SECTION GW В **GLASS & WINDOW SYSTEM**

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PRECAUTION PRECAUTIONS

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

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

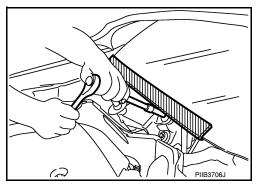
WARNING:

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

Procedure without Cowl Top Cover

INFOID:000000010282995

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



Handling for Adhesive and Primer

INFOID:000000010282996

- 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.

Precaution for Work

INFOID:000000010283031

• When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.



PRECAUTIONS

< PRECAUTION >

 When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it. Protect the removed parts with a shop cloth and prevent them from being dropped. 	А
 Replace a deformed or damaged clip. If a part is specified as a non-reusable part, always replace it with a new one. Be sure to tighten bolts and nuts securely to the specified torque. After installation is complete, be sure to check that each part works properly. 	В
 Follow the steps below to clean components: Water soluble dirt: Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area. Then rub with a soft, dry cloth. 	С
 Oily dirt: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area. 	D
 Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off. Then rub with a soft, dry cloth. Do not use organic solvent such as thinner, benzene, alcohol or gasoline. For genuine leather seats, use a genuine leather seat cleaner. 	Ε
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< PREPARATION >

PREPARATION PREPARATION

Special Service Tool

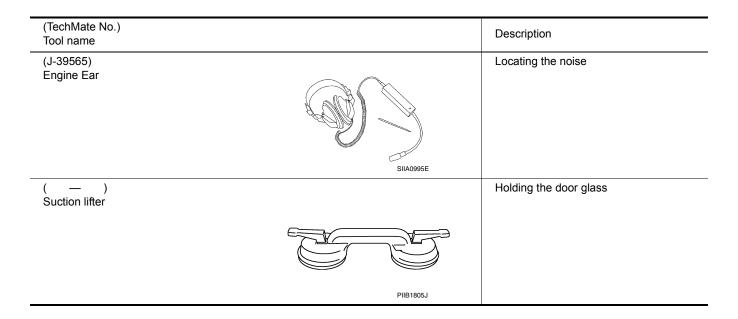
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The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name		Description
 (J-39570) Chassis Ear	Silao993E	Locating the noise
— (J-50397) NISSAN Squeak and Rattle Kit	ALUIA 1232ZZ	Repairing the cause of noise
 (J-46534) Trim Tool Set	AWJIA0483ZZ	Removing trim components

Commercial Service Tool

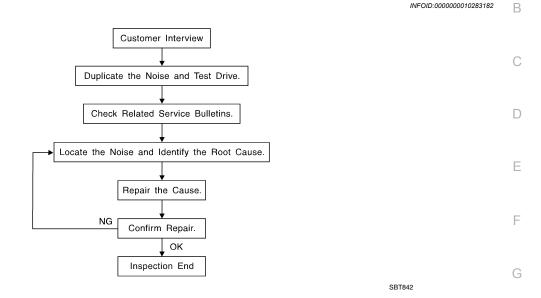
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< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



CUSTOMER INTERVIEW

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

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

DUPLICATE THE NOISE AND TEST DRIVE

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< SYMPTOM DIAGNOSIS >

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

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

- 1) Close a door.
- 2) Tap or push/pull around the area where the noise appears to be coming from.
- 3) Rev the engine.
- 4) Use a floor jack to recreate vehicle "twist".
- 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT and 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 that 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: J-39565 and mechanic's stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from.
 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 that you suspect is causing the noise. Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
 - placing a piece of paper between components that you suspect are causing the noise.
 - looking for loose components and contact marks. Refer to <u>GW-6, "Generic Squeak and Rattle Troubleshooting"</u>.

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- separate components by repositioning or loosening and retightening the component, if possible.
- insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A NISSAN Squeak and Rattle Kit (J-50397) is available through your authorized NISSAN Parts Department.

CAUTION:

Do not 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 materials contained in the NISSAN Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
- The following materials not found in the kit can also be used to repair squeaks and rattles.
- SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease will
 only last a few months.
- SILICONE SPRAY: Use when grease cannot be applied.
- DUCT TAPE: Use to eliminate movement.

CONFIRM THE REPAIR

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

Generic Squeak and Rattle Troubleshooting

INFOID:000000010283183

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



< SYMPTOM DIAGNOSIS >

INSTRUMENT PANEL

INSTRUMENT PANEL	
Most incidents are caused by contact and movement between:	А
1. Cluster lid A and the instrument panel	
2. Acrylic lens and combination meter housing	_
3. Instrument panel to front pillar finisher	В
4. Instrument panel to windshield	
5. Instrument panel pins	С
6. Wiring harnesses behind the combination meter	C
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 silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.	D
CAUTION:	Е
Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.	
CENTER CONSOLE	F
Components to pay attention to include:	
1. Shift selector assembly cover to finisher	0
2. A/C control unit and cluster lid C	G
3. Wiring harnesses behind audio and A/C control unit	
The instrument panel repair and isolation procedures also apply to the center console.	Н
DOORS	
Pay attention to the:	
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	J
Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate	
many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the NISSAN Squeak and Rattle Kit (J-50397) to repair the noise.	GW
TRUNK	
Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner. In addition look for:	L
1. Trunk lid bumpers out of adjustment	
2. Trunk lid striker out of adjustment	M
3. The 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.	Ν
SUNROOF/HEADLINING	
Noises in the sunroof/headlining area can often be traced to one of the following:	0
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	Р
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.	
OVERHEAD CONSOLE (FRONT AND REAR)	

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage. In addition look for:



< SYMPTOM DIAGNOSIS >

- 1. Loose harness or harness connectors.
- 2. Front console map/reading lamp lens loose.
- 3. Loose screws at console attachment points.

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. 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. The rear seatback lock and bracket

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

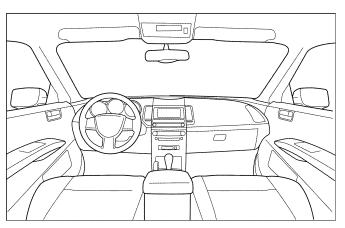
Dear Customer:

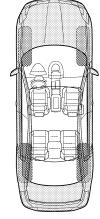
We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked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

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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.





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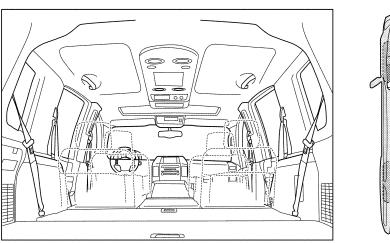
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Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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< SYMPTOM DIAGNOSIS >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II.	WHEN DOES IT OCCUR? (please 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:	IV.	WHAT TYPE OF NOISE
	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 minute		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 repa	 		
VIN: (W.O.# [

This form must be attached to Work Order

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< REMOVAL AND INSTALLATION > **REMOVAL AND INSTALLATION** WINDSHIELD GLASS

Exploded View

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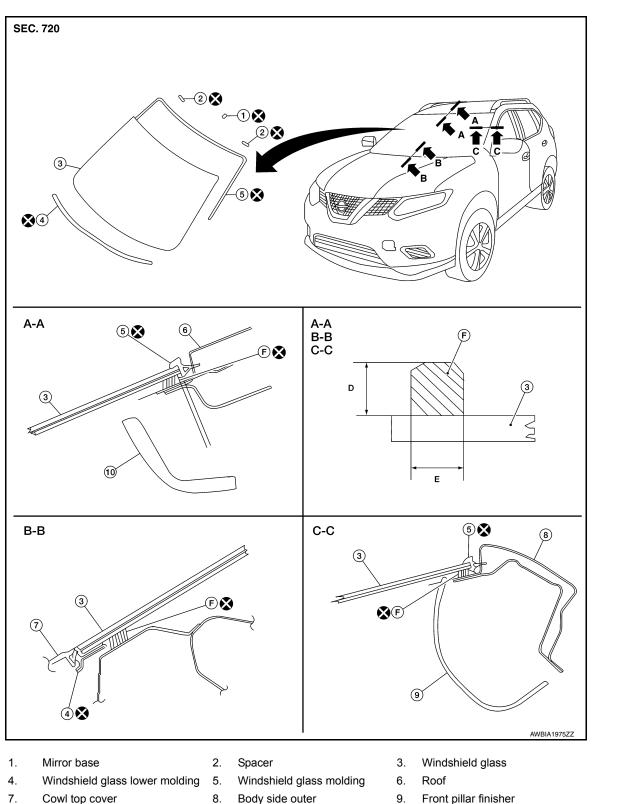
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- Cowl top cover 10. Headlining
- F. Adhesive

- 8. Body side outer
- D. 7.0 mm (0.28 in)
- 9. Front pillar finisher
- Ε. 12 mm (0.47 in)



WINDSHIELD GLASS

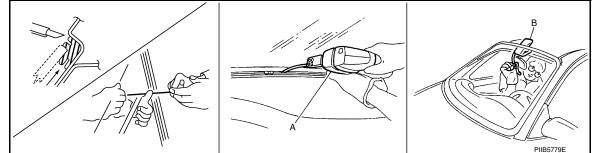
< REMOVAL AND INSTALLATION >

Removal and Installation

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REMOVAL

- 1. Remove inside mirror. Refer to MIR-20, "Removal and Installation".
- 2. Partially remove the headlining (front edge). Refer to INT-29, "Exploded View".
- 3. Remove the cowl top extension. Refer to EXT-25, "Exploded View".
- 4. Remove windshield glass using piano wire or power cutting tool (A) and an inflatable pump bag (B).



- Apply protective tape around the windshield glass to protect the painted surface from damage.
- If the windshield glass is to be reused, mark the body and the glass with matching marks.

WARNING:

When cutting the glass from the vehicle, always wear safety glasses and heavy gloves to help prevent glass splinters from entering your eyes or cutting your hands. CAUTION:

- Be careful not to scratch the glass when removing.
- Do not set or stand glass on its edge. Small chips may develop into cracks.
- Apply protective tape around the windshield glass to protect the painted surface from damage.

INSTALLATION

Installation is in the reverse order of removal.

- Use a genuine NISSAN Urethane Adhesive Kit (if available) or equivalent and follow the instructions furnished with it.
- Adhesive shall be continuously applied to assure watertightness. Glass installation shall be finished within five minutes after applying the adhesive.
- While the urethane adhesive is curing, open a door window. This will prevent the glass from being forced out by passenger compartment air pressure when a door is closed.
- The molding must be installed securely so that it is in position and leaves no gap.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (preferably 24 hours). Curing time varies with temperature and humidity.

WARNING:

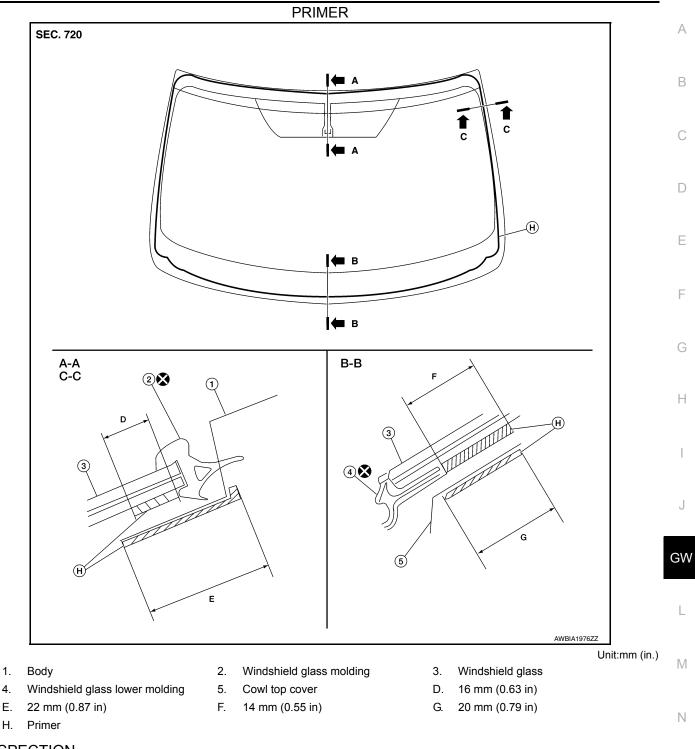
- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Avoid contact with the skin and eyes.
- Use in an open, well ventilated location. Avoid breathing the vapors. They can be harmful if inhaled. If affected by vapor inhalation, immediately move to an area with fresh air.
- Driving the vehicle before the urethane adhesive has completely cured may affect the performance of the windshield in case of an accident.

CAUTION:

- Do not use an adhesive which is past its usable term. 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.
- Do not leave primers or adhesive cartridge unattended with their caps open or off.
- The vehicle should not be driven for at least 24 hours or until the urethane adhesive has completely cured. Curing time varies depending on temperature and humidity. The curing time will increase under lower temperatures and lower humidity.

WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >



INSPECTION

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Repairing Water Leaks for Windshield

- · Leaks can be repaired without removing and reinstalling glass.
- If water is leaking between the urethane adhesive material and body or glass, determine the extent of leak.
- This can be done by applying water to the windshield area while pushing glass outward.
- To stop the leak, apply primer (if necessary) and then urethane adhesive to the leak point.

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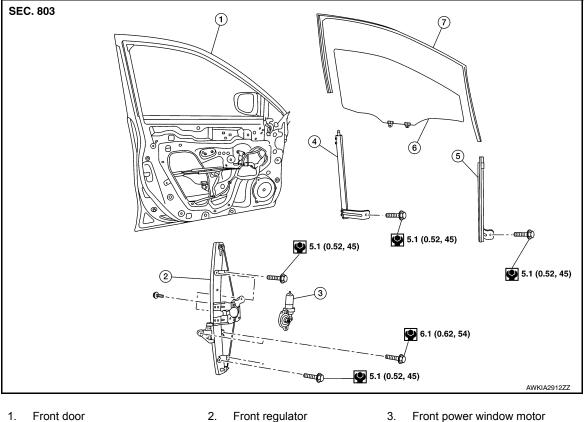
FRONT DOOR GLASS

< REMOVAL AND INSTALLATION >

FRONT DOOR GLASS

Exploded View

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Front door

- Front regulator 5. Front door glass front run
- 6. Front door glass

7. Front door glass rubber run

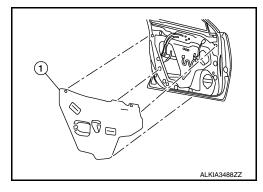
Front door glass rear run

Removal and Installation

REMOVAL

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- Remove the front door finisher. Refer to INT-15, "Removal and Installation" . 1.
- Remove the vapor barrier (1). 2.



- Temporarily reconnect the main power window and door lock/unlock switch (LH door) or power window 3. and door lock/unlock switch RH (RH door).
- Operate the main power window and door lock/unlock switch (LH door) or front door power window motor 4. and door lock/unlock switch RH (RH door) to raise/lower the front door glass until the front door regulator to front door glass bolts can be seen.

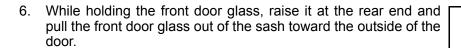
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FRONT DOOR GLASS

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< REMOVAL AND INSTALLATION >

5. Remove the front door glass regulator (1) to front door glass bolts (A).



INSTALLATION

Installation is in the reverse order of removal. CAUTION:

- When the main power window and door lock/unlock switch or front power window and door lock/ unlock switch RH is removed it is necessary to perform the initialization procedure. Refer to PWC-27, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".
- Tighten bolts to specification. Refer to <u>GW-14, "Exploded View"</u>.

FITTING INSPECTION

- · Check that the front door glass is fit securely into the glass run groove.
- GW • Lower the front door glass slightly [approximately 10 to 20 mm (0.39 to 0.79) and check that the clearance to the sash is parallel. If the clearance between the glass and sash is not parallel, loosen the front door glass regulator bolts, front door glass run channel bolts, and glass and run rail bolts to correct the glass position.

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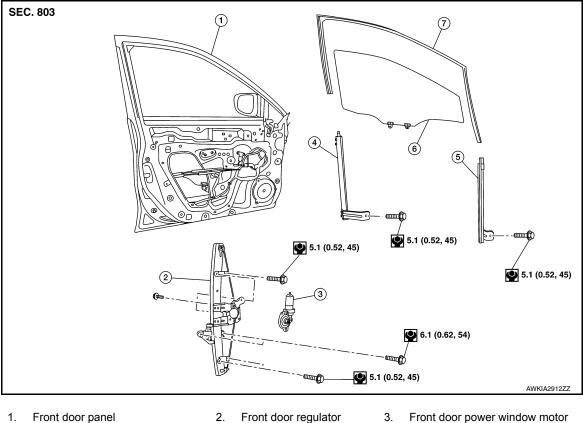
FRONT REGULATOR

< REMOVAL AND INSTALLATION >

FRONT REGULATOR

Exploded View

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1. Front door panel

Front door glass run rear

Front door glass rubber run

- 2. Front door regulator 5. Front door glass run front
- 6. Front door glass

Removal and Installation

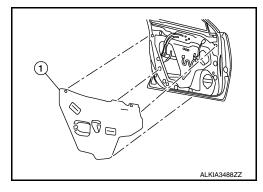
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REMOVAL

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- Remove the front door finisher. Refer to INT-15, "Removal and Installation". 1.
- Partially remove vapor barrier. 2.



- 3. Temporarily reconnect the main power window and door lock/unlock switch (LH door) or power window door lock/unlock switch RH (RH door).
- Operate the power window and door lock/unlock switch (LH door) or front door power window motor and 4. door lock/unlock switch RH (RH door) to raise/lower the front door glass until the front door regulator to front door glass bolts can be seen.

FRONT REGULATOR

< REMOVAL AND INSTALLATION >

5. Raise the front door glass and hold in place using a suitable tool (A).

- 6. Disconnect the harness connector from the front power window motor.
- 7. Remove the bolts (A) and remove the front door glass regulator.



Check the front door glass regulator for the following items:

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

If a malfunction is detected, replace or grease it.

The arrows in the figure show the application points of the suitable multi-purpose grease, if needed.

Inspection and Adjustment



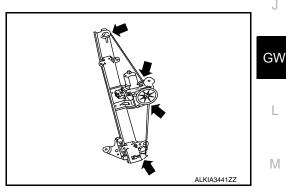
Installation is in the reverse order of removal. **CAUTION:**

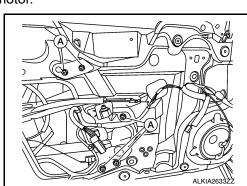
- When the main power window and door lock/unlock switch or front power window and door lock/ unlock switch RH is removed it is necessary to perform the initialization procedure. Refer to PWC-27, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".
- Tighten front door regulator bolts to specification. Refer to <u>GW-16, "Exploded View"</u>.

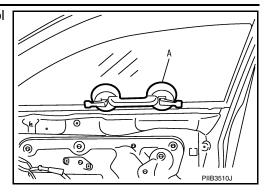
FITTING INSPECTION

• Check that the front door glass is fit securely into the glass run groove.

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< REMOVAL AND INSTALLATION >

• Lower the front door glass slightly [approximately 10 to 20 mm (0.39 to 0.79) and check that the clearance to the run is parallel. If the clearance between the glass and sash is not parallel, loosen the front door glass regulator bolts, front door glass run channel bolts, and glass and run rail bolts to correct the glass position.

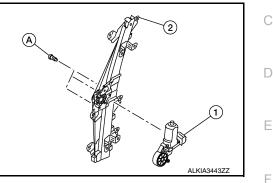
< REMOVAL AND INSTALLATION >

FRONT POWER WINDOW MOTOR

Removal and Installation

REMOVAL

- 1. Remove front door glass regulator. Refer to <u>GW-16, "Removal and Installation"</u>.
- 2. Remove screws (A) and front power window motor (1) from front door glass regulator (2).



INSTALLATION Installation is in the reverse order of removal.



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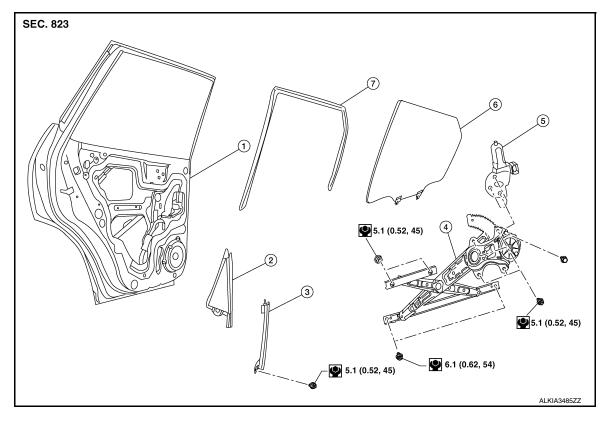
REAR DOOR GLASS

< REMOVAL AND INSTALLATION >

REAR DOOR GLASS

Exploded View

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- 1. Rear door panel
- 2. Rear door glass corner finisher
- 3. Rear door glass rear run channel 4. Rear door glass regulator assembly 5. Rear door glass power window motor 6. Rear door glass

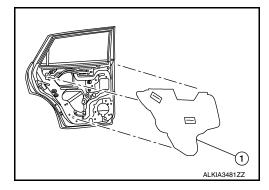
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Removal and Installation

7. Rear door glass rubber run channel

REMOVAL

- Remove the rear door finisher. Refer to INT-18, "Removal and Installation". 1.
- 2. Remove the rear door vapor barrier (1).



Temporarily reconnect the rear power window switch. 3.

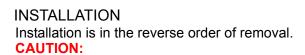
REAR DOOR GLASS

< REMOVAL AND INSTALLATION >

4. Operate the rear power window switch to raise/lower the rear door glass until the rear door glass regulator to rear door glass bolts (A) can be seen and remove.

5. Remove screws and rear door corner finisher (1).

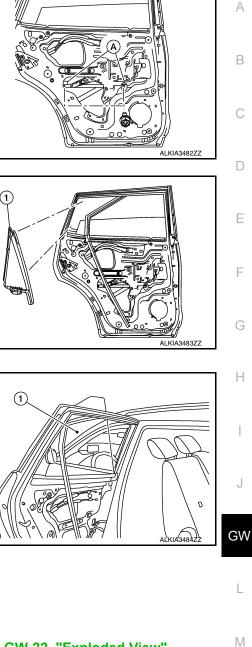
6. Remove the rear door glass (1).



Tighten the rear door regulator bolts to glass specification. Refer to <u>GW-22, "Exploded View"</u>

FITTING INSPECTION

- Check that the rear door glass is securely fit into the rear door glass run channel.
- Lower the rear door glass slightly [approximately 10 to 20 mm (0.39 to 0.79 in)], and check that the clearance to the sash is parallel. If the clearance between the rear door glass and sash is not parallel, loosen the rear door regulator to glass bolts, rear door run channel bolts, and rear door glass bolts to correct the rear door glass position.



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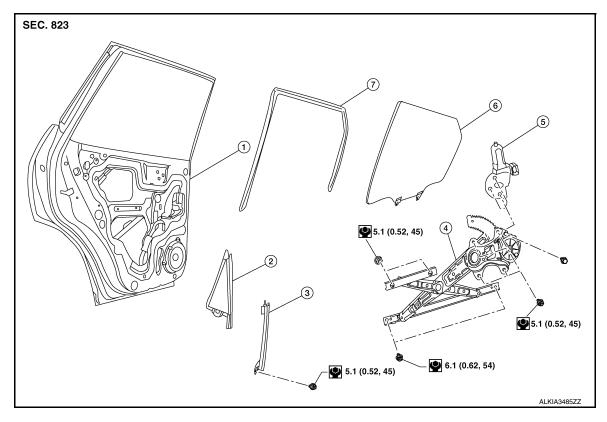
REAR REGULATOR

< REMOVAL AND INSTALLATION >

REAR REGULATOR

Exploded View

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1. Rear door panel

- Rear door glass corner finisher
- 3. Rear door glass rear run channel Rear door glass power window motor 6. Rear door glass

7. Rear door glass rubber run channel

Removal and Installation

4. Rear door regulator assembly

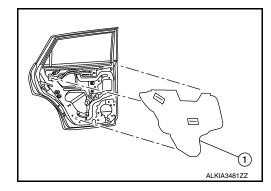
REMOVAL

Remove the rear door finisher. Refer to INT-18, "Removal and Installation". 1.

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2. Remove vapor barrier.



3. Temporarily reconnect the rear power window switch. INFOID:000000009796688

REAR REGULATOR

< REMOVAL AND INSTALLATION >

4. Operate the rear power window switch to raise/lower the rear door glass until the rear door glass regulator to rear door glass bolts (A) can be seen and remove.

5. Raise the rear door glass and hold in place with suitable tool (A).

6. Remove the bolts (B) and nuts (A) from the rear door glass regulator (1).

- 7. Disconnect the harness connector from the rear door regulator (1).
- 8. Remove rear door regulator (2).



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INSPECTION AFTER REMOVAL

Check the rear door glass regulator for the following items:

- Gear wear
- Rear door glass regulator deformation
- Spring damage
- Grease condition for each sliding part

If a malfunction is detected, replace or grease it.

INSTALLATION Installation is in reverse order of removal. CAUTION:

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REAR REGULATOR

< REMOVAL AND INSTALLATION >

• Tighten the rear door regulator to specification Refer to <u>GW-22, "Exploded View"</u>

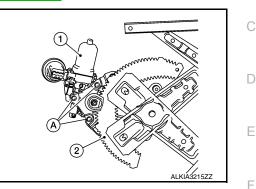
< REMOVAL AND INSTALLATION >

REAR POWER WINDOW MOTOR

Removal and Installation

REMOVAL

- 1. Remove rear door glass regulator. Refer to <u>GW-22, "Removal and Installation"</u>.
- 2. Remove screws (A) and rear door power window motor (1) from
- rear door glass regulator (2).



INSTALLATION Installation is in the reverse order of removal.

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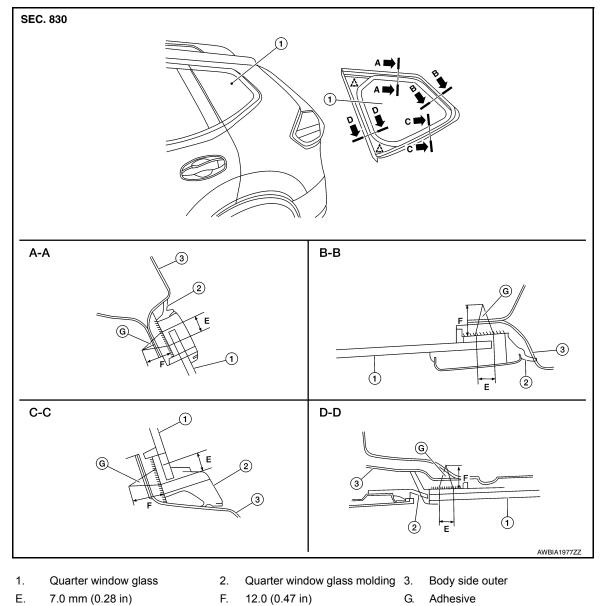
QUARTER WINDOW GLASS

< REMOVAL AND INSTALLATION >

QUARTER WINDOW GLASS

Exploded View

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Removal and Installation

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REMOVAL

- 1. Remove the luggage side upper finisher. Refer to <u>INT-36</u>, "LUGGAGE SIDE UPPER FINISHER : <u>Removal and Installation</u>".
- Remove quarter glass from the inside of vehicle using a piano wire or cutting tool and an inflatable bag. WARNING:

When cutting the quarter window from the vehicle, always wear safety glasses and heavy gloves to help prevent glass splinters from entering your eyes or cutting your hands. CAUTION:

- Apply protective tape around the quarter glass to protect the painted surface.
- Be careful not to scratch the quarter window glass when removing.
- Do not set or stand the quarter window glass on its edge. Small chips may develop into cracks.

QUARTER WINDOW GLASS

< REMOVAL AND INSTALLATION >

INSTALLATION

Installation is in the reverse order of removal.

- Install the quarter glass from outside the vehicle to ensure that it is even around the top, bottom and sides of the opening.
- Use a genuine NISSAN Urethane Adhesive Kit (if available) or equivalent and follow the instructions furnished with it.
- While the urethane adhesive is curing, open a door window. This will prevent the glass from being forced out by passenger compartment air pressure when a door is closed.
- Check gap along bottom to confirm that glass does not contact sheet metal.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (preferably 24 hours). Curing time varies with temperature and humidity.

WARNING:

- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Avoid contact with the skin and eyes.
- Use in an open, well ventilated location. Avoid breathing the vapors. They can be harmful if inhaled. If affected by vapor inhalation, immediately move to an area with fresh air.
- Driving the vehicle before the urethane adhesive has completely cured may affect the performance of the glass in case of an accident.

CAUTION:

- Do not use an adhesive which is past its usable term. 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.
- Do not leave primers or adhesive cartridge unattended with their caps open or off.
- The vehicle should not be driven for at least 24 hours or until the urethane adhesive has completely cured. Curing time varies depending on temperature and humidity. The curing time will increase under lower temperatures and lower humidity.

Inspection

REPAIRING WATER LEAKAGE FOR QUARTER WINDOW GLASS

Leakage can be repaired without removing glass.

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

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

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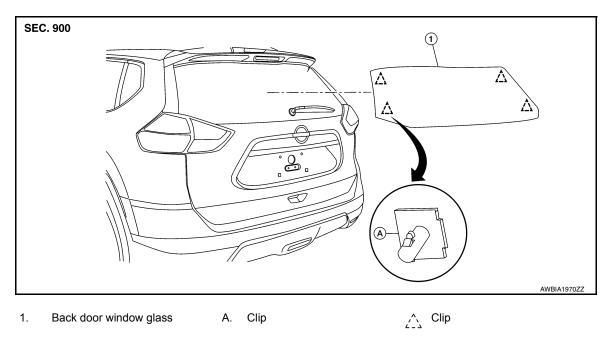
BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

BACK DOOR WINDOW GLASS

Exploded View

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Removal and Installation

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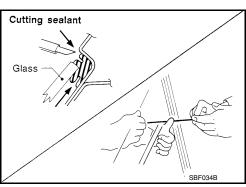
REMOVAL

- 1. Remove back door finisher. Refer to INT-38. "Removal and Installation".
- 2. Remove back door lock. Refer to <u>DLK-263</u>, "<u>DOOR LOCK</u> : <u>Removal and Installation</u>" (for intelligent key) or <u>DLK-380</u>, "<u>DOOR LOCK</u> : <u>Removal and Installation</u>" (for others).
- 3. Remove the rear wiper arm and motor. Refer to WW-71, "Removal and Installation".
- 4. Disconnect harness connectors from back door window defogger.
- 5. Remove back door window glass using piano wire or power cutting tool and an inflatable pump bag.

WARNING:

When cutting back door window glass from vehicle, always wear safety glasses and heavy gloves to prevent glass splinters from entering your eyes or cutting your hands. CAUTION:

- Be careful not to scratch glass when removing.
- Do not set or stand glass on its edge. Small chips may develop into cracks.
- Apply protective tape around back door window glass to protect painted surface from damage.
 NOTE:



Mark body and glass with matching marks if back door window glass is to be reused.

INSTALLATION

Installation is in the reverse order of removal.

- Use genuine NISSAN Urethane Adhesive Kit (if available) or equivalent and follow the instructions furnished with it.
- Adhesive shall be continuously applied to assure watertightness. Glass installation shall be finished within five minutes after applying adhesive.
- While urethane adhesive is curing, open door window. This will prevent glass from being forced out by passenger compartment air pressure when door is closed.
- Start and finish urethane adhesive application at the bottom to assure watertightness.

BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

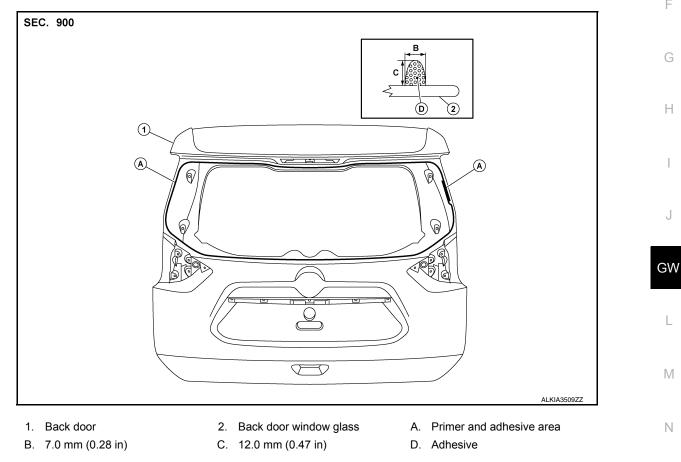
• Inform customer that vehicle should remain stationary until urethane adhesive has completely cured (preferably 24 hours). Curing time varies with temperature and humidity.

WARNING:

- Keep heat and open flames away as primers and adhesive are flammable.
- Materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Avoid contact with the skin and eyes.
- Use in an open, well ventilated location. Avoid breathing vapors. They can be harmful if inhaled. If affected by vapor inhalation, immediately move to an area with fresh air.
- Driving vehicle before urethane adhesive has completely cured may affect performance of the windshield in case of an accident.

CAUTION:

- Do not use adhesive which is past its usable term. Shelf life of this product is limited to six months after date of manufacture. Carefully adhere to expiration or manufacture date printed on box.
- Keep primers and adhesive in cool, dry place. Ideally, they should be stored in refrigerator.
- Do not leave primers or adhesive cartridge unattended with their caps open or off.
- Vehicle should not be driven for at least 24 hours or until urethane adhesive has completely cured. Curing time varies depending on temperature and humidity. Curing time will increase under lower temperatures and lower humidity.



REPAIRING WATER LEAKS FOR BACK DOOR GLASS

- · Leaks can be repaired without removing and reinstalling glass.
- Determine extent of leak, if water leaks between urethane adhesive material and body or glass.
- This can be done by applying water to glass area while pushing glass outward.
- Apply primer (if necessary) and then urethane adhesive to leak point to stop leak.

Inspection

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REPAIRING WATER LEAKAGE FOR BACK DOOR WINDOW GLASS

Leakage can be repaired without removing the glass.

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

GW-29

BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

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