# SECTION GLASS & WINDOW SYSTEM C

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< PRECAUTION >

# PRECAUTION PRECAUTIONS

Precaution for Technicians Using Medical Electric

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## **OPERATION PROHIBITION**

#### WARNING:

- Parts with strong magnet is used in this vehicle.
- Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts.

#### NORMAL CHARGE PRECAUTION

#### WARNING:

- If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.
- As radiated electromagnetic wave generated by on board charger at normal charge operation may
  effect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not enter the vehicle compartment
  (including luggage room) during normal charge operation.

Precaution at telematics system operation

#### WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator(ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use.

Precaution at intelligent key system operation

#### WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of intelligent key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch operation, or at engine starting.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of intelligent key might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before intelligent key use.

Point to Be Checked Before Starting Maintenance Work

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The high voltage system may starts automatically. It is required to check that the timer air conditioner and timer charge (during EVSE connection) are not set before starting maintenance work. NOTE:

If the timer air conditioner or timer charge (during EVSE connection) is set, the high voltage system starts automatically even when the power switch is in OFF state.

## 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

## PRECAUTIONS

## < PRECAUTION >

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.

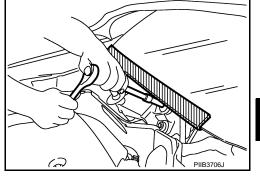
- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the power switch ON, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the power switch OFF, disconnect the 12V battery, and wait at least 3 minutes before performing any service.

## Precaution for Procedure without Cowl Top Cover

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

## Handling for Adhesive and Primer

- Do not use an adhesive which is past its usable date. Shelf life of this product is limited to six months after the date of manufacture. Carefully adhere to the expiration or manufacture date printed on the box.
- Keep primers and adhesive in a cool, dry place. Ideally, they should be stored in a refrigerator.
- Open the seal of the primer and adhesive just before application. Discard the remainder.
- Before application, be sure to shake the primer container to stir the contents. If any floating material is found, N do not use it.
- If any primer or adhesive contacts the skin, wipe it off with gasoline or equivalent and wash the skin with soap.
- When using primer and adhesive, always observe the precautions in the instruction manual.



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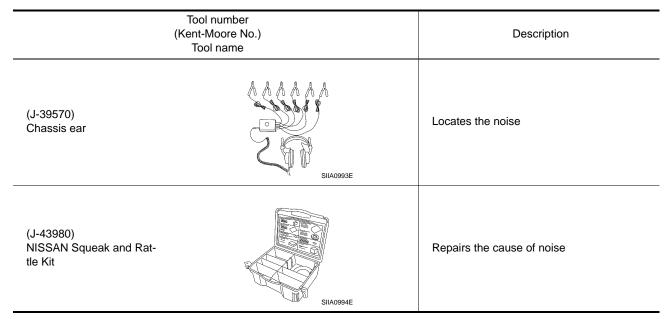
## < PREPARATION >

# PREPARATION PREPARATION

## Special Service Tools

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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.



# **Commercial Service Tools**

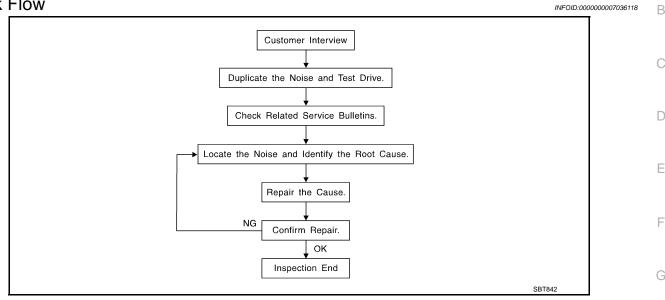
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	Tool name	Description
Engine ear	SIIA0995E	Locates the noise
Remover tool	ИЛ ЛАЛ ИМИАЗОБОДИ	Removes clips, pawls and metal clips

## < SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



## CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer comments. Refer to <u>GW-9</u>, "<u>Diagnostic Worksheet</u>". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a test drive with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so that the customer, service adviser, and technician use the same language when describing the noise.
- Squeak (Like tennis shoes on a clean floor)
   Squeak characteristics include the light contact / fast movement / brought on by road conditions / hard surfaces = high-pitched noise / softer surfaces = low-pitched noises / edge to surface = chirping
- Creak (Like walking on an old wooden floor)
   Creak characteristics include firm contact / slow movement/twisting with a rotational movement / pitch dependent on materials / often brought on by activity.
- Rattle (Like shaking a baby rattle) Rattle characteristics include fast repeated contact / vibration or similar movement / loose parts/missing clip or fastener / incorrect clearance.
- Knock (Like a knock on a door)
   Knock characteristics include hollow sounds / sometimes repeating / often brought on by driver action.
- Tick (Like a clock second hand)
   Tick characteristics include gentle contacting of light materials / loose components / can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise) Thump characteristics include softer knock / dull sounds often brought on by activity.
- Buzz (Like a bumblebee) Buzz characteristics include high frequency rattle / firm contact.
- Often the degree of acceptable noise level varies depending upon the person. A noise that a technician may judge as acceptable may be very irritating to a customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

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#### < SYMPTOM DIAGNOSIS >

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following items:

- 1) Close a door.
- 2) Tap or push/pull around the area where the noise appears to be coming from.
- 3) Rev the engine.
- 4) Use a floor jack to recreate vehicle "twist".
- 5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
- 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

#### CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to the concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

#### LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, engine ear, and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the component(s) in the area that is / are suspected to be the cause of the noise.
   Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component(s) that is / are suspected to be the cause of the noise. Do not tap or push/pull the component(s) with excessive force, otherwise the noise is eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is / are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks. Refer to <u>GW-7</u>, "Inspection Procedure".

#### REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- Separate components by repositioning or loosening and retightening the components, if possible.
- Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape, or urethane tape. A NISSAN Squeak and Rattle Kit (J-43980) is available through the authorized NISSAN Parts Department.

#### CAUTION:

# Never use excessive force as many components are constructed of plastic and may be damaged. NOTE:

Always check with the Parts Department for the latest parts information.

The following materials are contained in the NISSAN Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

- 76268-9E005: 100  $\times$  135 mm (3.937  $\times$  5.315 in)
- 76884-71L01: 60  $\times$  85 mm (2.362  $\times$  3.346 in)
- 76884-71L02: 15  $\times$  25 mm (0.591  $\times$  0.984 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

- 73982-9E000: 45 mm (1.772 in) thick, 50  $\times$  50 mm (1.969  $\times$  1.969 in)
- 73982-50Y00: 10 mm (0.394 in) thick, 50  $\times$  50 mm (1.969  $\times$  1.969 in)

INSULATOR (Light foam block)

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80845-71L00: 30 mm (1.181 in) thick, 30 \times 50 mm (1.181 \times 1.969in) FELT CLOTHTAPE
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## GW-6

## < SYMPTOM DIAGNOSIS >

< SYMPTOM DIAGNOSIS >	
Used to insulate where movement does not occur. Ideal for instrument panel applications. • 68370-4B000: $15 \times 25 \text{ mm} (0.591 \times 0.984 \text{ in}) \text{ pad}$ • 68239-13E00: 5 mm (0.197 in) wide tape roll	А
The following materials, not found in the kit, can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE Insulates where slight movement is present. Ideal for instrument panel applications.	В
SILICONE GREASE Used in place of UHMW tape that is visible or does not fit. Only lasts a few months. SILICONE SPRAY Used when grease cannot be applied.	С
DUCT TAPE Used to eliminate movement.	D
CONFIRM THE REPAIR After repair is complete, test drive the vehicle to confirm that the cause of noise is repaired by test driving the	D
vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.	Е
Inspection Procedure	F
Refer to Table of Contents for specific component removal and installation information.	F
INSTRUMENT PANEL Most incidents are caused by contact and movement between: 1. The cluster lid A and instrument panel	G
<ol> <li>Acrylic lens and combination meter housing</li> <li>Instrument panel to front pillar garnish</li> </ol>	Н
<ol> <li>Instrument panel to windshield</li> <li>Instrument panel mounting pins</li> <li>Wiring harnesses behind the combination meter</li> </ol>	I
7. A/C defroster duct and duct joint These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.	J
CAUTION: Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the	GW
recheck of repair becomes impossible.	1
CENTER CONSOLE Components to check include:	
<ol> <li>Shifter assembly cover to finisher</li> <li>A/C control unit and cluster lid C</li> </ol>	M
<ol> <li>Wiring harnesses behind audio and A/C control unit</li> </ol>	
The instrument panel repair and isolation procedures also apply to the center console.	Ν
DOORS Check the following items:	
<ol> <li>Finisher and inner panel making a slapping noise</li> <li>Inside handle escutcheon connection to door finisher</li> </ol>	0
3. Wiring harnesses tapping	Р
4. Door striker out of alignment causing a popping noise on starts and stops Tapping, moving the components, or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the NISSAN Squeak and Rattle Kit (J-43980) to repair the noise.	

## TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer. In addition check for the following items:

## GW-7

## < SYMPTOM DIAGNOSIS >

- 1. Trunk lid dumpers out of adjustment
- 2. Trunk lid striker out of adjustment
- 3. Trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing, or insulating the item(s) or component(s) causing the noise.

#### SUNROOF/HEADLINING

Noises in the sunroof / headlining area can often be traced to one of the following items:

- 1. Sunroof lid, rail, linkage, or seals making a rattle or light knocking noise
- 2. Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

#### SEATS

When isolating seat noise it is important to note the position the seat is in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.

Causes of seat noise include:

- 1. Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

#### UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

- 1. Any component mounted to the engine wall
- 2. Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- 4. Loose radiator mounting pins
- 5. Hood bumpers out of adjustment
- 6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move, or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

< SYMPTOM DIAGNOSIS >

## **Diagnostic Worksheet**



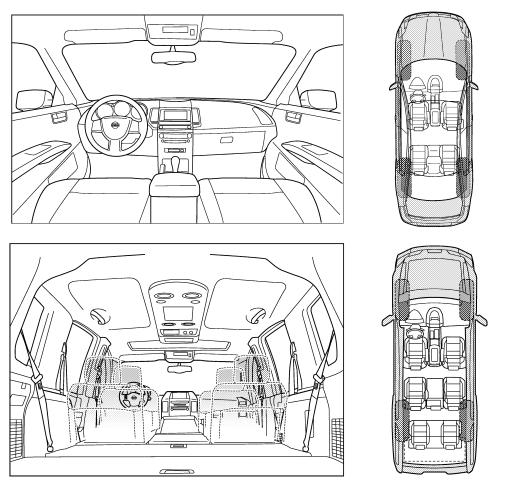
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

#### Dear Nissan Customer:

We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

## I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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#### < SYMPTOM DIAGNOSIS >

## SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please ch	leck the boxes that apply)
<ul> <li>anytime</li> <li>1st time in the morning</li> <li>only when it is cold outside</li> <li>only when it is hot outside</li> </ul>	<ul> <li>after sitting out in the rain</li> <li>when it is raining or wet</li> <li>dry or dusty conditions</li> <li>other:</li> </ul>
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE
<ul> <li>through driveways</li> <li>over rough roads</li> <li>over speed bumps</li> <li>only about mph</li> <li>on acceleration</li> <li>coming to a stop</li> <li>on turns: left, right or either (circle)</li> <li>with passengers or cargo</li> <li>other:</li> </ul>	<ul> <li>squeak (like tennis shoes on a clean floor)</li> <li>creak (like walking on an old wooden floor)</li> <li>rattle (like shaking a baby rattle)</li> <li>knock (like a knock at the door)</li> <li>tick (like a clock second hand)</li> <li>thump (heavy, muffled knock noise)</li> <li>buzz (like a bumble bee)</li> </ul>
after driving miles or m	inutes

#### TO BE COMPLETED BY DEALERSHIP PERSONNEL

**Test Drive Notes:** 

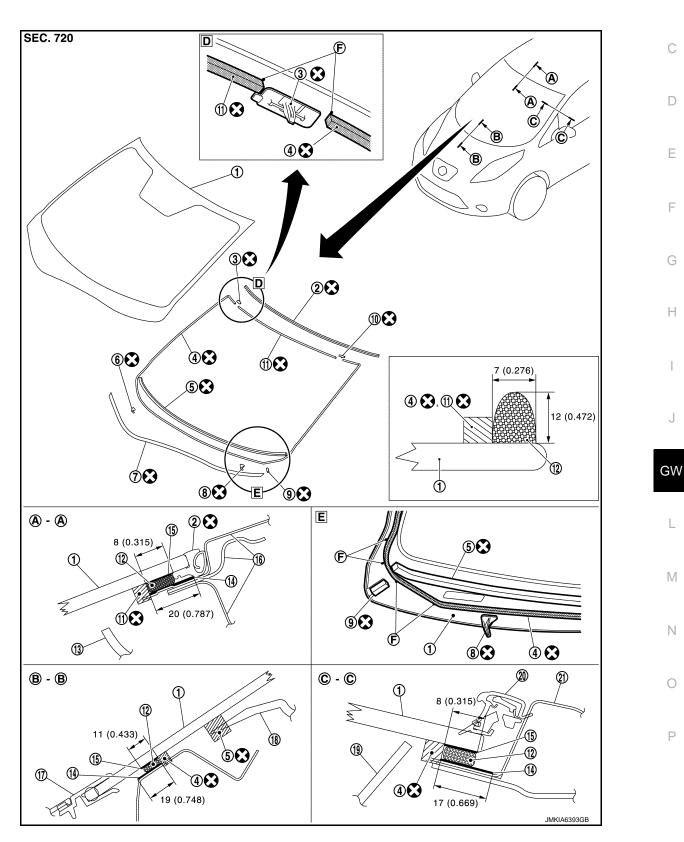
	YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair			
	tomer Na		

# < REMOVAL AND INSTALLATION > REMOVAL AND INSTALLATION WINDSHIELD GLASS

## **Exploded View**

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## WINDSHIELD GLASS

Windshield glass molding

Dam sealant rubber (upper)

20. Roof side molding assembly

Glass insulator

Lower clip LH

Body primer

17. Cowl top cover

## < REMOVAL AND INSTALLATION >

- 1. Windshield glass
- 4. Dam sealant rubber (lower)
- 7. Adhesive tape
- 10. Upper clip LH
- 13. Headlining assembly
- 16. Roof assembly
- 19. Front pillar finisher
- F : Black print mark

Unit: mm (in)

: Always replace after every disassembly.

## Removal and Installation

## **CAUTION:**

## Remove inside mirror only when windshield glass is not reusable.

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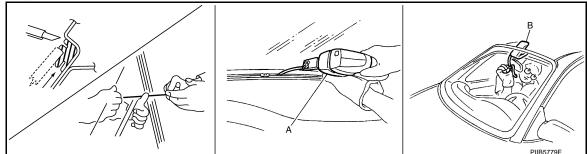
14.

## REMOVAL

- 1. Remove front pillar garnish (LH and RH). Refer to <u>INT-20, "FRONT PILLAR GARNISH : Removal and Installation"</u>.
- 2. Remove inside mirror assembly. Refer to <u>MIR-11, "Removal and Installation"</u>. CAUTION:

## Replace inside mirror assembly after removal, when installing new windshield glass.

- 3. Remove partially the headlining (front edge). Refer to INT-29, "Removal and Installation".
- 4. Remove roof side molding assembly. Refer to EXT-24, "Removal and Installation".
- 5. Remove front wiper arm (LH and RH). Refer to <u>WW-49. "Removal and Installation"</u>.
- 6. Remove front fender cover (LH and RH). Refer to EXT-17, "Removal and Installation".
- 7. Remove cowl top cover. Refer to EXT-17, "Removal and Installation".
- 8. Apply protective tape around the windshield glass to protect the painted surface from damage.
- Remove glass using piano wire or power cutting tool (A) and an inflatable pump bag (B) after removing moldings.



## NOTE:

Mark the body and the glass with matching marks if the windshield glass is reused.

## WARNING:

Always wear safety glasses and heavy gloves to help prevent injuries. CAUTION:

- Never use a cutting knife or power cutting tool when the glass is reused to prevent damage to the glass.
- Be careful not to scratch the glass when removing.
- Never set or stand the glass on its edge. Small chips may develop into cracks.

## INSTALLATION

- The dam sealant rubber should be installed in position.
- Use a genuine Nissan Urethane Adhesive Kit (if available) or an equivalent and follow the instructions provided with it.
- Open a door window while the urethane adhesive is curing. This prevents the glass from being forced out by passenger room air pressure when all door windows are closed.

## **GW-12**

## LEAF

- Upper clip RH
  - Lower clip RH
  - 9. Windshield lower spacer (Driver side only)
  - 12. Adhesive
  - 15. Glass primer
  - 18. Instrument panel assembly
  - 21. Body side outer panel

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## WINDSHIELD GLASS

#### < REMOVAL AND INSTALLATION >

• Inform the customer that the vehicle should remain stationary until the urethane adhesive is completely cured (approximately 24 hours). Curing time varies with temperature and humidity.

#### WARNING:

- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Never let them come in contact with the skin and eyes.
- Use in an open, well ventilated location. Never breathe the vapors. They may be harmful if inhaled. Move immediately to an area with fresh air if affected by vapor inhalation.
- Driving the vehicle before the urethane adhesive is completely cured may affect the performance of the windshield in an accident.

#### **CAUTION:**

- Perform adjustment of front wiper arms stop location. Refer to <u>WW-49, "Adjustment"</u>.
- Never use an adhesive that is past its usable term. Shelf life of this product is limited to six months after the date of manufacture. Adhere carefully to the expiration or manufacture date printed on the box.
- Keep primers and adhesive in a cool, dry place. Ideally, they should be stored in a refrigerator.
- Never leave primers or adhesive cartridge unattended with their caps open or off.
- The vehicle should not be driven for 24 hours or more or until the urethane adhesive is completely cured. Curing time varies depending on temperature and humidity. The curing time increases under lower temperature and lower humidity.

#### Inspection

REPAIRING WATER LEAKAGE FOR WINDSHIELD GLASS

Leakage can be repaired without removing the windshield glass.

Determine the extent of leakage if water is leaking between the urethane adhesive material and body or glass. H This can be done by applying water to the windshield area while pushing glass outward.

Apply primer (if necessary) and then urethane adhesive to the leakage point to stop the leakage.

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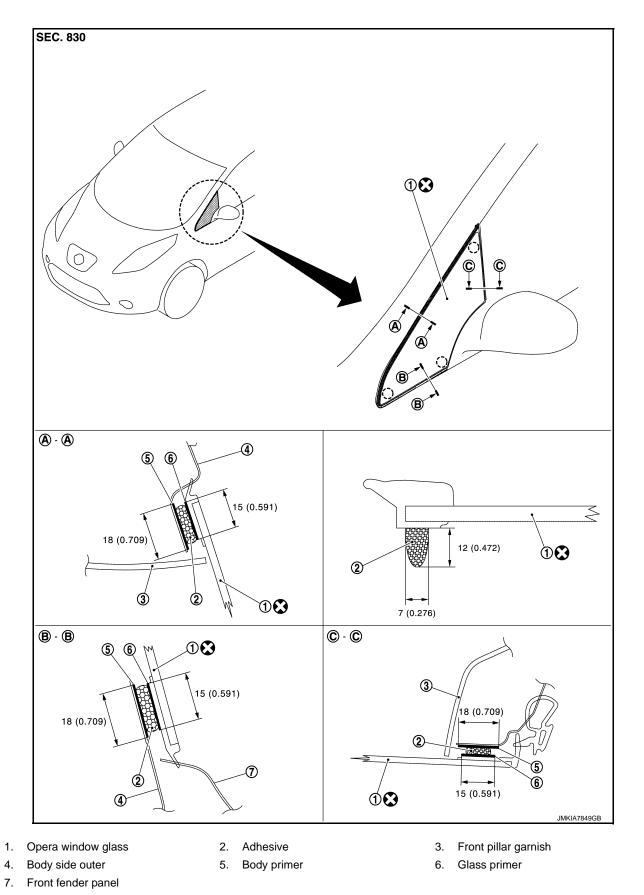
## **OPERA WINDOW**

## < REMOVAL AND INSTALLATION >

## OPERA WINDOW

# Exploded View

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Revision: 2010 November

GW-14

<pre>(`) : Clip Unit: mm (in)</pre>	А
Always replace after every disassembly.	
Removal and Installation	В
CAUTION: Replace the opera window glass assembly with a new part after removal as it cannot be reused.	С
REMOVAL	
<ol> <li>Remove front fender assembly. Refer to <u>DLK-151, "Removal and Installation"</u>.</li> <li>Remove front pillar garnish. Refer to <u>INT-20, "FRONT PILLAR GARNISH : Removal and Installation"</u>.</li> </ol>	D
<ol> <li>Remove the opera window glass using piano wire or power cutting tool and an inflatable pump bag.</li> </ol>	
WARNING:	Е
Always wear safety glasses and heavy gloves to help prevent injuries. CAUTION:	
<ul> <li>Never set or stand the glass on its edge. Small chips may develop into cracks.</li> <li>Apply protective tape around the opera window glass to protect the painted surface from dam-</li> </ul>	F
age.	
INSTALLATION	G
<ul> <li>Use a genuine Nissan Urethane Adhesive Kit (if available) or an equivalent and follow the instructions pro- vided with it.</li> </ul>	0
• Open a door window while the urethane adhesive is curing. This prevents the glass from being forced out by	
passenger room air pressure when all door windows are closed. • Inform the customer that the vehicle should remain stationary until the urethane adhesive is completely	Н
cured (approximately 24 hours). Curing time varies with temperature and humidity.	
WARNING:	
<ul> <li>Keep heat and open flames away as primers and adhesive are flammable.</li> <li>The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Never let</li> </ul>	
them come in contact with the skin and eyes.	J
<ul> <li>Use in an open, well ventilated location. Never breathe the vapors. They may be harmful if inhaled.</li> <li>Move immediately to an area with fresh air if affected by vapor inhalation.</li> </ul>	-
• Driving the vehicle before the urethane adhesive is completely cured may affect the performance of	0.44
the opera window glass in an accident. CAUTION:	GW
<ul> <li>Never use an adhesive that is past its usable term. Shelf life of this product is limited to six months after the date of manufacture. Adhere carefully to the expiration or manufacture date printed on the</li> </ul>	1
<ul> <li>box.</li> <li>Keep primers and adhesive in a cool, dry place. Ideally, they should be stored in a refrigerator.</li> </ul>	-
<ul> <li>Never leave primers or adhesive cartridge unattended with their caps open or off.</li> </ul>	
<ul> <li>The vehicle should not be driven for 24 hours or more or until the urethane adhesive is completely cured. Curing time varies depending on temperature and humidity. The curing time increases under lower temperature and lower humidity.</li> </ul>	Μ
	Ν
Inspection INFOID:000000006930140	
REPAIRING WATER LEAKAGE FOR OPERA WINDOW GLASS	-
Leakage can be repaired without removing the opera window glass.	0
Determine the extent of leakage if water is leaking between the urethane adhesive material and body or glass. This can be done by applying water to the opera window glass area while pushing glass outward.	
Apply primer (if necessary) and then urethane adhesive to the leakage point to stop the leakage.	Ρ

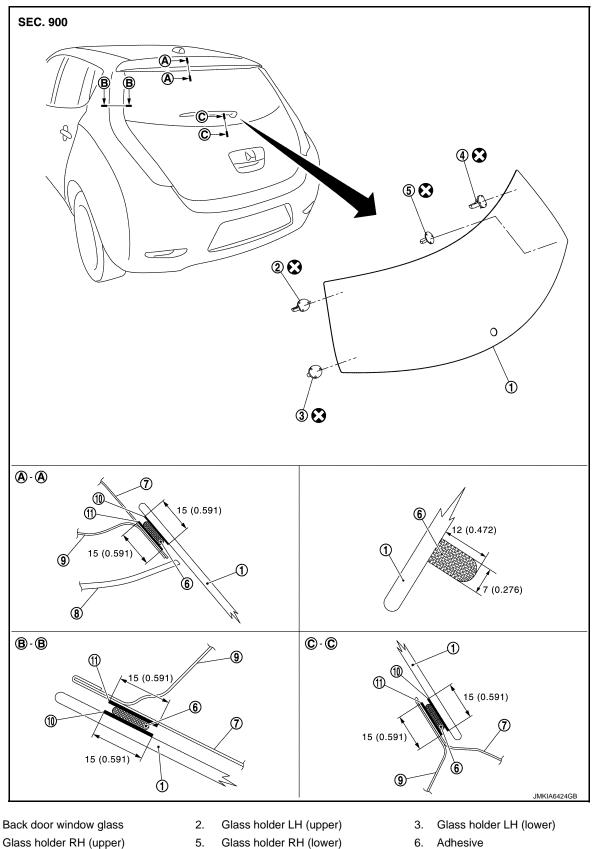
## **BACK DOOR WINDOW GLASS**

## < REMOVAL AND INSTALLATION >

## BACK DOOR WINDOW GLASS

## Exploded View

INFOID:000000006930141



4. Back door outer 7.

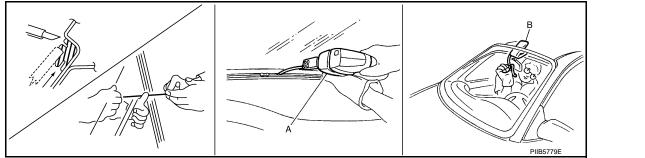
1.

- 5. Glass holder RH (lower)
- 8. Back door finisher
- 6.
  - 9. Back door inner

## **BACK DOOR WINDOW GLASS**

#### < REMOVAL AND INSTALLATION >

- Remove back door upper finisher. Refer to <u>INT-37, "BACK DOOR UPPER FINISHER : Removal and</u> <u>Installation"</u>.
- Remove back door side finisher (LH and RH). Refer to <u>INT-38, "BACK DOOR SIDE FINISHER : Removal</u> and Installation".
- 3. Remove back door lower finisher. Refer to <u>INT-39</u>, "BACK DOOR LOWER FINISHER : Removal and <u>Installation"</u>.
- 4. Remove rear wiper arm. Refer to WW-56, "Removal and Installation".
- 5. Remove rear spoiler. Refer to EXT-34, "Removal and Installation".
- 6. Remove the connectors and grounds for the back door window glass defogger.
- 7. Remove glass using piano wire or power cutting tool (A) and an inflatable pump bag (B) after removing molding using pliers.



## NOTE:

Mark the body and glass with a matching marks if the back door window glass is reused.

#### WARNING:

Always wear safety glasses and heavy gloves to help prevent injuries.

- CAUTION:
- Never use a cutting knife or power cutting tool when the back door window glass is reused, to prevent damage to the glass.
- Be careful not to scratch the glass when removing.
- Never set or stand the glass on its edge. Small chips may develop into cracks.

#### INSTALLATION

- Use a Genuine Nissan Urethane Adhesive Kit (if available) or an equivalent and follow the instructions provided with it.
- Open a door window while the urethane adhesive is curing. This prevents the glass from being forced out by passenger compartment air pressure when all door windows are closed.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive is completely cured (approximately 24 hours). Curing time varies with temperature and humidity.

#### WARNING:

- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Never let them come in contact with the skin and eyes.
- Use in an open, well ventilated location. Never breathe the vapors. They may be harmful if inhaled. Move immediately to an area with fresh air if affected by vapor inhalation.
- Driving the vehicle before the urethane adhesive is completely cured may affect the performance of the back door window glass in an accident.

#### **CAUTION:**

- Perform adjustment of rear wiper arm stop location. Refer to WW-56, "Adjustment".
- Never use an adhesive that is past its usable term. Shelf life of this product is limited to six months after the date of manufacture. Adhere carefully to the expiration or manufacture date printed on the box.

## **GW-17**

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## **BACK DOOR WINDOW GLASS**

#### < REMOVAL AND INSTALLATION >

- Keep primers and adhesive in a cool, dry place. Ideally, they should be stored in a refrigerator.
- Never leave primers or adhesive cartridge unattended with their caps open or off.
- The vehicle should not be driven for 24 hours or more or until the urethane adhesive is completely cured. Curing time varies depending on temperature and humidity. The curing time increases under lower temperature and lower humidity.

#### Inspection

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#### REPAIRING WATER LEAKAGE FOR BACK DOOR WINDOW GLASS

Leakage can be repaired without removing the glass.

Determine the extent of leakage if water is leaking between the urethane adhesive material and body or glass. This can be done by applying water to the back door window glass area while pushing glass outward.

Apply primer (if necessary) and then urethane adhesive to the leakage point to stop the leakage.

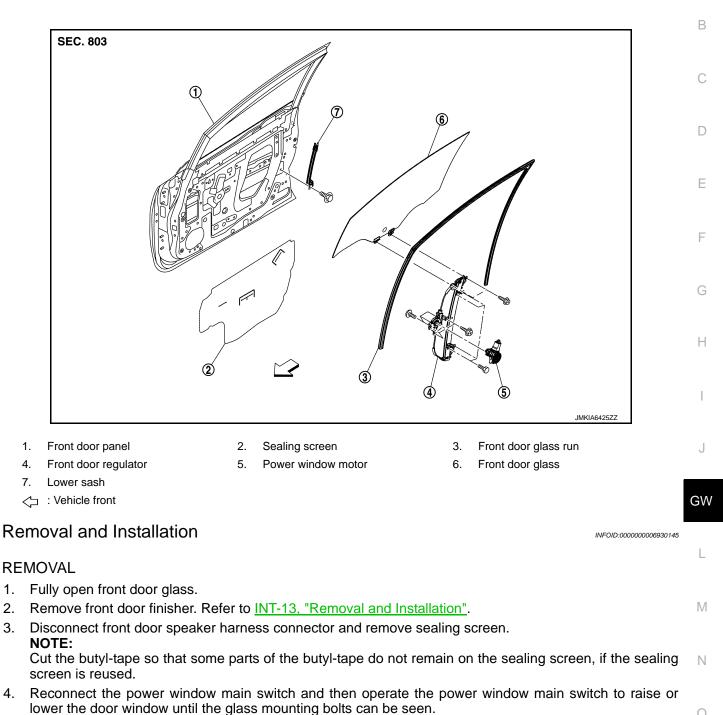
## < REMOVAL AND INSTALLATION >

## FRONT DOOR GLASS

## **Exploded View**

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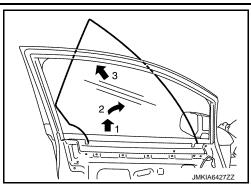


5. Remove the glass mounting bolts.

## FRONT DOOR GLASS

## < REMOVAL AND INSTALLATION >

6. Hold securely the front door glass and pull it out of the sash to remove the door glass as shown in the figure.



- 7. Remove lower sash.
- 8. Remove front door glass run.

#### **INSTALLATION**

Install in the reverse order of removal.

Inspection and Adjustment

INFOID:000000006930146

## SYSTEM INITIALIZATION

Initialize the system if any of the following work is complete. Refer to PWC-26, "Work Procedure".

## FITTING INSPECTION

- Check that the glass is fit securely into the sash groove.
- Lower the glass slightly [approximately 10 to 20 mm (0.394 to 0.787 in)], and check that the clearance to the sash is parallel. Loosen the regulator mounting bolts, guide rail mounting bolts, and glass and guide rail mounting bolts to correct the glass position if the clearance between the glass and sash is not parallel.

## FRONT REGULATOR

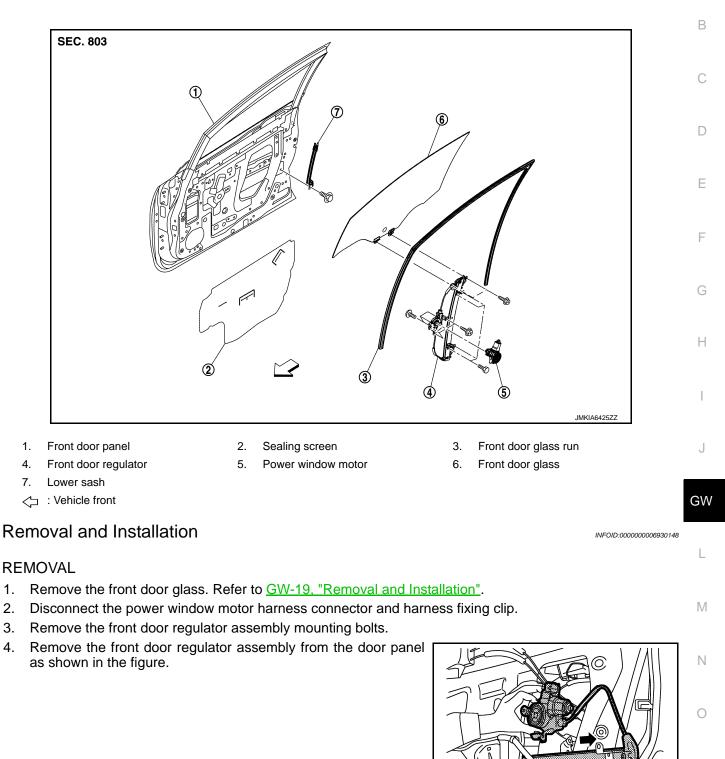
## < REMOVAL AND INSTALLATION >

# FRONT REGULATOR

## Exploded View

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INSTALLATION Install in the reverse order of removal. Â

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## FRONT REGULATOR

## < REMOVAL AND INSTALLATION >

## Disassembly and Assembly

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#### DISASSEMBLY

Remove the power window motor from the front door regulator.

#### **INSPECTION AFTER REMOVAL**

Check the front door regulator assembly for the following items. Replace or grease it if a malfunction is detected.

• Wire wear

Regulator deformation

#### ASSEMBLY

Assemble in the reverse order of disassembly.

## Inspection and Adjustment

INFOID:000000006930150

#### Inspection after removal

Check the front regulator for the following items. Replace or grease it if a malfunction is detected.

- Wire wear
- Front regulator deformation
- Grease condition for each sliding part

#### SYSTEM INITIALIZATION

Initialize the system if any of the following work is complete. Refer to <u>PWC-26, "Work Procedure"</u>.

#### FITTING INSPECTION

- Check that the glass is fit securely into the sash groove.
- Lower the glass slightly [approximately 10 to 20 mm (0.394 to 0.787 in)], and check that the clearance to the sash is parallel. Loosen the regulator mounting bolts, guide rail mounting bolts, and glass and guide rail mounting bolts to correct the glass position if the clearance between the glass and sash is not parallel.

## < REMOVAL AND INSTALLATION >

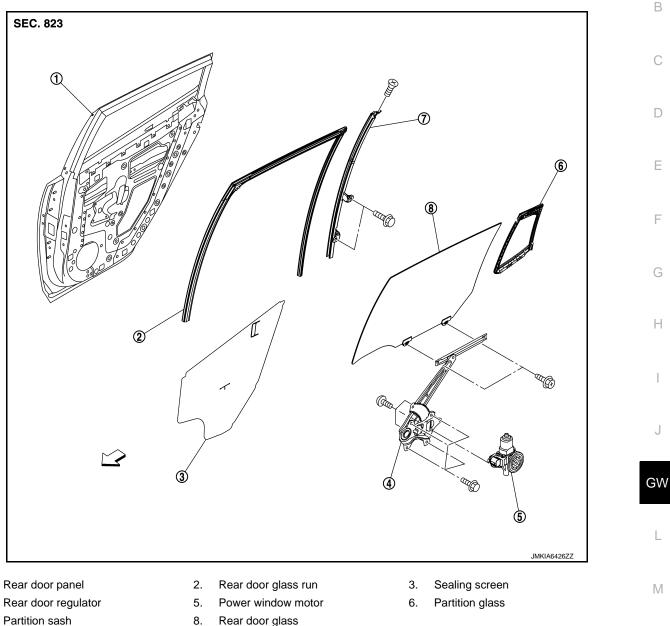
## **REAR DOOR GLASS**

## **Exploded View**

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- 7. Partition sash
- : Vehicle front

## Removal and Installation

#### REMOVAL

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4.

- Remove rear door finisher. Refer to INT-16, "Removal and Installation". 1.
- 2. Disconnect rear door speaker and remove the sealing screen. NOTE:

Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing screen is reused.

- 3. Fully open rear door glass.
- 4. Remove partition sash mounting bolts and screw.
- Reconnect the power window switch and then operate the power window switch to raise the door window 5. until the glass mounting bolts can be seen.

## **GW-23**

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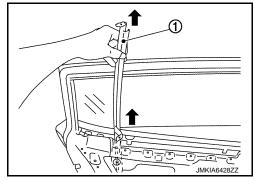
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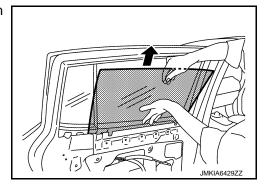
## **REAR DOOR GLASS**

## < REMOVAL AND INSTALLATION >

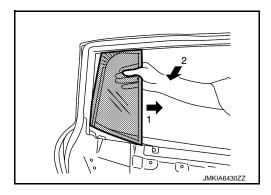
- 6. Remove slightly the glass mounting bolts.
- 7. Operate the power window switch to lower the rear door glass.
- 8. Remove rear door glass run from partition sash.
- 9. Pull partition sash (1) out of the rear door panel as shown in the figure to remove.



10. Remove rear door glass from the rear door panel as shown in the figure.



- 11. Remove partition glass.
- a. Slide partition glass toward the direction of arrow 1.
- b. Pull partition glass toward the direction of arrow 2 to remove.



INSTALLATION Install in the reverse order of removal.

## Inspection and Adjustment

INFOID:000000006930153

#### FITTING INSPECTION

- Check that the glass is fit securely into the sash groove.
- Lower the glass slightly [approximately 10 to 20 mm (0.394 to 0.787 in)], and check that the clearance to the sash is parallel. Loosen the regulator mounting bolts, guide rail mounting bolts, and glass and guide rail mounting bolts to correct the glass position if the clearance between the glass and sash is not parallel.

## **REAR REGULATOR**

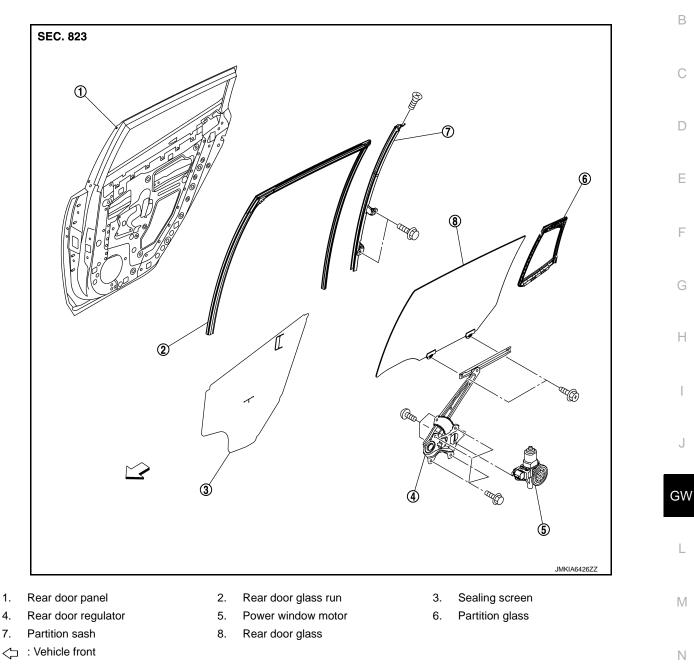
## < REMOVAL AND INSTALLATION >

# REAR REGULATOR

## Exploded View

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## Removal and Installation

#### REMOVAL

- 1. Remove rear door glass. Refer to <u>GW-23. "Removal and Installation"</u>.
- 2. Disconnect the power window motor harness connector.

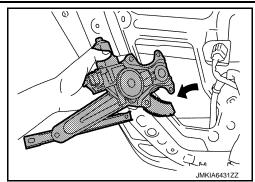
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## **REAR REGULATOR**

## < REMOVAL AND INSTALLATION >

3. Remove the rear door regulator assembly mounting bolts and nuts, and then remove rear door regulator assembly from door panel as shown in the figure.



INSTALLATION Install in the reverse order of removal.

## **Disassembly and Assembly**

DISASSEMBLY

Remove the power window motor from the rear door regulator.

#### INSPECTION AFTER REMOVAL

Check the rear door regulator assembly for the following items. Replace or grease it if a malfunction is detected.

- Wire wear
- Regulator deformation

#### ASSEMBLY

Assemble in the reverse order of disassembly.

Inspection and Adjustment

INFOID:000000006930157

INFOID:000000006930156

#### Inspection after removal

Check the rear regulator assembly for the following items. Replace or grease it if a malfunction is detected.

- Wire wear
- Rear regulator deformation
- Grease condition for each sliding part

## FITTING INSPECTION

- Check that the glass is fit securely into the sash groove.
- Lower the glass slightly [approximately 10 to 20 mm (0.394 to 0.787 in)], and check that the clearance to the sash is parallel. Loosen the regulator mounting bolts, guide rail mounting bolts, and glass and guide rail mounting bolts to correct the glass position if the clearance between the glass and sash is not parallel.