

SECTION **GW** GLASS & WINDOW 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"

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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:

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.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

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CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- Before removing and installing any control units, first turn the ignition power source and accessory power source to the OFF, 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 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.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Open driver door.
3. Turn the ignition switch to the ON position.
(At this time, the steering lock will be released.)
4. Turn the ignition switch to OFF position with driver door open.
5. Wait for 3 minutes or longer with driver door open.

NOTE:

- Do not close driver door because the steering wheel locks when driver door is closed.

PRECAUTIONS

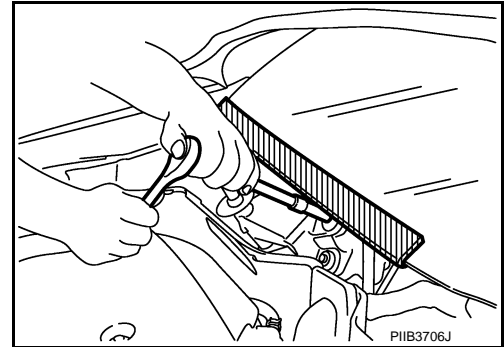
< PRECAUTION >

- The auto acc function is adapted to this vehicle. For this reason, even when the ignition switch is turned to OFF position, the accessory power source does not turned OFF and continues to be supplied for a certain amount of time.
6. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
 7. Perform the necessary repair operation.
 8. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from OFF position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
 9. Perform self-diagnosis check of all control units using CONSULT.

Precaution for Procedure without Cowl Top Cover

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



Precautions for Removing Battery Terminal

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- With the adoption of Auto ACC function, ACC power is automatically supplied by operating the intelligent key or remote keyless entry or by opening/closing the driver side door. In addition, ACC power is supplied even after the ignition switch is turned to the OFF position, i.e. ACC power is supplied for a certain fixed time.
- When disconnecting the 12V battery terminal, turn off the ACC power before disconnecting the 12V battery terminal, observing "How to disconnect 12V battery terminal" described below.

NOTE:

Some ECUs operate for a certain fixed time even after ignition switch is turned OFF and ignition power supply is stopped. If the battery terminal is disconnected before ECU stops, accidental DTC detection or ECU data damage may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

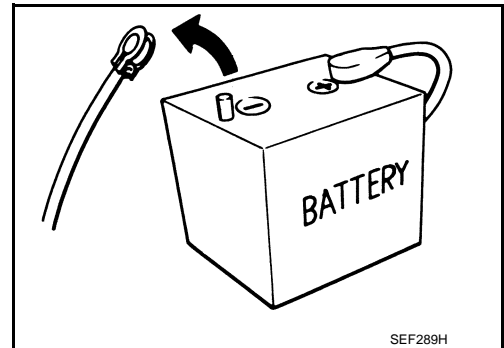
NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

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



HOW TO DISCONNECT 12V BATTERY TERMINAL

Disconnect 12V battery terminal according to Instruction 1 or Instruction 2 described below.

For vehicles parked by ignition switch OFF, refer to Instruction 2.

INSTRUCTION 1

1. Open the hood.
2. Turn key switch to the OFF position with the driver side door opened.
3. Get out of the vehicle and close the driver side door.
4. Wait at least 3 minutes. For vehicle with the engine listed below, remove the battery terminal after a lapse of the specified time.

D4D engine : 20 minutes

HRA2DDT : 12 minutes

PRECAUTIONS

< PRECAUTION >

- K9K engine : 4 minutes
- M9R engine : 4 minutes
- R9M engine : 4 minutes
- V9X engine : 4 minutes

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

5. Remove 12V battery terminal.

CAUTION:

After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

INSTRUCTION 2 (FOR VEHICLES PARKED BY IGNITION SWITCH OFF)

1. Unlock the door with intelligent key or remote keyless entry.

NOTE:

At this moment, ACC power is supplied.

2. Open the driver side door.
3. Open the hood.
4. Close the driver side door.
5. Wait at least 3 minutes.

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

6. Remove 12V battery terminal.

CAUTION:

After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

Handling for Adhesive and Primer

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- 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, 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

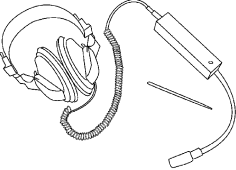
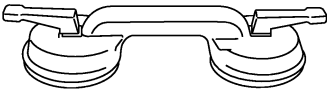
< PREPARATION >

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000010755093

Tool name	Description
<div>Engine ear</div> <div></div> <div>SIIA0995E</div>	<div>Locates the noise</div>
<div>Suction lifter</div> <div></div> <div>PIIB1805J</div>	<div>Holds the windshield glass and back door window glass</div>

SQUEAK AND RATTLE TROUBLE DIAGNOSES

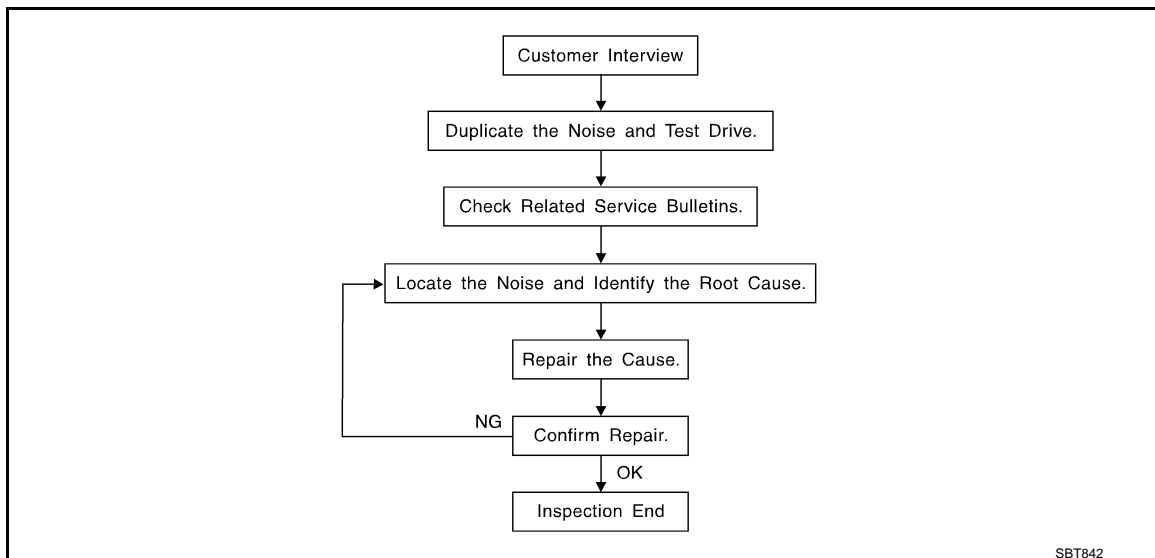
< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

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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 of the customer's comments; refer to [GW-11, "Diagnostic Worksheet"](#). 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, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by 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 the customer, service adviser and technician are all speaking the same language when defining 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 = higher pitch noise/softer surfaces = lower pitch 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 the 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 sounding/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/dead sound often brought on by activity.
- Buzz – (Like a bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< 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:

- 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 model, drive position on A/T model).
 - 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.

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 (Engine Ear or mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - Removing the components 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 fastener can be broken or lost during the repair, resulting in the creation of new noise.
 - Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be 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 is are suspected to be the cause of the noise.
 - Looking for loose components and contact marks.
Refer to [GW-9, "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 component, if possible.
 - Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. These insulators are available through the authorized Nissan Parts Department.

CAUTION:

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

NOTE:

- URETHANE PADS
Insulates connectors, harness, etc.
- INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
- INSULATOR (Light foam block)
- FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
The following materials, not available through NISSAN Parts Department, can also be used to repair squeaks and rattles.
- UHMW(TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.
- SILICONE GREASE
Used in place of UHMW tape that is be visible or does not fit.
Note: Will only last a few months.
- SILICONE SPRAY
Used when grease cannot be applied.
- DUCT TAPE
Used to eliminate movement.

CONFIRM THE REPAIR

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

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Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. Cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
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.

CAUTION:

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the following:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or 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 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 look for the following:

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:

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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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.

Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. 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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

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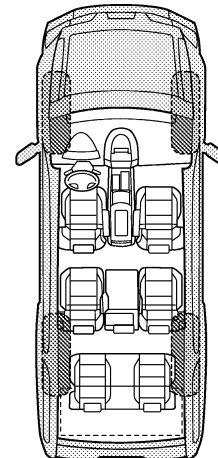
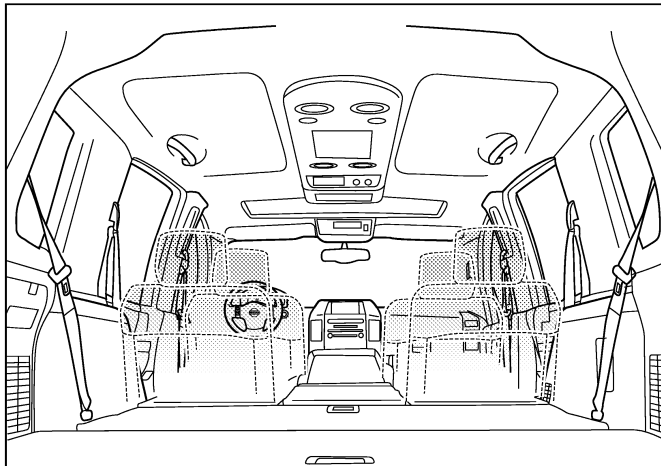
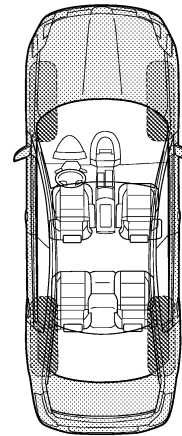
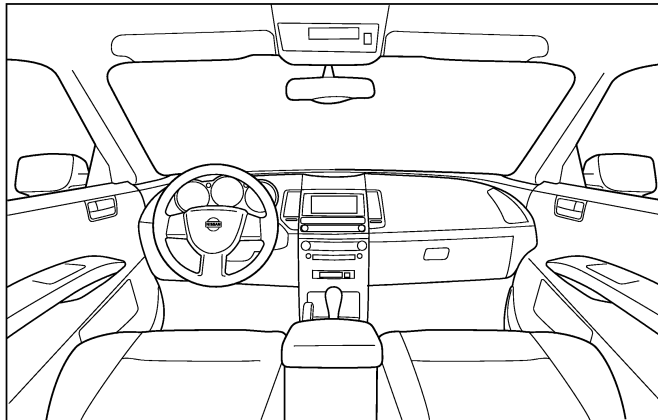
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| <input type="checkbox"/> anytime | <input type="checkbox"/> after sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> when it is raining or wet |
| <input type="checkbox"/> only when it is cold outside | <input type="checkbox"/> dry or dusty conditions |
| <input type="checkbox"/> only when it is hot outside | <input type="checkbox"/> other: |

III. WHEN DRIVING:

- ☐ through driveways
- ☐ over rough roads
- ☐ over speed bumps
- ☐ only about ____ mph
- ☐ on acceleration
- ☐ coming to a stop
- ☐ on turns: left, right or either (circle)
- ☐ with passengers or cargo
- ☐ other: _____
- ☐ after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- ☐ squeak (like tennis shoes on a clean floor)
- ☐ creak (like walking on an old wooden floor)
- ☐ rattle (like shaking a baby rattle)
- ☐ knock (like a knock at the door)
- ☐ tick (like a clock second hand)
- ☐ thump (heavy, muffled knock noise)
- ☐ buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

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WINDSHIELD GLASS

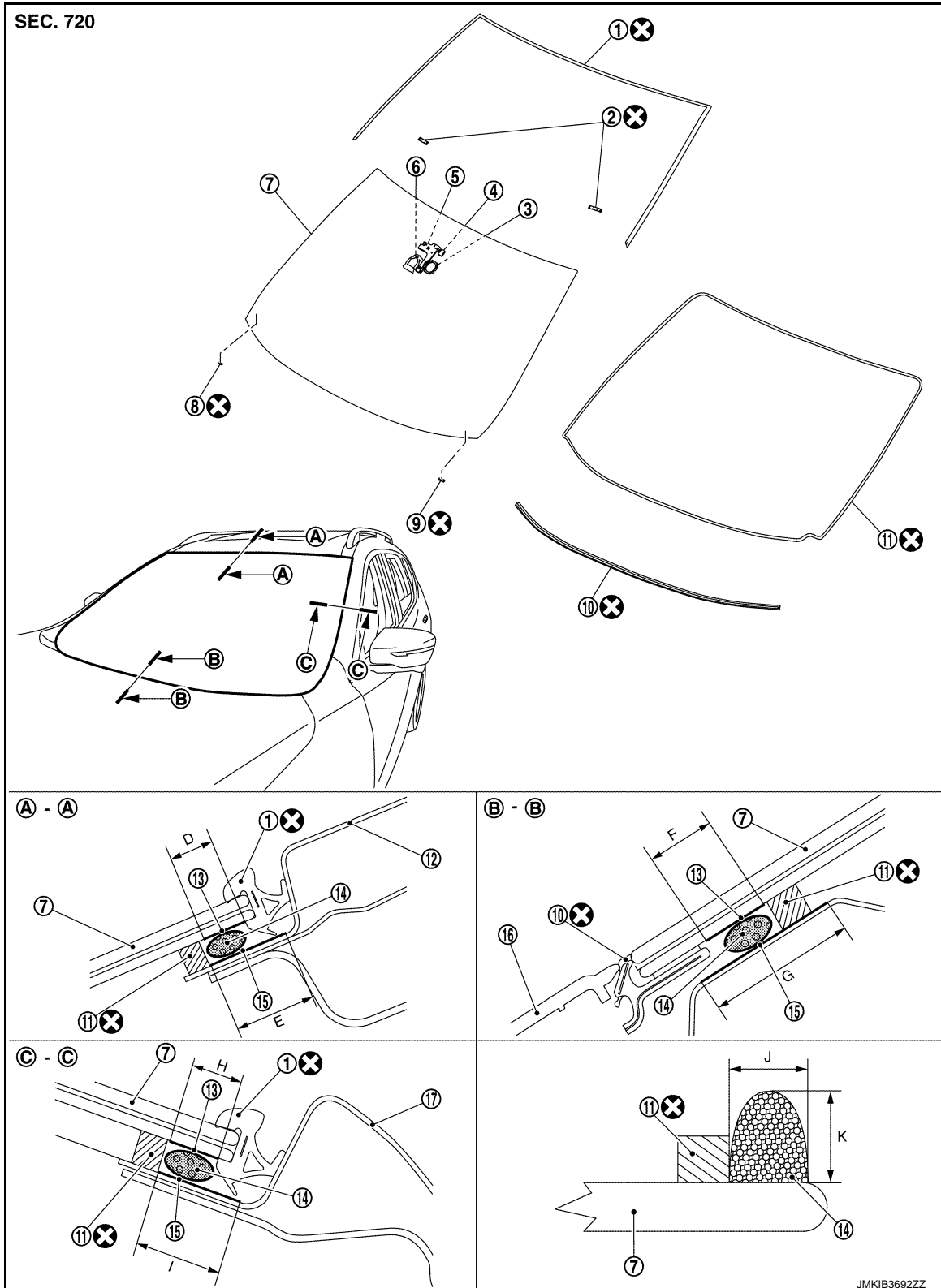
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REMOVAL AND INSTALLATION

WINDSHIELD GLASS

Exploded View

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WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

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|----------------------------------|---|--|
| ① Windshield glass upper molding | ② Windshield glass upper spacer | ③ Light & rain sensor bracket* ¹ |
| ④ Inside mirror base | ⑤ Camera/sensor cover bracket 1* ² | ⑥ Front camera unit bracket 2* ² |
| ⑦ Windshield glass | ⑧ Windshield glass lower spacer RH | ⑨ Windshield glass lower spacer LH* ³ |
| ⑩ Windshield glass lower molding | ⑪ Dam sealant rubber | ⑫ Roof panel |
| ⑬ Glass primer | ⑭ Adhesive | ⑮ Painted surface primer |
| ⑯ Cowl top cover | ⑰ Body side outer panel | |

⊗ : Always replace after every disassembly.

*¹: With light & rain sensor

*²: With front camera unit

*³: If equipped

Unit: mm (in)

Portion			Primer range	Adhesive range	
				J	K
Windshield glass – Roof panel	Ⓐ – Ⓐ	D	16.0 (0.630)	7.0 (0.276)	12.0 (0.472)
		E	22.0 (0.866)	—	—
Windshield glass – Cowl top cover	Ⓑ – Ⓑ	F	16.0 (0.630)	7.0 (0.276)	12.0 (0.472)
		G	22.0 (0.866)	—	—
Windshield glass – Body side outer panel	Ⓒ – Ⓒ	H	14.0 (0.551)	7.0 (0.276)	12.0 (0.472)
		I	22.0 (0.866)	—	—

Removal and Installation

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REMOVAL

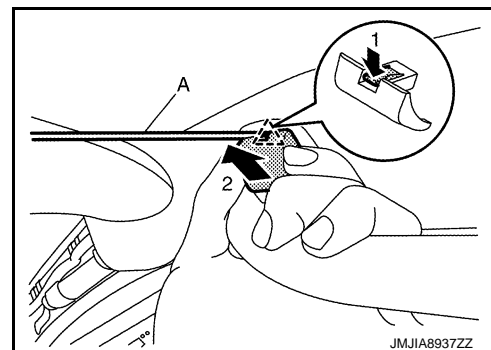
Replacement Windshield Glass

CAUTION:

Never damage windshield glass and body panel.

1. Remove all assist grips.
 - a. Disengage assist grip cap fixing pawl using a remover tool (A), and then slide assist grip cap and remove it according to numerical order 1→2 indicated by the arrows as shown in the figure.

△ : Pawl




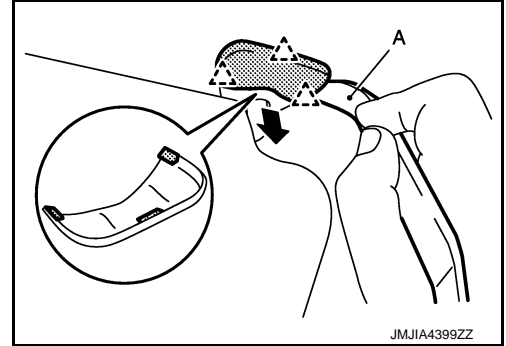
- b. Disengage assist grip fixing metal clips, and then remove assist grip.
2. Remove center pillar upper garnish (LH and RH). Refer to [INT-28, "CENTER PILLAR UPPER GARNISH : Removal and Installation"](#).

WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

3. Remove front pillar garnish (LH and RH). Refer to [INT-23. "FRONT PILLAR GARNISH : Removal and Installation"](#).
4. Remove light & rain sensor. Refer to [WW-109. "Removal and Installation"](#). (With light & rain sensor)
5. Remove front camera unit. Refer to [DAS-149. "Removal and Installation"](#).
6. Remove inside mirror. Refer to [MIR-25. "Removal and Installation"](#).
7. Remove map lamp assembly. Refer to [INL-76. "MAP LAMP : Removal and Installation"](#).
8. Remove sun visor assembly (LH and RH).
- a. Disengage sun visor cover fixing pawls using a remover tool (A), and then remove sun visor cover (LH and RH).

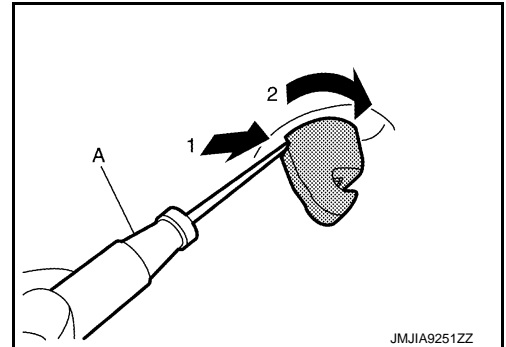
 : Pawl



- b. Remove sun visor assembly fixing screws, and then disconnect vanity mirror lamp harness connector. (With vanity mirror lamp)
- c. Remove sun visor assembly (LH and RH).
9. Remove sun visor holder (LH and RH) using a remover tool (A) according to numerical order 1→2 indicated by the arrows as shown in the figure.

CAUTION:

Use a remover tool wrapped in tape.

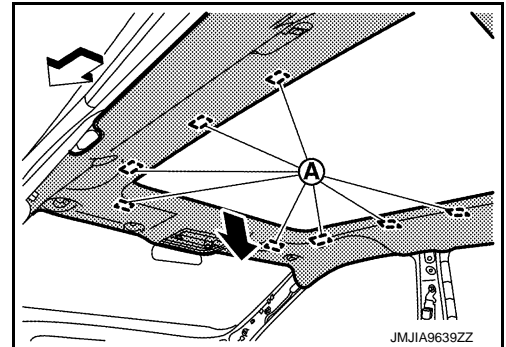


10. Disengage dual lock fasteners (A) between headlining assembly and roof panel. (With sunroof)

CAUTION:

Never bend headlining when removing.

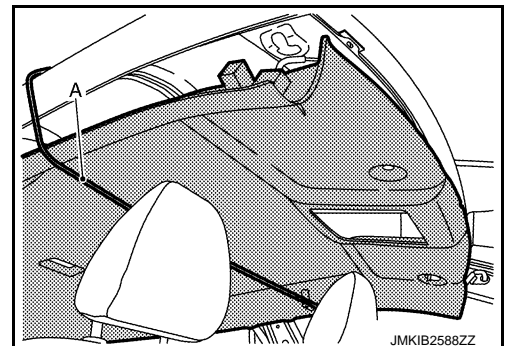
 : Vehicle front



11. Remove front portion of headlining assembly from roof panel.

CAUTION:

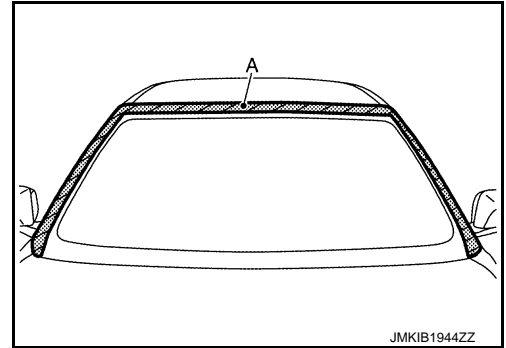
To prevent damage of the headlining assembly, hold it by using a rope (A) or belt.



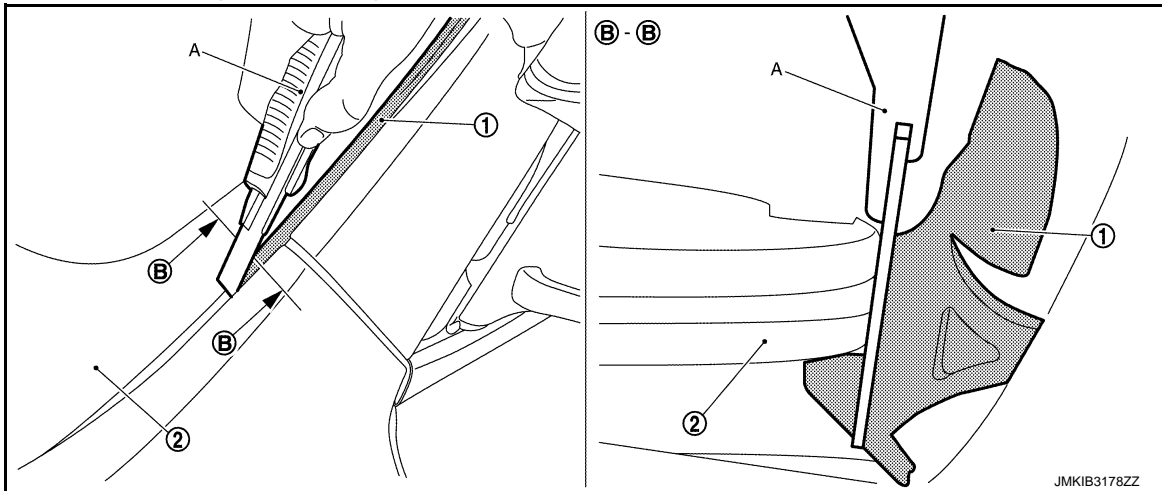
WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

12. Remove roof side molding (LH and RH). Refer to [EXT-46. "Removal and Installation"](#).
13. Remove cowl top cover. Refer to [EXT-25. "Removal and Installation"](#).
14. Apply protective tape (A) on roof panel and body side outer panel around windshield glass to protect painted surface from damage.



15. Remove windshield glass molding ①.



CAUTION:

- Be careful not to cut hands by a cutter knife (A).
- Never scratch body panel by a cutter knife.
- Remove windshield glass molding left on vehicle using a pliers etc..

NOTE:

Use a cutter knife along the windshield glass ② as shown in the figure, cut the bottom of windshield glass molding.

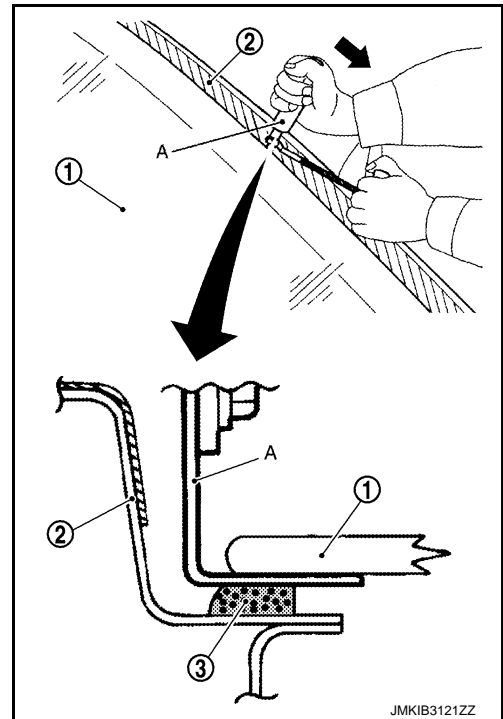
WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

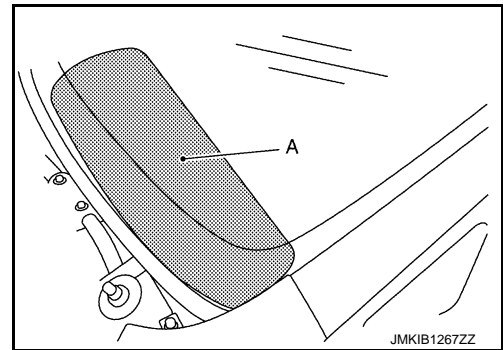
16. Insert a windshield cutter (A) between windshield glass ① and body panel ②. Remove adhesive ③ by pulling the windshield cutter, keeping the tip parallel to the edge of windshield glass.

CAUTION:

Use piano wire to cut sealant if its difficult to use windshield cutter.



17. Apply protective standish cover (A) on instrument panel to protect it from damage.

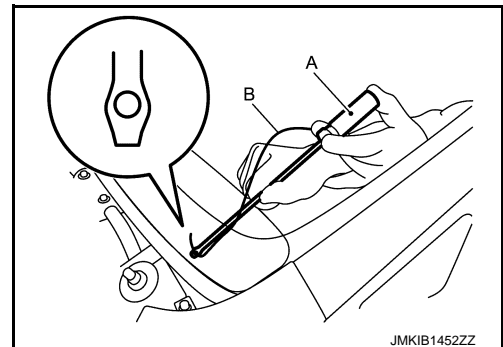


18. Remove adhesive using a piano wire.

- a. Pass the piano wire (B) from passenger room to bonded area of glass using a wire pierce (A).

CAUTION:

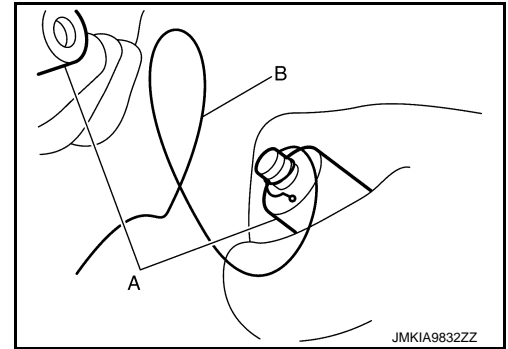
- Never use plane surface of wire pierce tip vertically.
- Never press piano wire excessively against edge of glass.
- Never damage surrounding parts.



WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

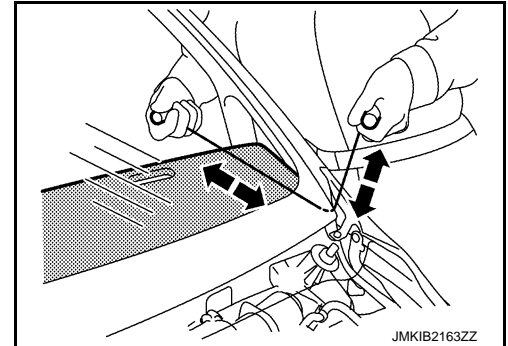
- b. Tie both ends of the piano wire (B) to the wire grip (A), etc..



- c. Remove adhesive by using piano wire alongside of windshield glass and body panel.

CAUTION:

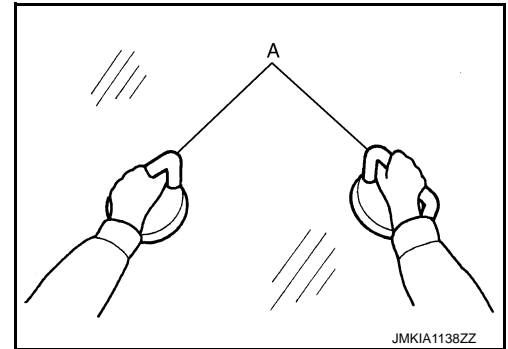
- Never press piano wire excessively against edge of glass.
- Remove adhesive, 2 workers are required by all means.



19. Use rubber suction cups or suction lifter (A), etc. to remove windshield glass from the vehicle.

CAUTION:

Due to weight of windshield glass, 2 workers are required by all means.



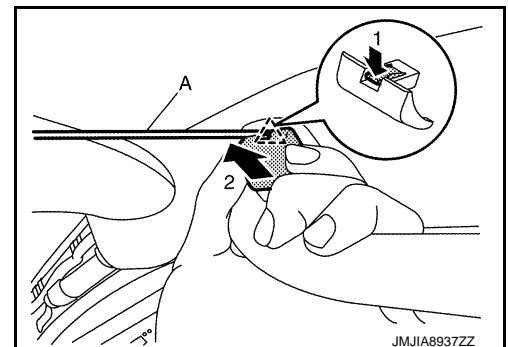
Reuse Windshield Glass

CAUTION:

- Never use a windshield cutter if the windshield glass is reused. (It may scratch the glass surface)
- Never damage windshield glass and body panel.

1. Remove all assist grips.
- a. Disengage assist grip cap fixing pawl using a remover tool (A), and then slide assist grip cap and remove it according to numerical order 1→2 indicated by the arrows as shown in the figure.

△ : Pawl




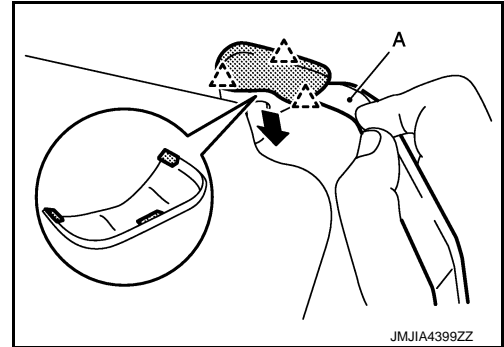
- b. Disengage assist grip fixing metal clips, and then remove assist grip.
2. Remove center pillar upper garnish (LH and RH). Refer to [INT-28. "CENTER PILLAR UPPER GARNISH : Removal and Installation"](#).
3. Remove front pillar garnish (LH and RH). Refer to [INT-23. "FRONT PILLAR GARNISH : Removal and Installation"](#).

WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

4. Remove light & rain sensor cover. Refer to [WW-109, "Removal and Installation"](#).
5. Remove front camera unit. Refer to [DAS-149, "Removal and Installation"](#).
6. Remove map lamp assembly. Refer to [INL-76, "MAP LAMP : Removal and Installation"](#).
7. Remove sun visor assembly (LH and RH).
 - a. Disengage sun visor cover fixing pawls using a remover tool (A), and then remove sun visor cover (LH and RH).

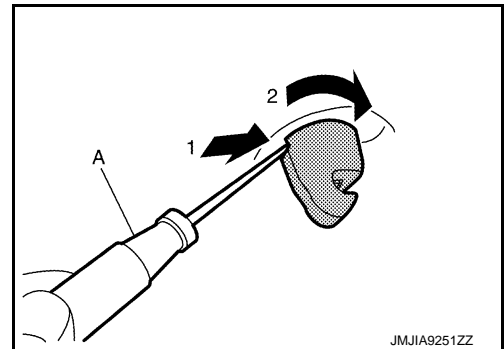
 : Pawl



- b. Remove sun visor assembly fixing screws, and then disconnect vanity mirror lamp harness connector. (With vanity mirror lamp)
 - c. Remove sun visor assembly (LH and RH).
8. Remove sun visor holder (LH and RH) using a remover tool (A) according to numerical order 1→2 indicated by the arrows as shown in the figure.

CAUTION:

Use a remover tool wrapped in tape.

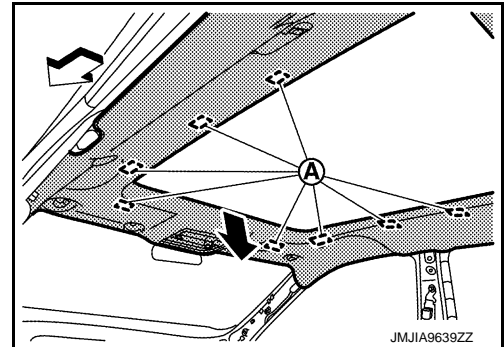


9. Disengage dual lock fasteners ① between headlining assembly and roof panel. (With sunroof)

CAUTION:

Never bend headlining when removing.

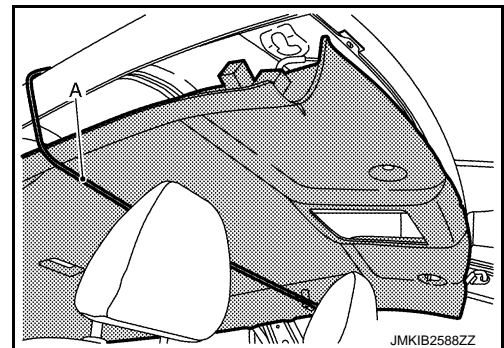
 : Vehicle front



10. Remove front portion of headlining assembly from roof panel.

CAUTION:

To prevent damage of the headlining assembly, hold it by using a rope (A) or belt.

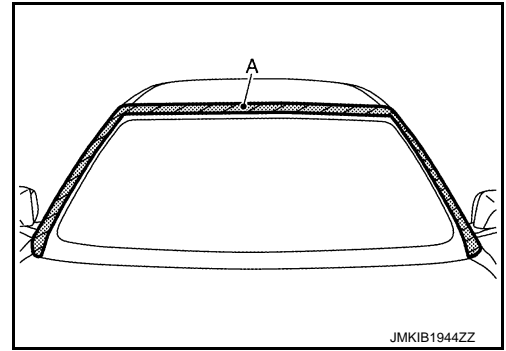


11. Remove roof side molding (LH and RH). Refer to [EXT-46, "Removal and Installation"](#).
12. Remove cowl top cover. Refer to [EXT-25, "Removal and Installation"](#).

WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

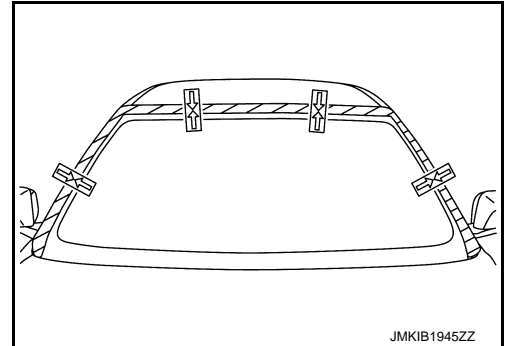
13. Apply protective tape (A) on roof panel and body side outer panel around windshield glass to protect painted surface from damage.



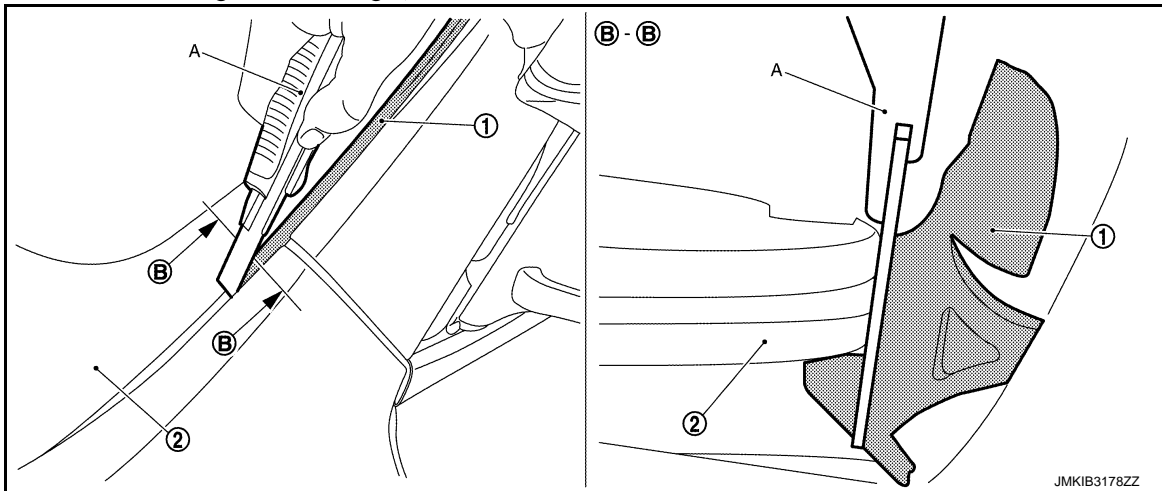
14. Apply matching marks to windshield glass, roof panel and both side of body side outer panel.

CAUTION:

To prevent the gap when install windshield glass put on matching marks by all means.



15. Remove windshield glass molding ①.



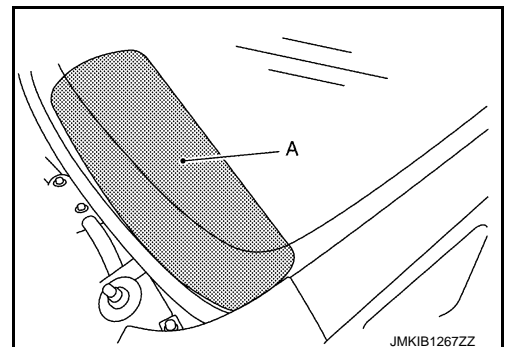
CAUTION:

- Be careful not to cut hands by a cutter knife (A).
- Never scratch body panel by a cutter knife.
- Remove windshield glass molding left on vehicle using a pliers etc..

NOTE:

Use a cutter knife along the windshield glass ② as shown in the figure, cut the bottom of windshield glass molding.

16. Apply protective standish cover (A) on instrument panel to protect it from damage.



WINDSHIELD GLASS

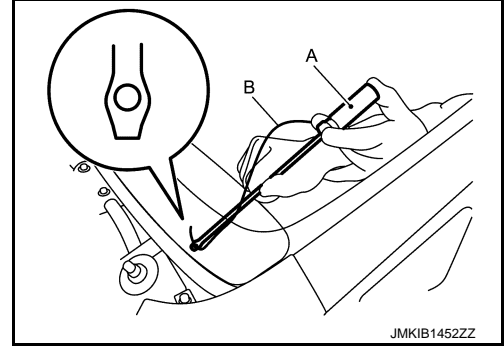
< REMOVAL AND INSTALLATION >

17. Remove adhesive using a piano wire.

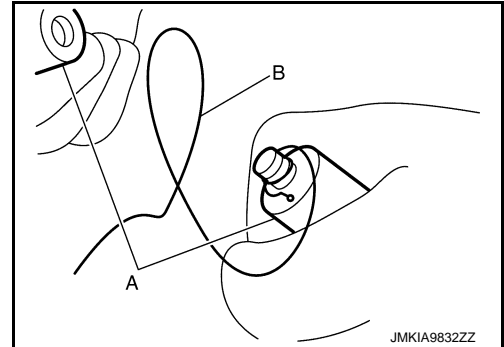
- a. Pass the piano wire (B) from passenger room to bonded area of glass using a wire pierce (A).

CAUTION:

- Never use plane surface of wire pierce tip vertically.
- Never press piano wire excessively against edge of glass.
- Never damage surrounding parts.



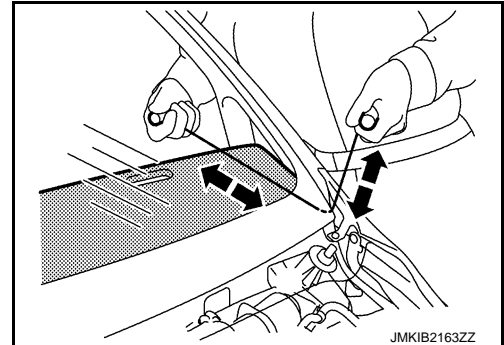
- b. Tie both ends of the piano wire (B) to the wire grip (A), etc..



- c. Remove adhesive by using piano wire alongside of windshield glass and body panel.

CAUTION:

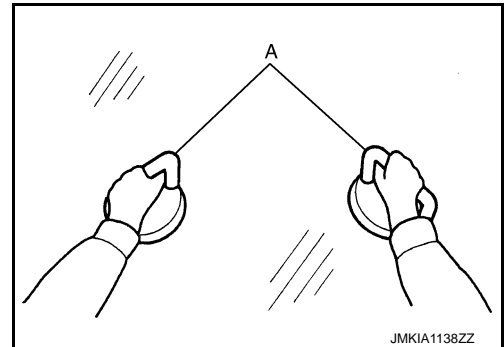
- Never press piano wire excessively against edge of glass.
- Remove adhesive, 2 workers are required by all means.



18. Use rubber suction cups or suction lifter (A), etc. to remove windshield glass from the vehicle.

CAUTION:

Due to weight of windshield glass, 2 workers are required by all means.



INSTALLATION

Replacement Windshield Glass

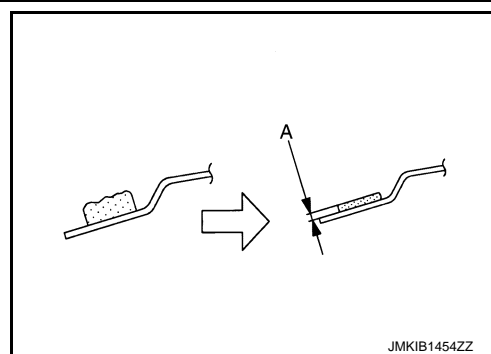
WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

1. Use a cutter knife or scraper, and leave the of adhesive and sealant on the body side approximately 2 mm (0.079 in) (A) to make adhesive and sealant surface smooth.

CAUTION:

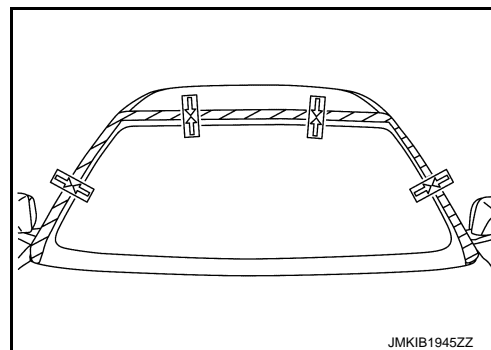
- If the bonded area on the body is scratched, repair it using a 2 liquid type urethane paint. Never use lacquer type paint.
- Smooth out adhesive and sealant surface.



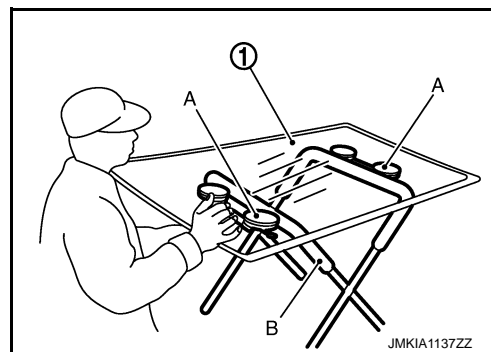
2. Place new windshield glass on the vehicle temporarily, put on matching marks on windshield glass, roof panel and both side of body side outer panel.

CAUTION:

To prevent the gap when install new windshield glass put on matching marks by all means.



3. Use suction lifter (A) or rubber suction cups to set windshield glass ① on glass stand (B).



4. Clean the bonded area on windshield glass and body panel side using a white gasoline or degreasing agent.
5. Install new windshield glass lower molding, new windshield glass spacers and new windshield glass upper molding to new windshield glass.

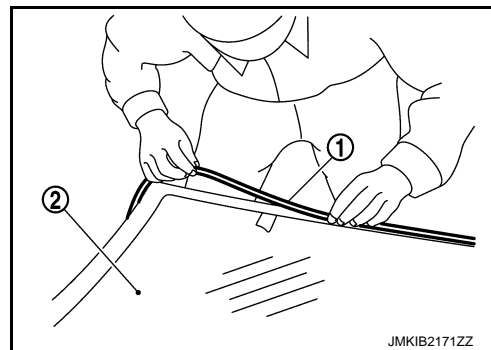
NOTE:

Lightly affix the center of windshield glass upper molding and lower molding. Affix the whole length while checking the length on the left and right.

6. When installing new windshield glass ②, apply the dam sealant rubber ① from the edge of the glass so as to hide the black print.

CAUTION:

Start to apply the dam sealant rubber at the outline mark of black print. Apply it so as to only place it without pulling. Stop applying at another outline mark of black print.



7. Apply glass primer along the entire circumference of windshield glass.

CAUTION:

- There are 2 types of primer. Never confuse the application methods.
- Painted surfaces primer

WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

- Glass primer
- Use the sealing kit for glass application and the special holder for cartridge or similar tools.
- Dry glass primer according to the specification of adhesive kit.

NOTE:

The essential function of primers is to strengthen adhesion between the glass and the painted surface.

8. Apply painted surface primer to the body side bonding surface.

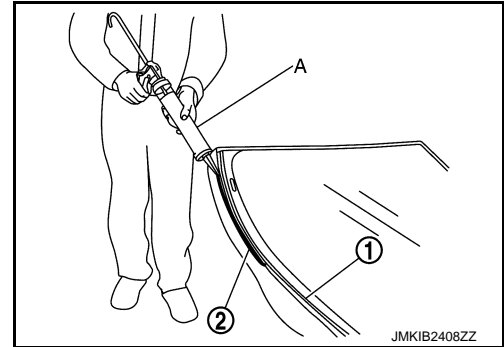
CAUTION:

- If the body side bonding surface is repaired with 2 liquid types urethane paint, always apply the primer after drying the paint.
- If painted surfaces primer adheres to a painted surface other than the bonding area, or if it overflows, quickly remove it with white gasoline or degreasing agent.
- Dry painted surface primer according to the specification of adhesive kit.

9. Apply adhesive ② to entire circumference of windshield glass along dam sealant rubber ① by using a sealant gun (A).

NOTE:

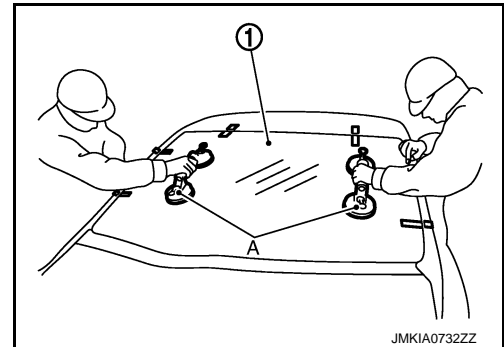
Open adhesive by cutting off the nozzle tip and set it in a sealant gun.



10. Use suction lifter (A) or rubber suction cups that are installed in advance, align the matching marks between the holder and roof panel hole and between the body panel and windshield glass ① to install them on the vehicle.

CAUTION:

Due to weight of windshield glass, 2 workers are required by all means.



11. Press entire surface of windshield glass lightly to fit it completely.
12. Correct any adhesive overflow or shortage using a spatula to make the surface smooth.
- CAUTION:**
- Dry the adhesive according to the specification of adhesive kit.
 - After installing windshield glass, keep the all door glass open until the adhesive is completely cured.
 - Never drive the vehicle before the adhesive is completely cured.
13. Remove protective tape.
14. Install removed parts.
- CAUTION:**
- Adjust the front wiper arms stop position. Refer to [WW-83. "WIPER ARM : Adjustment"](#).
 - Check the matching with surrounding parts. Adjust if necessary.

Reuse Windshield Glass

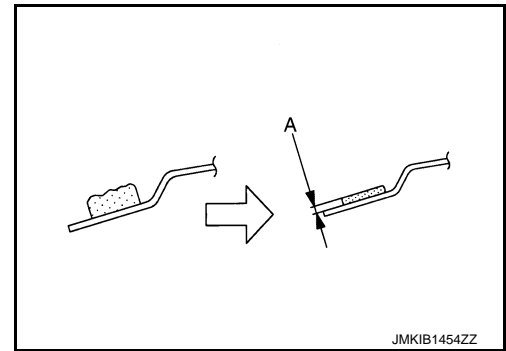
WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

1. Use a cutter knife or scraper, and leave the of adhesive and sealant on the body side approximately 2 mm (0.079 in) (A) to make adhesive and sealant surface smooth.

CAUTION:

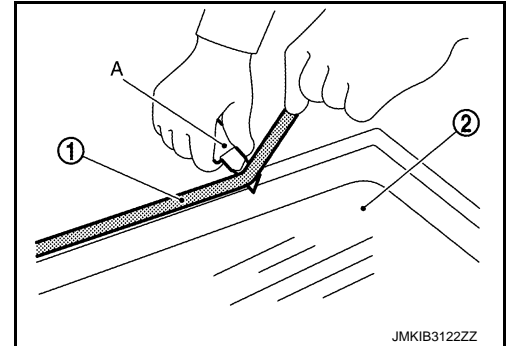
- If the bonded area on the body is scratched, repair it using a 2 liquid types urethane paint. Never use lacquer type paint.
- Smooth out adhesive and sealant surface.



2. Remove adhesive ① and sealant using a cutter knife (A) or scraper smooth out windshield glass ② surface.

CAUTION:

Smooth out adhesive and sealant surface.



3. Clean the bonded area on windshield glass and body panel side using a white gasoline or degreasing agent.
4. Install new windshield glass lower molding, new windshield glass spacers and new windshield glass upper molding to windshield glass.

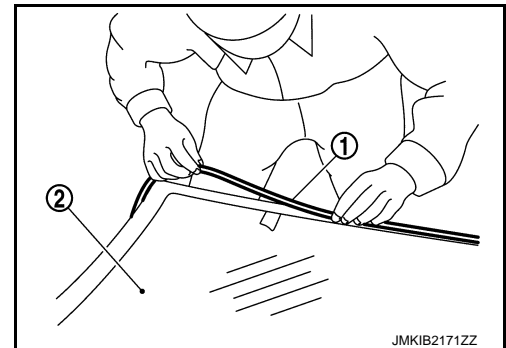
NOTE:

Lightly affix the center of windshield glass upper molding and lower molding. Affix the whole length while checking the length on the left and right.

5. When installing windshield glass ②, apply the dam sealant rubber ① from the edge of the glass so as to hide the black print.

CAUTION:

Start to apply the dam sealant rubber at the outline mark of black print. Apply it so as to only place it without pulling. Stop applying at another outline mark of black print.



6. Apply glass primer along the entire circumference of windshield glass.

CAUTION:

- There are 2 types of primer. Never confuse the application methods.
 - Painted surfaces primer
 - Glass primer
- Use the sealing kit for glass application and the special holder for cartridge or similar tools.
- Dry glass primer according to the specification of adhesive kit.

NOTE:

The essential function of primers is to strengthen adhesion between the glass and the painted surface.

7. Apply painted surface primer to the body side bonding surface.

CAUTION:

- If the body side bonding surface is repaired with 2 liquid types urethane paint, always apply the primer after drying the paint.
- If painted surfaces primer adheres to a painted surface other than the bonding area, or if it overflows, quickly remove it with white gasoline or degreasing agent.
- Dry painted surface primer according to the specification of adhesive kit.

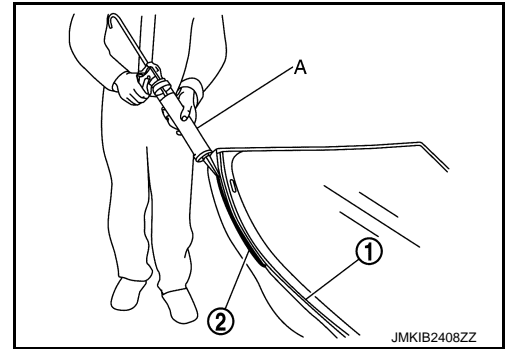
WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

8. Apply adhesive ② to entire circumference of windshield glass along dam sealant rubber ① by using a sealant gun (A).

NOTE:

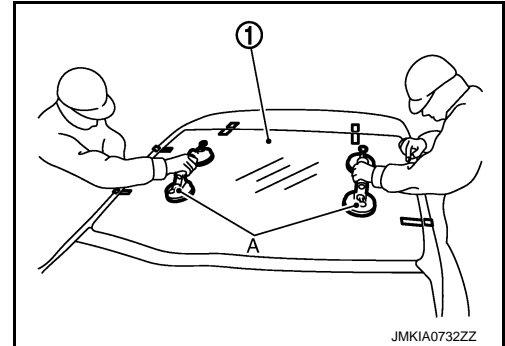
Open adhesive by cutting off the nozzle tip and set it in a sealant gun.



9. Use suction lifter (A) or rubber suction cups that are installed in advance, align the matching marks between the holder and roof panel hole and between the body panel and windshield glass ① to install them on the vehicle.

CAUTION:

Due to weight of windshield glass, 2 workers are required by all means.



10. Press entire surface of windshield glass lightly to fit it completely.
11. Correct any adhesive overflow or shortage using a spatula to make the surface smooth.
- CAUTION:**
- Dry the adhesive according to the specification of adhesive kit.
 - After installing windshield glass, keep the all door glass open until the adhesive is completely cured.
 - Never drive the vehicle before the adhesive is completely cured.
12. Remove protective tape.
13. Install removed parts.
- CAUTION:**
- Adjust the front wiper arms stop position. Refer to [WW-83. "WIPER ARM : Adjustment"](#).
 - Check the matching with surrounding parts. Adjust if necessary.

Inspection

INFOID:0000000010755099

WATER LEAKAGE INSPECTION

CAUTION:

- Dry adhesive according to the specification of adhesive kit, do the leaking check when adhesive is stiffen.
- If leakage was found, start over from the beginning as windshield glass removal, install and leaking check.

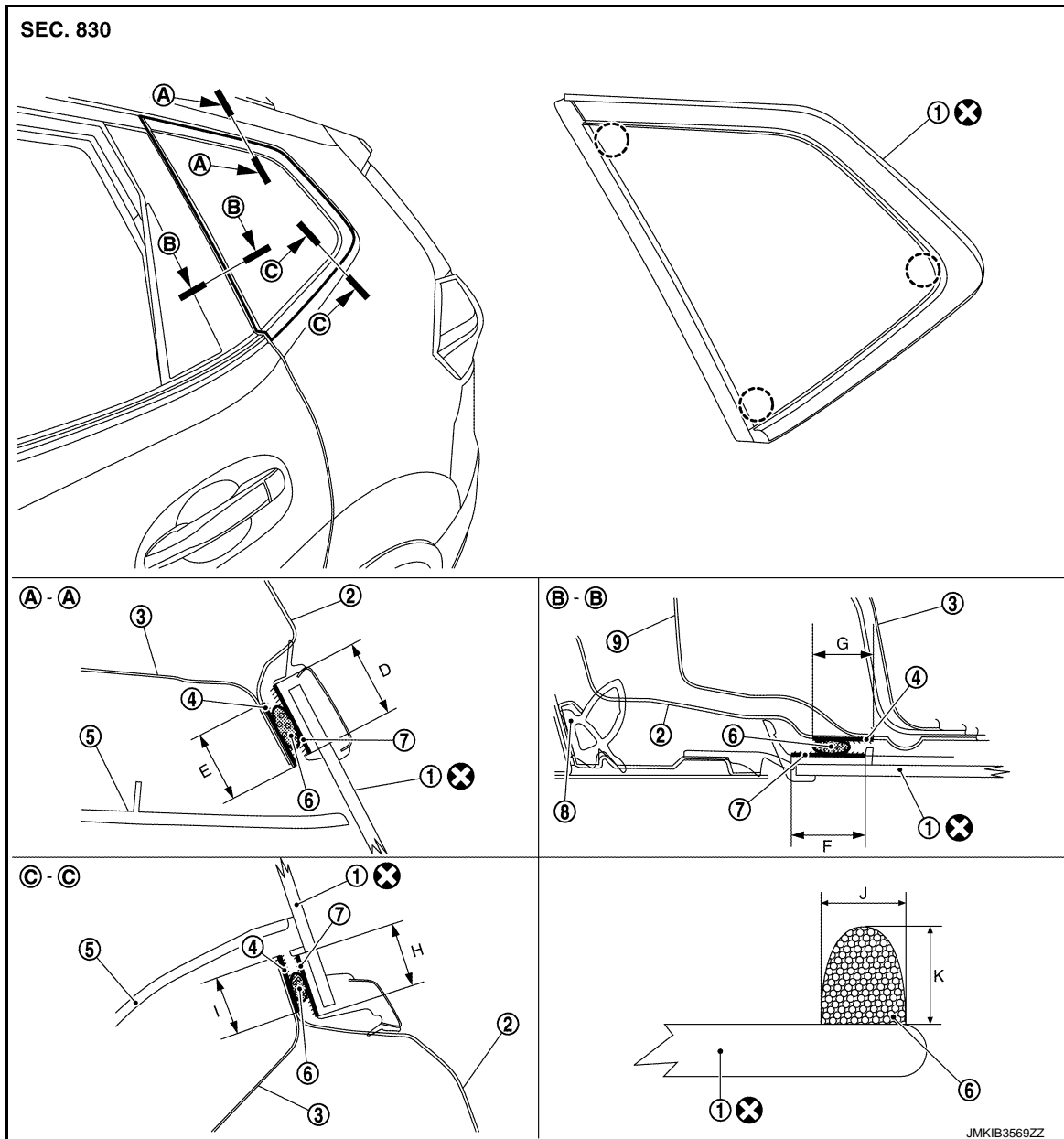
SIDE WINDOW GLASS

< REMOVAL AND INSTALLATION >

SIDE WINDOW GLASS

Exploded View

INFOID:000000010755100



- | | | |
|---|-------------------------------|-----------------------------------|
| ① Side window glass | ② Body side outer panel | ③ Rear pillar inner panel |
| ④ Painted surface primer | ⑤ Luggage side upper finisher | ⑥ Adhesive |
| ⑦ Glass primer | ⑧ Rear door weather-strip | ⑨ Rear pillar inner reinforcement |
| ○ : Clip | | |
| ⊗ : Always replace after every disassembly. | | |

SIDE WINDOW GLASS

< REMOVAL AND INSTALLATION >

Unit: mm (in)

Portion			Primer range	Adhesive range	
				J	K
Side window glass – Body side outer panel	Ⓐ – Ⓐ	D	17.0 (0.669)	7.0 (0.276)	12.0 (0.472)
		E	16.0 (0.630)	—	—
	Ⓑ – Ⓑ	F	17.0 (0.669)	7.0 (0.276)	12.0 (0.472)
		G	16.0 (0.630)	—	—
	Ⓒ – Ⓒ	H	17.0 (0.669)	7.0 (0.276)	12.0 (0.472)
		I	16.0 (0.630)	—	—

Removal and Installation

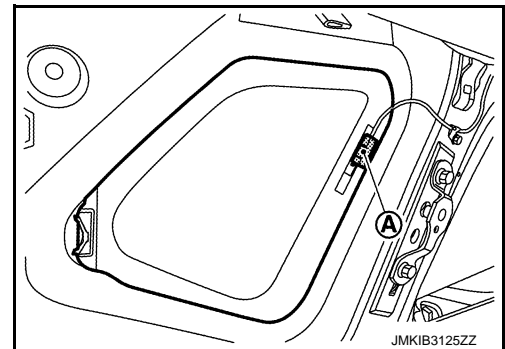
INFOID:0000000010755101

REMOVAL

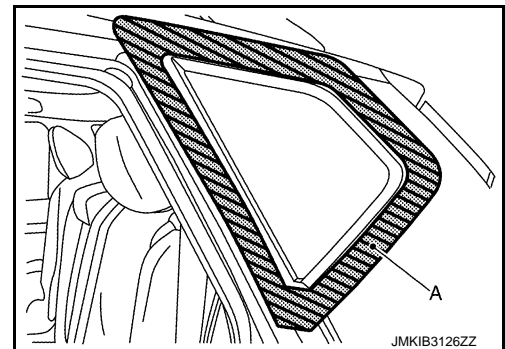
CAUTION:

Never damage body side outer panel.

1. Remove luggage side upper finisher. Refer to [INT-45. "LUGGAGE SIDE UPPER FINISHER : Removal and Installation"](#).
2. Disconnect harness connector Ⓐ.



3. Apply protective tape (A) on body side outer panel around side window glass to protect painted surface from damage.



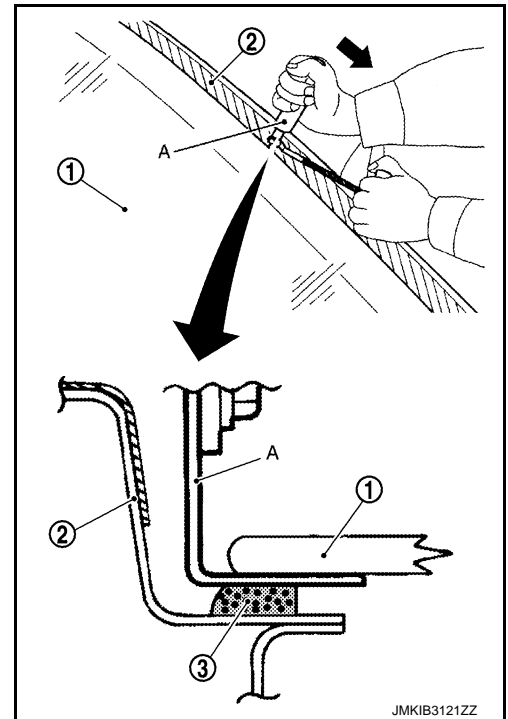
SIDE WINDOW GLASS

< REMOVAL AND INSTALLATION >

4. Insert a windshield cutter (A) between side window glass ① and body side outer panel ②. Remove adhesive ③ by pulling the windshield cutter, keeping the tip parallel to the edge of side window glass.

CAUTION:

Use piano wire to cut sealant if its difficult to use windshield cutter.

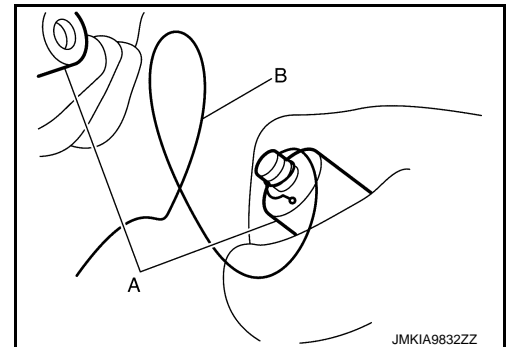


5. Remove adhesive using a piano wire.
- a. Pass the piano wire from passenger room to bonded area of side window glass using a wire pierce.

CAUTION:

Never damage surrounding parts.

- b. Tie both ends of the piano wire (B) to wire grip (A), etc..



- c. Remove adhesive by using piano wire alongside of side window glass and body side outer panel.

CAUTION:

Remove adhesive, 2 workers are required by all means.

6. Remove side window glass.

INSTALLATION

CAUTION:

- Replace side window glass with a new part after removal. Never reuse side window glass.
- Never damage body side outer panel.

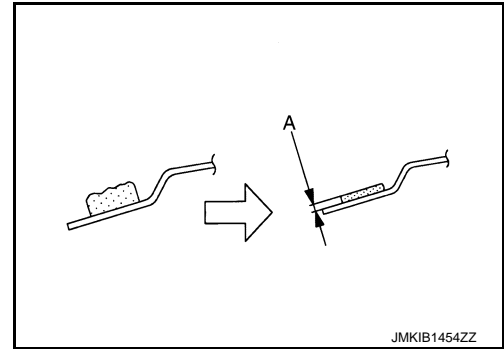
SIDE WINDOW GLASS

< REMOVAL AND INSTALLATION >

1. Use a cutter knife or scraper, and leave the of adhesive on the body side approximately 2 mm (0.079 in) (A) to make adhesive surface smooth.

CAUTION:

If the bonded area on the body is scratched, repair it using a 2 liquid types urethane paint. Never use lacquer type paint.



2. Clean the bonded area on side window glass and body side outer panel using a white gasoline or degreasing agent.
3. Apply glass primer along the entire circumference of side window glass.

CAUTION:

- There are 2 types of primer. Never confuse the application methods.

- Painted surfaces primer
- Glass primer

- Use the sealing kit for glass application and the special holder for cartridge or similar tools.

- Dry glass primer according to the specification of adhesive kit.

NOTE:

The essential function of primers is to strengthen adhesion between the glass and the painted surface.

4. Apply painted surface primer to the body side bonding surface.

CAUTION:

- If the body side bonding surface is repaired with 2 liquid types urethane paint, always apply the primer after drying the paint.
- If painted surfaces primer adheres to a painted surface other than the bonding area, or if it overflows, quickly remove it with white gasoline or degreasing agent.
- Dry painted surface primer according to the specification of adhesive kit.

5. Apply adhesive to entire circumference of side window glass by using a sealant gun.

NOTE:

Open adhesive by cutting off the nozzle tip and set it in a sealant gun.

6. Press entire surface of side window glass lightly to fit it completely.
7. Correct any adhesive overflow or shortage using a spatula to make the surface smooth.

CAUTION:

- After installing side window glass, keep the all door glass open until the adhesive is completely cured.
- Never drive the vehicle before the adhesive is completely cured.

8. Remove protective tape.
9. Install removed parts.

CAUTION:

Check the mating area with surrounding parts. Adjust if necessary.

Inspection

INFOID:0000000010755102

WATER LEAKAGE INSPECTION

CAUTION:

- Dry adhesive according to the specification of adhesive kit, do the leaking check when adhesive is stiffen.
- If leakage was found, start over from the beginning as side window glass removal, install and leaking check.

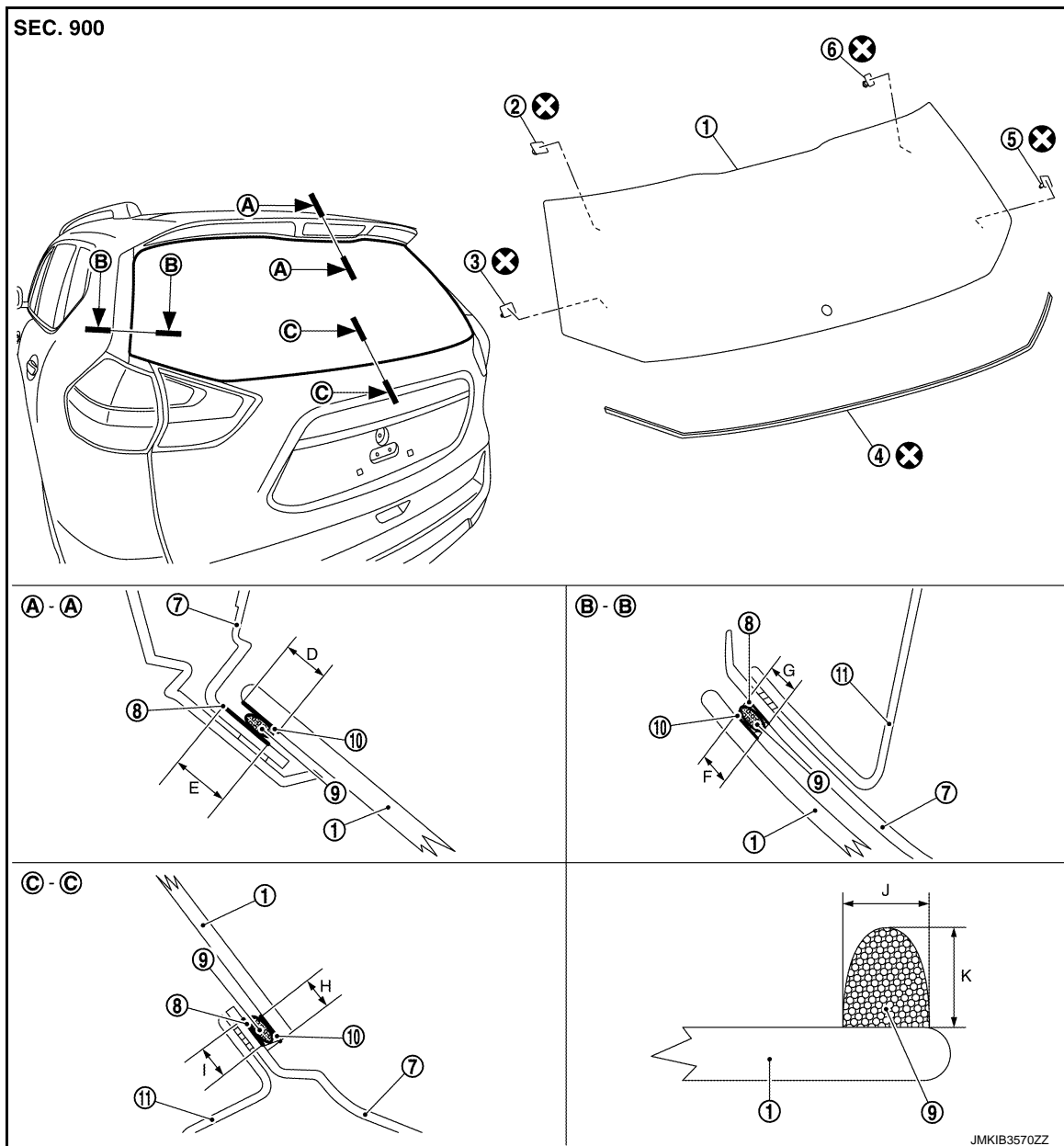
BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

BACK DOOR WINDOW GLASS

Exploded View

INFOID:000000010755103



- | | | |
|----------------------------------|------------------------------------|------------------------------------|
| ① Back door window glass | ② Back door window glass clip LH | ③ Back door window glass holder LH |
| ④ Back door window glass molding | ⑤ Back door window glass holder RH | ⑥ Back door window glass clip RH |
| ⑦ Back door outer panel | ⑧ Painted surface primer | ⑨ Adhesive |
| ⑩ Glass primer | ⑪ Back door inner panel | |

⊗ : Always replace after every disassembly.

BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

Unit: mm (in)

Portion			Primer range	Adhesive range	
				J	K
Back door window glass – Back door panel	Ⓐ – Ⓐ	D	15.0 (0.591)	10.0 (0.394)	3.5 – 5.5 (0.138 – 0.217)
		E	15.0 (0.591)	—	—
	Ⓑ – Ⓑ	F	15.0 (0.591)	10.0 (0.394)	3.5 – 5.5 (0.138 – 0.217)
		G	15.0 (0.591)	—	—
	Ⓒ – Ⓒ	H	15.0 (0.591)	10.0 (0.394)	3.5 – 5.5 (0.138 – 0.217)
		I	15.0 (0.591)	—	—

Removal and Installation

INFOID:0000000010755104

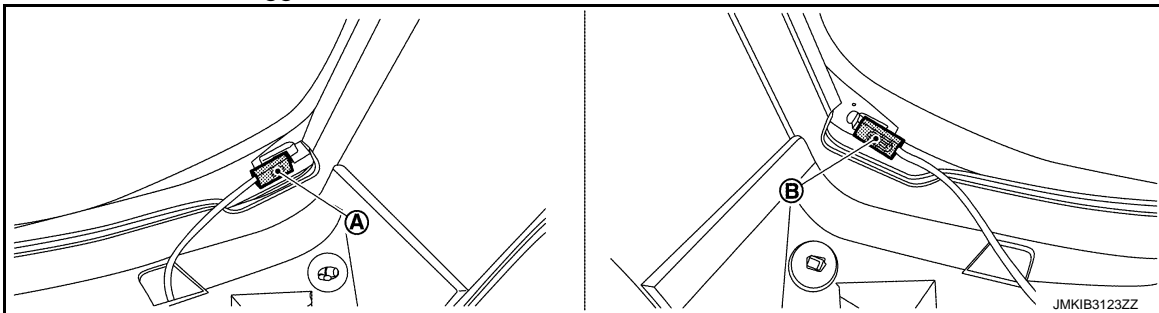
REMOVAL

Replacement Back Door Window Glass

CAUTION:

Never damage resinous back door panel.

1. Remove rear wiper motor. Refer to [WW-89, "WIPER MOTOR : Removal and Installation"](#).
2. Remove rear combination lamp (LH and RH). Refer to the following.
 - LED Headlamp: Refer to [EXL-205, "REAR COMBINATION LAMP \(BACK DOOR SIDE\) : Removal and Installation"](#).
 - HALOGEN Headlamp: Refer to [EXL-390, "REAR COMBINATION LAMP \(BACK DOOR SIDE\) : Removal and Installation"](#).
3. Disconnect window defogger connectors LH side Ⓐ and RH side Ⓑ.



4. Remove back door window glass molding.

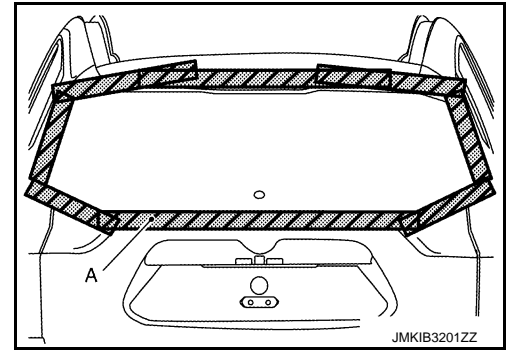
CAUTION:

 - Remove back door window glass molding left on vehicle using a cutter knife or pliers etc..
 - Never damage resinous back door panel using by cutter knife or pliers etc..

BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

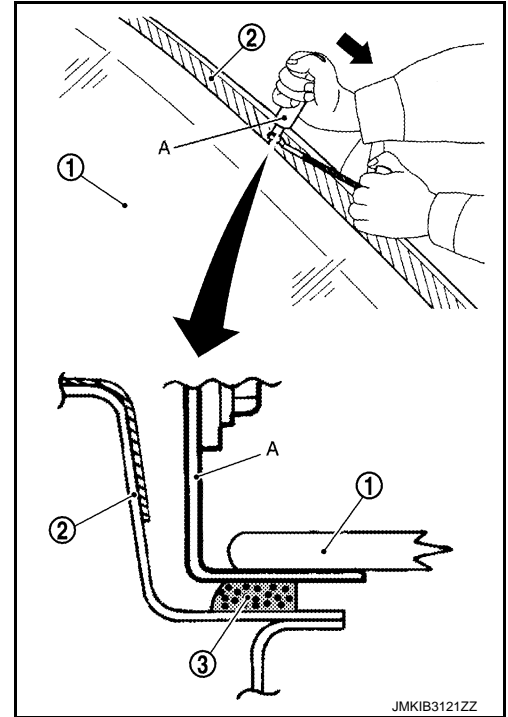
5. Apply protective tape (A) on back door panel around back door window glass to protect painted surface from damage.



6. Insert a windshield cutter (A) between back door window glass ① and back door panel ②. Remove adhesive ③ by pulling the windshield cutter, keeping the tip parallel to the edge of back door window glass.

CAUTION:

Use piano wire to cut sealant if its difficult to use windshield cutter.

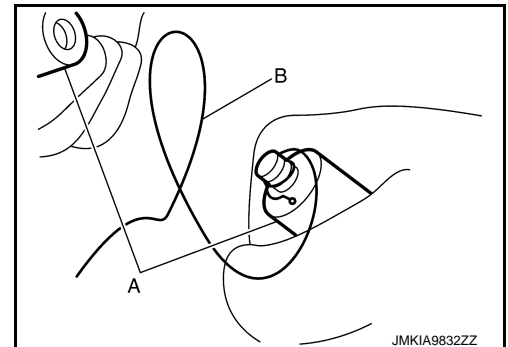


7. Remove adhesive using a piano wire.
- a. Pass the piano wire passenger room to bonded area of back door window glass using a wire pierce.

CAUTION:

- Never use plane surface of wire pierce tip vertically.
- Never damage resinous back door panel and surrounding parts.

- b. Tie both ends of the piano wire (B) to wire grip (A), etc..



8. Remove adhesive, back door window glass clips and back door window glass holders by using piano wire alongside of back door window glass.

CAUTION:

- Remove adhesive, 2 workers are required by all means.
- Never damage resinous back door panel and surrounding parts.

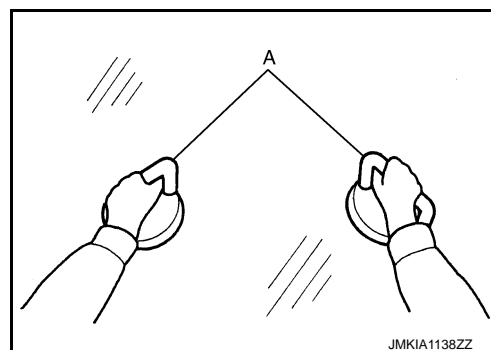
BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

9. Use suction lifter (A) or rubber suction cups, etc. to remove back door window glass from the vehicle.

CAUTION:

Due to weight of back door window glass, 2 workers are required by all means.



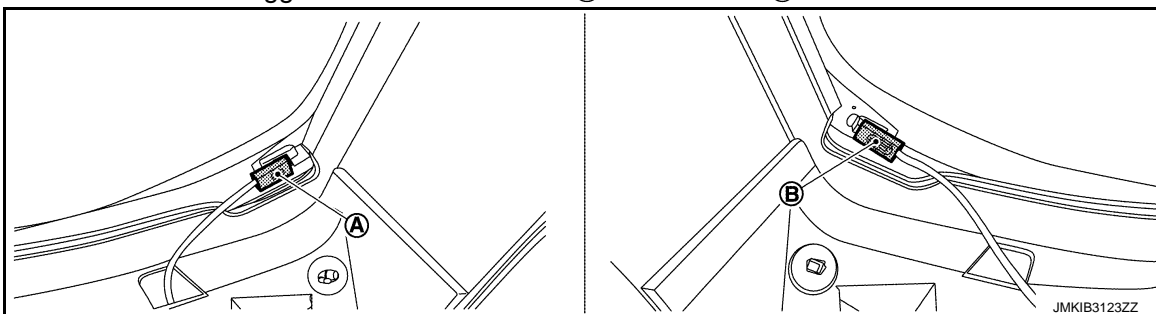
10. Remove back door window glass clips and back door window glass holders from back door panel.

Reuse Back Door Window Glass

CAUTION:

- Never damage back door window glass and resinous back door panel.
- Never use a windshield cutter if the back door window glass is reused. (It may scratch the glass surface)

1. Remove rear wiper motor. Refer to [WW-89, "WIPER MOTOR : Removal and Installation"](#).
2. Remove rear combination lamp (LH and RH). Refer to the following.
 - LED Headlamp: Refer to [EXL-205, "REAR COMBINATION LAMP \(BACK DOOR SIDE\) : Removal and Installation"](#).
 - HALOGEN Headlamp: Refer to [EXL-390, "REAR COMBINATION LAMP \(BACK DOOR SIDE\) : Removal and Installation"](#).
3. Disconnect window defogger connectors LH side (A) and RH side (B).

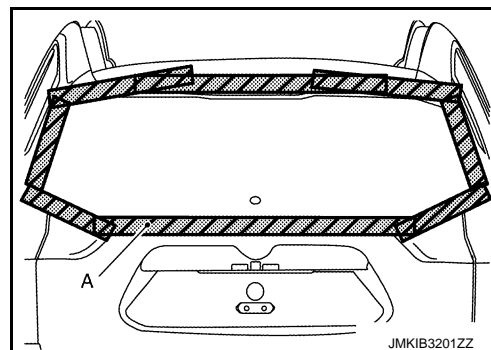


4. Remove back door window glass molding.

CAUTION:

- Remove back door window glass molding left on vehicle using a cutter knife or pliers etc..
- Never damage resinous back door panel using by cutter knife or pliers etc..

5. Apply protective tape (A) on back door panel around back door window glass to protect painted surface from damage.



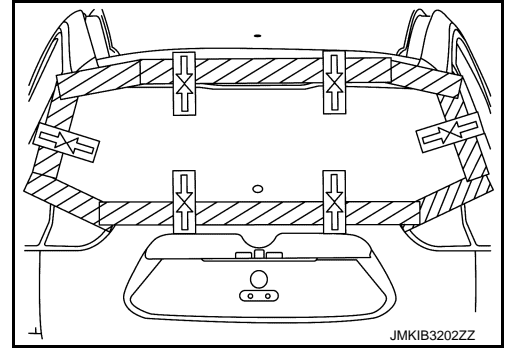
BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

6. Apply matching marks to back door window glass and back door panel.

CAUTION:

To prevent the gap when install back door window glass put on matching marks by all means.

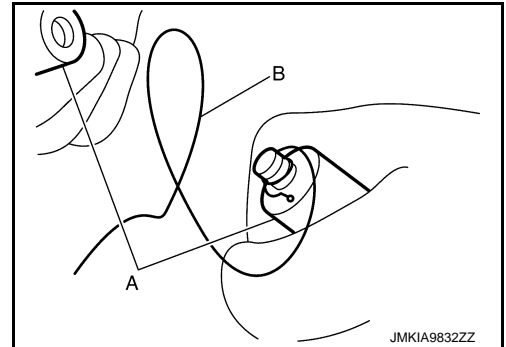


7. Remove adhesive using a piano wire.
- a. Pass the piano wire passenger room to bonded area of back door window glass using a wire pierce.

CAUTION:

- **Never use plane surface of wire pierce tip vertically.**
- **Never damage resinous back door panel and surrounding parts.**

- b. Tie both ends of the piano wire (B) to wire grip (A), etc..



8. Remove adhesive, back door window glass clips and back door window glass holders by using piano wire alongside of back door window glass.

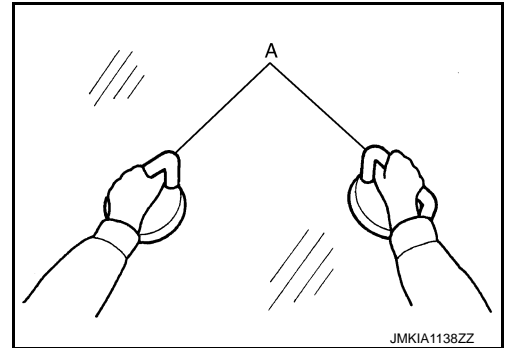
CAUTION:

- **Remove adhesive, 2 workers are required by all means.**
- **Never damage resinous back door panel and surrounding parts.**

9. Use suction lifter (A) or rubber suction cups, etc. to remove back door window glass from the vehicle.

CAUTION:

Due to weight of back door window glass, 2 workers are required by all means.



10. Remove back door window glass clips and back door window glass holders from back door panel.

INSTALLATION

Replacement Back Door Window Glass

CAUTION:

Never damage back door window glass and resinous back door panel.

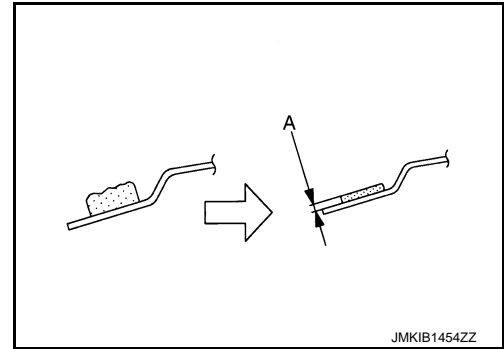
BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

1. Use a cutter knife or scraper, and leave the of adhesive on the back door side approximately 2 mm (0.079 in) (A) to make adhesive surface smooth.

CAUTION:

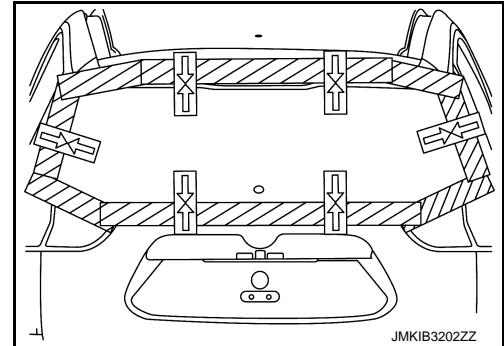
- If the bonded area on the body is scratched, repair it using a 2 liquid types urethane paint. Never use lacquer type paint.
- Smooth out adhesive surface.



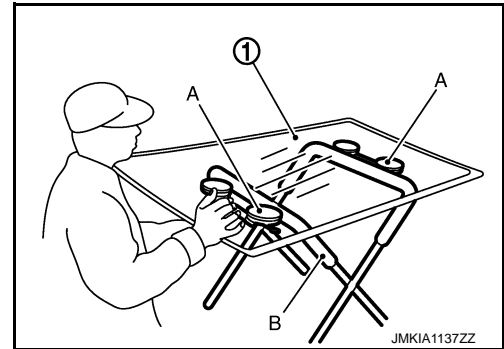
2. Place back door window glass on the vehicle temporarily, put on matching marks on back door window glass and back door panel.

CAUTION:

To prevent the gap when install new back door window glass put on matching marks by all means.



3. Use suction lifter (A) or rubber suction cups to set back door window glass ① on glass stand (B).



4. Clean the bonded area on back door window glass and back door panel using a white gasoline or degreasing agent.
5. Install new back door window glass clips, new back door window glass holders and new back door window glass molding to new back door window glass.
6. Apply glass primer along the entire circumference of back door window glass.

CAUTION:

- There are 2 types of primer. Never confuse the application methods.
- Painted surfaces primer
- Glass primer
- Use the adhesive kit for glass application and the special holder for cartridge or similar tools.
- Dry glass primer according to the specification of adhesive kit.

NOTE:

The essential function of primers is to strengthen adhesion between glass and painted surface.

7. Apply painted surface primer to the back door panel bonding surface.

CAUTION:

- If the back door panel bonding surface is repaired with 2 liquid types urethane paint, always apply the primer after drying the paint.
- If painted surfaces primer adheres to a painted surface other than the bonding area, or if it overflows, quickly remove it with white gasoline or degreasing agent.
- Dry painted surface primer according to the specification of adhesive kit.

NOTE:

No need to apply coating primer if adhesive remain evenly on back door panel.

8. Apply adhesive to entire circumference of back door window glass.

BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

NOTE:

Open adhesive by cutting off the nozzle tip and set it in a sealant gun.

9. Install back door window glass to vehicle by checking the matching marks on back door panel and back door window glass.

CAUTION:

Due to weight of back door window glass, 2 workers are required by all means.

10. Press entire surface of back door window glass lightly to fit it completely.
11. Correct any adhesive overflow or shortage using a spatula to make the surface smooth.

CAUTION:

- Dry the adhesive according to the specification of adhesive kit.
- After installing back door window glass, keep the all door glass open until the adhesive is completely cured.
- Never drive the vehicle before the adhesive is completely cured.

12. Remove protective tape.

13. Install the removed parts.

CAUTION:

- Adjust the rear wiper arm stop position. Refer to [WW-88, "WIPER ARM : Adjustment"](#).
- Check the matching with surrounding parts. Adjust if necessary.

Reuse Back Door Window Glass

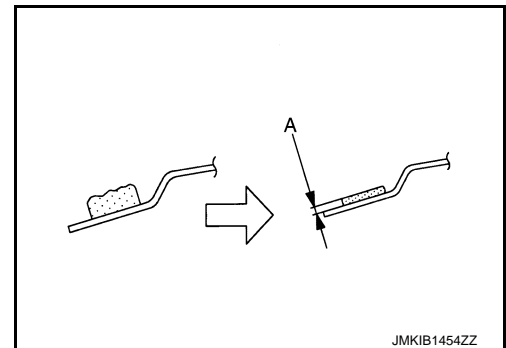
CAUTION:

Never damage back door window glass and resinous back door panel.

1. Use a cutter knife or scraper, and leave the of adhesive on the back door side approximately 2 mm (0.079 in) (A) to make adhesive surface smooth.

CAUTION:

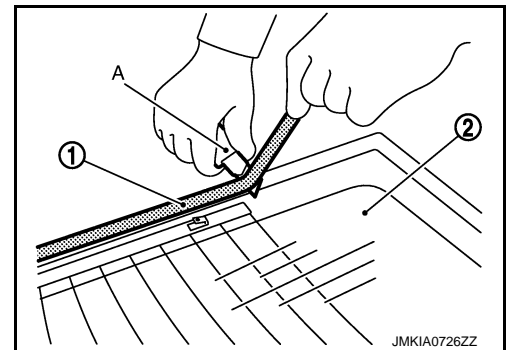
- If the bonded area on the body is scratched, repair it using a 2 liquid types urethane paint. Never use lacquer type paint.
- Smooth out adhesive surface.



2. Remove remaining adhesive ① and sealant using a cutter knife (A) or scraper smooth out back door window glass ② surface.

CAUTION:

Smooth out adhesive surface.



3. Clean the bonded area on back door window glass and back door panel using a white gasoline or degreasing agent.
4. Install new back door window glass clips, new back door window glass holders and new back door window glass molding to new back door window glass.
5. Apply glass primer along the entire circumference of back door window glass.

CAUTION:

- There are 2 types of primer. Never confuse the application methods.
 - Painted surfaces primer
 - Glass primer
- Use the sealing kit for glass application and the special holder for cartridge or similar tools.
- Dry glass primer according to the specification of adhesive kit.

NOTE:

BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

The essential function of primers is to strengthen adhesion between the glass and the painted surface.

6. Apply painted surface primer to the back door panel bonding surface.

CAUTION:

- If the back door panel bonding surface is repaired with 2 liquid types urethane paint, always apply the primer after drying the paint.
- If painted surfaces primer adheres to a painted surface other than the bonding area, or if it overflows, quickly remove it with white gasoline or degreasing agent.
- Dry painted surface primer according to the specification of adhesive kit.

NOTE:

No need to apply coating primer if adhesive remain evenly on back door panel.

7. Apply adhesive to entire circumference of back door window glass.

NOTE:

Open adhesive by cutting off the nozzle tip and set it in a sealant gun.

8. Install back door window glass to vehicle by checking the matching marks on back door panel and back door window glass.

CAUTION:

Due to weight of back door window glass, 2 workers are required by all means.

9. Press entire surface of back door window glass lightly to fit it completely.

10. Correct any adhesive overflow or shortage using a spatula to make the surface smooth.

CAUTION:

- Dry the adhesive according to the specification of adhesive kit.
- After installing back door window glass, keep the all door glass open until the adhesive is completely cured.
- Never drive the vehicle before the adhesive is completely cured.

11. Remove protective tape.

12. Install the removed parts.

CAUTION:

- Adjust the rear wiper arm stop position. Refer to [WW-88, "WIPER ARM : Adjustment"](#).
- Check the matching with surrounding parts. Adjust if necessary.

Inspection

INFOID:0000000010755105

WATER LEAKAGE INSPECTION

CAUTION:

- Dry adhesive according to the specification of adhesive kit, do the leaking check when adhesive is stiffen.
- If leakage was found, start over from the beginning as back door window glass removal, install and leaking check.

A
B
C
D
E
F
G
H
I
J
GW
L
M
N
O
P

FRONT DOOR GLASS

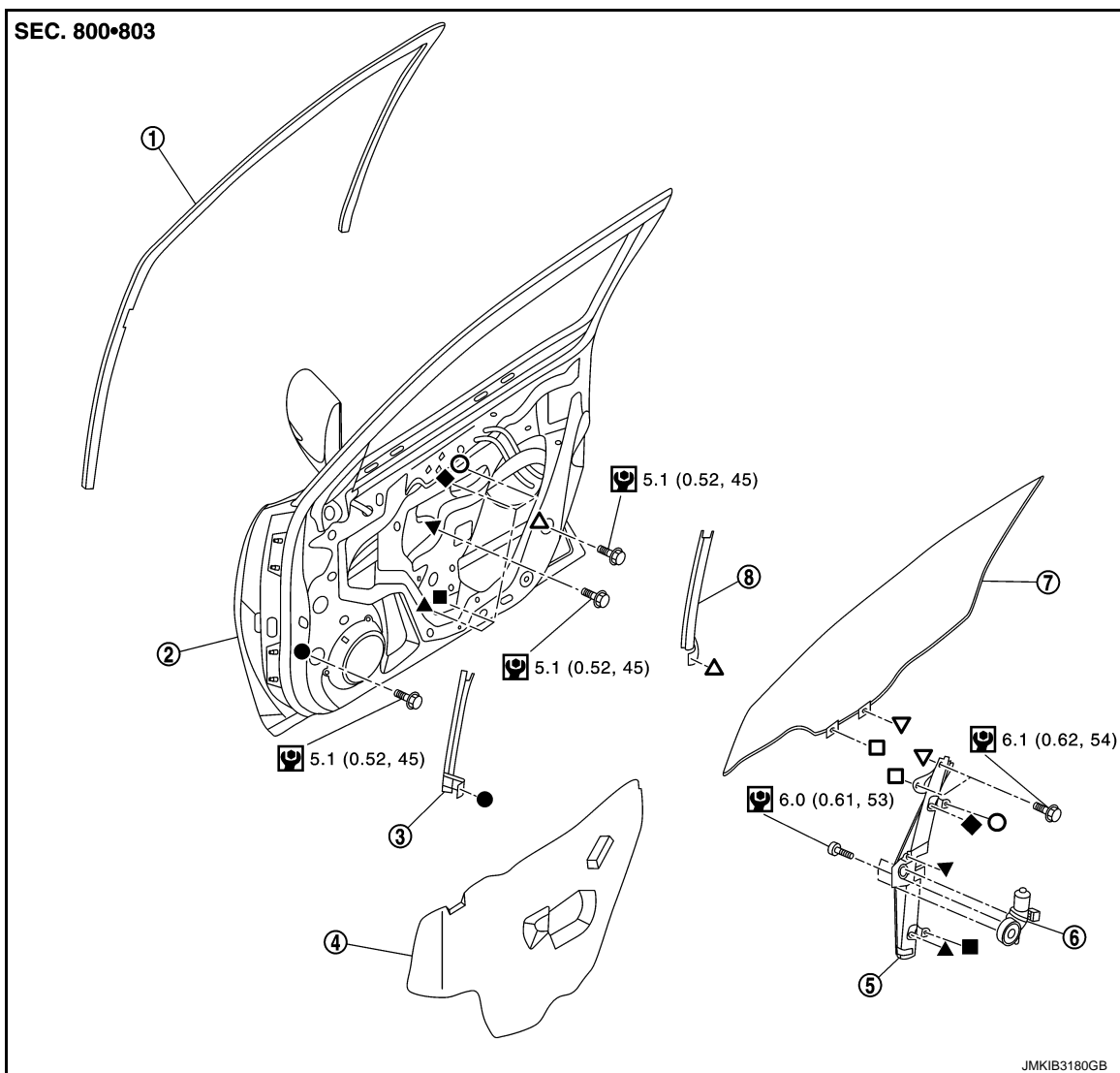
< REMOVAL AND INSTALLATION >

FRONT DOOR GLASS

Exploded View

INFOID:000000010755106

RHD models



- | | | |
|-----------------------------|-----------------------------------|---------------------------------|
| ① Front door glass run | ② Front door panel | ③ Front door lower sash |
| ④ Front door sealing screen | ⑤ Front door regulator | ⑥ Front door power window motor |
| ⑦ Front door glass | ⑧ Front door glass run lower sash | |

: N·m (kg-m, in-lb)

●, ▲, ■, ▼, ◆, ○, △, □, ▽: Indicates that the part is connected at points with same symbol in actual vehicle.

FRONT DOOR GLASS

FRONT DOOR GLASS : Removal and Installation

INFOID:000000010755107

REMOVAL

CAUTION:

Never damage front door glass and front door panel.

- Remove front door inside handle. Refer to the following.
 - Type 1: Refer to [DLK-303, "INSIDE HANDLE : Removal and Installation"](#).

FRONT DOOR GLASS

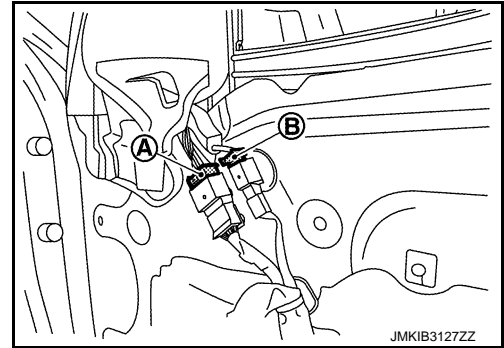
< REMOVAL AND INSTALLATION >

- Type 2: Refer to [DLK-611, "INSIDE HANDLE : Removal and Installation"](#).
- Type 3: Refer to [DLK-774, "INSIDE HANDLE : Removal and Installation"](#).
- Type 4: Refer to [DLK-916, "INSIDE HANDLE : Removal and Installation"](#).

2. Disconnect door mirror harness connector (A) and BSW indicator harness connector (B).

NOTE:

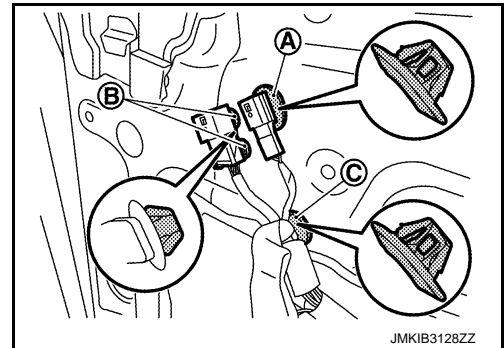
As per BSW indicator harness connector, only with BSW indicator can be applied.



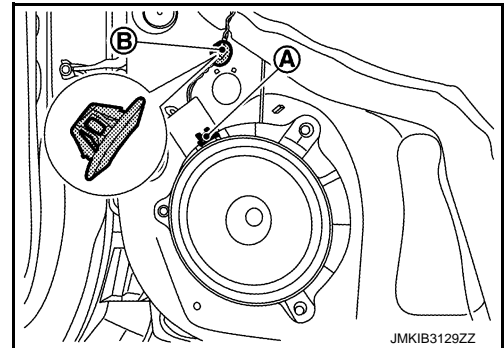
3. Remove BSW indicator harness connector fixing clip (A), door mirror harness connector fixing clips (B) and harness fixing clip (C).

NOTE:

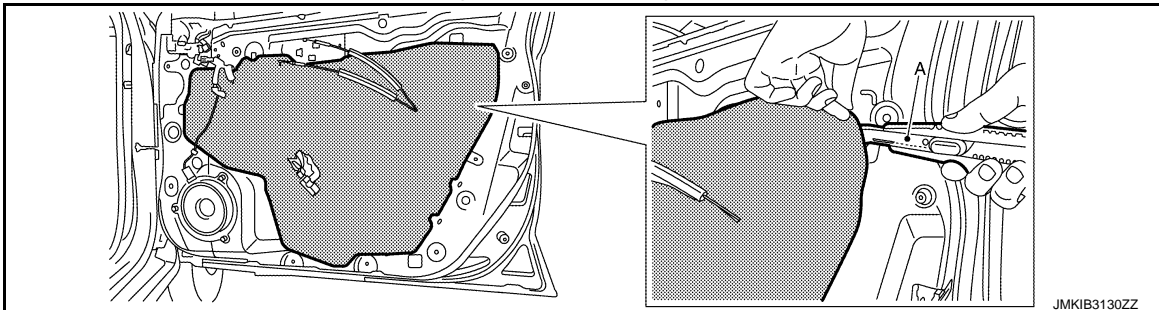
As per BSW indicator harness connector, only with BSW indicator can be applied.



4. Disconnect front door speaker harness connector (A), and then remove harness fixing clip (B).



5. Cut butyl-tape inside of front door sealing screen by using cutter knife (A).



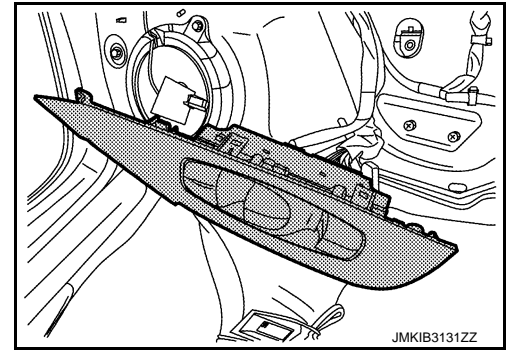
CAUTION:

Cut the butyl-tape so that remain on front door sealing screen, if the front door sealing screen is reused.

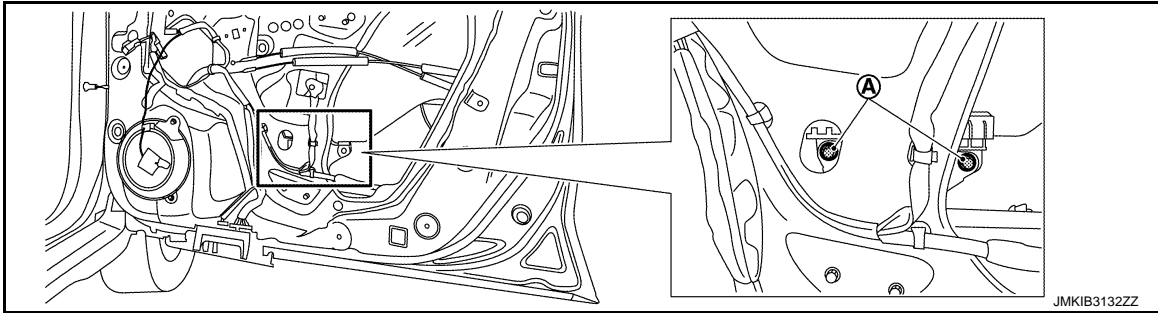
FRONT DOOR GLASS

< REMOVAL AND INSTALLATION >

6. Reconnect power window main switch.



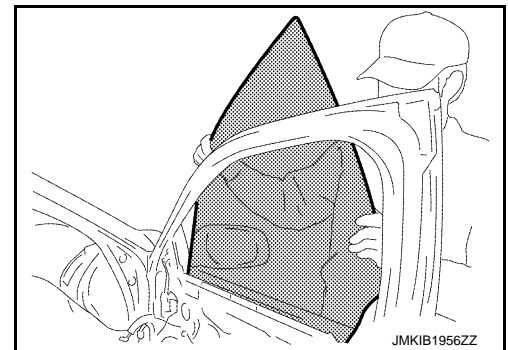
7. Operate power window main switch to raise or lower front door glass until front door glass mounting bolts (A) can be seen, and then remove front door glass mounting bolts.



8. Hold securely front door glass and pull it out of front door panel to remove front door glass.

CAUTION:

Never damage front door glass, front door glass run and front door panel.



INSTALLATION

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

CAUTION:

Tighten front door glass mounting bolts to the specified torque. Refer to [GW-38, "Exploded View"](#).

FRONT DOOR LOWER SASH

FRONT DOOR LOWER SASH : Removal and Installation

INFOID:0000000010755108

REMOVAL

CAUTION:

Never damage front door glass and front door panel.

1. Remove front door inside handle. Refer to the following.
 - Type 1: Refer to [DLK-303, "INSIDE HANDLE : Removal and Installation"](#).
 - Type 2: Refer to [DLK-611, "INSIDE HANDLE : Removal and Installation"](#).
 - Type 3: Refer to [DLK-774, "INSIDE HANDLE : Removal and Installation"](#).
 - Type 4: Refer to [DLK-916, "INSIDE HANDLE : Removal and Installation"](#).

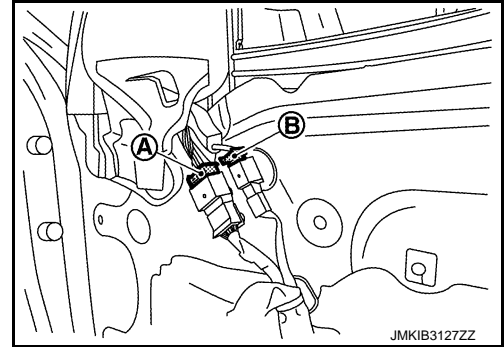
FRONT DOOR GLASS

< REMOVAL AND INSTALLATION >

2. Disconnect door mirror harness connector (A) and BSW indicator harness connector (B).

NOTE:

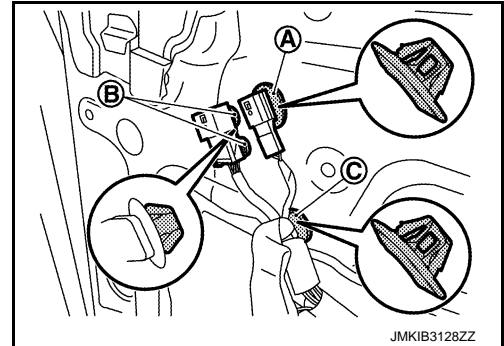
As per BSW indicator harness connector, only with BSW indicator can be applied.



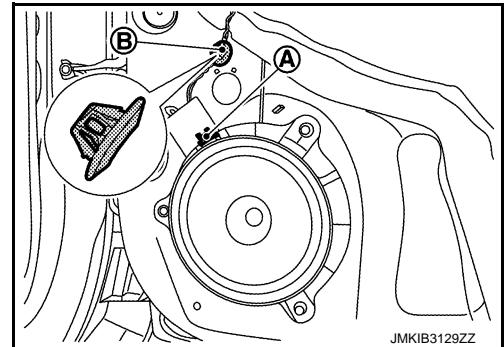
3. Remove BSW indicator harness connector fixing clip (A), door mirror harness connector fixing clips (B) and harness fixing clip (C).

NOTE:

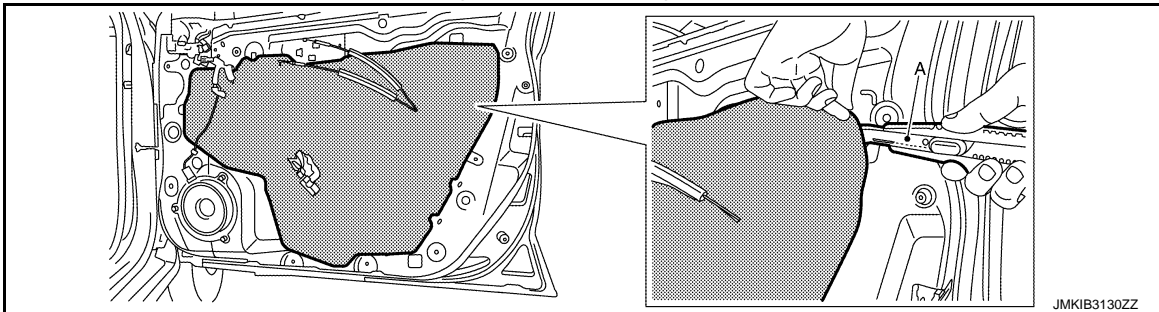
As per BSW indicator harness connector, only with BSW indicator can be applied.



4. Disconnect front door speaker harness connector (A), and then remove harness fixing clip (B).



5. Cut butyl-tape inside of front door sealing screen by using cutter knife (A).



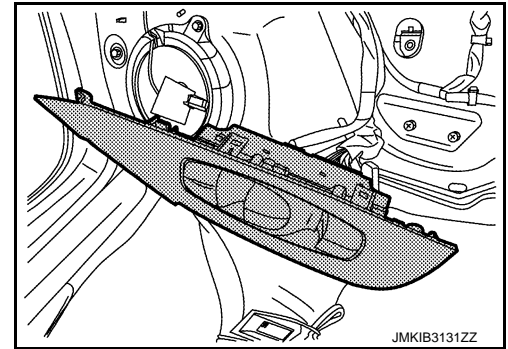
CAUTION:

Cut the butyl-tape so that remain on front door sealing screen, if the front door sealing screen is reused.

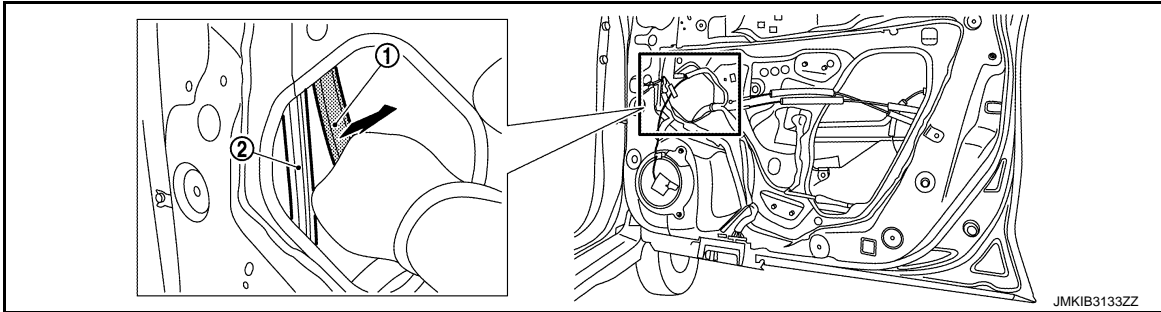
FRONT DOOR GLASS

< REMOVAL AND INSTALLATION >

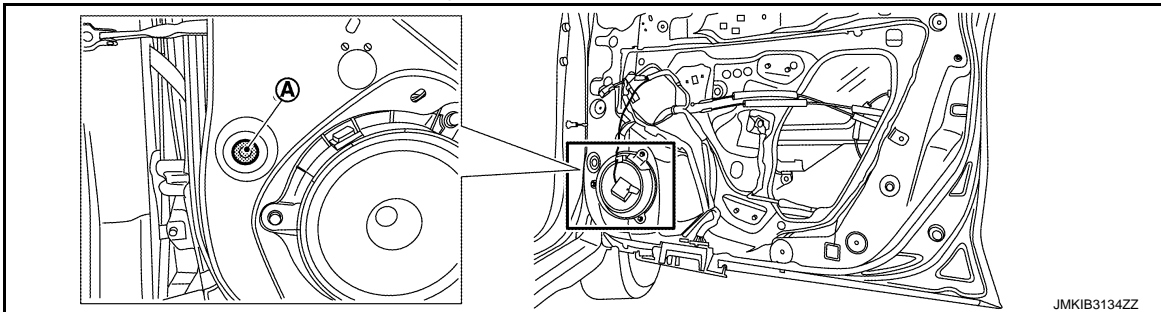
6. Reconnect power window main switch.



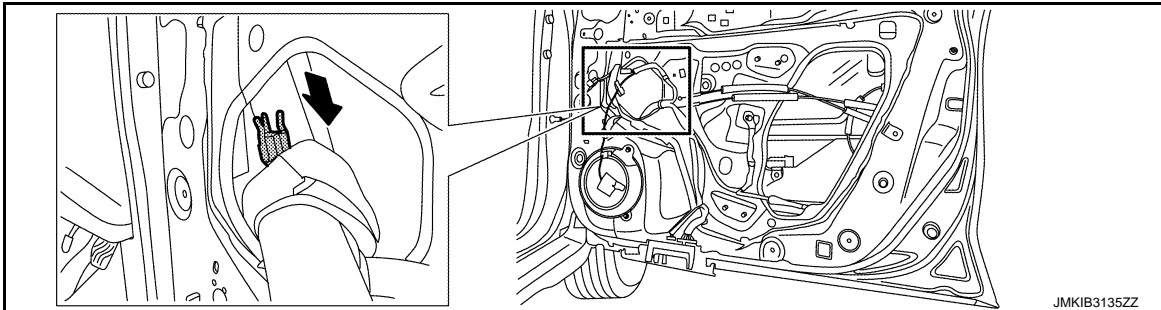
7. Fully close front door glass.
8. Disengage front door glass run ① from front door lower sash ②.



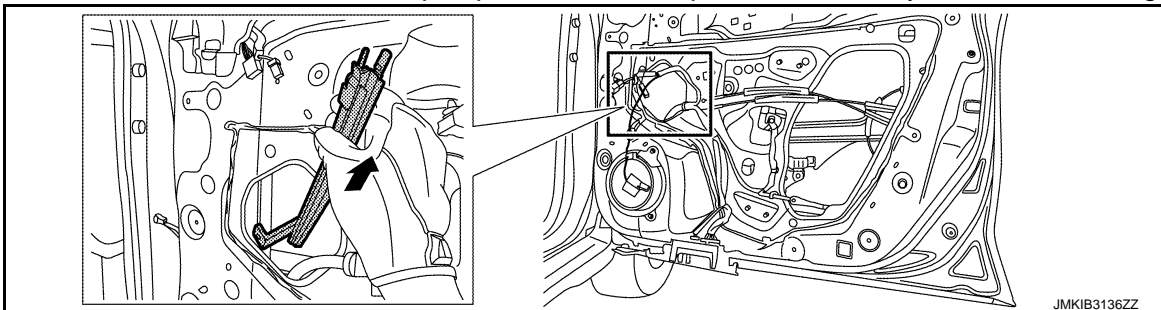
9. Remove front door lower sash mounting bolt (A).



10. Disengage front door lower sash from open part of front door panel as shown by the arrow in the figure.



11. Remove front door lower sash from open part of front door panel as shown by the arrow in the figure.



FRONT DOOR GLASS

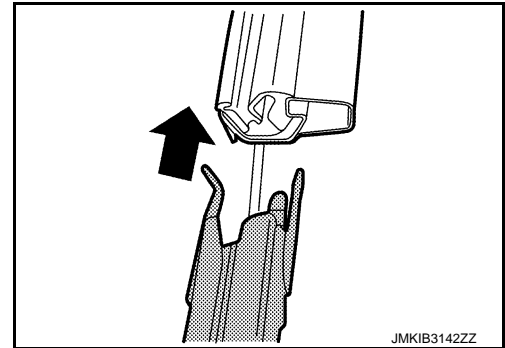
< REMOVAL AND INSTALLATION >

INSTALLATION

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

CAUTION:

- Make sure that front door lower sash and front door sash (door panel side) are engaged.



- Make sure that front door glass run are engaged to front door lower sash and front door sash (door panel side).
- Tighten front door regulator mounting bolts to the specified torque. Refer to [GW-38, "Exploded View"](#).

FRONT DOOR GLASS RUN LOWER SASH

FRONT DOOR GLASS RUN LOWER SASH : Removal and Installation

INFOID:000000010755109

REMOVAL

CAUTION:

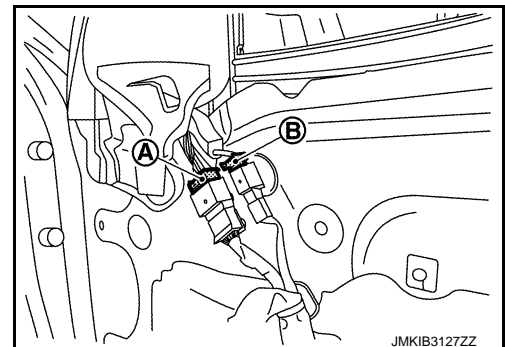
Never damage front door glass and front door panel.

1. Remove front door inside handle. Refer to the following.
 - Type 1: Refer to [DLK-303, "INSIDE HANDLE : Removal and Installation"](#).
 - Type 2: Refer to [DLK-611, "INSIDE HANDLE : Removal and Installation"](#).
 - Type 3: Refer to [DLK-774, "INSIDE HANDLE : Removal and Installation"](#).
 - Type 4: Refer to [DLK-916, "INSIDE HANDLE : Removal and Installation"](#).

2. Disconnect door mirror harness connector (A) and BSW indicator harness connector (B).

NOTE:

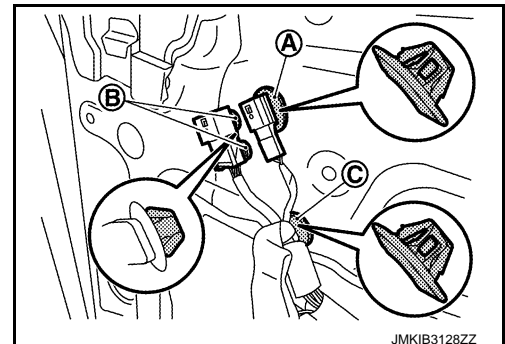
As per BSW indicator harness connector, only with BSW indicator can be applied.



3. Remove BSW indicator harness connector fixing clip (A), door mirror harness connector fixing clips (B) and harness fixing clip (C).

NOTE:

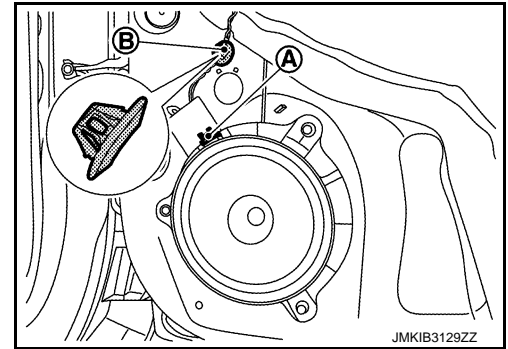
As per BSW indicator harness connector, only with BSW indicator can be applied.



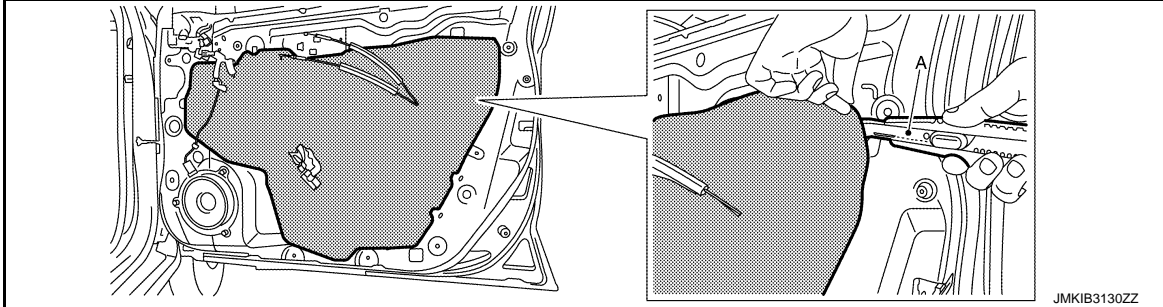
FRONT DOOR GLASS

< REMOVAL AND INSTALLATION >

4. Disconnect front door speaker harness connector (A), and then remove harness fixing clip (B).



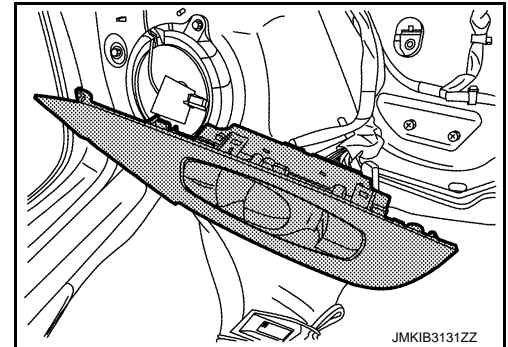
5. Cut butyl-tape inside of front door sealing screen by using cutter knife (A).



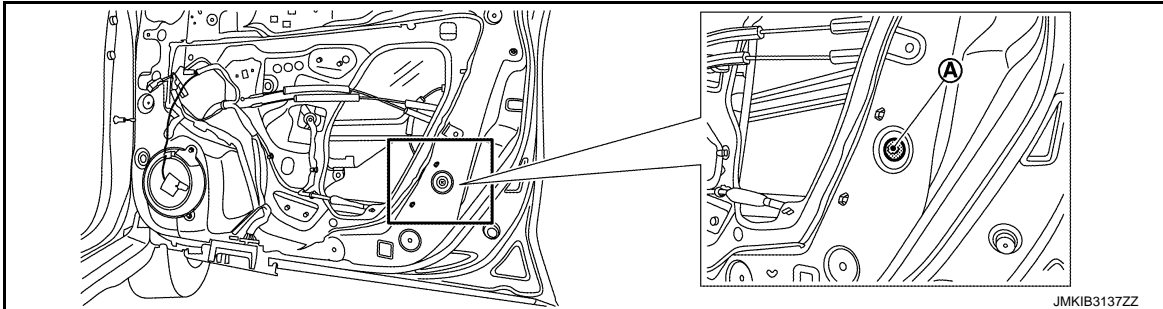
CAUTION:

Cut the butyl-tape so that remain on front door sealing screen, if the front door sealing screen is reused.

6. Reconnect power window main switch.



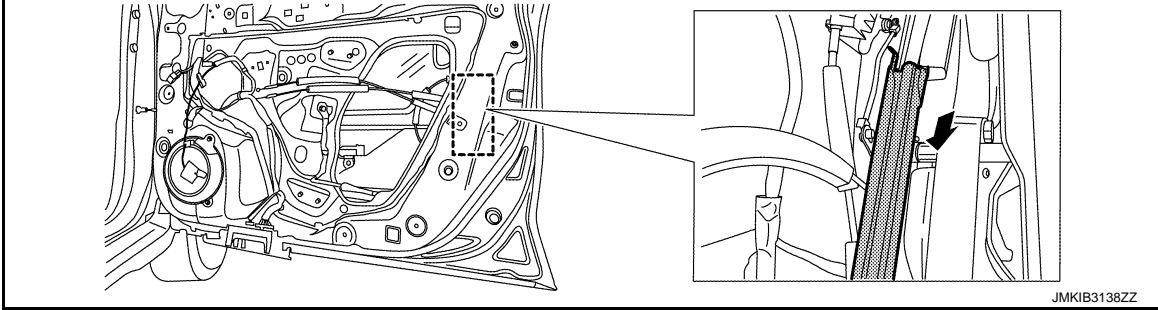
7. Fully close front door glass.
8. Remove front door glass run lower sash mounting bolt (A).



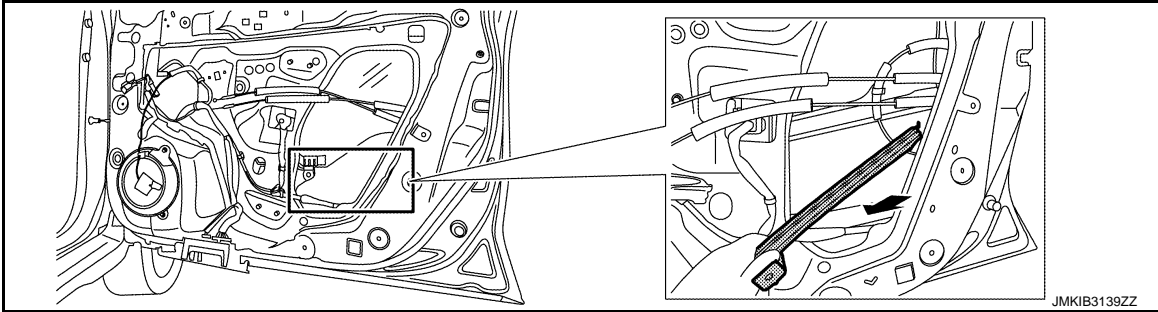
FRONT DOOR GLASS

< REMOVAL AND INSTALLATION >

9. Disengage front door glass run lower sash from open part of front door panel as shown by the arrow in the figure.



10. Remove front door glass run lower sash from open part of front door panel as shown by the arrow in the figure.

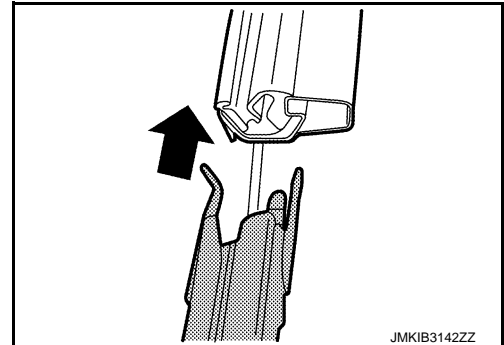


INSTALLATION

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

CAUTION:

- Make sure that front door glass run lower sash and front door sash (door panel side) are engaged.



- Make sure that front door glass run are engaged to front door glass run lower sash and front door sash (door panel side).
- Tighten front door regulator mounting bolts to the specified torque. Refer to [GW-38, "Exploded View"](#).

FRONT DOOR GLASS RUN

FRONT DOOR GLASS RUN : Removal and Installation

INFOID:0000000010755110

REMOVAL

CAUTION:

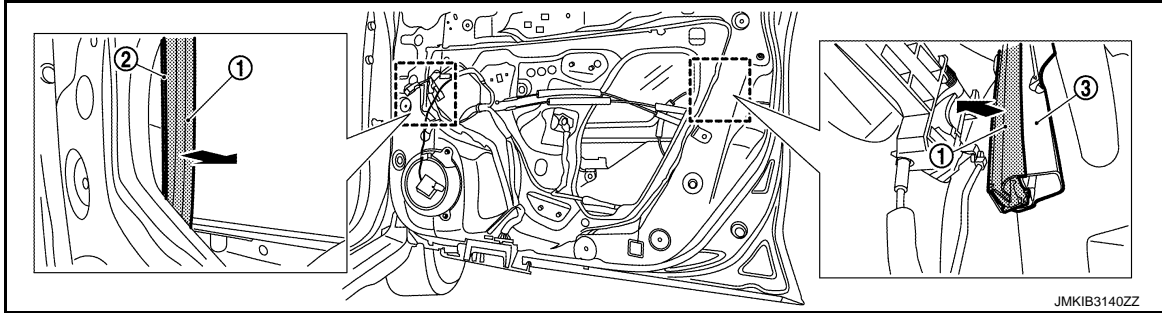
Never excessively pull front door glass run.

1. Remove front door glass. Refer to [GW-38, "FRONT DOOR GLASS : Removal and Installation"](#).
2. Remove front door glass run lower sash. Refer to [GW-43, "FRONT DOOR GLASS RUN LOWER SASH : Removal and Installation"](#).

FRONT DOOR GLASS

< REMOVAL AND INSTALLATION >

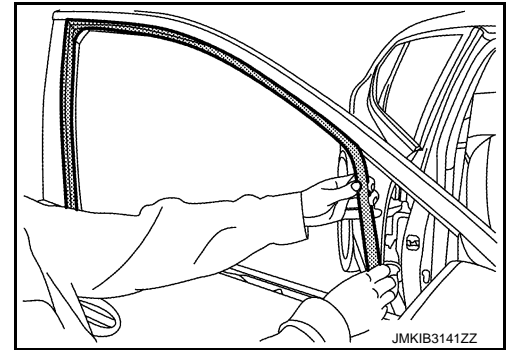
3. Remove front door glass run ① from front door lower sash ② and front door sash (door panel side) ③.



4. Remove front door glass run from front door panel.

CAUTION:

Front door glass run should be pulled out slowly.



INSTALLATION

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

CAUTION:

- Make sure that front door glass run are engaged to front door lower sash and front door sash (door panel side).
- To prevent trouble, make sure front door glass run needs to engaged to front door lower sash and front door sash (door panel side).

Inspection and Adjustment

INFOID:0000000010755111

SYSTEM INITIALIZATION

- Description. Refer to [PWC-33, "Description"](#).
- Work procedure. Refer to [PWC-33, "Work Procedure"](#).

CHECK ANTI-PINCH FUNCTION

- Description. Refer to [PWC-34, "Description"](#).
- Work procedure. Refer to [PWC-34, "Work Procedure"](#).

FITTING INSPECTION

- Check that front door glass is fit securely into the sash groove.
- Lower front door 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 DOOR REGULATOR

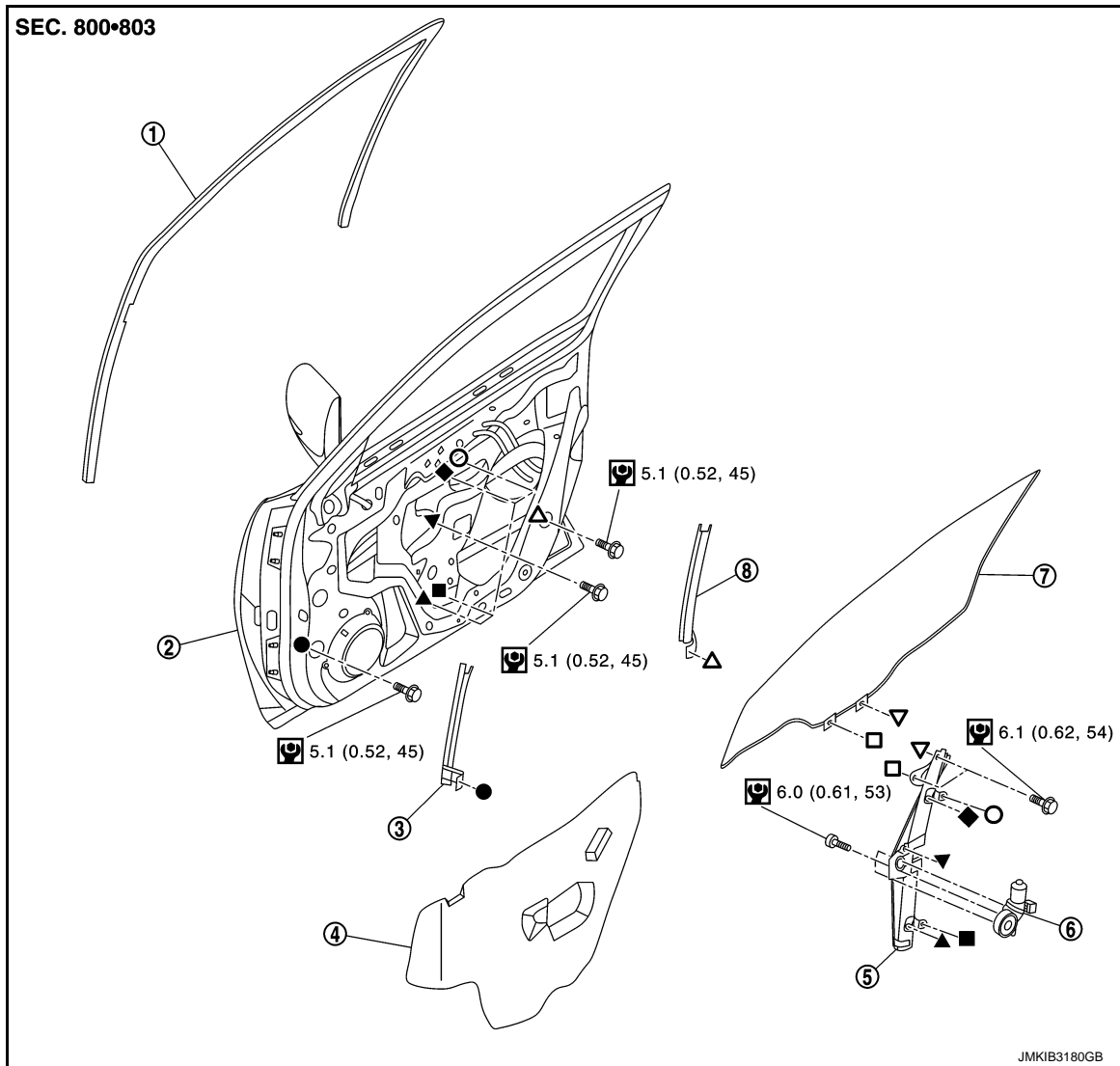
< REMOVAL AND INSTALLATION >

FRONT DOOR REGULATOR

Exploded View

INFOID:0000000010755112

RHD models



- | | | |
|-----------------------------|-----------------------------------|---------------------------------|
| ① Front door glass run | ② Front door panel | ③ Front door lower sash |
| ④ Front door sealing screen | ⑤ Front door regulator | ⑥ Front door power window motor |
| ⑦ Front door glass | ⑧ Front door glass run lower sash | |

Ⓒ : N•m (kg-m, in-lb)

●, ▲, ■, ▼, ◆, ○, △, □, ▽: Indicates that the part is connected at points with same symbol in actual vehicle.

Removal and Installation

INFOID:0000000010755113

REMOVAL

CAUTION:

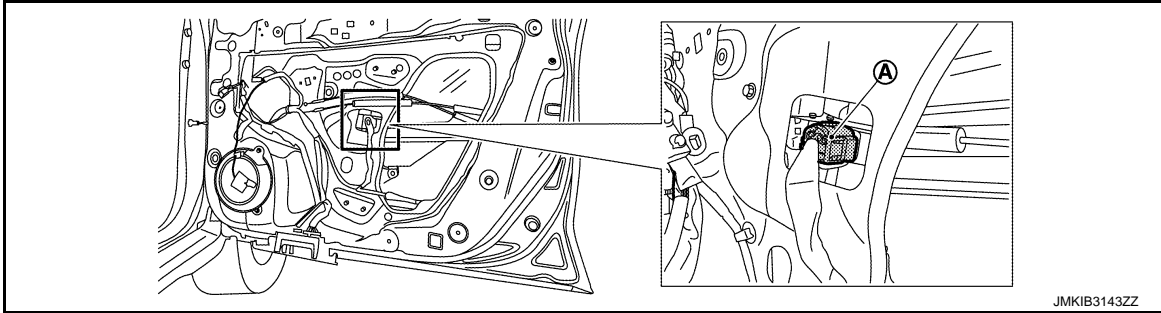
Never damage front door glass and front door panel.

1. Remove front door glass. Refer to [GW-38, "FRONT DOOR GLASS : Removal and Installation"](#).

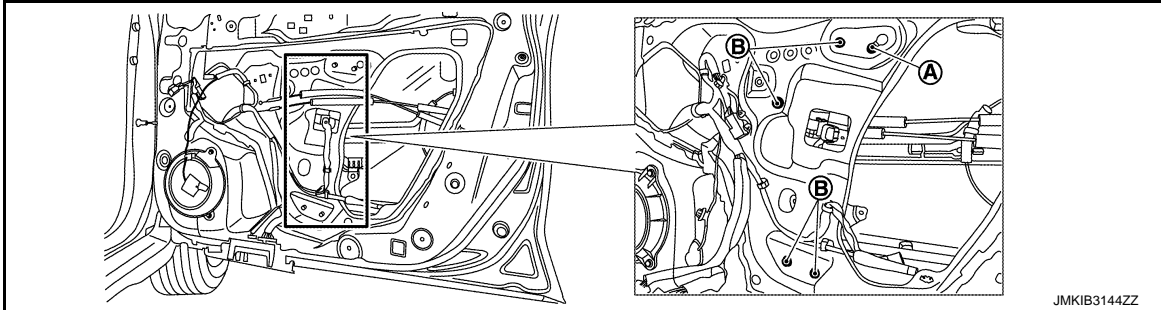
FRONT DOOR REGULATOR

< REMOVAL AND INSTALLATION >

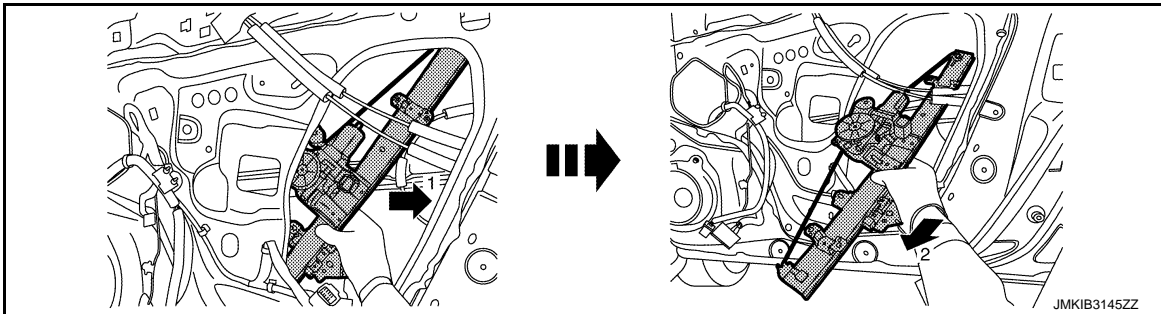
2. Disconnect front door power window motor harness connector (A).



3. Loosen front door regulator mounting bolt (A), and then remove front door regulator mounting bolts (B).



4. Remove front door regulator according to numerical order 1→2 indicated by the arrows as shown in the figure.



INSTALLATION



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

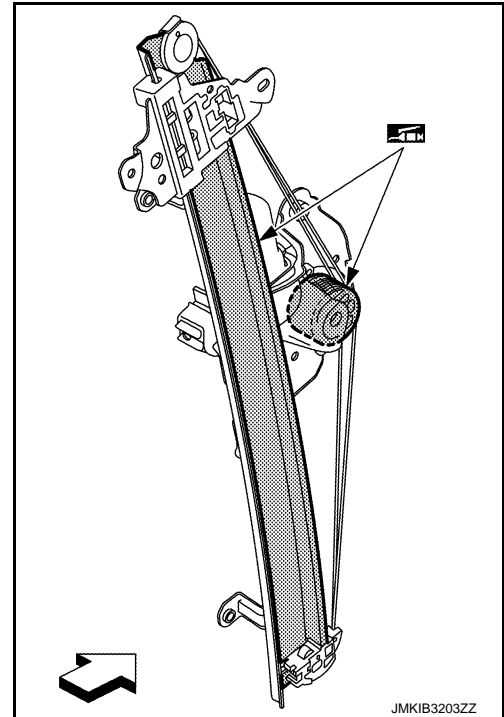
CAUTION:

FRONT DOOR REGULATOR

< REMOVAL AND INSTALLATION >

- Check front door regulator parts for lubrication. If necessary, apply body grease.

 : Body grease
 : Vehicle front



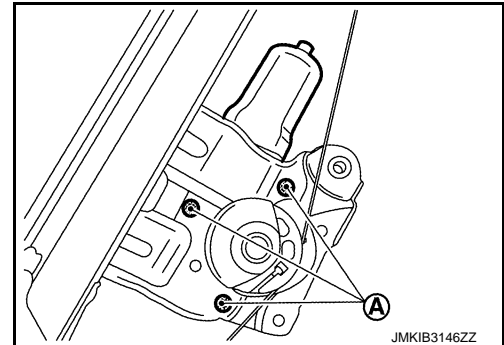
- Tighten front door regulator mounting bolts to the specified torque. Refer to [GW-47, "Exploded View"](#).

Disassembly and Assembly

INFOID:0000000010755114

DISASSEMBLY

1. Remove front door regulator. Refer to [GW-47, "Removal and Installation"](#).
2. Remove front door power window motor mounting bolts (A), and then remove front door power window motor.



ASSEMBLY

Note the following item, and then assemble in the reverse order of disassembly.

CAUTION:

Tighten front door power window motor mounting bolts to the specified torque. Refer to [GW-47, "Exploded View"](#).

Inspection and Adjustment

INFOID:0000000010755115

SYSTEM INITIALIZATION

- Description. Refer to [PWC-33, "Description"](#).
- Work procedure. Refer to [PWC-33, "Work Procedure"](#).

CHECK ANTI-PINCH FUNCTION

- Description. Refer to [PWC-34, "Description"](#).

FRONT DOOR REGULATOR

< REMOVAL AND INSTALLATION >

- Work procedure. Refer to [PWC-34, "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.

REAR DOOR GLASS

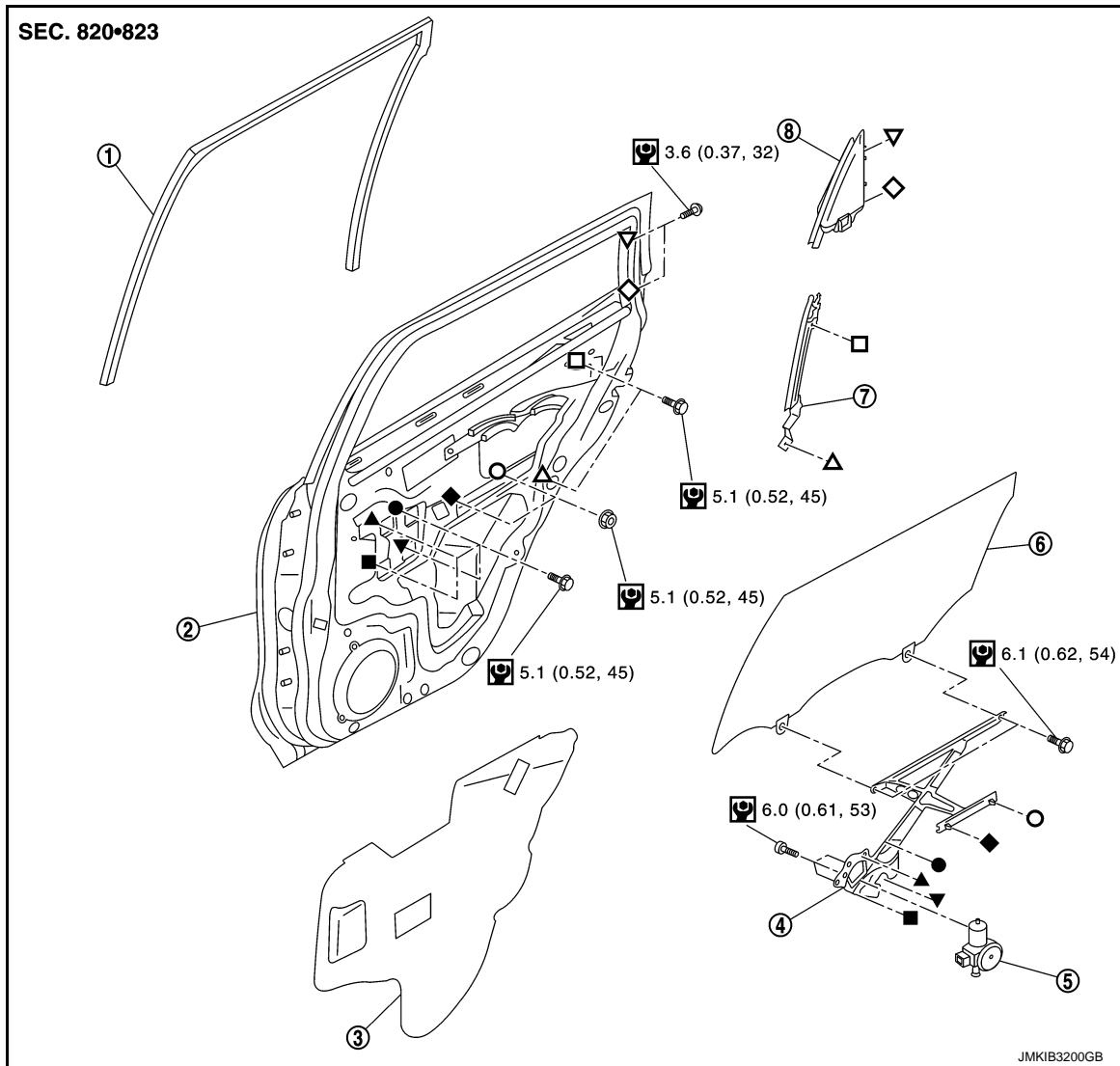
< REMOVAL AND INSTALLATION >

REAR DOOR GLASS

Exploded View

INFOID:0000000010755116

RHD models



- | | | |
|------------------------|--------------------------------|----------------------------|
| ① Rear door glass run | ② Rear door panel | ③ Rear door sealing screen |
| ④ Rear door regulator | ⑤ Rear door power window motor | ⑥ Rear door glass |
| ⑦ Rear door lower sash | ⑧ Rear door corner piece | |

: N·m (kg-m, in-lb)

●, ▲, ■, ▼, ◆, ○, △, □, ▽, ◇: Indicates that the part is connected at points with same symbol in actual vehicle.

REAR DOOR GLASS

REAR DOOR GLASS : Removal and Installation

INFOID:0000000010755117

REMOVAL

CAUTION:

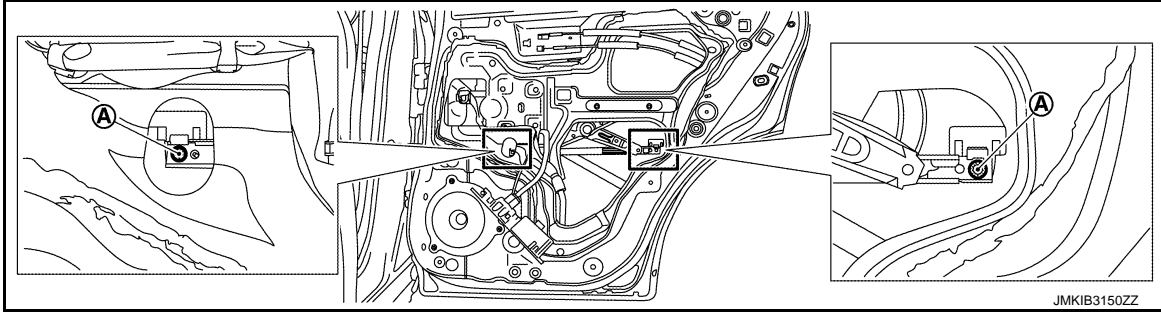
Never damage rear door glass and rear door panel.

1. Remove rear door corner piece. Refer to [GW-54, "REAR DOOR CORNER PIECE : Removal and Installation"](#).

REAR DOOR GLASS

< REMOVAL AND INSTALLATION >

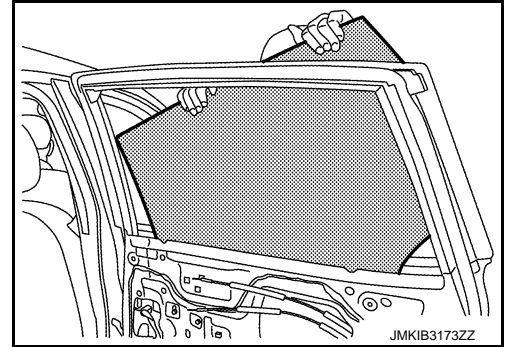
2. Operate power window switch to raise or lower rear door glass until rear door glass mounting bolts (A) can be seen, and then remove rear door glass mounting bolts.



3. Hold securely rear door glass and pull it out of rear door panel to remove rear door glass.

CAUTION:

Never damage rear door glass and rear door panel.



INSTALLATION

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

CAUTION:

Tighten rear door glass mounting bolts to the specified torque. Refer to [GW-51, "Exploded View"](#).

REAR DOOR LOWER SASH

REAR DOOR LOWER SASH : Removal and Installation

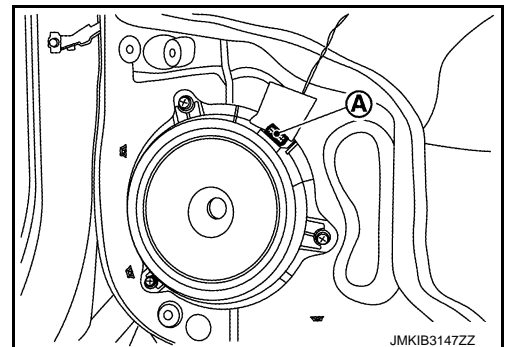
INFOID:0000000010755118

REMOVAL

CAUTION:

Never damage rear door glass and rear door panel.

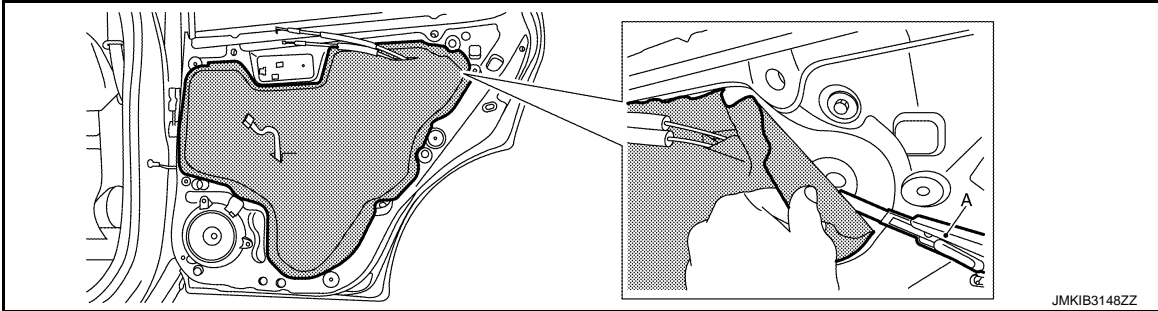
1. Fully open rear door glass.
2. Remove rear door inside handle. Refer to the following.
 - Type 1: Refer to [DLK-309, "INSIDE HANDLE : Removal and Installation"](#).
 - Type 2: Refer to [DLK-616, "INSIDE HANDLE : Removal and Installation"](#).
 - Type 3: Refer to [DLK-779, "INSIDE HANDLE : Removal and Installation"](#).
 - Type 4: Refer to [DLK-921, "INSIDE HANDLE : Removal and Installation"](#).
3. Disconnect rear door speaker harness connector (A).



REAR DOOR GLASS

< REMOVAL AND INSTALLATION >

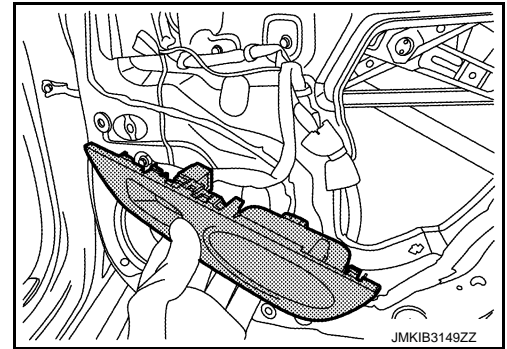
4. Cut butyl-tape inside of rear door sealing screen by using cutter knife (A).



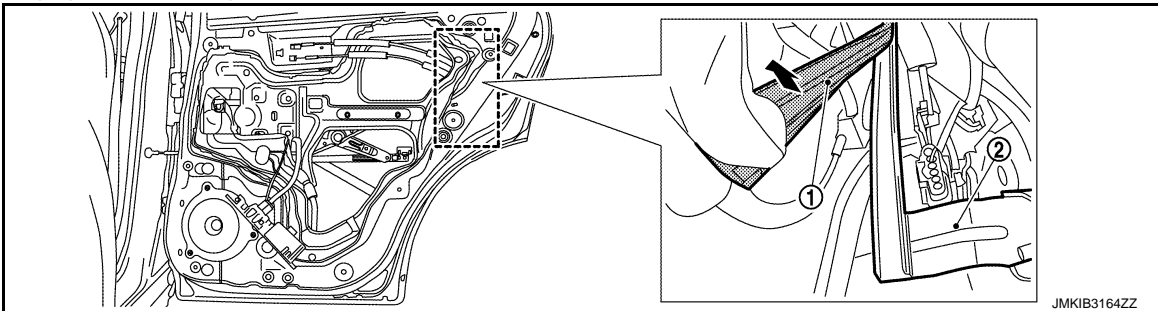
CAUTION:

Cut the butyl-tape so that remain on rear door sealing screen, if the rear door sealing screen is reused.

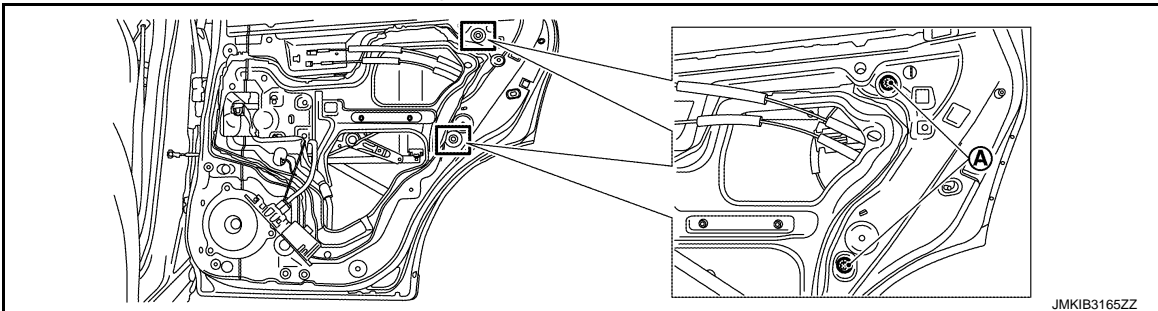
5. Reconnect power window switch.



6. Fully close rear door glass.
7. Disengage rear door glass run ① from rear door lower sash ②.



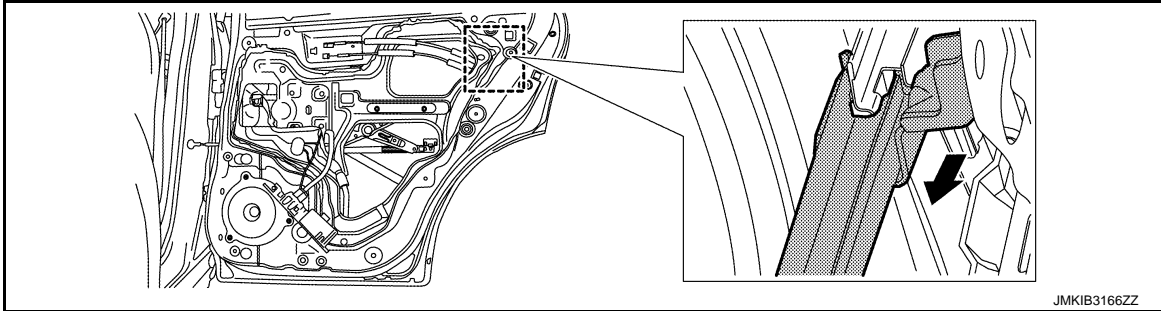
8. Remove rear door lower sash mounting bolts ①.



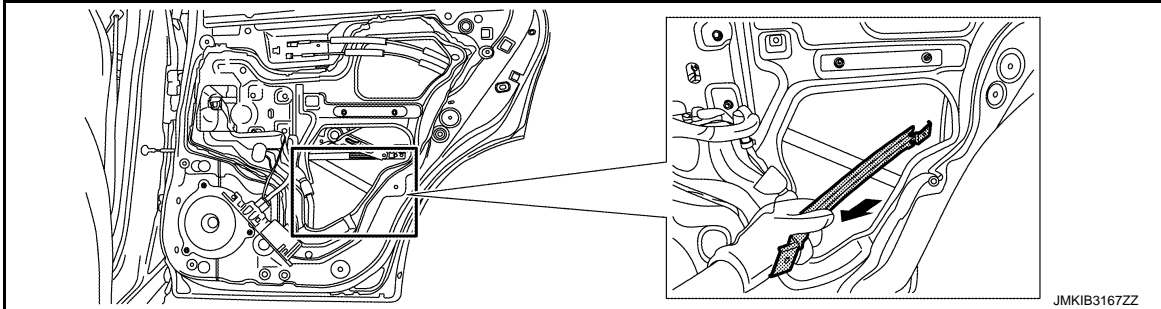
REAR DOOR GLASS

< REMOVAL AND INSTALLATION >

9. Disengage rear door lower sash from open part of rear door panel as shown by the arrow in the figure.



10. Remove rear door lower sash from open part of rear door panel as shown by the arrow in the figure.

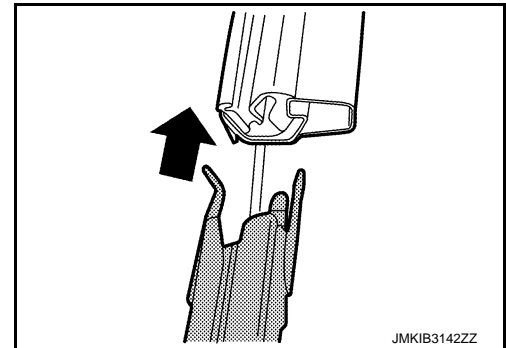


INSTALLATION

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

CAUTION:

- Make sure that rear door lower sash and rear door sash (door panel side) are engaged.



- Tighten rear door lower sash mounting bolts to the specified torque. Refer to [GW-51, "Exploded View"](#).

REAR DOOR CORNER PIECE

REAR DOOR CORNER PIECE : Removal and Installation

INFOID:0000000010755119

REMOVAL

CAUTION:

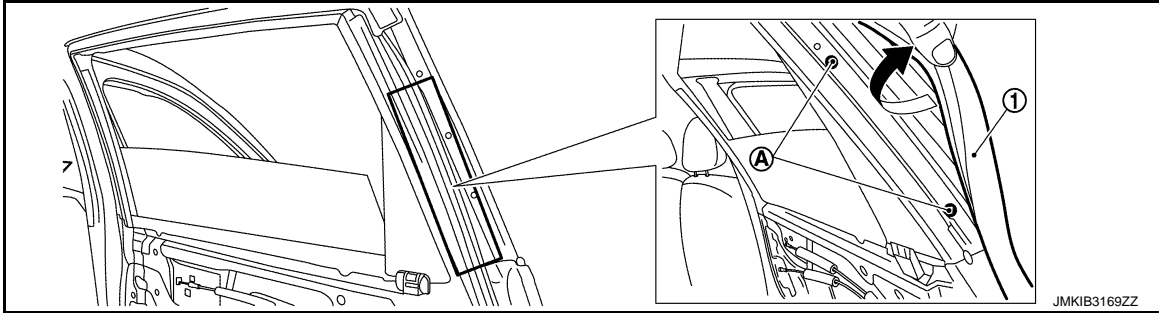
Never damage rear door glass and rear door panel.

1. Remove rear door lower sash. Refer to [GW-52, "REAR DOOR LOWER SASH : Removal and Installation"](#).
2. Fully open rear door glass.

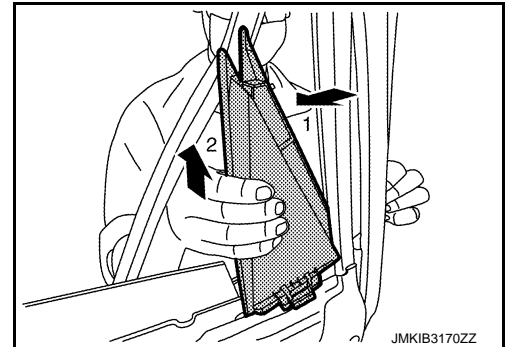
REAR DOOR GLASS

< REMOVAL AND INSTALLATION >

3. Turn over rear door weather-strip ①, and then remove rear door corner piece fixing screws ②.



4. Remove rear door corner piece from rear door panel according to numerical order 1→2 as shown by the arrow in the figure.



INSTALLATION

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

CAUTION:

Tighten rear door corner piece fixing screws the specified torque. Refer to [GW-51, "Exploded View"](#).

REAR DOOR GLASS RUN

REAR DOOR GLASS RUN : Removal and Installation

INFOID:0000000010755120

REMOVAL

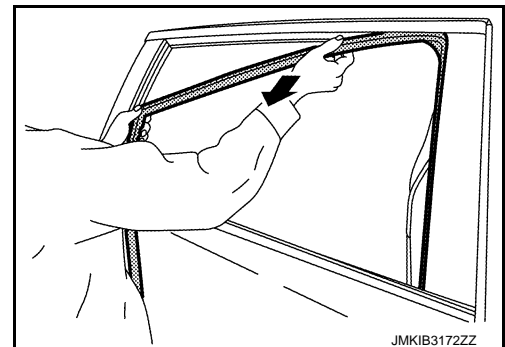
CAUTION:

Never excessively pull rear door glass run.

1. Remove rear door glass. Refer to [GW-51, "REAR DOOR GLASS : Removal and Installation"](#).
2. Remove rear door glass run from rear door panel.

CAUTION:

Rear door glass run should be pulled out slowly.



INSTALLATION

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

CAUTION:

Make sure that rear door glass run are engaged to rear door lower sash and rear door sash (door panel side).

REAR DOOR GLASS

< REMOVAL AND INSTALLATION >

Inspection and Adjustment

INFOID:0000000010755121

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 DOOR REGULATOR

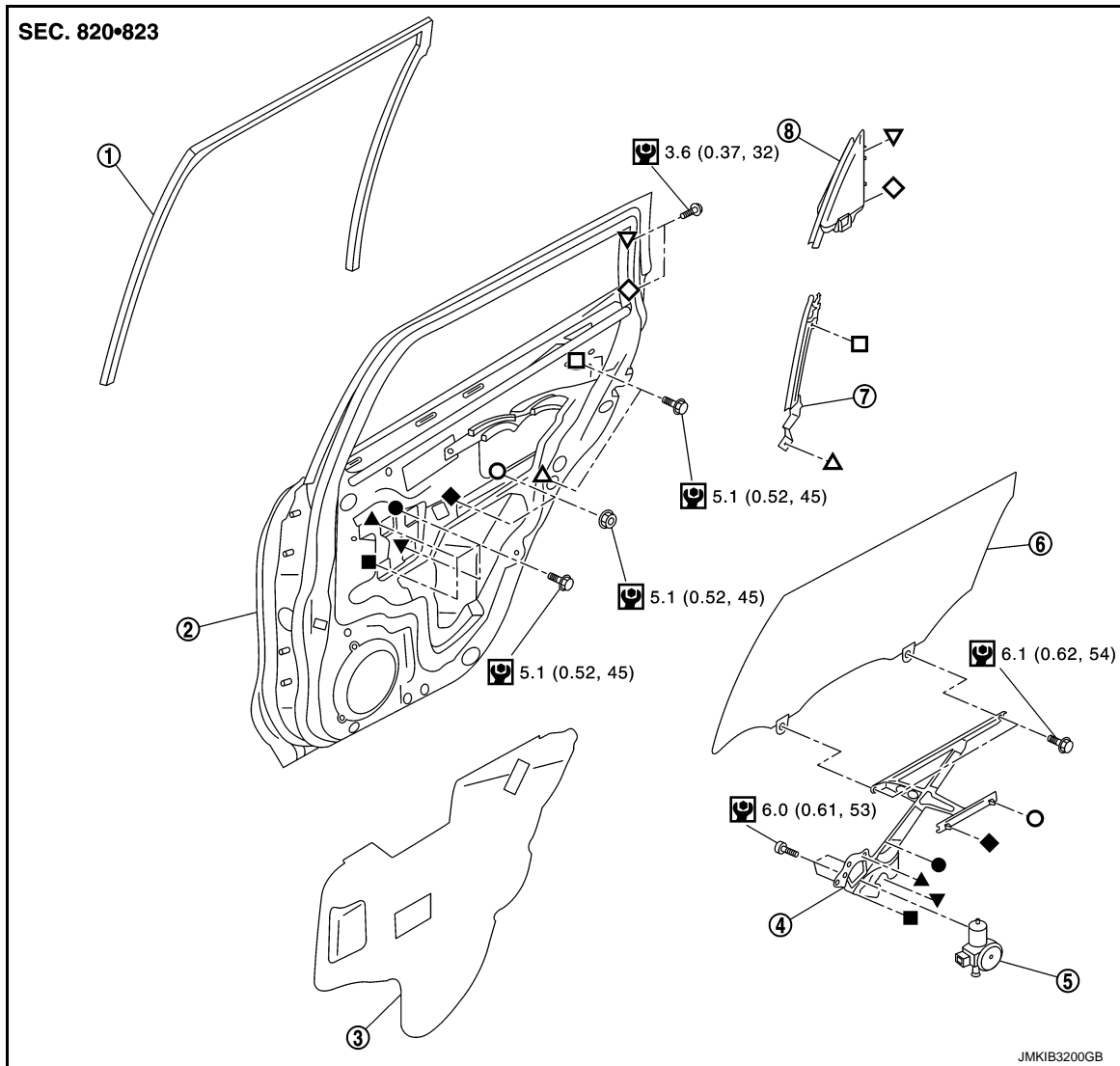
< REMOVAL AND INSTALLATION >

REAR DOOR REGULATOR

Exploded View

INFOID:0000000010755122

RHD models



- | | | |
|------------------------|--------------------------------|----------------------------|
| ① Rear door glass run | ② Rear door panel | ③ Rear door sealing screen |
| ④ Rear door regulator | ⑤ Rear door power window motor | ⑥ Rear door glass |
| ⑦ Rear door lower sash | ⑧ Rear door corner piece | |

Ⓒ : N·m (kg-m, in-lb)

●, ▲, ■, ▼, ◆, ○, △, □, ▽, ◇: Indicates that the part is connected at points with same symbol in actual vehicle.

Removal and Installation

INFOID:0000000010755123

REMOVAL

CAUTION:

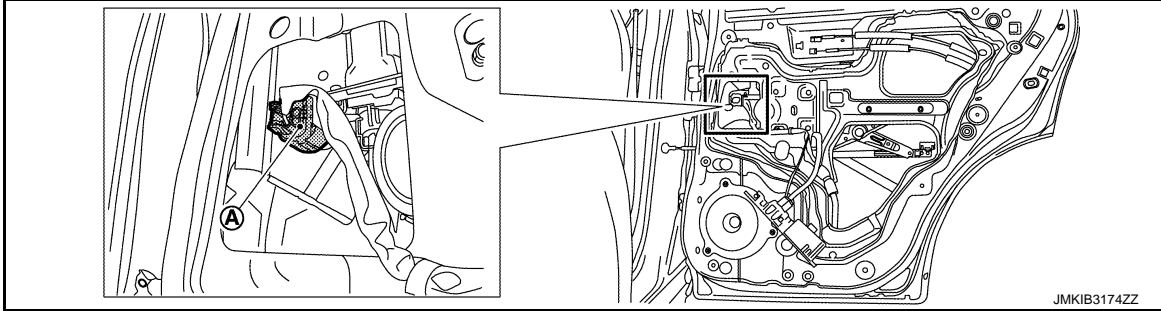
Never damage rear door glass and rear door panel.

1. Remove rear door glass. Refer to [GW-51, "REAR DOOR GLASS : Removal and Installation"](#).

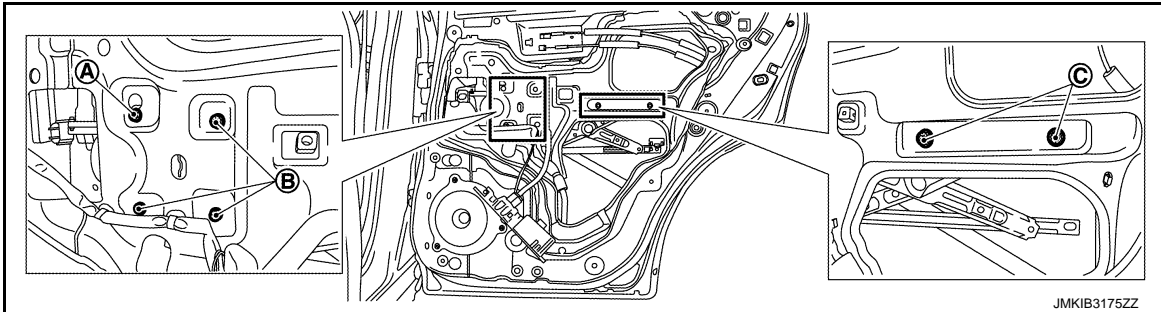
REAR DOOR REGULATOR

< REMOVAL AND INSTALLATION >

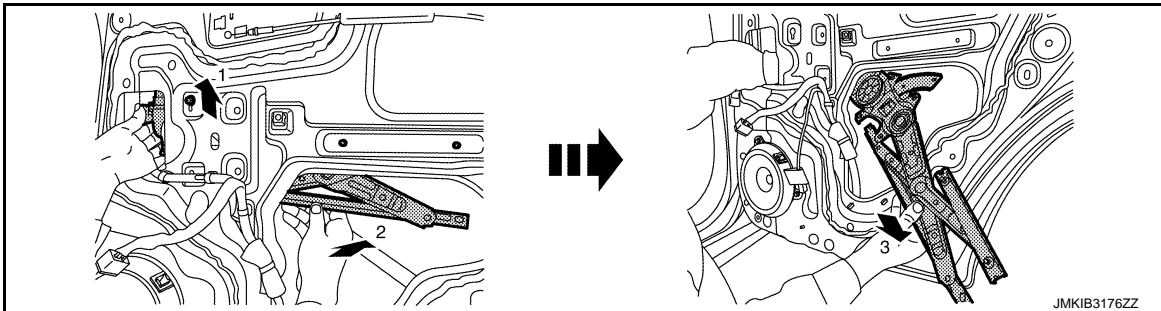
2. Disconnect rear door power window motor harness connector (A).



3. Loosen rear door regulator mounting bolt (A), and then remove rear door regulator mounting bolts (B) and mounting nuts (C).



4. Remove rear door regulator according to numerical order 1→3 indicated by the arrows as shown in the figure.

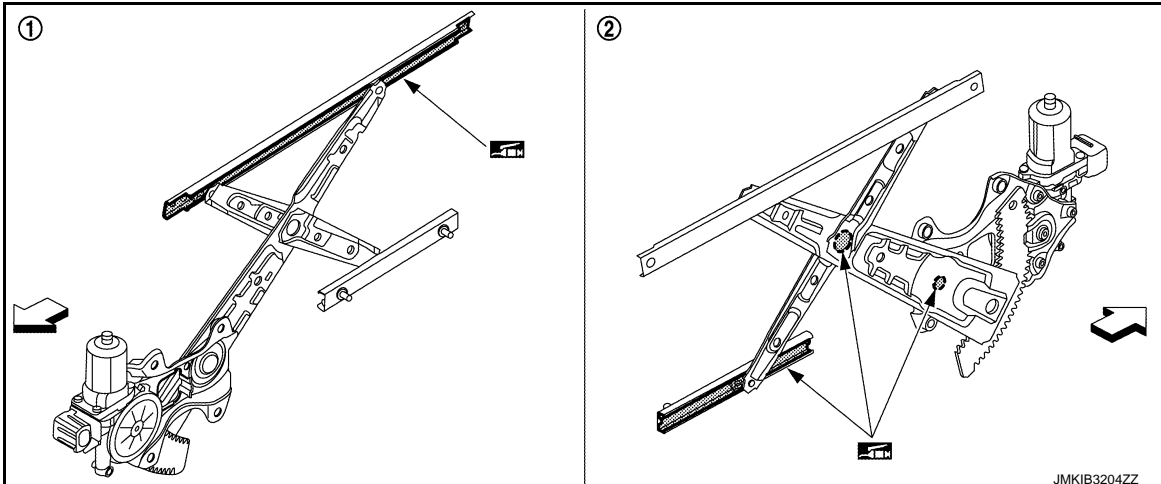


INSTALLATION

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

CAUTION:

- Check rear door regulator parts for lubrication. If necessary, apply body grease.




REAR DOOR REGULATOR

< REMOVAL AND INSTALLATION >

① Door finisher side

② Door panel side

 : Body grease

 : Vehicle front

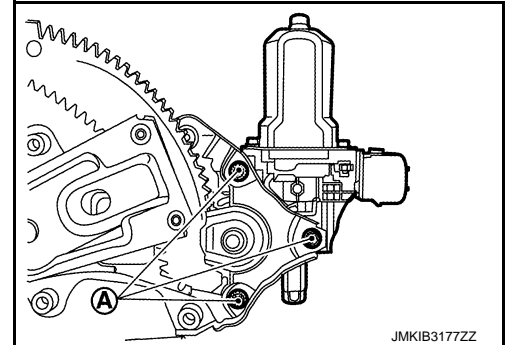
- Tighten rear door regulator mounting bolts and nuts to the specified torque. Refer to [GW-57, "Exploded View"](#).

Disassembly and Assembly

INFOID:0000000010755124

DISASSEMBLY

1. Remove rear door regulator. Refer to [GW-57, "Removal and Installation"](#).
2. Remove rear door power window motor mounting bolts ①, and then remove rear door power window motor.



ASSEMBLY

Note the following item, and then assemble in the reverse order of disassembly.

CAUTION:

Tighten rear door power window motor mounting bolts to the specified torque. Refer to [GW-57, "Exploded View"](#).

Inspection and Adjustment

INFOID:0000000010755125

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.

GW