SECTION GW
GLASS & WINDOW SYSTEM

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PRECAUTION

PRECAUTIONS

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

INFOID:0000000013550963

Risk of injury

There is a risk of injury caused by parts becoming projectiles if uncontrolled deployment of air bag or seat belt pre-tensioner occurs, or by storing air bag with the deployment side facing downwards. When scrapping air bag or seat belt pre-tensioner by means of controlled deployment, there is also a danger present if a sufficiently safe distance is not maintained, or if opening using cutting torches or other cutting tools, or due to smelting or if parts that are not yet triggered are exposed to a blaze or a smoldering fire at landfills.

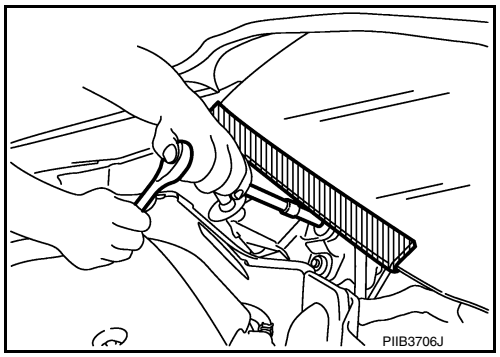
Safety instructions/precautions

- Removed air bag must always be stored with deployment side facing up.
- Acquisition, transportation, storage, testing and assembly work should only be performed or supervised by properly trained personnel.
- Install air bag or seat belt pre-tensioner immediately following retrieval from storage.
- Air bag and seat belt pre-tensioner must be protected from flying sparks, open fires and temperature exceeding 100°C (212°F).
- Never transport air bag and seat belt pre-tensioner in the passenger compartment. Store them securely in the luggage room of the vehicle in their original replacement part packaging and secure them so that they cannot slip around.
- Never allow air bag and seat belt pre-tensioner to come into contact with grease, oil, or cleaning agents.
- Perform system tests using approved testing equipment only, and only when the units are properly installed and the vehicle is unoccupied.
- Before the initial hookup of the battery or an external power supply, the ignition must be switched on and the vehicle unoccupied.
- Air bag and seat belt pre-tensioner that fall from a height of more than 0.5 m must be replaced.
- When scrapping by means of controlled deployment of air bag and seat belt pre-tensioner, a safe distance of at least 10 m must be maintained.
- Before starting work on air bag and seat belt pre-tensioner and work on components that are connected to air bag and seat belt pre-tensioner or require and intervention in their electric circuit (e.g. when removing the steering wheel):
  - Disconnect any external power sources (e.g. charger).
  - Disconnect and insulate ground line of battery
- Before starting bodywork in combination with welding or retrofitting, during which work is performed on uninsulated, current-carrying lines or require an intervention in their electric circuit (e.g. when removing the steering wheel):
  - Disconnect any external power sources (e.g. charger).
  - Disconnect and insulate ground line of battery.
  - During welding, disconnect plug connection and from control unit of air bag.
- When the air bag deploys, the pyrofuse activates and the power source from the battery is disconnected. This prevents possible fires caused by electric leakage after an accident occurs.

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.



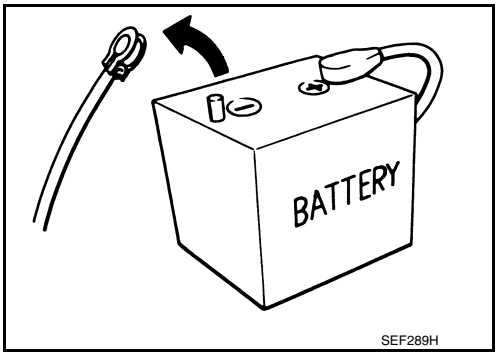
Precautions for Removing Battery Terminal

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When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		



NOTE:
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:
- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.

- 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.

Handling for Adhesive and Primer

INFOID:0000000013550966

- 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.

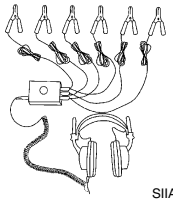
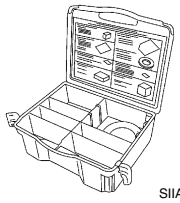
PREPARATION

PREPARATION

Special Service Tools

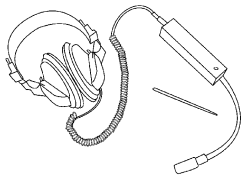
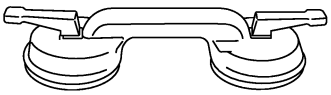
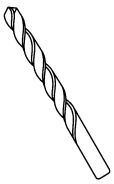
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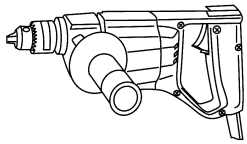
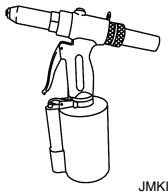
The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
(J-39570) Chassis ear	 SIIA0993E	Locates the noise
(J-50397) NISSAN Squeak and Rattle Kit	 SIIA0994E	Repairs the cause of noise

Commercial Service Tools

INFOID:0000000013550967

Tool name		Description
Engine ear	 SIIA0995E	Locates the noise
Suction lifter	 PIIB1805J	Removal, installation and holds the windshield glass, glass roof and back door window glass
Drill bit	 JMKIB6043ZZ	Removal rivet of door module (front and rear) **NOTE:** Drill bit diameter: ϕ 7

Tool name		Description
Drill	 JMKIB6044ZZ	Removal rivet of door module (front and rear)
Pneumatic riveter	 JMKIB6045ZZ	Instating door module (front and rear) **NOTE:** Pneumatic riveter should be applied the following rivet. • Rivet (Nominal) diameter: ϕ 6.4 • Stroke: More than 16 mm

Lubricant or/and Sealant

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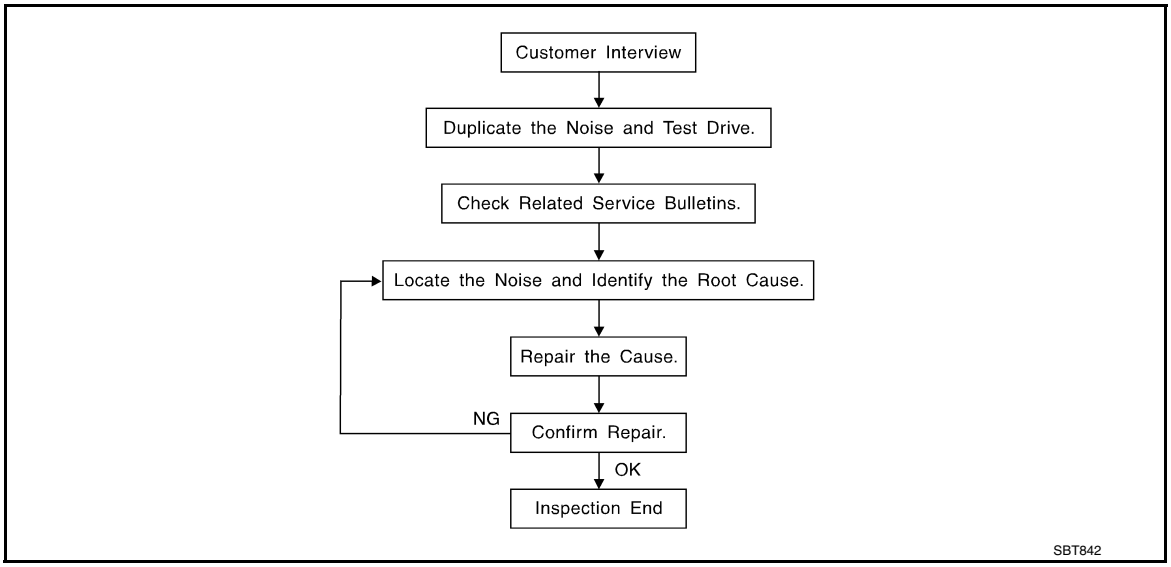
Name	Description	Note
Assembly cleaner	Clean the adhisive surface	Assembly cleaner (Adolf Würth GmbH & Co.KG), or equivalent
Primer stick	Repair of the painted surface	Primer stick (Motip Dupli GmbH) or equivalent
Hepox 2K EP primer filler 4017 (Spray Max)		Hepox 2K EP primer filler 4017 (Spies Hecker GmbH), or equivalent
Repair kit for installing windshield, 1-component adhesive	Install the windshield glass	Repair kit for installing windshield, 1-component adhesive(Sika Automotive GmbH), or equivalent
Glazing repair kit, 2-component adhesive		Glazing repair kit, 2-component adhesive (Sika Automotive GmbH), or equivalent
Lubricant, rubber assembly 1l	Paint to glass run (front/rear)	Lubricant, rubber assembly (Caramba Chemie GmbH), or equivalent

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000013550969



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer comments. Refer to 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, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a test drive with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so that the customer, service adviser, and technician use the same language when describing the noise.
- Squeak – (Like tennis shoes on a clean floor)
  Squeak characteristics include the light contact / fast movement / brought on by road conditions / hard surfaces = high-pitched noise / softer surfaces = low-pitched noises / edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
  Creak characteristics include firm contact / slow movement/twisting with a rotational movement / pitch dependent on materials / often brought on by activity.
- Rattle – (Like shaking a baby rattle)
  Rattle characteristics include fast repeated contact / vibration or similar movement / loose parts/missing clip or fastener / incorrect clearance.
- Knock – (Like a knock on a door)
  Knock characteristics include hollow sounds / sometimes repeating / often brought on by driver action.
- Tick – (Like a clock second hand)
  Tick characteristics include gentle contacting of light materials / loose components / can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
  Thump characteristics include softer knock / dull sounds often brought on by activity.
- Buzz – (Like a bumblebee)
  Buzz characteristics include high frequency rattle / firm contact.
- Often the degree of acceptable noise level varies depending upon the person. A noise that a technician may judge as acceptable may be very irritating to a customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.
If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following items:
1) Close a door.
2) Tap or push/pull around the area where the noise appears to be coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle “twist”.
5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.

- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to the concern or symptom.
If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, engine ear, and mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:

- Removing the component(s) in the area that is / are suspected to be the cause of the noise.
  Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component(s) that is / are suspected to be the cause of the noise.
  Do not tap or push/pull the component(s) with excessive force, otherwise the noise is eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is / are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
  Refer to 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 components, if possible.
- Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape, or urethane tape. A NISSAN Squeak and Rattle Kit (J-50397) is available through the authorized NISSAN Parts Department.

CAUTION:
Never use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the NISSAN Squeak and Rattle Kit (J-50397). Are listed on inside cover of the kit; and can each be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
- 76268-9E005: 100 × 135 mm (3.937 ×5.315 in)
- 76884-71L01: 60 × 85 mm (2.362 × 3.346 in)
- 76884-71L02: 15 × 25 mm (0.591 × 0.984 in)

INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
- 73982-9E000: 45 mm (1.772 in) thick, 50 × 50 mm (1.969 × 1.969 in)
- 73982-50Y00: 10 mm (0.394 in) thick, 50 × 50 mm (1.969 × 1.969 in)

INSULATOR (Light foam block)
80845-71L00: 30 mm (1.181 in) thick, 30 × 50 mm (1.181 × 1.969 in)
FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.
- 68370-4B000: 15 × 25 mm (0.591 × 0.984 in) pad
- 68239-13E00: 5 mm (0.197 in) wide tape roll

The following materials, not found in the kit, can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.
SILICONE GREASE
Used in place of UHMW tape that is visible or does not fit. Only lasts a few months.
SILICONE SPRAY
Used when grease cannot be applied.
DUCT TAPE
Used to eliminate movement.

CONFIRM THE REPAIR

After repair is complete, test drive the vehicle to confirm that the cause of 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

INFOID:0000000013550970

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. Sun visor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

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

SEATS

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

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.

Diagnostic Worksheet

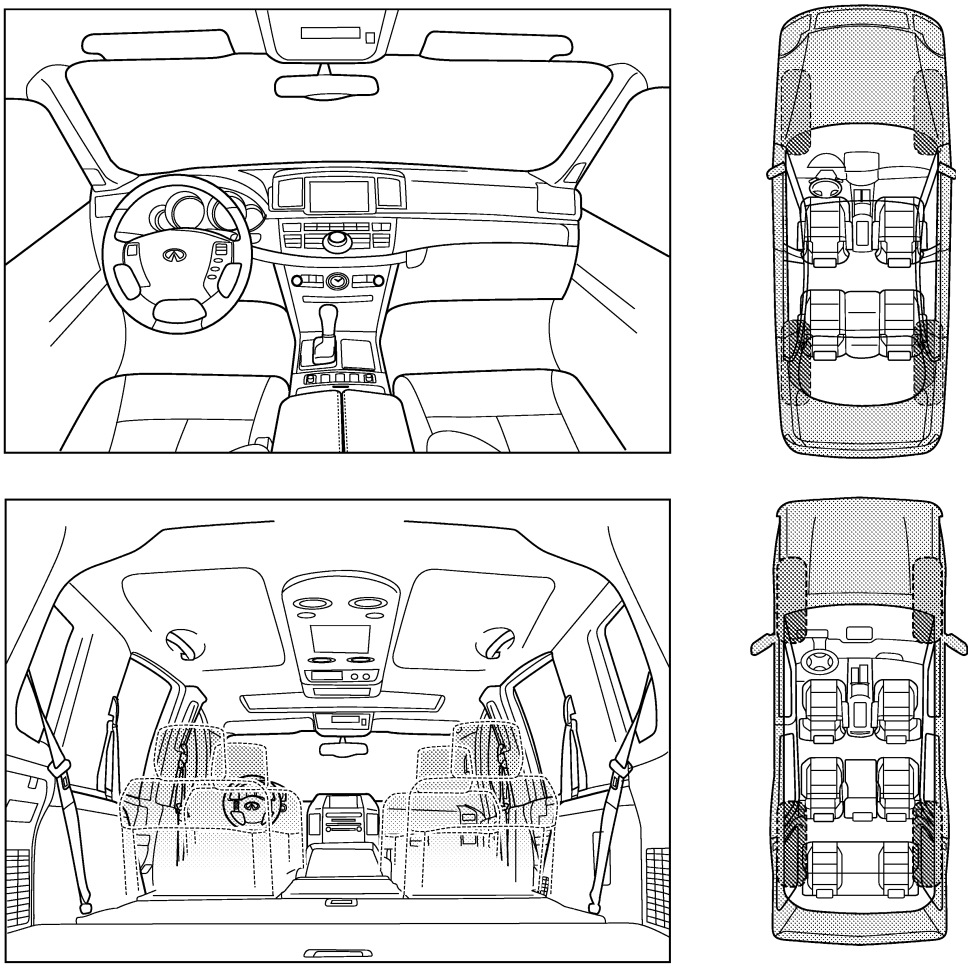
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INFINITI

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti 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 consultant 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.

PIIB8741E

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)

- ☐ anytime
- ☐ 1st time in the morning
- ☐ only when it is cold outside
- ☐ only when it is hot outside
- ☐ after sitting out in the rain
- ☐ when it is raining or wet
- ☐ dry or dusty conditions
- ☐ 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	☐	☐	_____
- Noise verified on test drive	☐	☐	_____
- Noise source located and repaired	☐	☐	_____
- Follow up test drive performed to confirm repair	☐	☐	_____

VIN: _____ Customer Name: _____

W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

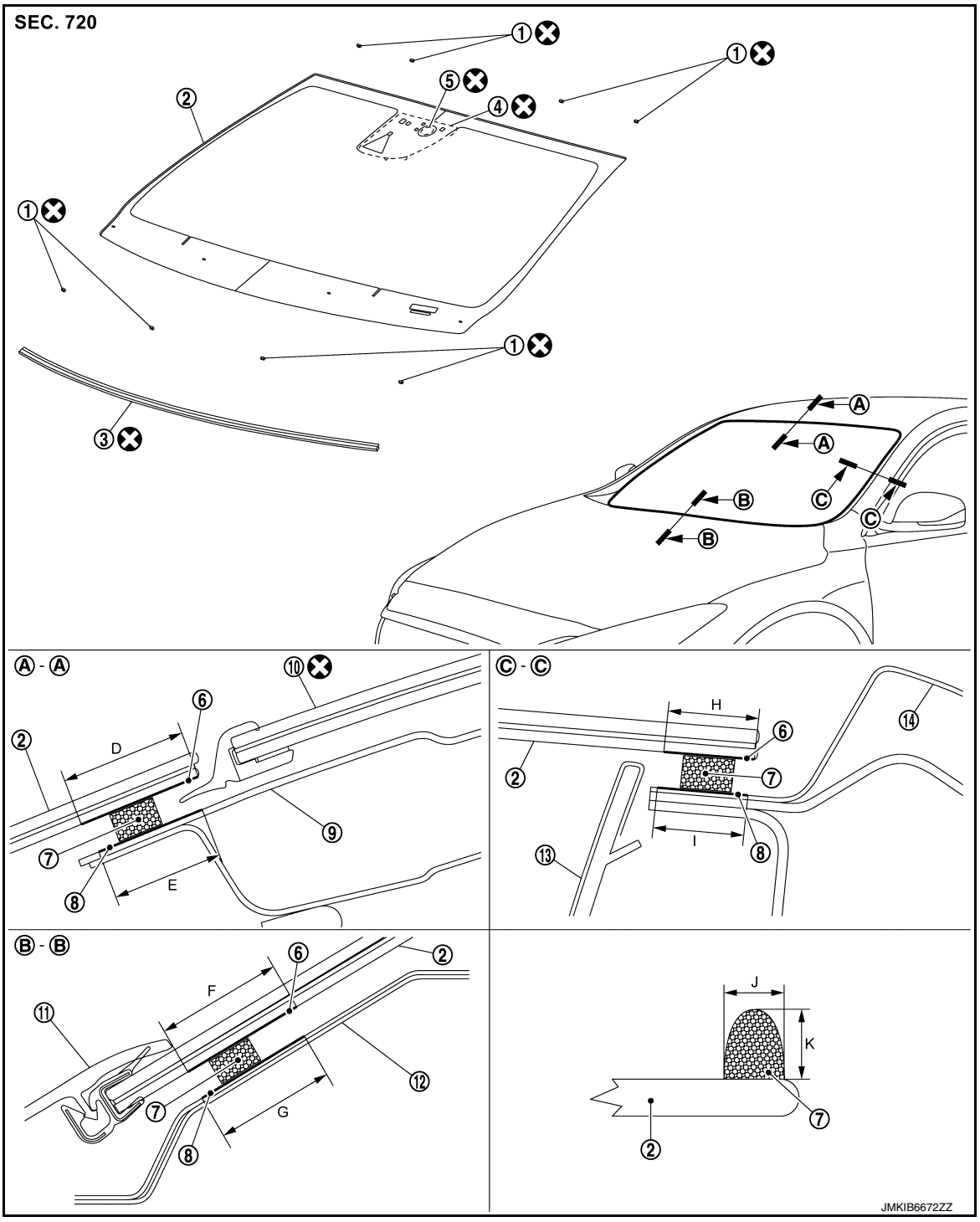
REMOVAL AND INSTALLATION

WINDSHIELD GLASS

Exploded View

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WITH GLASS ROOF AND FRONT CAMERA



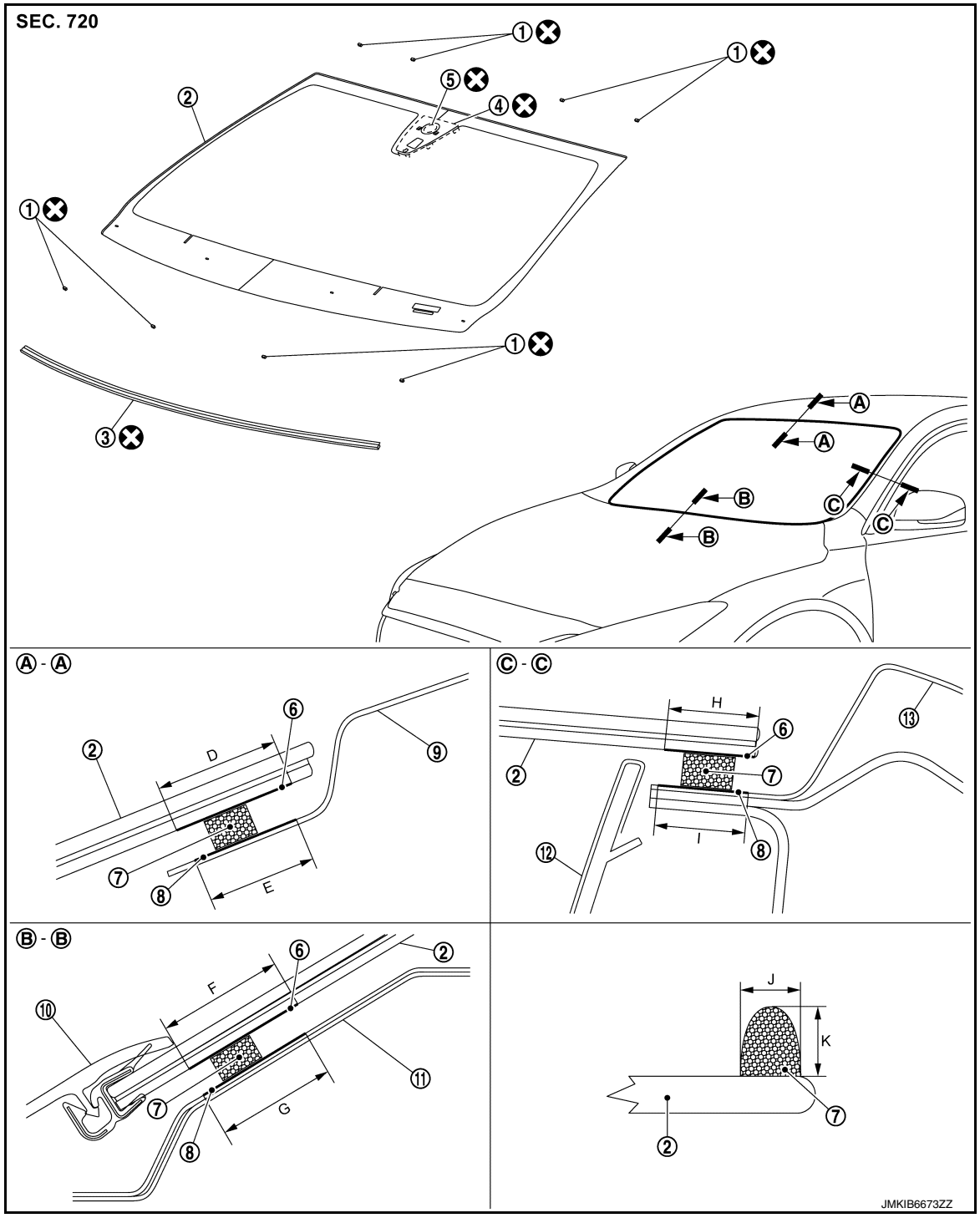
① Windshield glass spacer
② Windshield glass
③ Windshield glass molding
④ Electric unit bracket
⑤ Inside mirror base
⑥ Glass primer
⑦ Adhesive
⑧ Painted surface primer
⑨ Roof panel

⑩ Glass roof ⑪ Cowl top cover ⑫ Cowl top panel
⑬ Front pillar garnish ⑭ Body side outer panel
⊗ : Always replace after every disassembly.

Unit: mm (in)

Portion			Primer range	Adhesive range	
				J	K
Windshield glass – Glass roof	Ⓐ – Ⓐ	D	22.0 – 25.0 (0.87 – 0.98)	7.0 (0.276)	12.0 (0.472)
		E	20.0 (0.79)	—	—
Windshield glass – Cowl top panel	Ⓑ – Ⓑ	F	22.0 – 25.0 (0.87 – 0.98)	7.0 (0.276)	12.0 (0.472)
		G	23.0 (0.91)	—	—
Windshield glass – Body side outer panel	Ⓒ – Ⓒ	H	16.0 (0.63)	7.0 (0.276)	12.0 (0.472)
		I	15.0 (0.59)	—	—

WITHOUT GLASS ROOF AND FRONT CAMERA



① Windshield glass spacer
② Windshield glass
③ Windshield glass molding
④ Electric unit bracket
⑤ Inside mirror base
⑥ Glass primer
⑦ Adhesive
⑧ Painted surface primer
⑨ Roof panel
⑩ Cowl top cover
⑪ Cowl top panel
⑫ Front pillar garnish
⑬ Body side outer panel
⊗ : Always replace after every disassembly.

Unit: mm (in)

Portion			Primer range	Adhesive range	
				J	K
Windshield glass – Roof panel	Ⓐ – Ⓐ	D	22.0 – 25.0 (0.87 – 0.98)	7.0 (0.276)	12.0 (0.472)
		E	20.0 (0.79)	—	—
Windshield glass – Cowl top panel	Ⓑ – Ⓑ	F	22.0 – 25.0 (0.87 – 0.98)	7.0 (0.276)	12.0 (0.472)
		G	23.0 (0.91)	—	—
Windshield glass – Body side outer panel	Ⓒ – Ⓒ	H	16.0 (0.63)	7.0 (0.276)	12.0 (0.472)
		I	15.0 (0.59)	—	—

Removal and Installation

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REMOVAL

Replacement Windshield Glass

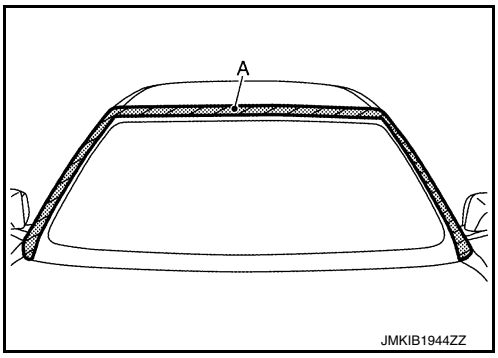
CAUTION:

Never damage glass roof (with glass roof) and each body panel.

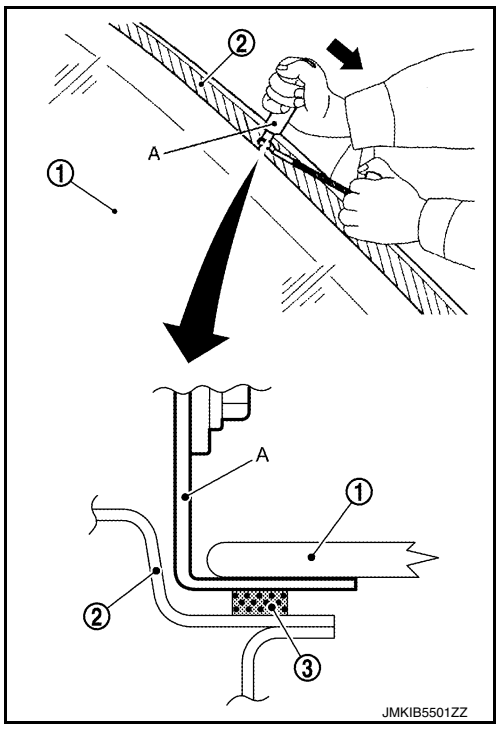
1. Remove inside mirror. Refer to MIR-66, "Removal and Installation".
2. Remove front camera unit. Refer to DAS-176, "Removal and Installation". (With front camera)
3. Remove headlining assembly. Refer to INT-33, "Removal and Installation".
4. Remove roof side molding (LH and RH). Refer to EXT-48, "Removal and Installation".
5. Remove cowl top cover. Refer to EXT-35, "Removal and Installation".
6. Apply protective tapes (A) on glass roof or roof panel and body side outer panel around windshield glass to protect painted surface from damage.

   CAUTION:

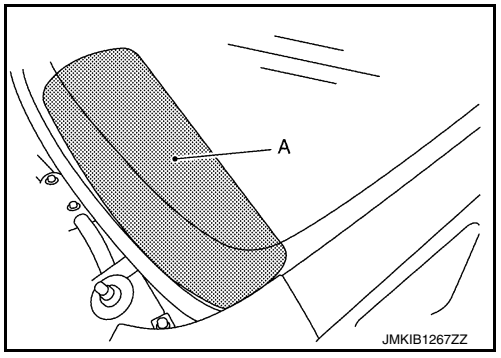
   Apply thick protective tape to try not to damage glass roof (with glass roof).



7. Insert a windshield cutter (A) between windshield glass ① and body panel ②. Cut the adhesive ③ by pulling the windshield cutter, keeping the tip parallel to the edge of windshield glass.
CAUTION:
Use piano wire to cut adhesive if its difficult to use windshield cutter.

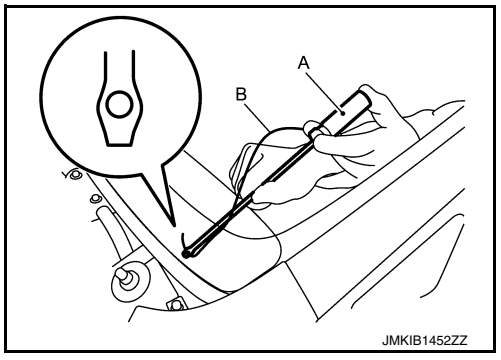


8. Apply protective standish cover (A) on instrument panel to protect it from damage.

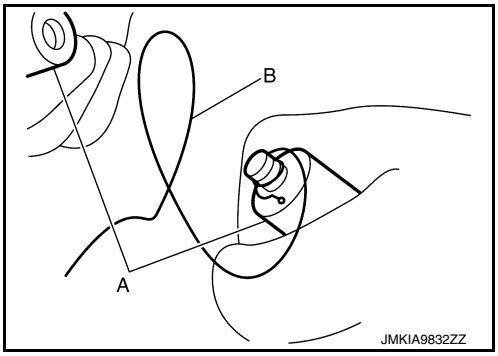


9. Cut the adhesive using a piano wire.

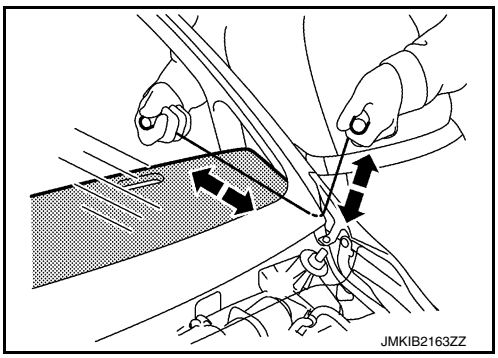
a. Pass the piano wire (B) from passenger room to bonded area of glass using a wire pierce (A).
CAUTION:
- **Never use plane surface of wire pierce tip vertically.**
- **Never press piano wire excessively against edge of glass.**
- **Never damage surrounding parts.**



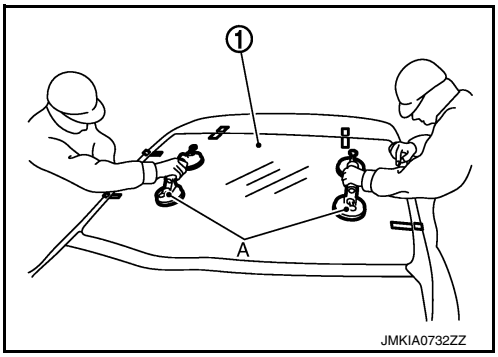
b. Tie both ends of the piano wire (B) to the wire grip (A), etc.



c. To cut adhesive by using a piano wire alongside of windshield glass and body panel.
CAUTION:
- **Never press piano wire excessively against edge of glass.**
- **To cut adhesive, 2 workers are required by all means.**



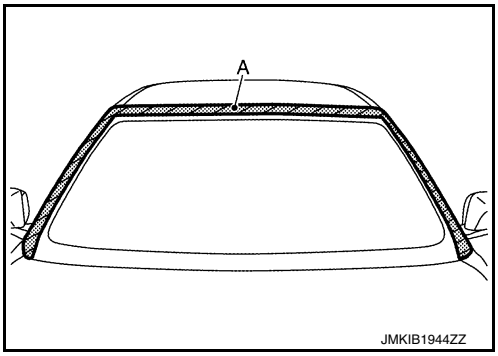
10. Use suction lifter (A) or rubber suction cups, etc. to remove windshield glass ① from the vehicle.
CAUTION:
Due to weight of windshield glass, 2 workers are required by all means.



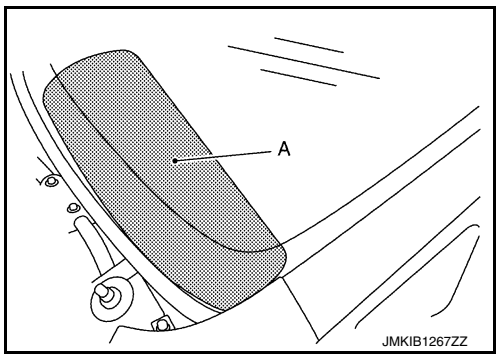
Reuse Windshield Glass

CAUTION:
- **Never use a windshield cutter if the windshield glass is reused. (It may scratch the glass surface)**
- **Never damage glass roof (with glass roof) and each body panel.**

1. Remove inside mirror. Refer to MIR-66, "Removal and Installation".
2. Remove front camera unit. Refer to DAS-176, "Removal and Installation". (With front camera)
3. Remove headlining assembly. Refer to INT-33, "Removal and Installation".
4. Remove roof side molding (LH and RH). Refer to EXT-48, "Removal and Installation".
5. Remove cowl top cover. Refer to EXT-35, "Removal and Installation".
6. Apply protective tapes (A) on glass roof or roof panel and body side outer panel around windshield glass to protect painted surface from damage.
CAUTION:
Apply thick protective tape to try not to damage glass roof (with glass roof).



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

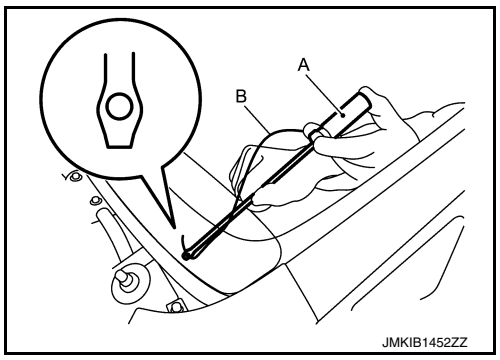


8. Cut the adhesive using a piano wire.

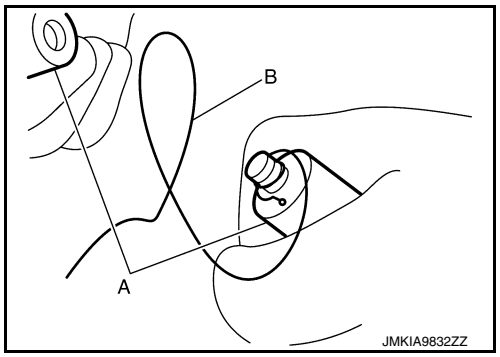
a. Pass the piano wire (B) from passenger room to bonded area of glass using a wire pierce (A).

CAUTION:

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



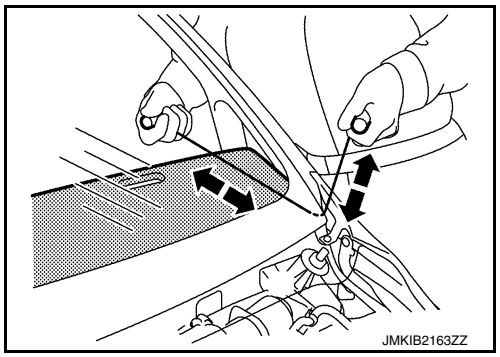
b. Tie both ends of the piano wire (B) to the wire grip (A), etc.



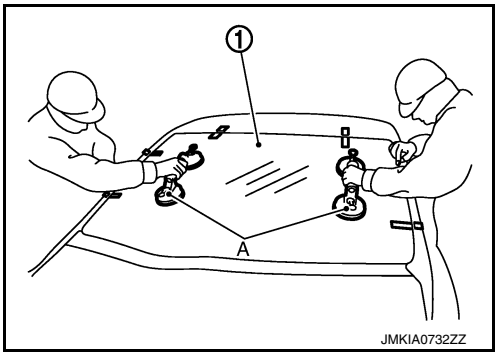
c. To cut adhesive by using a piano wire alongside of windshield glass and body panel.

CAUTION:

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



9. Use suction lifter (A) or rubber suction cups, etc. to remove windshield glass ① from the vehicle.
CAUTION:
Due to weight of windshield glass, 2 workers are required by all means.



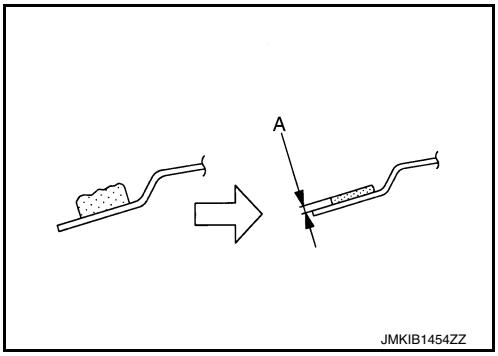
10. Put the marking tape around the windshield glass spacers and remove it from the windshield glass.
CAUTION:
Make sure to put the marking tape when removing the used windshield glass spacers, as this will serve as a guide for installing the new windshield glass spacers.

INSTALLATION

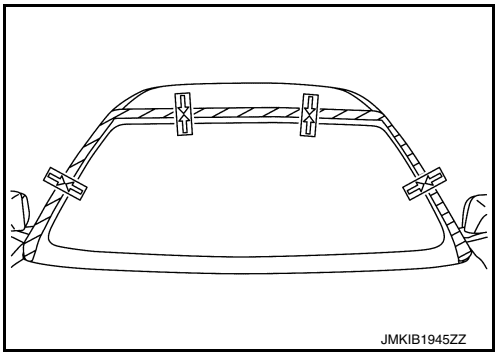
Replacement Windshield Glass

CAUTION:
Never damage new windshield glass, roof glass (with glass roof) and each body panel.

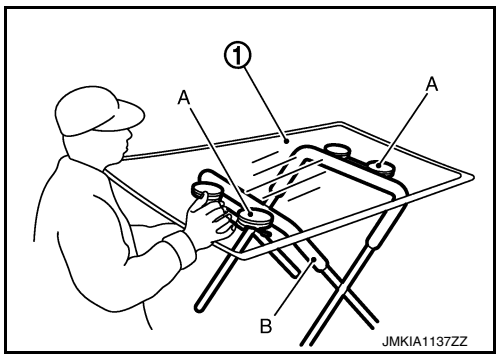
1. Use a cutter knife or scraper, and leave the adhesive and sealant on the body side approximately 2 mm (0.079 in) (A) to make adhesive and sealant surface smooth.
CAUTION:
Smooth out adhesive and sealant surface.



2. Clean the bonded area on body side using a cleaner from repair kit rub dry with rag. [Glazing repair kit, 2-component adhesive (A 220 670 00 93) (Sika Automotive GmbH), Repair kit for installing windshield, 1-component adhesive (A 221 670 81 01) (Sika Automotive GmbH), or equivalent]
3. Repair paint damage in bonded area and on body side using a primer stick or primer filler. [Primer stick (A 000 986 27 50) (Motip Dupli GmbH), Hepox 2K EP primer filler 4017 (Spies Hecker GmbH), or equivalent]
CAUTION:
Observe the manufacturer's specifications for the curing and processing time of the primer filler.
4. Place new windshield glass on the vehicle temporarily, put on matching marks on new windshield glass, glass roof or 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.



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



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

6. Clean the bonded area on glass side using a cleaner from repair kit rub dry with rag. [Glazing repair kit, 2-component adhesive (A 220 670 00 93) (Sika Automotive GmbH), Repair kit for installing windshield, 1-component adhesive (A 221 670 81 01) (Sika Automotive GmbH), or equivalent]

CAUTION:
The bonded area on new windshield glass must be absolutely free of dust and grease.

7. Apply primer along the entire circumference of new windshield glass. [Glazing repair kit, 2-component adhesive (A 220 670 00 93) (Sika Automotive GmbH), Repair kit for installing windshield, 1-component adhesive (A 221 670 81 01) (Sika Automotive GmbH), or equivalent]

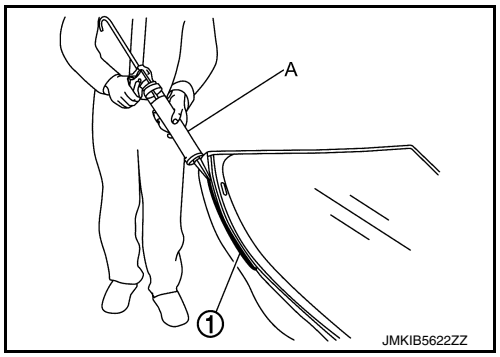
CAUTION:
- **To dry primer during the time indicated by the primers manufacturer.**
- **The primer must flash off for at least 10 minutes. Otherwise the adhesive effect of the adhesive material will be impaired.**

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

8. Apply primer to the body side bonding surface. [Glazing repair kit, 2-component adhesive (A 220 670 00 93) (Sika Automotive GmbH), Repair kit for installing windshield, 1-component adhesive (A 221 670 81 01) (Sika Automotive GmbH), or equivalent]

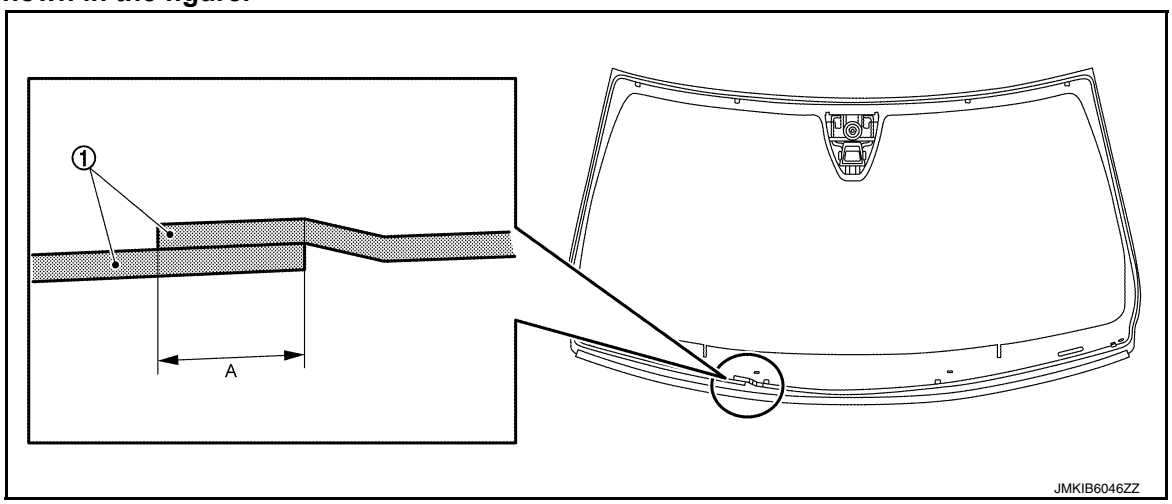
CAUTION:
- **To dry painted surface primer during the time indicated by the primers manufacturer.**
- **If painted surfaces primer adheres to a painted surface other than the bonding area, or if it overflows, quickly remove it with white gasoline or degreasing agent.**
- **Make sure to apply the correct coating amount of painted surface primer. In case the amount of painted surface primer is in excess, the primer risk to overflow from windshield glass and each body panel. This may deteriorate the vehicle appearance.**

9. Apply adhesive ① to entire circumference of new windshield glass by using a sealant gun (A). [Glazing repair kit, 2-component adhesive (A 220 670 00 93) (Sika Automotive GmbH), Repair kit for installing windshield, 1-component adhesive (A 221 670 81 01) (Sika Automotive GmbH), or equivalent]



CAUTION:
- **Use the sealing kit for glass application and the special holder for cartridge or similar tools.**
- **Make sure to apply the correct coating amount of adhesive. In case the amount of adhesive is not sufficient, windshield glass risks to drop.**
- **Make sure to apply the correct coating amount of adhesive. In case the amount of adhesive is in excess, the adhesive risk to overflow from windshield glass and each body panel. This may deteriorate the vehicle appearance.**

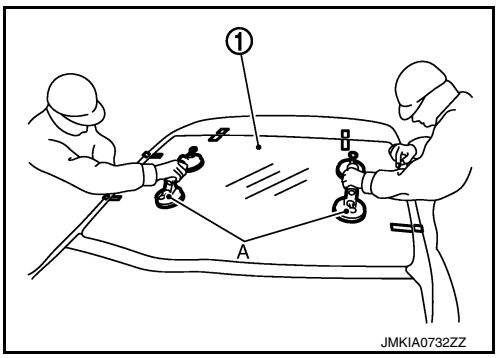
- **The starting point and the finishing point of the adhesive ① should be put together any gap as shown in the figure.**



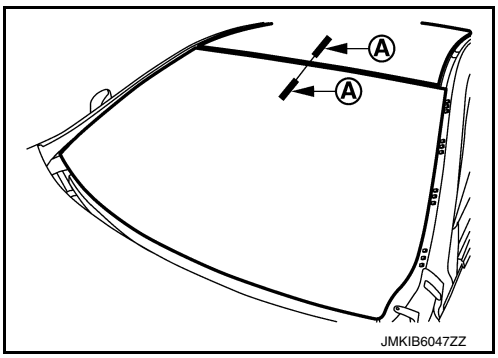
A : Overlapping area [30 mm (1.18 in)]

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 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. Adjust the clearance between the new windshield glass and glass roof or roof panel evenly.

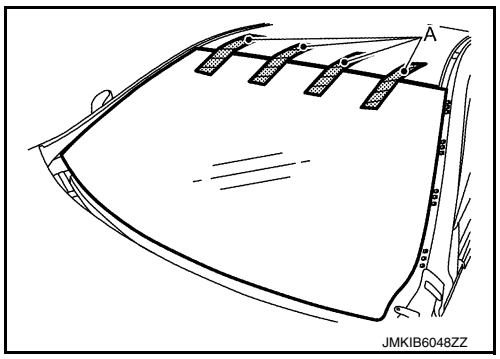


Portion		Clearance
Windshield glass – Glass roof (With glass roof)	Ⓐ – Ⓐ	**2.8 – 5.2 mm (0.11 – 0.20 in)**
Windshield glass – Roof panel (Without glass roof)		**2.8 – 5.0 mm (0.11 – 0.20 in)**

13. 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.**

14. Fix with tapes (A) etc. to keep the clearance evenly between new windshield glass and glass roof or roof panel.



15. Peel off protective tapes and matching marks.
16. Install removed parts.

CAUTION:
- **Check the matching with surrounding parts. Adjust if necessary.**
- **Adjust the front wiper arms stop position. Refer to WW-65, "WIPER ARM : Inspection and Adjustment".**
- **Must be perform additional service when replacing front camera unit. Refer to DAS-59, "Description". (With front camera)**
- **After installation new windshield glass, perform the inspection. Refer to GW-26, "Inspection".**

Reuse Windshield Glass

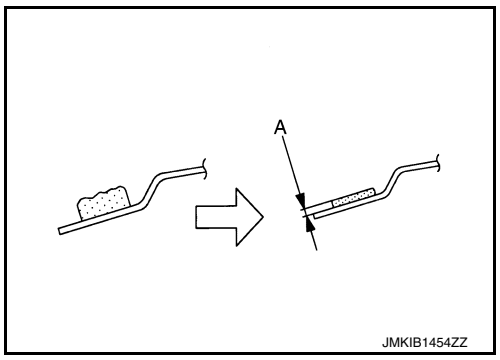
CAUTION:

Never damage windshield glass, roof glass (with glass roof) and each body panel.

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

CAUTION:

Smooth out adhesive and sealant surface.



2. Clean the bonded area on body side using a cleaner from repair kit rub dry with rag. [Glazing repair kit, 2-component adhesive (A 220 670 00 93) (Sika Automotive GmbH), Repair kit for installing windshield, 1-component adhesive (A 221 670 81 01) (Sika Automotive GmbH), or equivalent]
3. Repair paint damage in bonded area and on body side using a primer stick or primer filler. [Primer stick (A 000 986 27 50) (Motip Dupli GmbH), Hepox 2K EP primer filler 4017 (Spies Hecker GmbH), or equivalent]

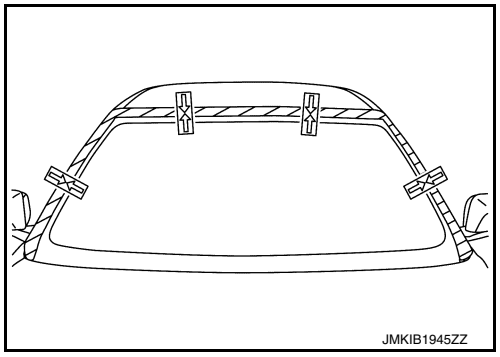
CAUTION:

Observe the manufacturer's specifications for the curing and processing time of the primer filler.

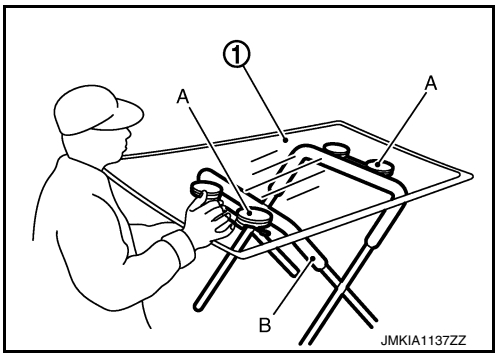
4. Place new windshield glass on the vehicle temporarily, put on matching marks on new windshield glass, glass roof or roof panel and both side of body side outer panel.

CAUTION:

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



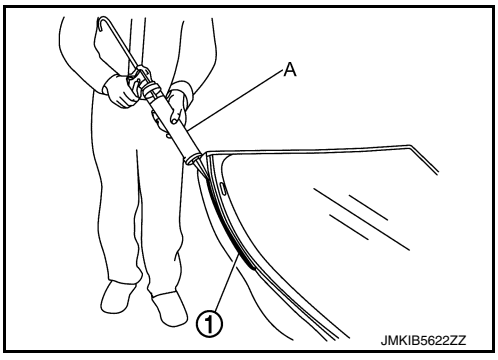
5. Use suction lifter (A) or rubber suction cups to set new windshield glass ① on glass stand (B).
CAUTION:
Due to weight of new windshield glass, 2 workers are required by all means.



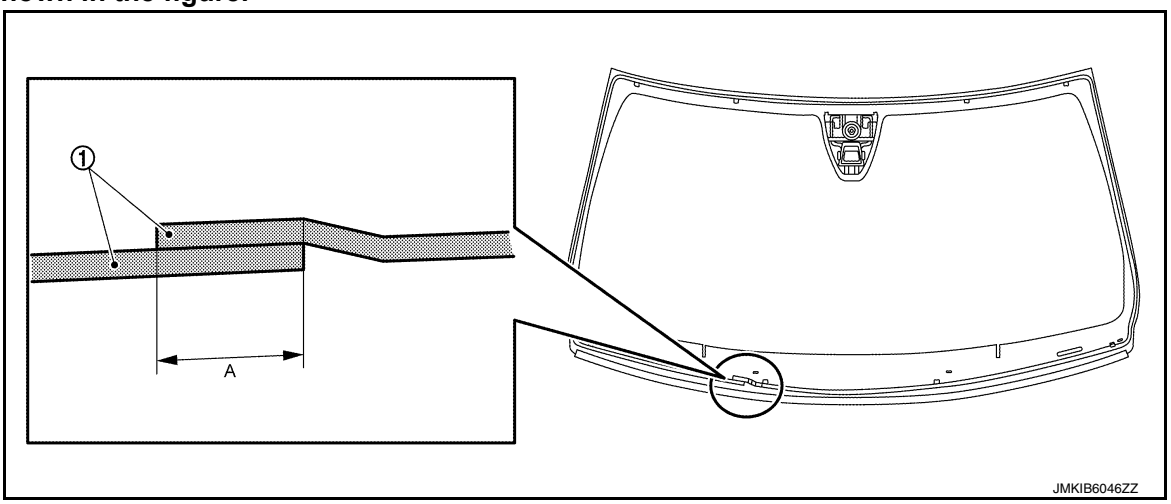
6. Clean the bonded area on glass side using a cleaner from repair kit rub dry with rag. [Glazing repair kit, 2-component adhesive (A 220 670 00 93) (Sika Automotive GmbH), Repair kit for installing windshield, 1-component adhesive (A 221 670 81 01) (Sika Automotive GmbH), or equivalent]
CAUTION:
The bonded area on new windshield glass must be absolutely free of dust and grease.
7. Apply primer along the entire circumference of new windshield glass. [Glazing repair kit, 2-component adhesive (A 220 670 00 93) (Sika Automotive GmbH), Repair kit for installing windshield, 1-component adhesive (A 221 670 81 01) (Sika Automotive GmbH), or equivalent]
CAUTION:
- **To dry primer during the time indicated by the primers manufacturer.**
- **The primer must flash off for at least 10 minutes. Otherwise the adhesive effect of the adhesive material will be impaired.**

NOTE:
The essential function of primers is to strengthen adhesion between the glass and the painted surface.
8. Apply primer to the body side bonding surface. [Glazing repair kit, 2-component adhesive (A 220 670 00 93) (Sika Automotive GmbH), Repair kit for installing windshield, 1-component adhesive (A 221 670 81 01) (Sika Automotive GmbH), or equivalent]
CAUTION:
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- **Make sure to apply the correct coating amount of painted surface primer. In case the amount of painted surface primer is in excess, the primer risk to overflow from windshield glass and each body panel. This may deteriorate the vehicle appearance.**

9. Apply adhesive ① to entire circumference of new windshield glass by using a sealant gun (A). [Glazing repair kit, 2-component adhesive (A 220 670 00 93) (Sika Automotive GmbH), Repair kit for installing windshield, 1-component adhesive (A 221 670 81 01) (Sika Automotive GmbH), or equivalent]
CAUTION:
- **Use the sealing kit for glass application and the special holder for cartridge or similar tools.**
- **Make sure to apply the correct coating amount of adhesive. In case the amount of adhesive is not sufficient, windshield glass risks to drop.**
- **Make sure to apply the correct coating amount of adhesive. In case the amount of adhesive is in excess, the adhesive risk to overflow from windshield glass and each body panel. This may deteriorate the vehicle appearance.**



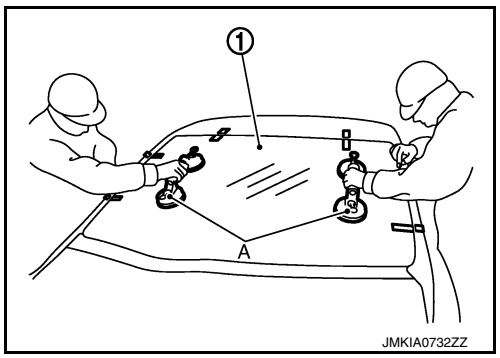
- **The starting point and the finishing point of the adhesive ① should be put together any gap as shown in the figure.**



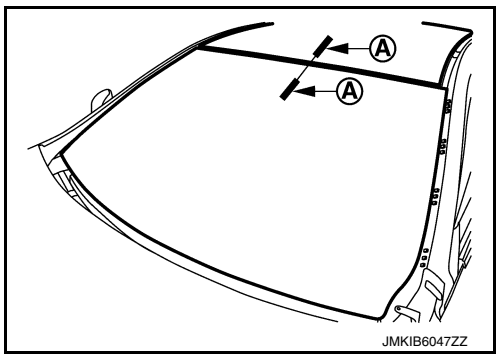
A : Overlapping area [30 mm (1.18 in)]

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 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. Adjust the clearance between the new windshield glass and glass roof or roof panel evenly.

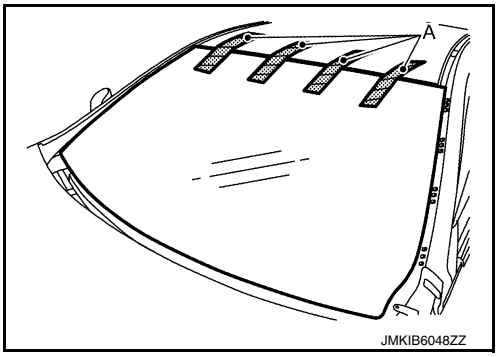


Portion		Clearance
Windshield glass – Glass roof (With glass roof)	Ⓐ – Ⓐ	2.8 – 5.2 mm (0.11 – 0.20 in)
Windshield glass – Roof panel (Without glass roof)		2.8 – 5.0 mm (0.11 – 0.20 in)

13. 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.**

14. Fix with tapes (A) etc. to keep the clearance evenly between new windshield glass and glass roof or roof panel.



15. Peel off protective tapes and matching marks.
16. Install removed parts.

CAUTION:

- **Check the matching with surrounding parts. Adjust if necessary.**
- **Adjust the front wiper arms stop position. Refer to WW-65, "WIPER ARM : Inspection and Adjustment".**
- **Must be perform additional service when replacing front camera unit. Refer to DAS-59, "Description". (With front camera)**
- **After installation new windshield glass, perform the inspection. Refer to GW-26, "Inspection".**

Inspection

INFOID:0000000013550974

WATER LEAKAGE INSPECTION

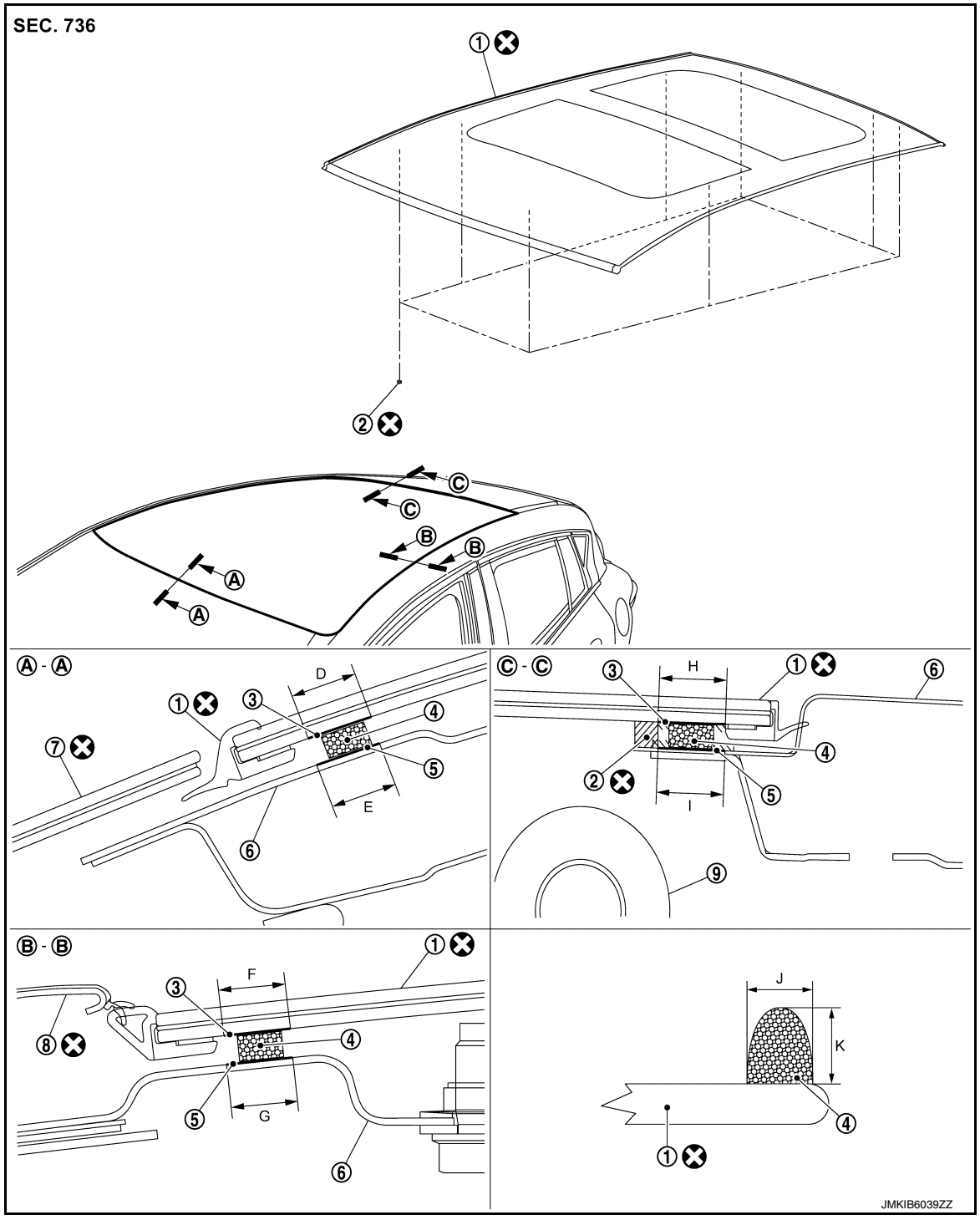
CAUTION:

- **Dry adhesive according to the specification of adhesive kit, do the leaking check when adhesive is stiffen.**
- **Perform leak test and check that there is no malfunction. If leakage was found, start over from the beginning as windshield glass removal, installation and leaking check.**

GLASS ROOF

Exploded View

INFOID:0000000013550975



① Glass roof assembly
② Glass roof spacer
③ Glass primer
④ Adhesive
⑤ Painted surface primer
⑥ Roof panel
⑦ Windshield glass
⑧ Roof side molding
⑨ Sunshade unit assembly

⊗ : Always replace after every disassembly.

Unit: mm (in)

Portion			Primer range	Adhesive range	
				J	K
Glass roof – Roof panel	Ⓐ – Ⓐ	D	15.0 (0.59)	7.0 (0.276)	12.0 (0.472)
		E		—	—
	Ⓑ – Ⓑ	F		7.0 (0.276)	12.0 (0.472)
		G		—	—
	Ⓒ – Ⓒ	H		7.0 (0.276)	12.0 (0.472)
		I		—	—

Removal and Installation

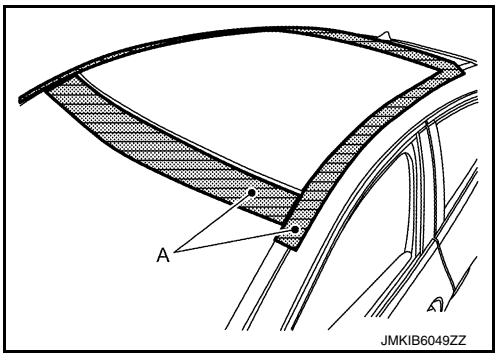
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REMOVAL

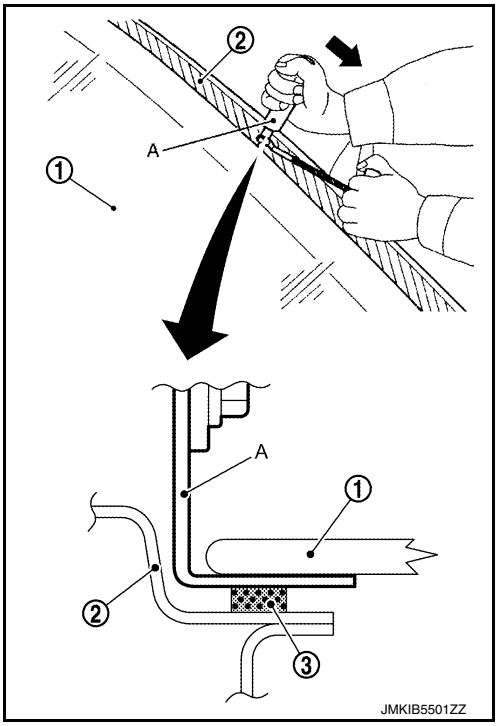
CAUTION:

Never damage sunshade unit assembly, windshield glass and roof panel.

1. Remove roof side molding (LH and RH). Refer to EXT-48, "Removal and Installation".
2. Remove sunshade unit assembly and roof bow 2nd assembly. Refer to RF-29, "Removal and Installation".
3. Apply protective tapes (A) on roof panel and windshield glass around glass roof to protect painted surface from damage.
   CAUTION:
   Apply thick protective tape to try not to damage windshield glass.



4. Insert a windshield cutter (A) between glass roof ① and roof panel ②. Cut the adhesive ③ by pulling the windshield cutter, keeping the tip parallel to the edge of glass roof.
   CAUTION:
   Use piano wire to cut adhesive if its difficult to use windshield cutter.

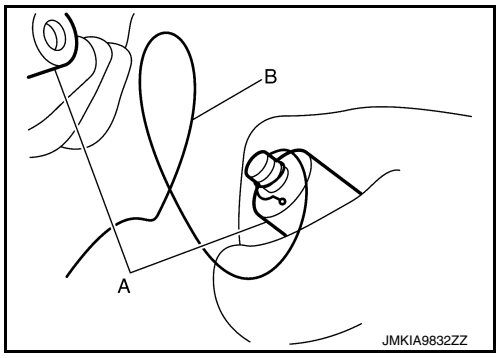


5. Cut the adhesive using a piano wire.

a. Pass the piano wire from passenger room to bonded area of glass using a wire pierce.

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

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



c. To cut adhesive by using a piano wire alongside of glass roof and roof panel.

CAUTION:
- **Never press piano wire excessively against edge of glass roof.**
- **To cut adhesive, 2 workers are required by all means.**

6. Use suction lifter or rubber suction cups, etc. to remove glass roof from the vehicle.

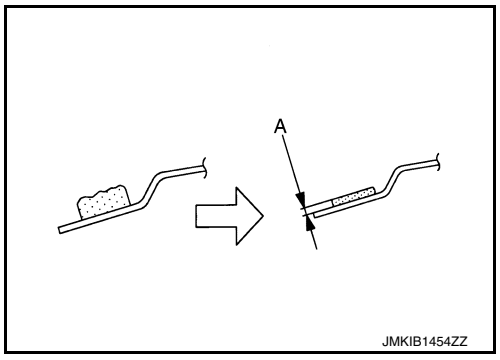
CAUTION:
Due to weight of glass roof, 2 workers are required by all means.

INSTALLATION

CAUTION:
- **Replace glass roof with a new part after removal. Never reuse glass roof.**
- **Never damage new glass roof, windshield glass and roof panel.**

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.**

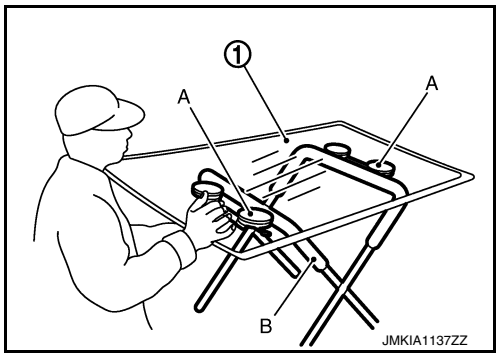


2. Place new glass roof on the vehicle temporarily, put on matching marks on glass roof and roof panel.

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

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

CAUTION:
Due to weight of glass roof, 2 workers are required by all means.



4. Clean the bonded area on new glass roof and roof panel side using white gasoline or degreasing agent.
5. Apply glass primer along the entire circumference of new glass roof.

CAUTION:
- **There are 2 types of primer. Never confuse the application methods.**
- **Painted surfaces primer**
- **Glass primer**
- **To dry glass primer during the time indicated by the primers manufacturer.**
- **Make sure to apply the correct coating amount of glass primer. In case the amount of glass primer is not sufficient, glass roof risks to drop.**
- **Make sure to apply the correct coating amount of glass primer. In case the amount of glass primer is in excess, the glass primer risk to overflow from glass roof and roof panel. This may deteriorate the vehicle appearance.**

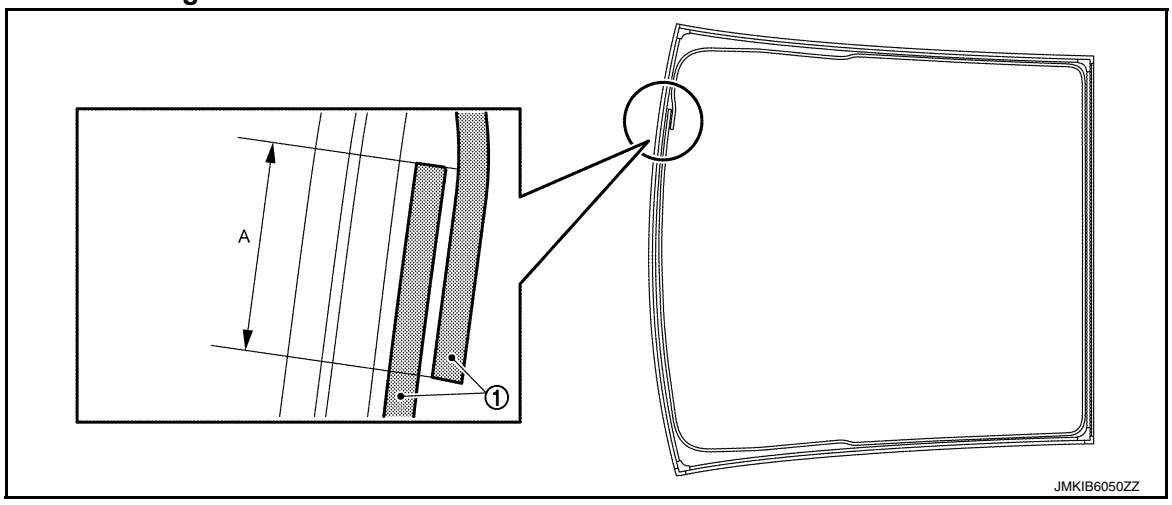
NOTE:
The essential function of primers is to strengthen adhesion between the glass and the painted surface.

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

CAUTION:
- **To dry painted surface primer during the time indicated by the primers manufacturer.**
- **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.**
- **Make sure to apply the correct coating amount of painted surface primer. In case the amount of painted surface primer is not sufficient, glass roof risks to drop.**
- **Make sure to apply the correct coating amount of painted surface primer. In case the amount of painted surface primer is in excess, the primer risk to overflow from glass roof and each body panel. This may deteriorate the vehicle appearance.**

7. Apply adhesive to entire circumference of new glass roof by using a sealant gun.

CAUTION:
- **Use the sealing kit for glass application and the special holder for cartridge or similar tools.**
- **Make sure to apply the correct coating amount of adhesive. In case the amount of adhesive is not sufficient, glass roof risks to drop.**
- **Make sure to apply the correct coating amount of adhesive. In case the amount of adhesive is in excess, the adhesive risk to overflow from glass roof and roof panel. This may deteriorate the vehicle appearance.**
- **The starting point and the finishing point of the adhesive ① should be put together any gap as shown in the figure.**



A : Overlapping area [50 mm (1.97 in)]

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

8. Use suction lifter or rubber suction cups that are installed in advance, align the matching marks between the roof panel and glass roof to install them on the vehicle.

CAUTION:
Due to weight of glass roof, 2 workers are required by all means.

9. Press entire surface of glass roof 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 glass roof, keep the all door glass open until the adhesive is completely cured.**
    - **Never drive the vehicle before the adhesive is completely cured.**
11. Peel off protective tapes and matching marks.
12. Install removed parts.
    CAUTION:
    - **Check the matching with surrounding parts. Adjust if necessary.**
    - **After installation glass roof, perform the inspection. Refer to GW-31, "Inspection".**

Inspection

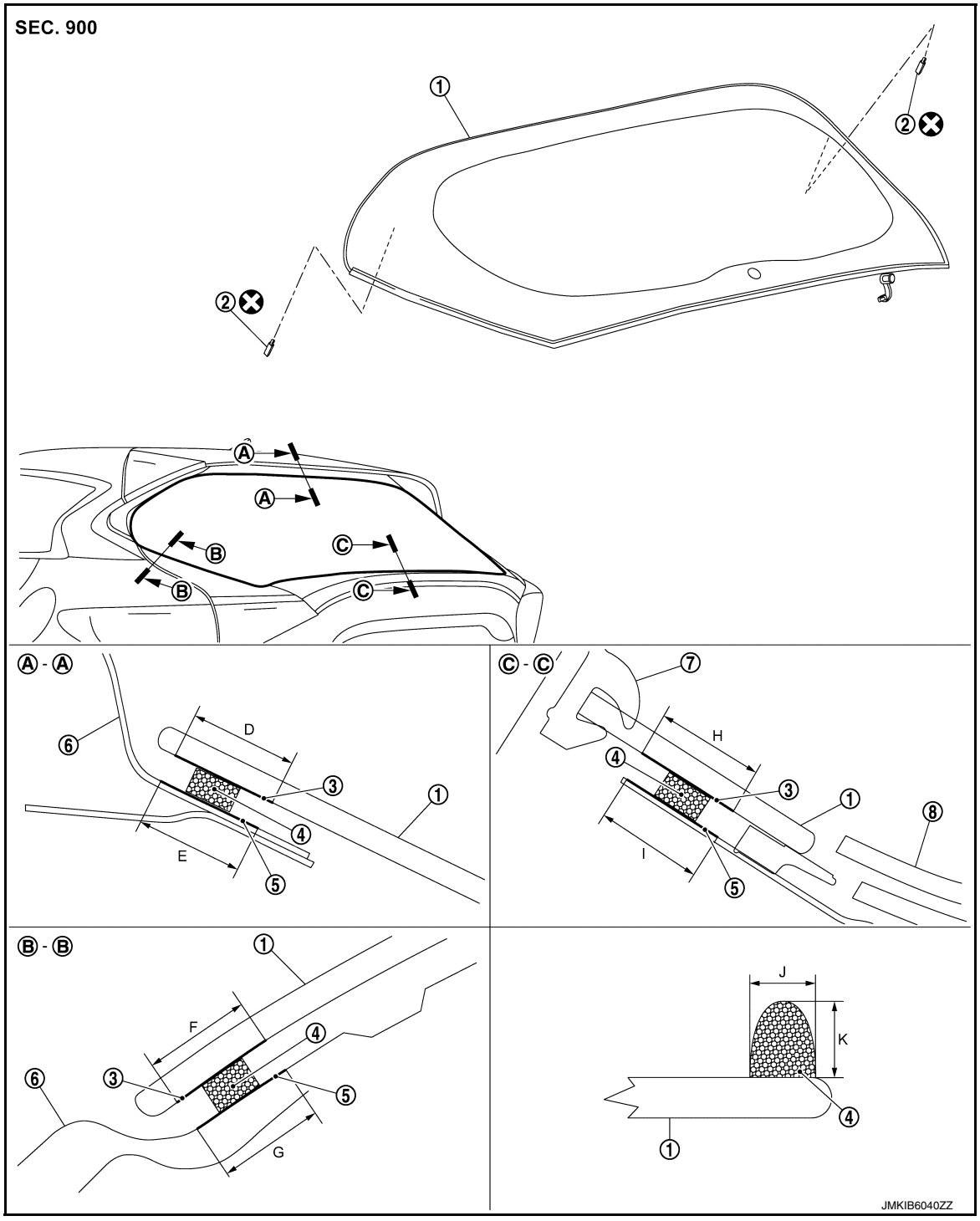
INFOID:0000000013550977

CAUTION:
- **Dry adhesive according to the specification of adhesive kit, do the leaking check when adhesive is stiffen.**
- **Perform leak test and check that there is no malfunction. If leakage was found, start over from the beginning as glass roof removal, installation and leaking check.**

BACK DOOR WINDOW GLASS

Exploded View

INFOID:0000000013550978



① Back door window glass
② Back door window glass clip
③ Glass primer
④ Adhesive
⑤ Painted surface primer
⑥ Back door outer panel
⑦ Pivot seal
⑧ Back door finisher
⊗ : Always replace after every disassembly.

Unit: mm (in)

Portion			Primer range	Adhesive range	
				J	K
Back door window glass – Back door outer panel	Ⓐ – Ⓐ	D	23.5 (0.93)	7.0 (0.276)	5.0 (0.197)
		E	22.5 (0.89)	—	—
	Ⓑ – Ⓑ	F	23.5 (0.93)	7.0 (0.276)	5.0 (0.197)
		G	22.5 (0.89)	—	—
	Ⓒ – Ⓒ	H	17.0 (0.67)	7.0 (0.276)	5.0 (0.197)
		I		—	—

Removal and Installation

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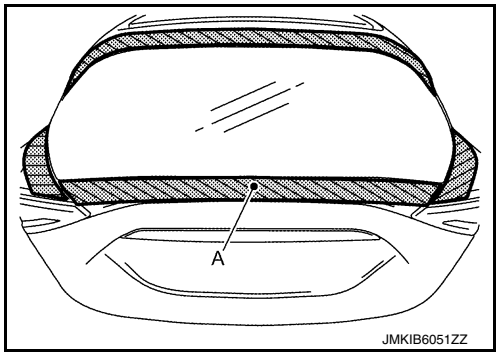
REMOVAL

Replacement Back Door Window Glass

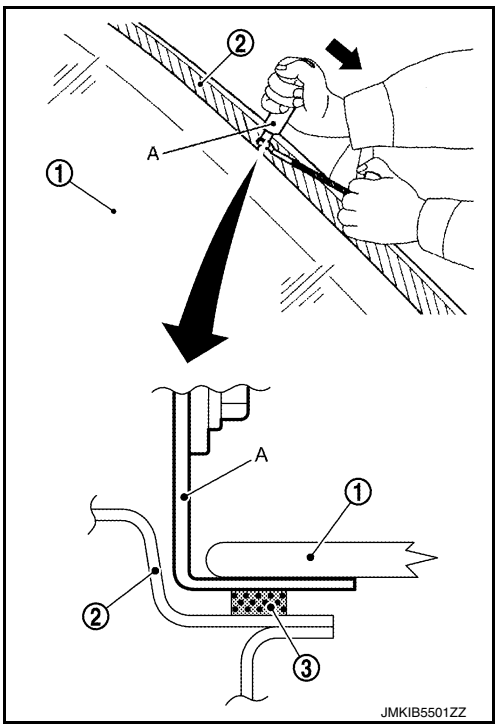
CAUTION:

Never damage back door outer panel.

1. Remove rear side spoiler (LH and RH). Refer to EXT-61, "REAR SIDE SPOILER : Removal and Installation".
2. Remove back door finisher upper. Refer to EXT-65, "BACK DOOR FINISHER UPPER : Removal and Installation".
3. Remove rear wiper motor. Refer to WW-71, "WIPER MOTOR : Removal and Installation".
4. Disconnect harness connectors.
5. Apply protective tapes (A) on back door outer panel around back door window glass to protect painted surface from damage.



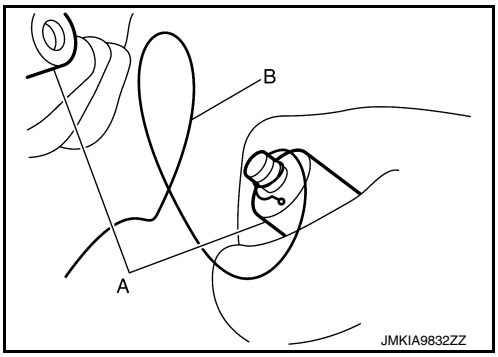
6. Insert a windshield cutter (A) between back door window glass ① and back door outer panel ②. Cut the adhesive ③ by pulling the windshield cutter, keeping the tip parallel to the edge of back door window glass.
CAUTION:
Use piano wire to cut adhesive if its difficult to use windshield cutter.



7. Cut the adhesive using a piano wire.

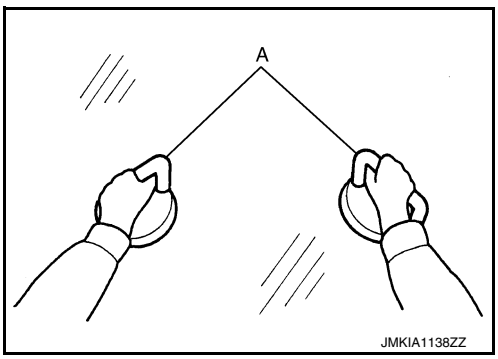
a. Pass the piano wire passenger room to bonded area of back door window glass using a wire pierce.
CAUTION:
- **Never use plane surface of wire pierce tip vertically.**
- **Never press piano wire excessively against edge of back door window glass.**
- **Never damage surrounding parts.**

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



8. To cut adhesive by using a piano wire alongside of back door window glass.
CAUTION:
- **Never damage back door outer panel and surrounding parts.**
- **To cut adhesive, 2 workers are required by all means.**

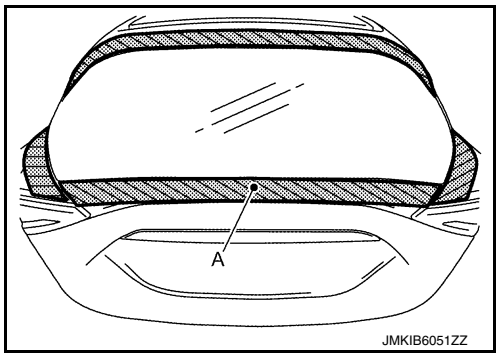
9. Use suction lifter (A) or rubber suction cups, etc. to remove back door window glass from the vehicle.
CAUTION:
Due to weight of back door window glass, 2 workers are required by all means.



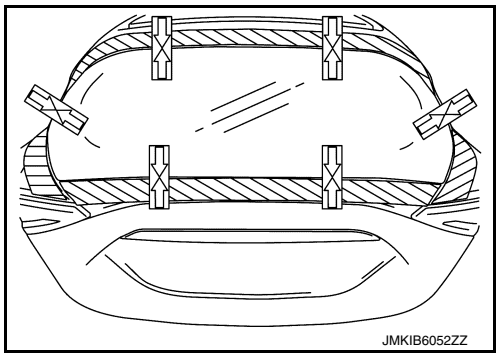
Reuse Back Door Window Glass
CAUTION:

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

1. Remove rear side spoiler (LH and RH). Refer to EXT-61, "REAR SIDE SPOILER : Removal and Installation".
2. Remove back door finisher upper. Refer to EXT-65, "BACK DOOR FINISHER UPPER : Removal and Installation".
3. Remove rear wiper motor. Refer to WW-71, "WIPER MOTOR : Removal and Installation".
4. Disconnect harness connectors.
5. Apply protective tapes (A) on back door outer panel around back door window glass to protect painted surface from damage.



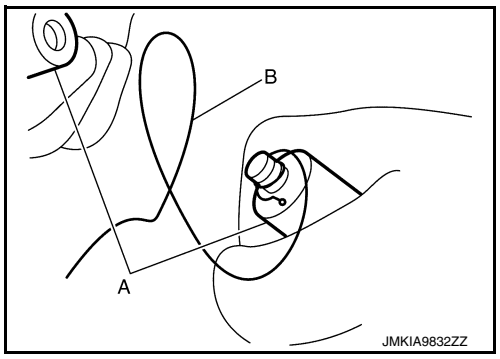
6. Apply matching marks to back door window glass and back door outer panel.
   CAUTION:
   To prevent the gap when install back door window glass put on matching marks by all means.



7. Cut the adhesive using a piano wire.

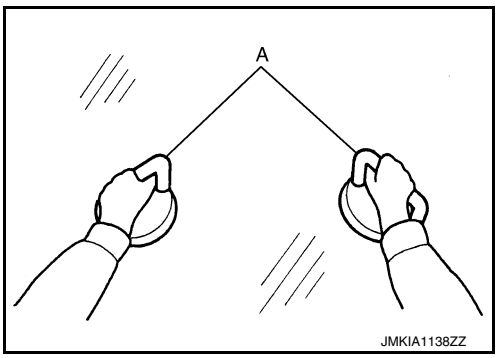
a. Pass the piano wire passenger room to bonded area of back door window glass using a wire pierce.
   CAUTION:
   - **Never use plane surface of wire pierce tip vertically.**
   - **Never press piano wire excessively against edge of back door window glass.**
   - **Never damage surrounding parts.**

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



8. To cut adhesive by using a piano wire alongside of back door window glass.
   CAUTION:
   - **Never damage back door outer panel and surrounding parts.**
   - **To cut adhesive, 2 workers are required by all means.**

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.

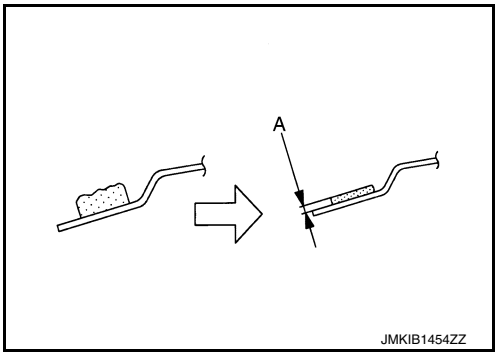


INSTALLATION

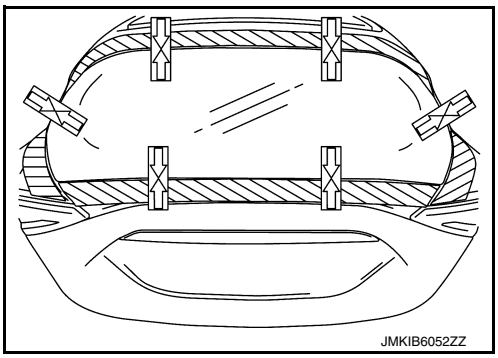
Replacement Back Door Window Glass

CAUTION:
Never damage new back door window glass and back door outer panel.

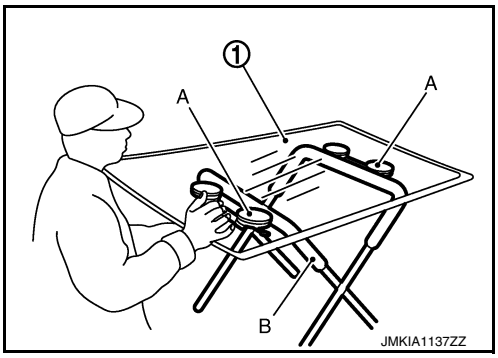
1. Use a cutter knife or scraper, and leave the of adhesive on the back door side approximately 2 mm (0.079 in) (A) to make adhesive surface smooth.
CAUTION:
- **If the bonded area on the body is scratched, repair it using a 2 liquid types urethane paint. Never use lacquer type paint.**
- **Smooth out adhesive surface.**



2. Place back door window glass on the vehicle temporarily, put on matching marks on back door window glass and back door outer panel.
CAUTION:
To prevent the gap when install 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).
CAUTION:
Due to weight of back door window glass, 2 workers are required by all means.



4. Clean the bonded area on back door window glass and back door outer panel using white gasoline or degreasing agent.
5. Install back door window glass clips to 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**
- **To dry glass primer during the time indicated by the primers manufacturer.**
- **Make sure to apply the correct coating amount of painted surface primer. In case the amount of painted surface primer is not sufficient, back door window glass risks to drop.**
- **Make sure to apply the correct coating amount of glass primer. In case the amount of glass primer is in excess, the glass primer risk to overflow from back door window glass and back door outer panel. This may deteriorate the vehicle appearance.**

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

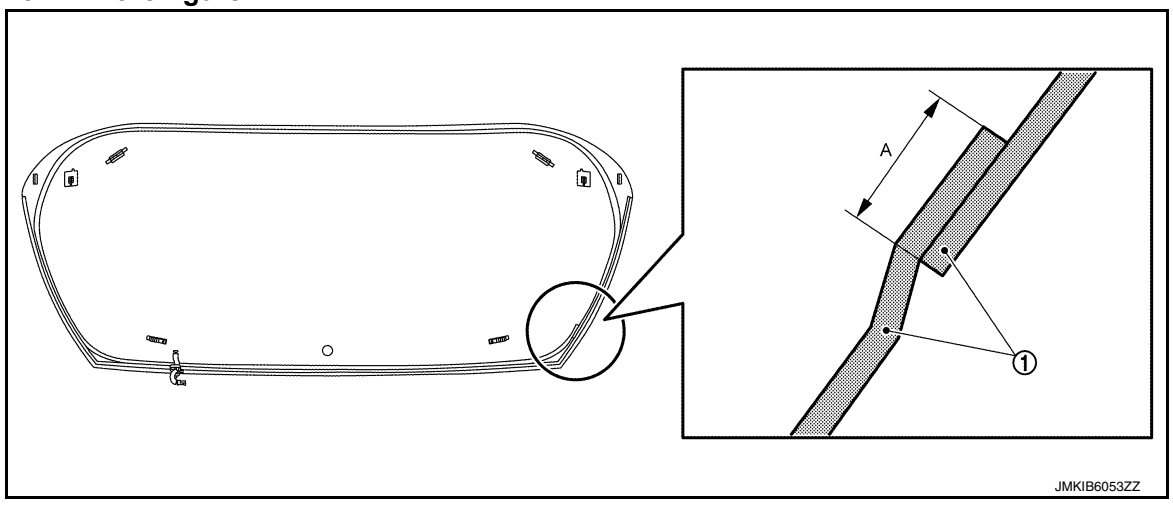
7. Apply painted surface primer to the back door outer panel bonding surface.

CAUTION:
- **To dry painted surface primer during the time indicated by the primers manufacturer.**
- **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.**
- **Make sure to apply the correct coating amount of painted surface primer. In case the amount of painted surface primer is not sufficient, back door window glass risks to drop.**
- **Make sure to apply the correct coating amount of painted surface primer. In case the amount of painted surface primer is in excess, the primer risk to overflow from back door window glass and back door outer panel. This may deteriorate the vehicle appearance.**

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

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

CAUTION:
- **Use the sealing kit for glass application and the special holder for cartridge or similar tools.**
- **Make sure to apply the correct coating amount of adhesive. In case the amount of adhesive is not sufficient, back door window glass risks to drop.**
- **Make sure to apply the correct coating amount of adhesive. In case the amount of adhesive is in excess, the adhesive risk to overflow from back door window glass and back door outer panel. This may deteriorate the vehicle appearance.**
- **The starting point and the finishing point of the adhesive ① should be put together any gap as shown in the figure.**



A : Overlapping area [30 mm (1.18 in)]

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 outer 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. Peel off protective tapes and matching marks.
13. Install the removed parts.

CAUTION:
- **Adjust the rear wiper arm stop position. Refer to WW-70, "WIPER BLADE : Adjustment".**
- **Check the matching with surrounding parts. Adjust if necessary.**
- **After installation back door window glass, perform the inspection. Refer to GW-40, "Inspection".**

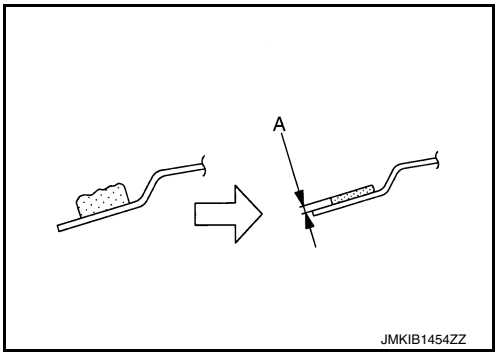
Reuse Back Door Window Glass

CAUTION:

Never damage back door window glass and back door outer 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.

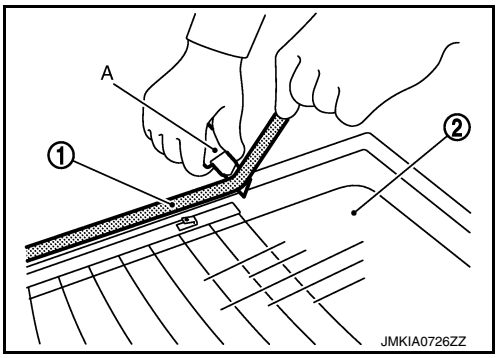
CAUTION:
- **If the bonded area on the body is scratched, repair it using a 2 liquid types urethane paint. Never use lacquer type paint.**
- **Smooth out adhesive surface.**



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

CAUTION:

Smooth out adhesive and sealant surface.



3. Clean the bonded area on back door window glass and back door outer panel using white gasoline or degreasing agent.
4. Install back door window glass clips to 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**
- **To dry glass primer during the time indicated by the primers manufacturer.**
- **Make sure to apply the correct coating amount of painted surface primer. In case the amount of painted surface primer is not sufficient, back door window glass risks to drop.**
- **Make sure to apply the correct coating amount of glass primer. In case the amount of glass primer is in excess, the glass primer risk to overflow from back door window glass and back door outer panel. This may deteriorate the vehicle appearance.**

NOTE:

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

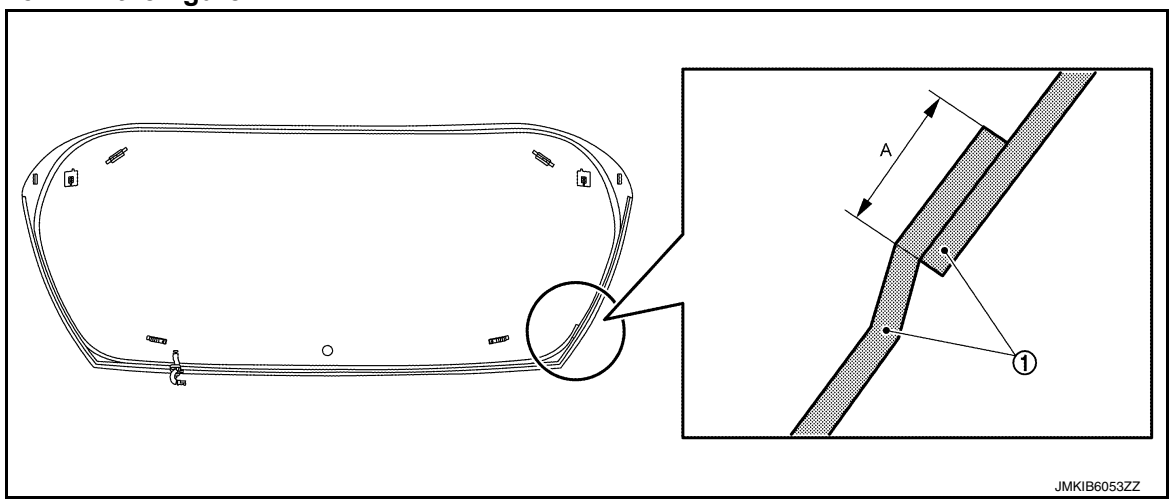
6. Apply painted surface primer to the back door outer panel bonding surface.

CAUTION:
- **To dry painted surface primer during the time indicated by the primers manufacturer.**

- **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.**
- **Make sure to apply the correct coating amount of painted surface primer. In case the amount of painted surface primer is not sufficient, back door window glass risks to drop.**
- **Make sure to apply the correct coating amount of painted surface primer. In case the amount of painted surface primer is in excess, the primer risk to overflow from back door window glass and back door outer panel. This may deteriorate the vehicle appearance.**

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

7. Apply adhesive to entire circumference of back door window glass.
CAUTION:
- **Use the sealing kit for glass application and the special holder for cartridge or similar tools.**
- **Make sure to apply the correct coating amount of adhesive. In case the amount of adhesive is not sufficient, back door window glass risks to drop.**
- **Make sure to apply the correct coating amount of adhesive. In case the amount of adhesive is in excess, the adhesive risk to overflow from back door window glass and back door outer panel. This may deteriorate the vehicle appearance.**
- **The starting point and the finishing point of the adhesive ① should be put together any gap as shown in the figure.**



A : Overlapping area [30 mm (1.18 in)]

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 outer 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. Peel off protective tapes and matching marks.
12. Install the removed parts.
CAUTION:
- **Check the matching with surrounding parts. Adjust if necessary.**
- **Adjust the rear wiper arm stop position. Refer to WW-70, "WIPER BLADE : Adjustment".**
- **After installation back door window glass, perform the inspection. Refer to GW-40, "Inspection".**

Inspection

INFOID:0000000013550980

WATER LEAKAGE INSPECTION

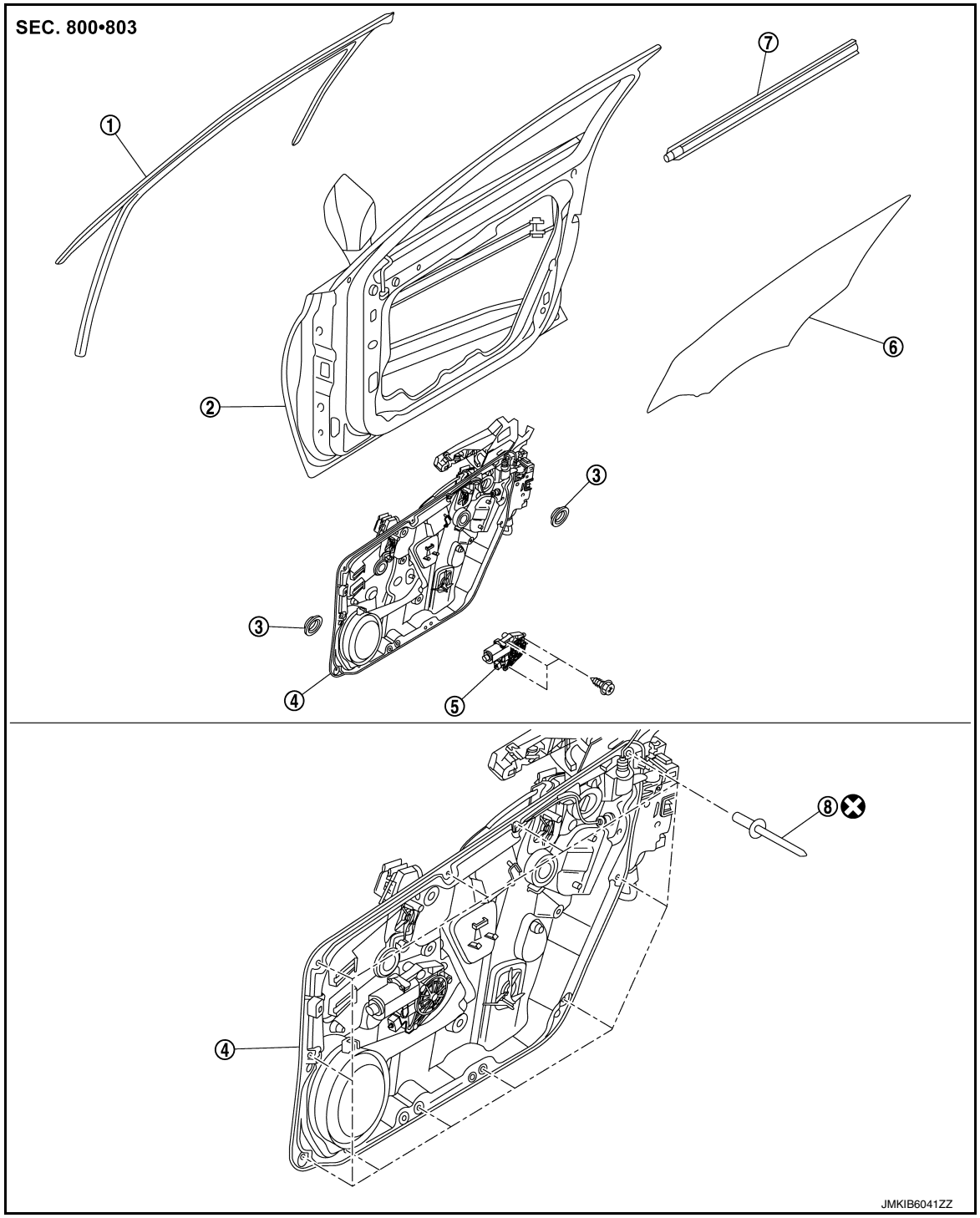
CAUTION:

- **Dry adhesive according to the specification of adhesive kit, do the leaking check when adhesive is stiffen.**
- **Perform leak test and check that there is no malfunction. If leakage was found, start over from the beginning as back door window glass removal, installation and leaking check.**

FRONT DOOR GLASS

Exploded View

INFOID:0000000013550981



① Front door glass run
② Front door panel
③ Seal cover
④ Front door module assembly*
⑤ Front door power window motor
⑥ Front door glass
⑦ Front door inside seal
⑧ Rivet
⊗ : Always replace after every disassembly.

*: Front door regulator is included in front door module.

FRONT DOOR GLASS

FRONT DOOR GLASS : Removal and Installation

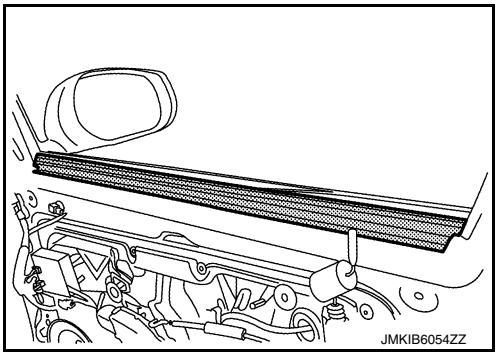
INFOID:0000000013550982

REMOVAL

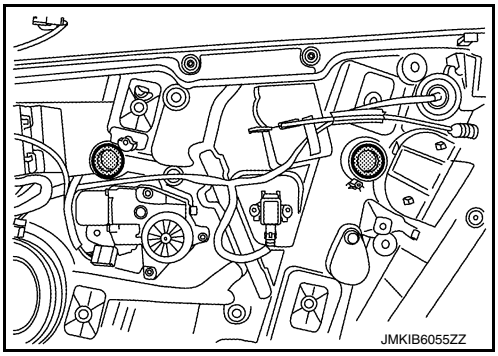
CAUTION:

Never damage front door glass and front door panel.

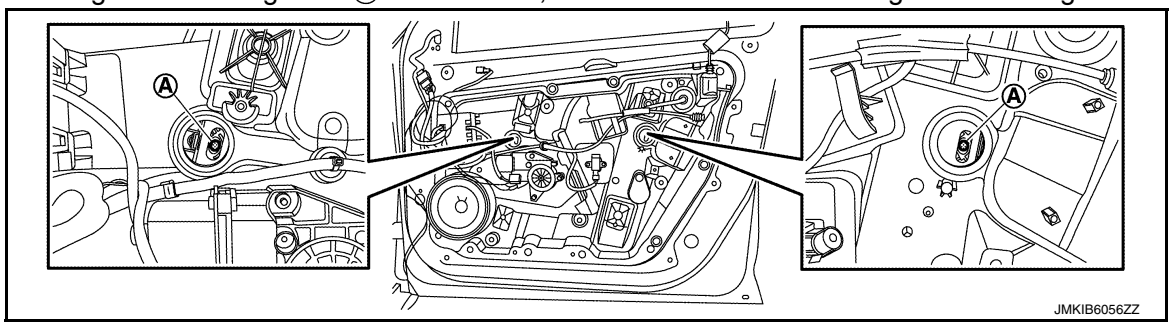
1. Remove front door finisher. Refer to INT-14, "Removal and Installation".
2. Remove front door inside seal.



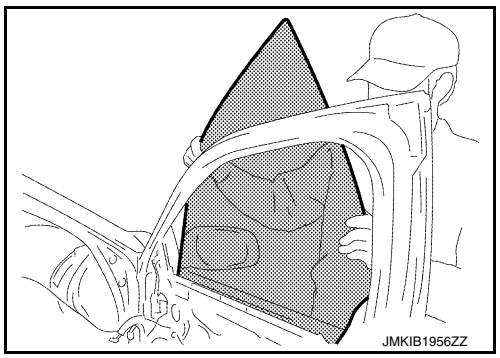
3. Remove seal covers.



4. Remove power window main switch or front power window switch from front door finisher, and then reconnect power window main switch or front power window switch. Refer to the following.
   - Power window main switch: Refer to PWC-89, "Removal and Installation".
   - Front power window switch: Refer to PWC-90, "Removal and Installation".
5. Operate power window main switch or front power window switch to raise or lower front door glass until front door glass mounting bolts Ⓐ can be seen, and then loosen front door glass mounting bolts 2 turns.



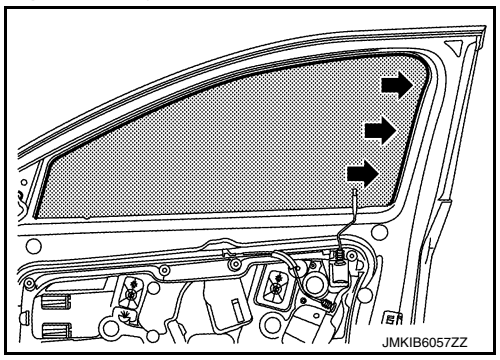
6. Hold securely front door glass and pull it out of front door panel to remove front door glass.
CAUTION:
Never damage front door glass, front door glass run and front door panel.


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INSTALLATION

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

CAUTION:
- **Confirm that there is front door glass on the carrier part of the regulator by all means.**
- **After sliding front door glass in the arrow direction of the figure, and having confirmed that it touches front door glass run, tighten front door glass mounting bolts temporarily.**


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- **After tighten front door glass mounting bolts temporarily, tighten specified required torque.**

: 6.0 N·m (0.6 kg–m, 53 in–lb)

- **To apply a thin coat of lubricant at the contact point of front door inside seal and front door panel. [Lubricant, rubber assembly (A 000 989 03 67) (Caramba Chemie GmbH), or equivalent]**

FRONT DOOR GLASS RUN

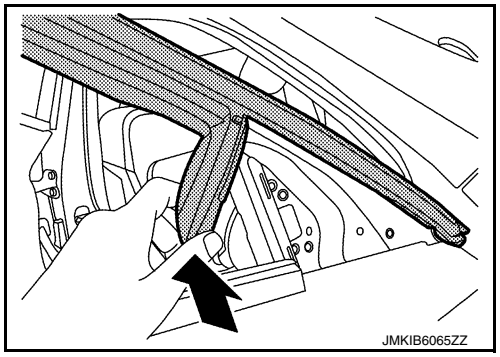
FRONT DOOR GLASS RUN : Removal and Installation

INFOID:0000000013550983

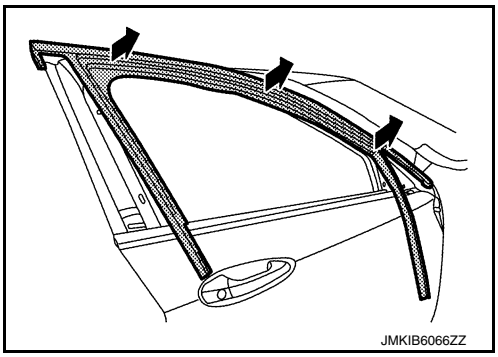
REMOVAL

CAUTION:
Never excessively pull front door glass run.

1. Fully open front door glass.
2. Remove front door sash cover. Refer to EXT-51, "FRONT DOOR SASH COVER : Removal and Installation".
3. Remove door mirror assembly. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : Removal and Installation".
4. Pull up front side of front door glass run from front door panel as shown by the arrow in the figure.


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5. Remove front door glass run from front door panel.
CAUTION:
Make sure to work carefully due to a possibility of damage when front door glass run is removed forcibly.

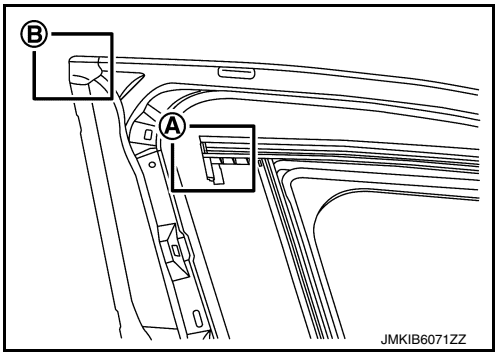

JMKIB6066ZZ

INSTALLATION

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

CAUTION:

- **To apply a thin coat of lubricant at the contact point of front door glass run and front door panel. [Lubricant, rubber assembly (A 000 989 03 67) (Caramba Chemie GmbH), or equivalent]**
- **Attaching front door glass run Ⓐ to front door panel Ⓑ to make the ends meet, then fix front door glass run to front door panel.**

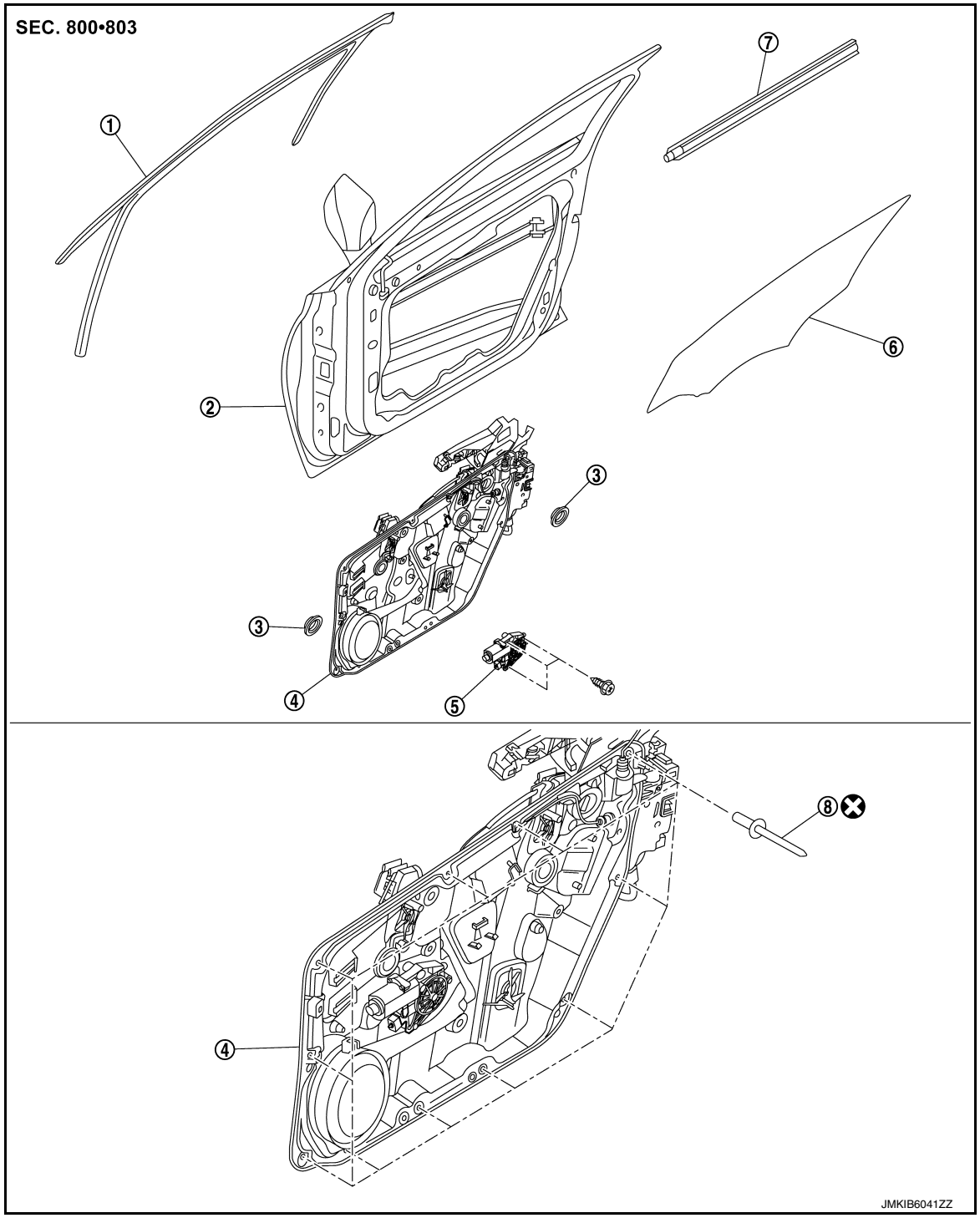


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FRONT DOOR MODULE ASSEMBLY

Exploded View

INFOID:0000000013550984



① Front door glass run
② Front door panel
③ Seal cover
④ Front door module assembly*
⑤ Front door power window motor
⑥ Front door glass
⑦ Front door inside seal
⑧ Rivet
⊗ : Always replace after every disassembly.

*: Front door regulator is included in front door module.

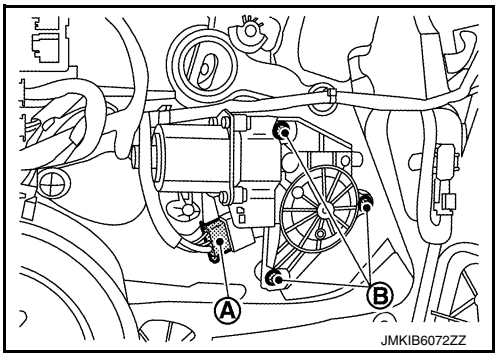
FRONT DOOR POWER WINDOW MOTOR

FRONT DOOR POWER WINDOW MOTOR : Removal and Installation

INFOID:0000000013550985

REMOVAL

1. Remove front door finisher. Refer to INT-14, "Removal and Installation".
2. Disconnect harness connector Ⓐ, and then remove fixing screws Ⓑ.



3. Remove front door power window motor.

INSTALLATION

Install in the reverse order of removal.

FRONT DOOR MODULE ASSEMBLY

FRONT DOOR MODULE ASSEMBLY : Removal and Installation

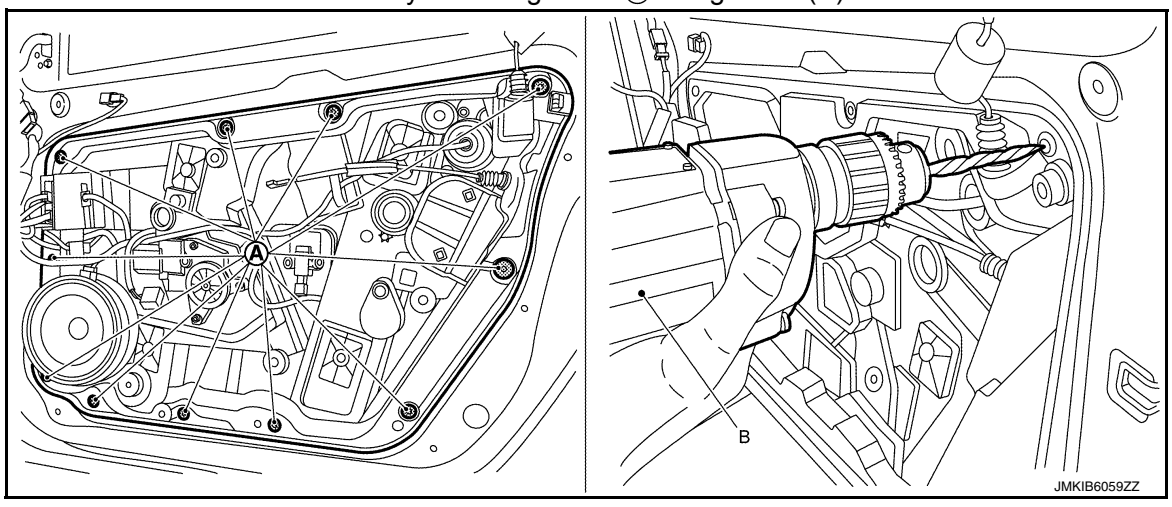
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REMOVAL

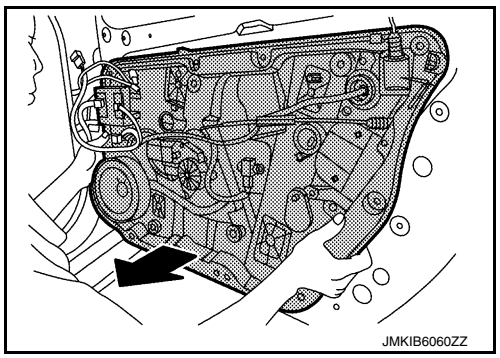
CAUTION:

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

1. Remove front door glass. Refer to GW-42, "FRONT DOOR GLASS : Removal and Installation".
2. Remove outside handle grip. Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
3. Remove outside handle bracket fixing screws. Refer to DLK-264, "Exploded View".
4. Remove door lock assembly mounting TORX bolts. Refer to DLK-264, "Exploded View".
5. Remove front door control unit. Refer to DLK-286, "Removal and Installation".
6. Mount drill bit [ϕ 7.0 (ϕ 0.28)] to drill.
7. Remove front door module assembly mounting rivets Ⓐ using a drill (B).



8. Remove front door module assembly from front door panel.



9. Remove the following parts after removing front door module assembly.
   - Outside handle bracket: Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
   - Front door power window motor: Refer to GW-46, "FRONT DOOR POWER WINDOW MOTOR : Removal and Installation".
   - Front door satellite sensor: Refer to SR-36, "Removal and Installation".
   - Front door speaker: Refer to AV-247, "Removal and Installation".

INSTALLATION

CAUTION:

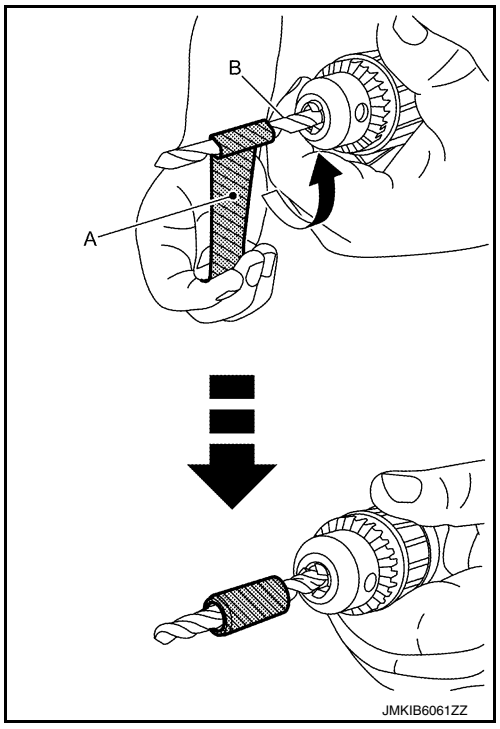
Never damage front door panel, front door module and front door glass.

1. Remove rivet remnants (fragment) left on the front door panel.

a. Wind protective tape (A) around drill bit (B).

NOTE:

Try not to damage rotary part of drill comes in contact with front door panel, wind with protective tape around it.

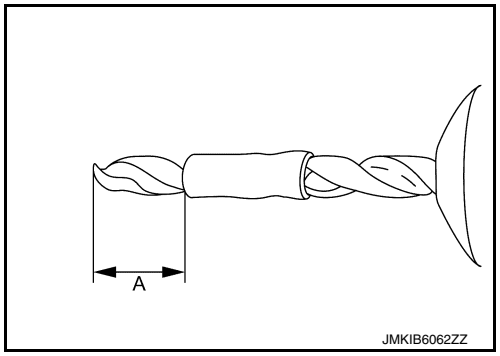


b. As in the figure, wind with protective tape so that drill bit tip leaves from protective tape.

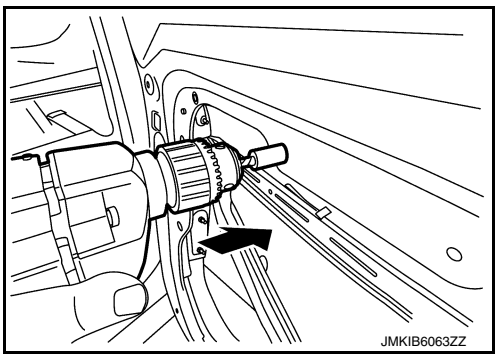
A : 30 mm (1.18 in)

NOTE:

Try not to damage rotary part of drill comes in contact with front door panel, wind with protective tape around it.

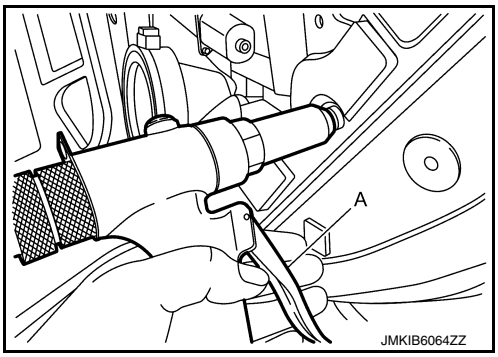


2. As in the figure, remove all rivet remnants left on the front door panel.
CAUTION:
Make sure to remove all the shavings and rivet remnants from front door panel.



3. Install the following parts before installing front door module assembly.
   - Outside handle bracket: Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
   - Front door power window motor: Refer to GW-46, "FRONT DOOR POWER WINDOW MOTOR : Removal and Installation".
   - Front door satellite sensor: Refer to SR-36, "Removal and Installation".
   - Front door speaker: Refer to AV-247, "Removal and Installation".
4. Install front door module assembly using a pneumatic riveter (A).
NOTE:
Pneumatic riveter should be applied the following rivet.

Rivet (Nominal) diameter	**: ϕ 6.4**
Stroke	**: More than 16 mm**



5. Install front door control unit. Refer to DLK-286, "Removal and Installation".
CAUTION:
Must be perform additional service when replacing front door control unit. Refer to DLK-100, "Description".
6. Install door lock assembly mounting TORX bolts. Refer to DLK-264, "Exploded View".
7. Install outside handle bracket fixing screws. Refer to DLK-264, "Exploded View".
8. Install outside handle grip. Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
9. Install front door glass. Refer to GW-42, "FRONT DOOR GLASS : Removal and Installation".

FRONT DOOR REGULATOR

FRONT DOOR REGULATOR : Removal and Installation

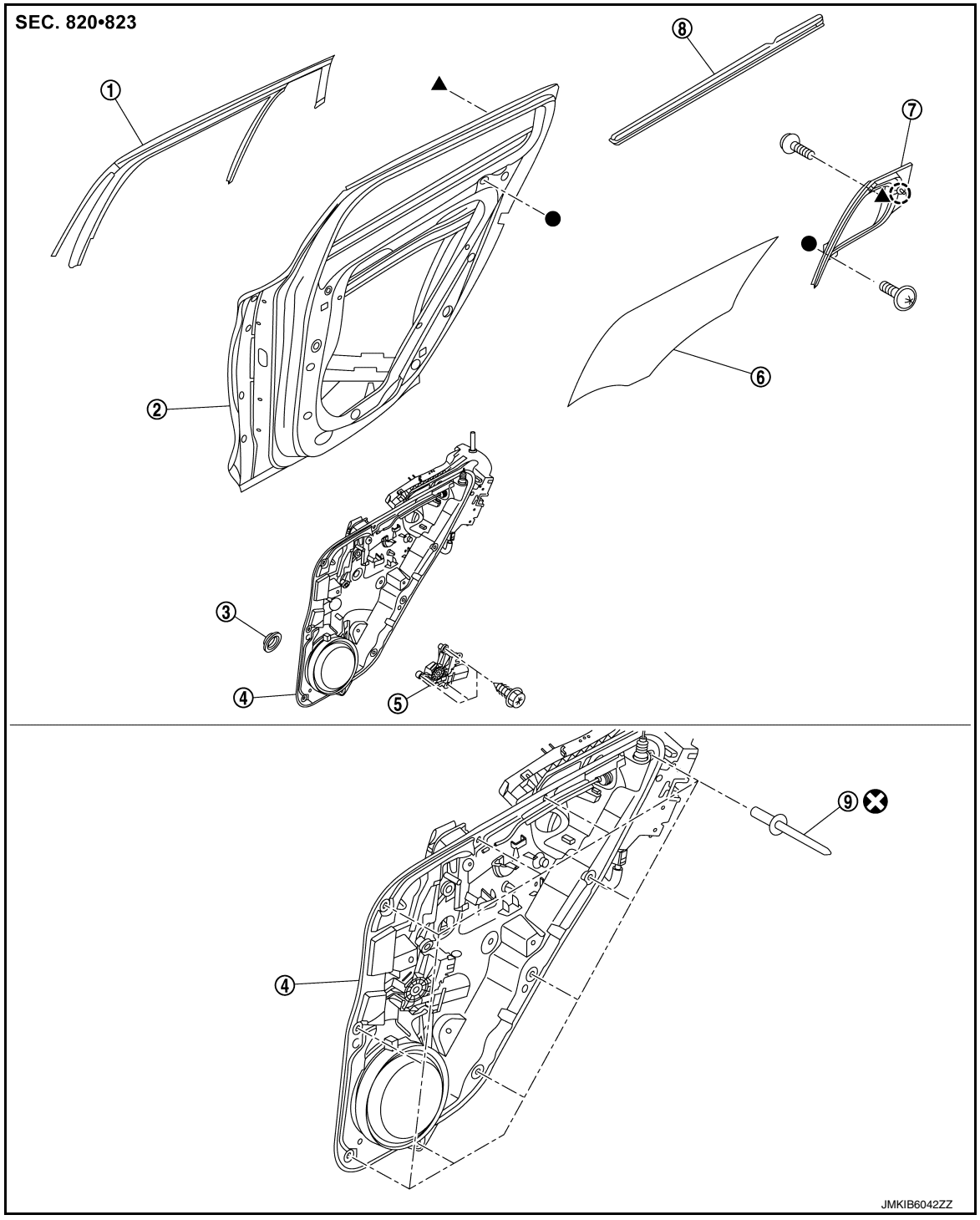
INFOID:0000000013550987

CAUTION:
Regulator and module are assembly parts (unit), so always replace them in a set.

REAR DOOR GLASS

Exploded View

INFOID:0000000013550988



① Rear door glass run
② Rear door panel
③ Seal cover
④ Rear door module assembly*
⑤ Rear door power window motor
⑥ Rear door glass
⑦ Rear door partition glass assembly
⑧ Rear door inside seal
⑨ Rivet
◌ : Clip

: Always replace after every disassembly.

●, ▲: Indicates that the part is connected at points with same symbol in actual vehicle.

*: Rear door regulator is included in rear door module.

REAR DOOR GLASS

REAR DOOR GLASS : Removal and Installation

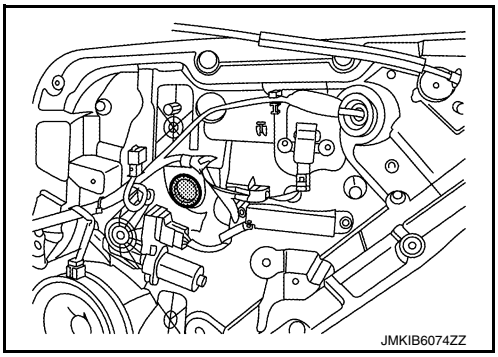
INFOID:0000000013550989

REMOVAL

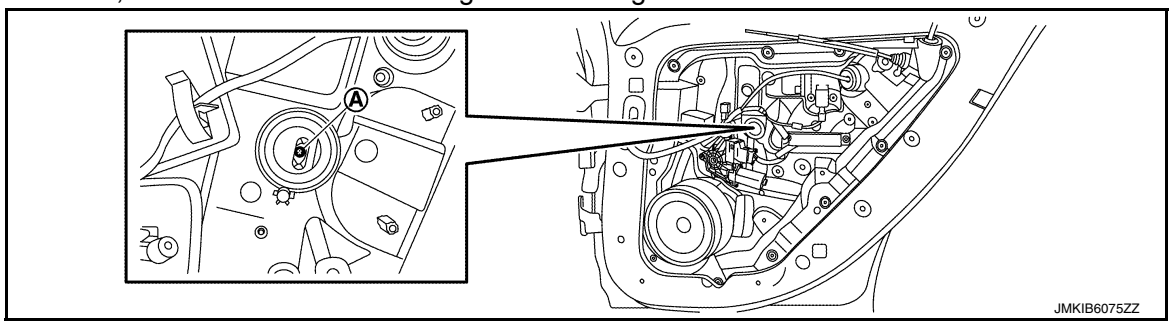
CAUTION:

Never damage rear door glass and rear door panel.

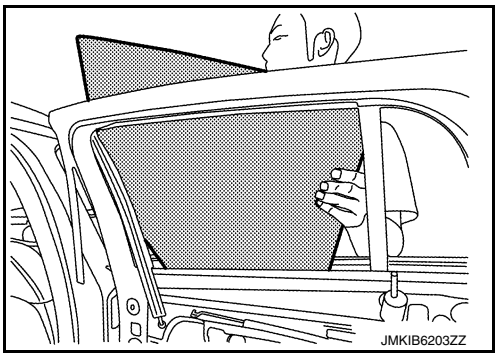
1. Fully open rear door glass.
2. Remove rear door finisher. Refer to INT-19, "Removal and Installation".
3. Remove seal cover.



4. Remove rear power window switch from rear door finisher, and then reconnect rear power window switch. Refer to PWC-91, "Removal and Installation".
5. Operate rear power window switch to raise or lower rear door glass until rear door glass mounting bolt Ⓐ can be seen, and then loosen rear door glass mounting bolt 2 turns.



6. Hold securely rear door glass and pull it out of rear door panel to remove rear door glass.
   CAUTION:
   Never damage rear door glass, rear door glass run and rear door panel.



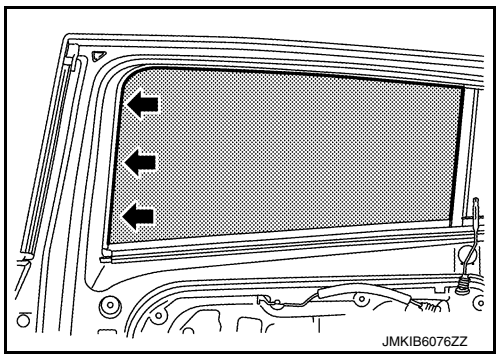
INSTALLATION

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

CAUTION:

- **Confirm that there is rear door glass on the carrier part of the regulator by all means.**

- **After sliding rear door glass in the arrow direction of the figure, and having confirmed that it touches rear door glass run, tighten rear door glass mounting bolt temporarily.**



- **After tighten rear door glass mounting bolt temporarily, tighten specified required torque.**

: 6.0 N·m (0.6 kg–m, 53 in–lb)

REAR DOOR PARTITION GLASS ASSEMBLY

REAR DOOR PARTITION GLASS ASSEMBLY : Removal and Installation

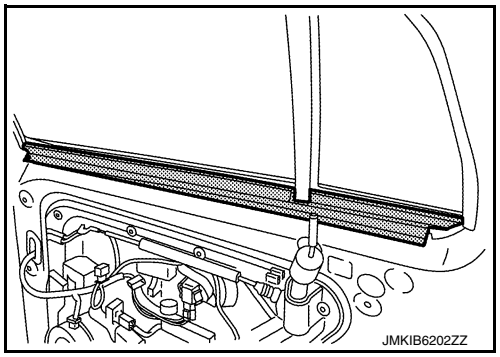
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REMOVAL

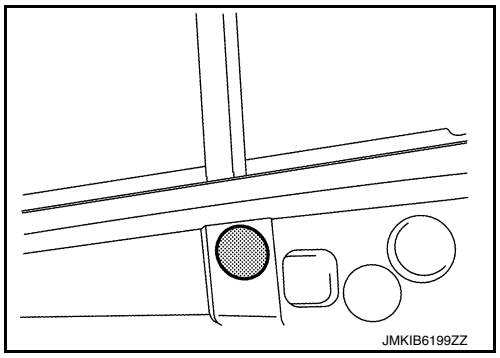
CAUTION:

Never damage rear door partition glass assembly, rear door glass and rear door panel.

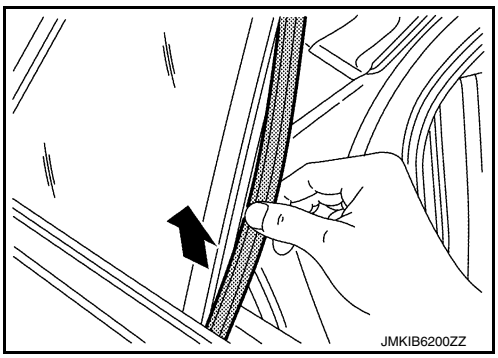
1. Fully open rear door glass.
2. Remove rear door finisher. Refer to INT-19, "Removal and Installation".
3. Remove rear door inside seal.



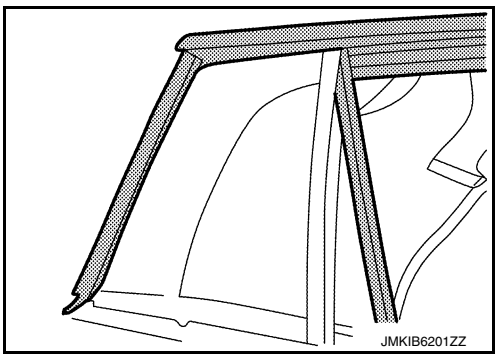
4. Remove rear door outside molding. Refer to EXT-54, "REAR DOOR OUTSIDE MOLDING : Removal and Installation".
5. Peel off seal, and then remove rear door partition glass assembly mounting bolt lower side.



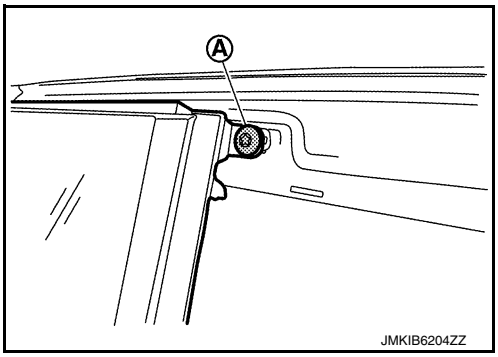
6. Pull up rear door glass run from rear door panel as shown by the arrow in the figure.



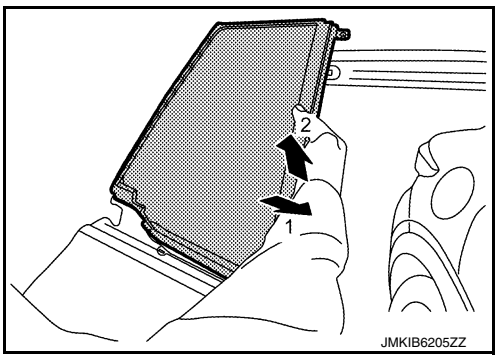
7. Remove rear door glass run around rear door partition glass assembly.



8. Remove rear door partition glass assembly mounting bolt Ⓐ upper side.



9. Remove rear door partition glass assembly from rear door panel according to numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

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

CAUTION:

To apply a thin coat of lubricant at the contact point of rear door glass run and rear door panel. [Lubricant, rubber assembly (A 000 989 03 67) (Caramba Chemie GmbH), or equivalent]

REAR DOOR GLASS RUN

REAR DOOR GLASS RUN : Removal and Installation

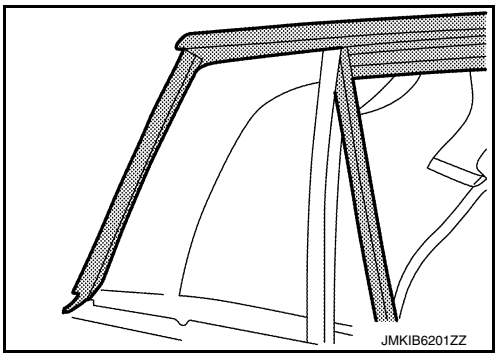
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REMOVAL

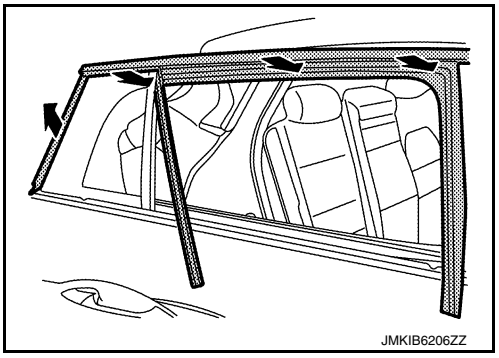
CAUTION:

Never excessively pull rear door glass run.

1. Fully open rear door glass.
2. Remove rear door sash cover. Refer to EXT-51, "REAR DOOR SASH COVER : Removal and Installation".
3. Remove rear door glass run around rear door partition glass assembly.



4. Remove rear door glass run from rear door panel.
   CAUTION:
   Make sure to work carefully due to a possibility of damage when rear door glass run is removed forcibly



INSTALLATION

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

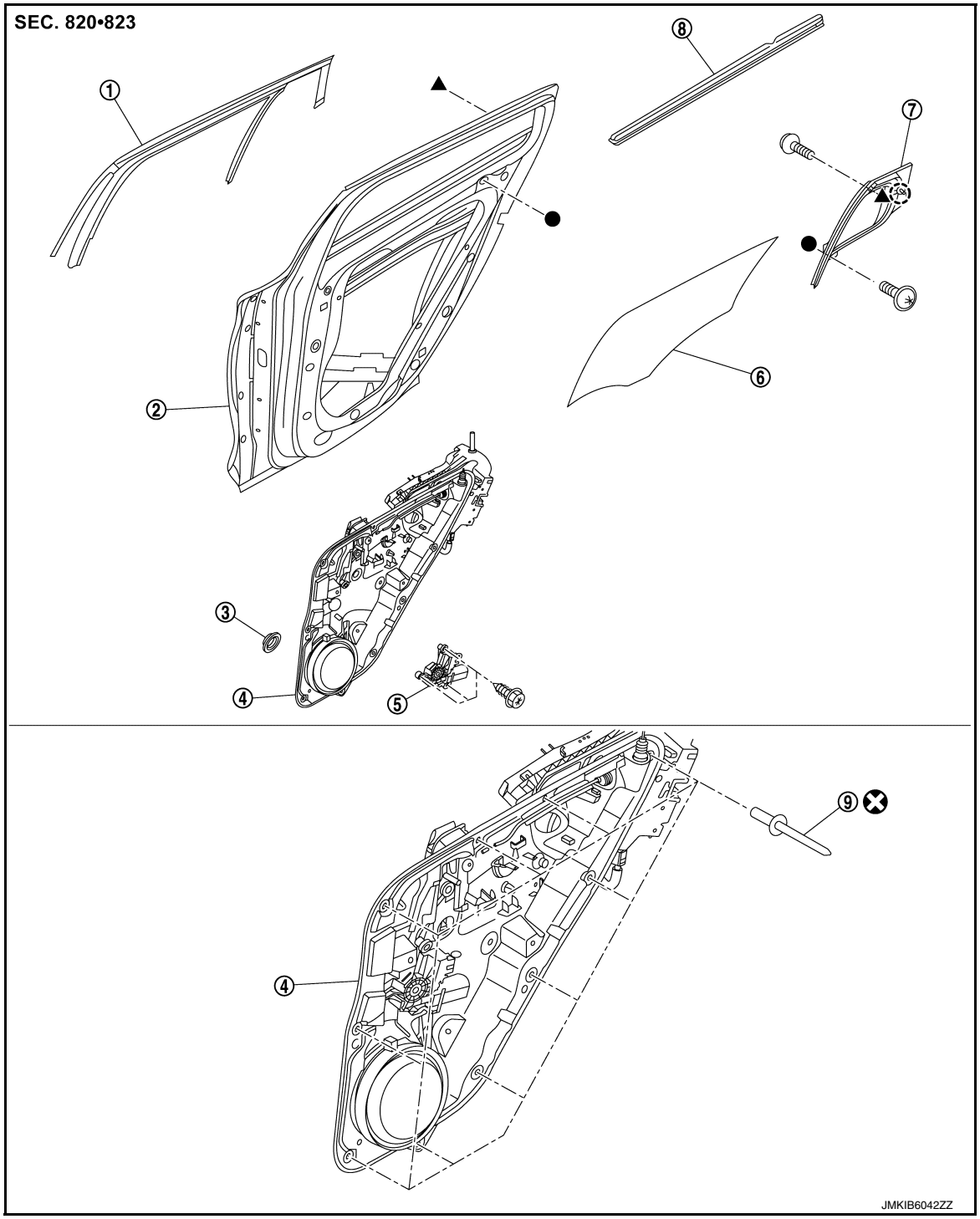
CAUTION:

- **To apply a thin coat of lubricant at the contact point of rear door glass run and rear door panel. [Lubricant, rubber assembly (A 000 989 03 67) (Caramba Chemie GmbH), or equivalent]**
- **Attaching rear door glass run to rear door panel to make the ends meet, then fix rear door glass run to rear door panel.**

REAR DOOR MODULE ASSEMBLY

Exploded View

INFOID:0000000013550992



① Rear door glass run
② Rear door panel
③ Seal cover
④ Rear door module assembly*
⑤ Rear door power window motor
⑥ Rear door glass
⑦ Rear door partition glass assembly
⑧ Rear door inside seal
⑨ Rivet
: Clip

: Always replace after every disassembly.

●, ▲: Indicates that the part is connected at points with same symbol in actual vehicle.

*: Rear door regulator is included in rear door module.

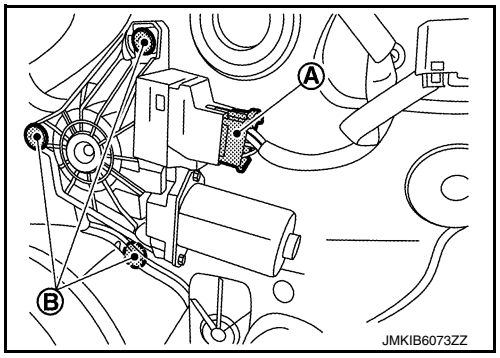
REAR DOOR POWER WINDOW MOTOR

REAR DOOR POWER WINDOW MOTOR : Removal and Installation

INFOID:0000000013550993

REMOVAL

1. Remove rear door finisher. Refer to INT-19, "Removal and Installation".
2. Disconnect harness connector Ⓐ, and then remove fixing screws Ⓑ.



3. Remove rear door power window motor.

INSTALLATION

Install in the reverse order of removal.

REAR DOOR MODULE ASSEMBLY

REAR DOOR MODULE ASSEMBLY : Removal and Installation

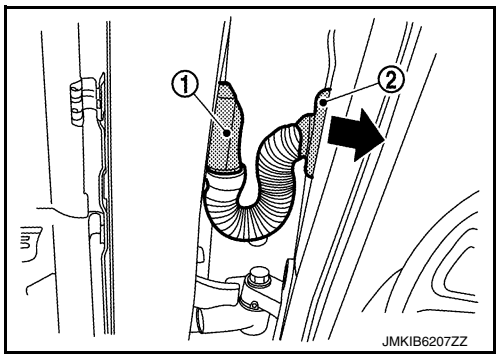
INFOID:0000000013550994

REMOVAL

CAUTION:

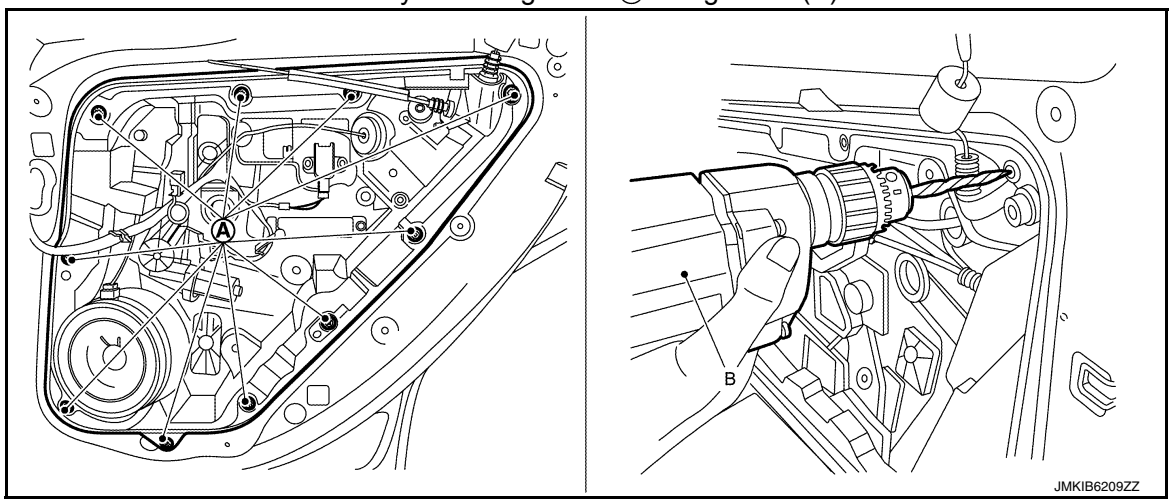
Never damage rear door glass, rear door module and rear door panel.

1. Remove rear door glass. Refer to GW-50, "REAR DOOR GLASS : Removal and Installation".
2. Remove outside handle grip. Refer to DLK-271, "OUTSIDE HANDLE : Removal and Installation".
3. Remove outside handle bracket fixing screws. Refer to DLK-269, "Exploded View".
4. Remove door lock assembly mounting TORX bolts. Refer to DLK-269, "Exploded View".
5. Disconnect door harness connector ①, and then remove grommet ②.

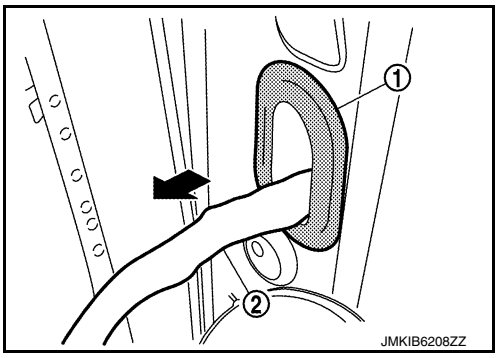


6. Mount drill bit [ϕ 7.0 (ϕ 0.28)] to drill.

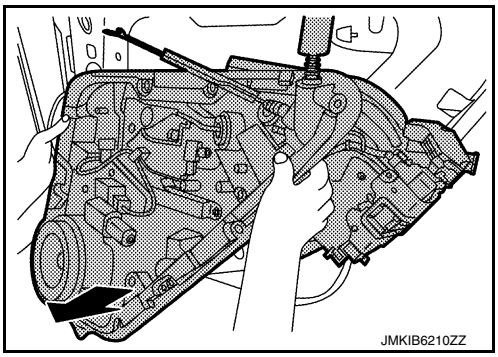
7. Remove rear door module assembly mounting rivets Ⓐ using a drill (B).



8. Remove grommet ①, and then pull out harness connector ② from rear door panel.



9. Remove rear door module assembly from rear door panel.



10. Remove the following parts after removing rear door module assembly.
    - Outside handle bracket: Refer to DLK-271, "OUTSIDE HANDLE : Removal and Installation".
    - Rear door power window motor: Refer to GW-55, "REAR DOOR POWER WINDOW MOTOR : Removal and Installation".
    - Rear door satellite sensor: Refer to SR-36, "Removal and Installation".
    - Rear door speaker: Refer to AV-250, "Removal and Installation".

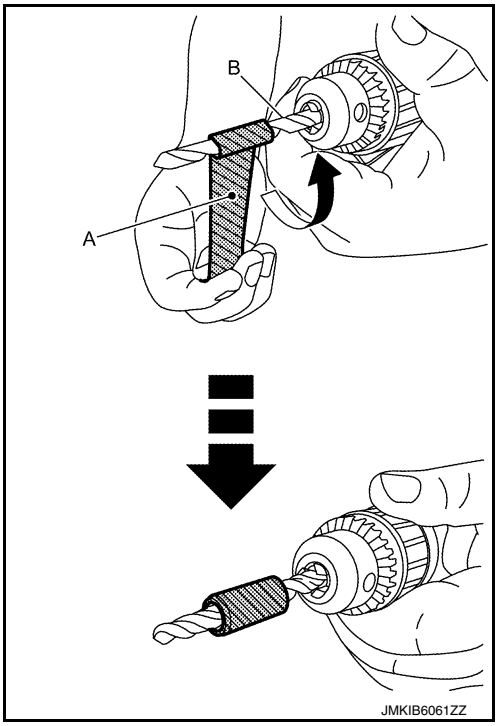
INSTALLATION

CAUTION:

Never damage rear door panel, rear door module and rear door glass

1. Remove rivet remnants (fragment) left on the front door panel.

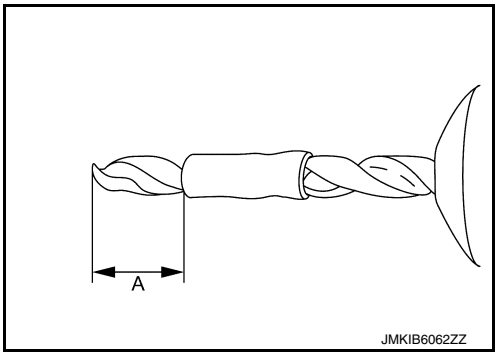
a. Wind protective tape (A) around drill bit (B).
NOTE:
Try not to damage rotary part of drill comes in contact with front door panel, wind with protective tape around it.



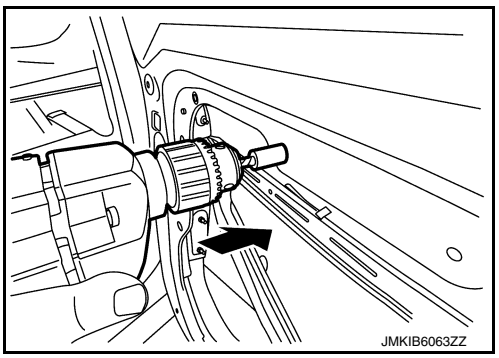
b. As in the figure, wind with protective tape so that drill bit tip leaves from protective tape.

A : 30 mm (1.18 in)

NOTE:
Try not to damage rotary part of drill comes in contact with front door panel, wind with protective tape around it.



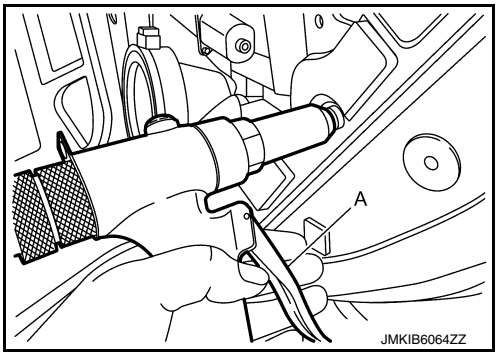
2. As in the figure, remove all rivet remnants left on the front door panel.
CAUTION:
Make sure to remove all the shavings and rivet remnants from rear door panel.



3. Install the following parts before installing rear door module assembly.
- Outside handle bracket: Refer to DLK-271, "OUTSIDE HANDLE : Removal and Installation".
- Rear door power window motor: Refer to GW-55, "REAR DOOR POWER WINDOW MOTOR : Removal and Installation".
- Rear door satellite sensor: Refer to SR-36, "Removal and Installation".
- Rear door speaker: Refer to AV-250, "Removal and Installation".

4. Install rear door module assembly using a pneumatic riveter (A).
NOTE:
Pneumatic riveter should be applied the following rivet.

Rivet (Nominal) diameter : ϕ 6.4
Stroke : More than 16 mm



5. Install door lock assembly mounting TORX bolts. Refer to DLK-269, "Exploded View".
6. Install outside handle bracket fixing screws. Refer to DLK-269, "Exploded View".
7. Install outside handle grip. Refer to DLK-271, "OUTSIDE HANDLE : Removal and Installation".
8. Install rear door glass. Refer to GW-50, "REAR DOOR GLASS : Removal and Installation".

REAR DOOR REGULATOR

REAR DOOR REGULATOR : Removal and Installation

INFOID:0000000013550995

CAUTION:
Regulator and module are assembly parts (unit), so always replace them in a set.