR : Removal and Installation18

## SWITCHES AND THEIR CONTROL FUNCTION

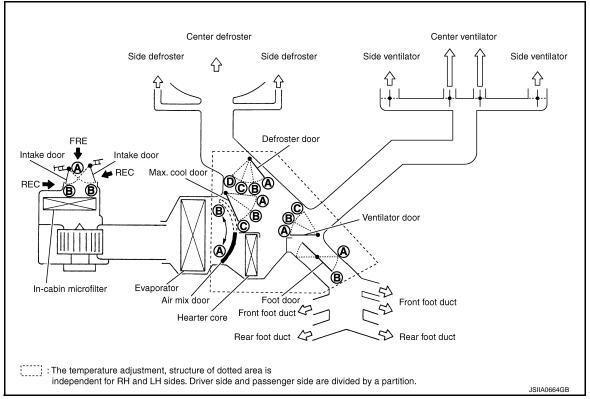
< SYSTEM DESCRIPTION >

# SYSTEM DESCRIPTION

# SWITCHES AND THEIR CONTROL FUNCTION

**System Description** 

INFOID:0000000004786039



#### WITHOUT ACCS

		Door position						
Switch po	Switch position		Max. cool door	Defroster door	Foot door	Intake door	Air mix door (Driver side)	Air mix door (Passenger side)
AUTO switch				AUTO				

# **SWITCHES AND THEIR CONTROL FUNCTION**

# < SYSTEM DESCRIPTION >

						Do	or positi	ion															
	Switch po	osition		Ventilator door	Max. cool door	Defroster door	Foot door	Intake door	Air mix door (Driver side)	Air mix door (Passenger side)													
	VENT		<del>'</del> ;	Α	Α	D	В																
MODE		B/L 💥		В	В	D	В	<u> </u>															
switch	FOOT					С	В																
	D/F	9		С	С	В	В	В		_													
DEF swi	tch	₩				A A	Α	В	<b> </b>														
Intake	FRE	8								B <sup>*</sup>													
switch	REC	<b>©</b>																			Α*	A <sup>*</sup>	
DUAL	DUAL		12-							ON													
switch	OFF		=							OFF													
			.0°C 0°F)					l				Α											
control dial swi	DUAL switch: OFF		⇒ 31.5°C ⇒ 89°F)						P	AUTO													
(Dirver side)	011		.0°C )°F)																				В
			.0°C )°F)	_	_	_	_	_	А														
Temperature control dial (Driver side)			⇒ 31.5°C ⇒ 89°F)						AUTO	_													
(Briver dide)	DUAL switch:		32.0°C (90°F)						В														
Temperature	ON		.0°C )°F)																А				
control dial (Passenger			⇒ 31.5°C ⇒ 89°F)						_	AUTO													
side)	32.0°C (90°F)						В																
	OFF sw	/itch		С	С	С	В	В	_	_													

<sup>\*:</sup> Inlet status is displayed by indicator when activating automatic control

## WITH ACCS

	Door position							
Switch position		Ventilator door	Max. cool door	Defroster door	Foot door	Intake door	Air mix door (Driver side)	Air mix door (Passenger side)
AUTO switch		AUTO						

VTL-3 Revision: 2010 March 2009 G37 Convertible

Ν

# **SWITCHES AND THEIR CONTROL FUNCTION**

# < SYSTEM DESCRIPTION >

				Door position							
Switch position		Ventilator door	Max. cool door	Defroster door	Foot door	Intake door	Air mix door (Driver side)	Air mix door (Passenger side)			
	VENT		7)		Α	D	В				
MODE	B/L	;	i	В	В	D	В	_			
switch	FOOT	•	نړ			С	В	В			
	D/F	9	Pi	С	С	В	В	В			
DEF swit	tch	₩ <b>?</b>				Α	А	В		_	
Intake	AUTO	AUTO						AUTO*2	_		
switch	REC	~	- 17-					A*1 B*1			
	FRE	<b>©</b>									
DUAL	DUAL									ON	
switch	OFF									OFF	
_			.0°C 0°F)						А		
Temperature control dial (Driver side)	DUAL switch: OFF	18.5°C ⇔ 31.5°C (61°F ⇔ 89°F)							AUTO		
(=)			.0°C )°F)	_	_	_	_		В		
			.0°C )°F)					_	А		
Temperature control dial (Driver side)			18.5°C ⇔ 31.5°C (61°F ⇔ 89°F)		I				AUTO	_	
(= 5. 5.25)	DUAL switch:		.0°C 0°F)						В		
Temperature	ON		.0°C 0°F)						_	А	
control dial (Passenger			⇒ 31.5°C ⇒ 89°F)							AUTO	
side)			.0°C 0°F)							В	
	OFF sw	vitch		С	С	С	В	В	_	_	

<sup>\*1:</sup> Inlet status is displayed by indicator when activating automatic control

<sup>\*2:</sup> Intake door control applies a gas sensor

# **AIR DISTRIBUTION**

# < SYSTEM DESCRIPTION >

# AIR DISTRIBUTION

# System Description

INFOID:0000000004786040

Discharge air flow								
		Air outlet/distribution						
Mode position indication	Condition	VENT	FC	DEF				
		VEINI	Front	Rear	DEF			
~;		100%	_	_	_			
Ÿ		53%	29%	18%	_			
<b>"</b>	DUAL switch: OFF	11%	39%	24%	26%			
		9%	33%	21%	37%			
₩,		16%	_	_	84%			

G

Α

В

С

D

Е

Н

/TL

K

L

M

Ν

0

Р

# **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:**

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

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

#### **WARNING:**

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

Service Procedure Precautions for Models with a Pop-up Roll Bar

INFOID:0000000005190906

#### **WARNING:**

- Risk of passenger injury or death may increase if the pop-up roll bar does not deploy during a roll over collision. In order to reduce the chance of an incident where the pop-up roll bar is inoperative, all maintenance must be performed by a NISSAN or INFINITI dealer.
- Before removing and installing the pop-up roll bar component parts and harness, always turn the
  ignition switch OFF, disconnect the battery negative terminal, and wait for 3 minutes or more. (The
  purpose of this operation is to discharge electricity that is accumulated in the auxiliary power supply
  circuit in the air bag diagnosis sensor unit.)
- When repairing, removing, and installing a pop-up roll bar, always refer to SRS AIR BAG and SRS AIR BAG CONTROL warnings in the Service Manual.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:0000000005190896

#### NOTE:

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

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

#### **PRECAUTIONS**

#### < PRECAUTION >

#### 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.)
- 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.)
- Perform self-diagnosis check of all control units using CONSULT-III.

# **Precaution for Battery Service**

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

VTL

Н

Α

В

D

Е

INFOID:0000000005190900

L

N /I

Ν

0

Р

Revision: 2010 March VTL-7 2009 G37 Convertible

# **PREPARATION**

# < PREPARATION >

# **PREPARATION**

# **PREPARATION**

# **Commercial Service Tool**

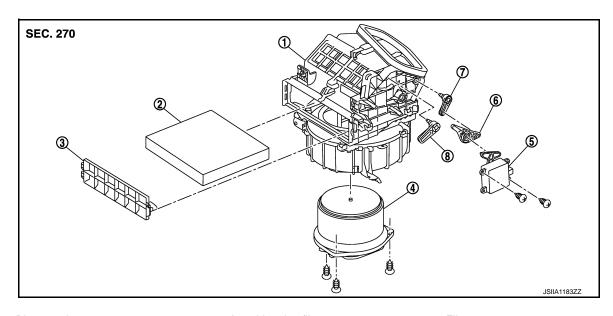
INFOID:0000000004786044

	Description	
Remover tool	PIIB7923J	Remove clips, pawls, metal clips

# PERIODIC MAINTENANCE

# **IN-CABIN MICROFILTER**

**Exploded View** 



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

#### Removal and Installation

**REMOVAL** 

1. Remove instrument lower panel RH. Refer to IP-12, "Exploded View".

Remove filter cover, and then remove in-cabin microfilter.

#### 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.
- Never open the wrap until just before the installation. Because the high performance filter (for odors, pollen, and other allergens) immediately starts absorbing odors by opening the wrap to remove them. (with ACCS)

Replacement INFOID:0000000004786047

Replace in-cabin microfilter.

Refer to MA-6, "Schedule 1" and MA-8, "Schedule 2".

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

Α

В

D

Е

INFOID:0000000004786045

K

M

Ν

Р

INFOID:0000000004786046

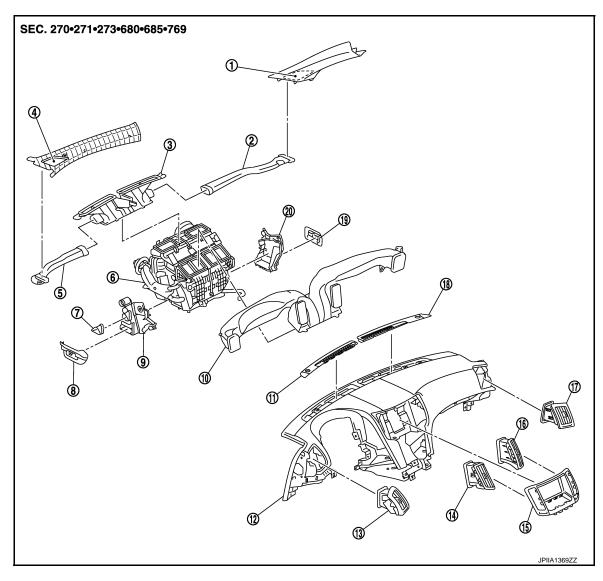
VTL-9 Revision: 2010 March 2009 G37 Convertible

# REMOVAL AND INSTALLATION

# **DUCT AND GRILLE**

Exploded View

#### **FRONT**

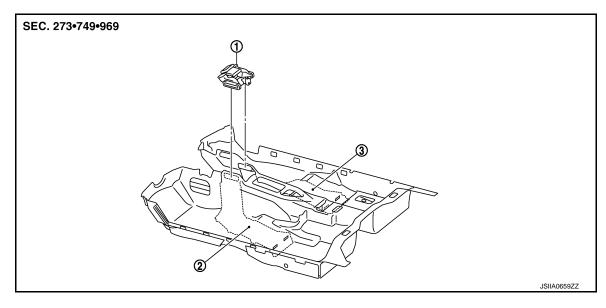


- Side defroster duct (front pillar garnish) (right)
- 4. Side defroster duct (front pillar garnish) (left)
- 7. Heater duct
- 10. Ventilator duct
- 13. Side ventilator grille (left)
- 16. Center ventilator grille (right)
- 19. Foot grille (right)

- 2. Side defroster nozzle (right)
- 5. Side defroster nozzle (left)
- Foot grille (left)
- 11. Front defroster grille (left)
- 14. Center ventilator grille (left)
- 17. Side ventilator grille (right)
- 20. Foot duct (right)

- 3. Defroster nozzle
- 6. Heater & cooling unit assembly
- 9. Foot duct (left)
- 12. Instrument panel assembly
- 15. Cluster lid D
- 18. Front defroster grille (right)

#### **REAR**



1. Rear floor duct 1

- 2. Rear floor duct 2 (left)
- 3. Rear floor duct 2 (right)

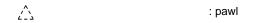
## CENTER VENTILATOR GRILLE

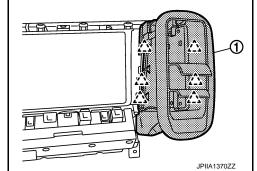
#### CENTER VENTILATOR GRILLE: Removal and Installation

INFOID:0000000004786049

#### **REMOVAL**

- 1. Remove cluster lid D. Refer to IP-12, "Exploded View".
- 2. Disengage the pawls, and then remove center ventilator grille (1).





#### **INSTALLATION**

Installation is basically the reverse order of removal.

# SIDE VENTILATOR GRILLE

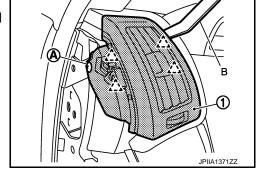
# SIDE VENTILATOR GRILLE: Removal and Installation

INFOID:0000000004786050

#### **REMOVAL**

- 1. Remove the instrument side finisher. Refer to <a href="IP-12">IP-12</a>, "Exploded View".
- 2. Remove the mounting screw (A).
- 3. Remove side ventilator grille pawls using remover tool (B), and then remove side ventilator grille (1).





TL.

Н

Α

В

D

Е

F

M

N

Р

Revision: 2010 March VTL-11 2009 G37 Convertible

#### < REMOVAL AND INSTALLATION >

#### **INSTALLATION**

Installation is basically the reverse order of removal.

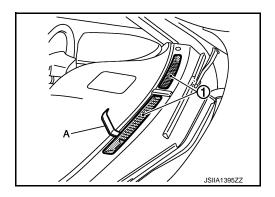
#### FRONT DEFROSTER GRILLE

#### FRONT DEFROSTER GRILLE: Removal and Installation

INFOID:0000000004786051

#### **REMOVAL**

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



#### **INSTALLATION**

Installation is basically the reverse order of removal.

FRONT DEFROSTER NOZZLE, SIDE DEFROSTER NOZZLE AND VENTILATOR DUCT

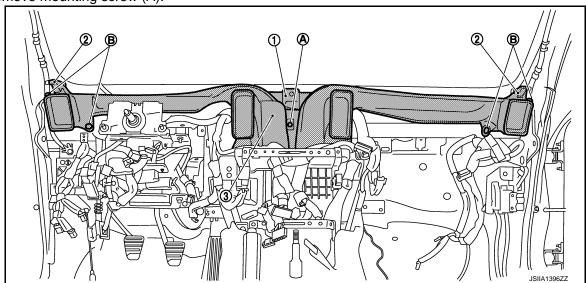
# FRONT DEFROSTER NOZZLE, SIDE DEFROSTER NOZZLE AND VENTILATOR

**DUCT**: Removal and Installation

INFOID:0000000004786052

#### **REMOVAL**

- Remove instrument panel assembly. Refer to <u>IP-12</u>, "Exploded View".
- 2. Remove mounting screw (A).



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

#### INSTALLATION

Installation is basically the reverse order of removal.

SIDE DEFROSTER DUCT

SIDE DEFROSTER DUCT: Removal and Installation

INFOID:0000000004786053

#### **REMOVAL**

Remove front pillar garnish. Refer to INT-15, "Exploded View".

Revision: 2010 March VTL-12 2009 G37 Convertible

#### < REMOVAL AND INSTALLATION >

#### **INSTALLATION**

Installation is basically the reverse order of removal.

#### FOOT GRILLE

## FOOT GRILLE: Removal and Installation

#### INFOID:0000000004786055

Α

В

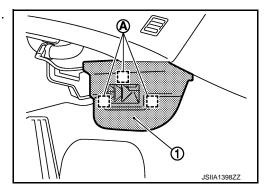
C

D

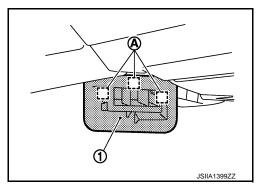
Е

#### **REMOVAL**

1. Remove mounting clips (A), and then remove foot grille (left) (1).



2. Remove mounting clips (A), and then remove foot grille (right) (1).



# /TL

K

M

Ν

Ρ

Н

## **INSTALLATION**

Installation is basically the reverse order of removal.

#### **HEATER DUCT**

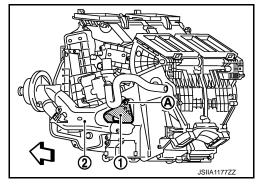
## **HEATER DUCT: Removal and Installation**

INFOID:0000000004786056

#### **REMOVAL**

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

: Vehicle front



#### **INSTALLATION**

Installation is basically the reverse order of removal.

## FOOT DUCT

FOOT DUCT: Removal and Installation

INFOID:0000000004786057

#### **REMOVAL**

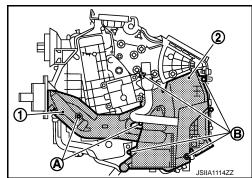
**Driver Side** 

Revision: 2010 March VTL-13 2009 G37 Convertible

## **DUCT AND GRILLE**

#### < REMOVAL AND INSTALLATION >

- Remove heater & cooling unit assembly. Refer to <u>HA-48, "Exploded View"</u>.
- 2. Remove mounting screws (A), and then remove heater pipe cover (1).
- 3. Remove mounting screws (B), and then remove foot duct (left) (2).



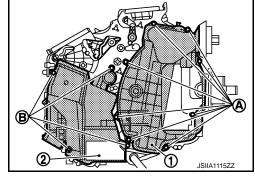
#### Passenger Side

1. Set the temperature at 18.0°C (60°F).

#### **CAUTION:**

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

- 2. Disconnect the battery cable from the negative terminal.
- Remove heater & cooling unit assembly. Refer to <u>HA-48</u>, "Exploded View".
- 4. Remove air mix door motor (passenger side). Refer to <a href="HAC-138">HAC-138</a>, "Exploded View".
- 5. Remove mode door motor and links. Refer to HAC-138, "Exploded View".
- 6. Remove mounting screws (A), and then remove evaporator cover (1).
- 7. Remove mounting screws (B), and then remove foot duct (right) (2).



#### INSTALLATION

Installation is basically the reverse order of removal.

#### REAR FLOOR DUCT 1

#### REAR FLOOR DUCT 1: Removal and Installation

INFOID:0000000004786054

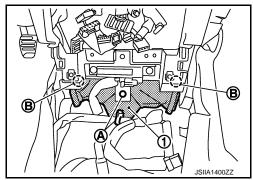
#### **REMOVAL**

- 1. Remove center console assembly. Refer to <a href="IP-24">IP-24</a>, "Exploded View".
- 2. Remove Instrument side panel RH. Refer to IP-12, "Exploded View".
- 3. Remove AV control unit. Refer to the following.
  - AV-154, "Exploded View" (BASE AUDIO WITHOUT NAVIGATION)
  - AV-454, "Exploded View" (BOSE AUDIO WITHOUT NAVIGATION)
  - AV-738, "Exploded View" (BOSE AUDIO WITH NAVIGATION)

## **DUCT AND GRILLE**

## < REMOVAL AND INSTALLATION >

- 4. Remove mounting clip (A).
- 5. Remove mounting clips (B), and then peel back floor carpet to a point where rear floor duct 1 (1) is visible.
- 6. Remove rear floor duct 1 to rightward.



### **INSTALLATION**

Installation is basically the reverse order of removal.

**REAR FLOOR DUCT 2** 

REAR FLOOR DUCT 2: Removal and Installation

INFOID:0000000004788545

**REMOVAL** 

Remove floor trim. Refer to INT-19, "Exploded View".

**INSTALLATION** 

Installation is basically the reverse order of removal.

VTL

Н

Α

В

C

D

Е

F

Κ

L

M

Ν

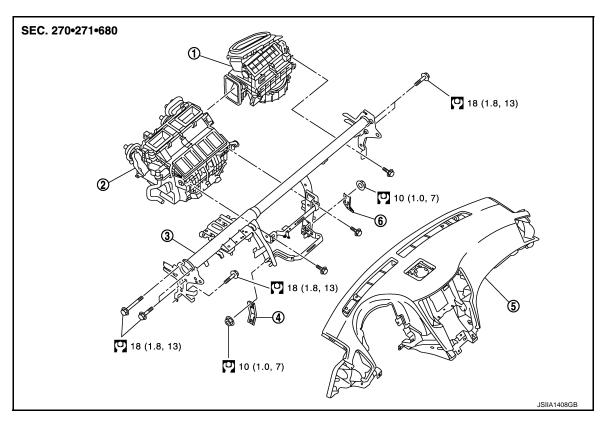
0

Р

Revision: 2010 March VTL-15 2009 G37 Convertible

# **BLOWER UNIT**

Exploded View

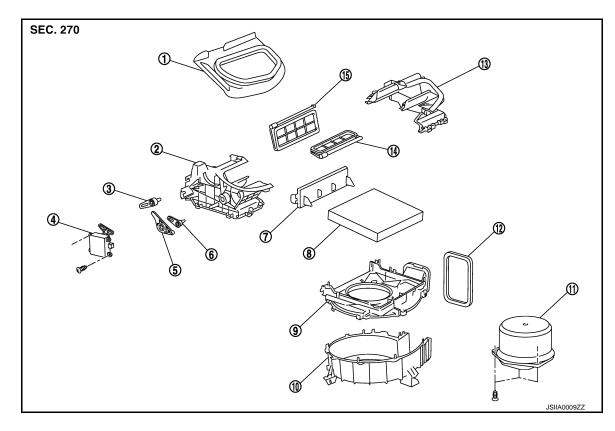


1. Blower unit

- 2. Heater & cooling unit assembly
- 4. Instrument stay (left)
- 5. Instrument panel assembly
- 3. Steering member
- 6. Instrument stay (right)

Refer to  $\underline{\mbox{GI-4, "Components"}}$  for symbols in the figure.

# DISASSEMBLY



- Adapter
- Intake door motor
- Filter cover 7.
- 10. Intake lower case
- 13. Intake box (left)

- Intake box (right)
- Intake door link
- In-cabin microfilter
- 11. Blower motor assembly
- 14. Intake door 1

- Intake door lever 2
- 6. Intake door lever 1
- 12.
- 15. Intake door 2

#### **BLOWER UNIT**

## **BLOWER UNIT: Removal and Installation**

**REMOVAL** 

- 1. Remove instrument assist lower panel. Refer to IP-12, "Exploded View".
- 2. Disconnect ECM (1) connectors.
- 3. Remove mounting nuts (A), and then remove ECM with bracket attached.
- 4. Disconnect intake door motor (2) connector and blower motor
- 5. Remove mounting bolt (B) and screw (C), from blower unit (4).
- 6. Remove blower unit.

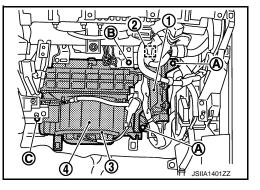
**CAUTION:** 

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

#### **INSTALLATION**

Installation is basically the reverse order of removal.

- 9. Intake upper case
- Seal



Н

Α

В

D

Е

INFOID:0000000004786059

Р

## **BLOWER UNIT**

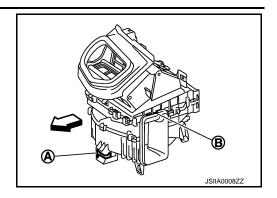
#### < REMOVAL AND INSTALLATION >

<⊅:

Vehicle front

#### **CAUTION:**

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



# **BLOWER MOTOR**

**BLOWER MOTOR:** Removal and Installation

INFOID:0000000004786060

## **REMOVAL**

- 1. Remove instrument lower cover. Refer to IP-12, "Exploded View".
- 2. Disconnect blower motor connector.
- 3. Remove mounting screws, and then remove blower motor assembly.

#### **INSTALLATION**

Installation is basically the reverse order of removal.