

SECTION

GW

GLASS & WINDOW SYSTEM

CONTENTS

PRECAUTION	2	Inspection	13	F
PRECAUTIONS	2	BACK DOOR WINDOW GLASS	14	
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	2	Exploded View	14	G
Precaution for Procedure without Cowl Top Cover.....	2	Removal and Installation	15	
Precautions for Removing Battery Terminal	3	Inspection	16	
Handling for Adhesive and Primer	3	FRONT DOOR GLASS	17	H
PREPARATION	4	Exploded View	17	
PREPARATION	4	Removal and Installation	17	
Special Service Tools	4	Inspection and Adjustment	18	I
Commercial Service Tools	4	FRONT REGULATOR	19	
SYMPTOM DIAGNOSIS	5	Exploded View	19	J
SQUEAK AND RATTLE TROUBLE DIAGNOSES	5	Removal and Installation	19	
Work Flow	5	Disassembly and Assembly	20	
Inspection Procedure	7	Inspection and Adjustment	20	
Diagnostic Worksheet	9	REAR DOOR GLASS	21	
REMOVAL AND INSTALLATION	11	Exploded View	21	L
WINDSHIELD GLASS	11	Removal and Installation	21	
Exploded View	11	Inspection and Adjustment	22	
Removal and Installation	12	REAR REGULATOR	23	M
		Exploded View	23	
		Removal and Installation	23	
		Disassembly and Assembly	23	N
		Inspection and Adjustment	24	

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000011462094

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR

PRECAUTIONS

< PRECAUTION >

Precautions for Removing Battery Terminal

INFOID:0000000011462096

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

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.

- 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.

PREPARATION

< PREPARATION >

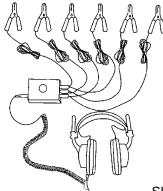
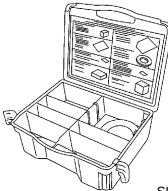
PREPARATION

PREPARATION

Special Service Tools

INFOID:000000011462098

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:000000011462099

SQUEAK AND RATTLE TROUBLE DIAGNOSES

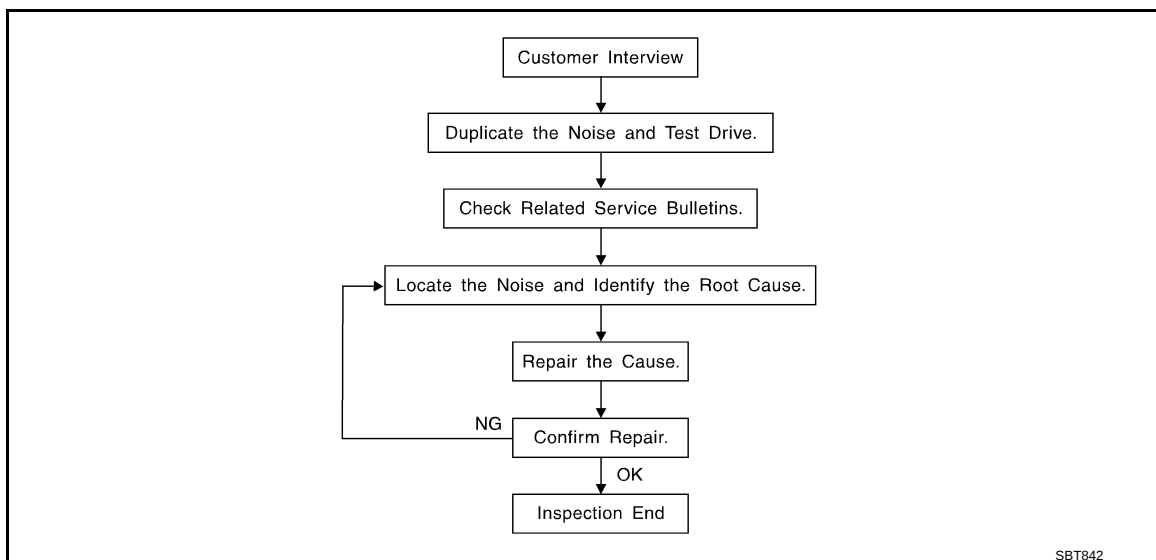
< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

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CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer comments. Refer to [GW-9, "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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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

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

SUNROOF/HEADLINING

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

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

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

SEATS

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

Causes of seat noise include:

1. Headrest rods and holder
2. A squeak between the

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

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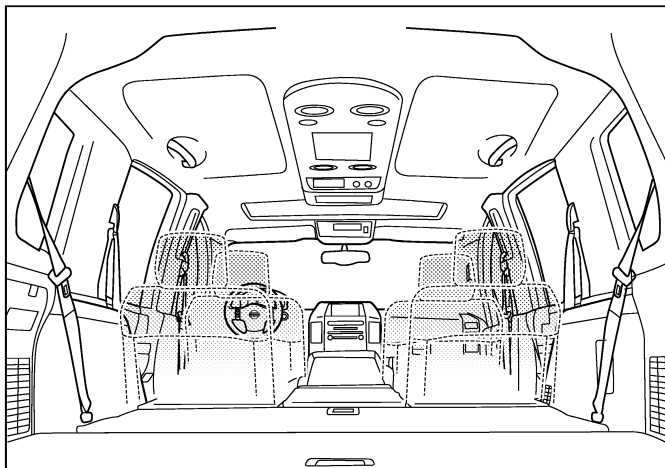
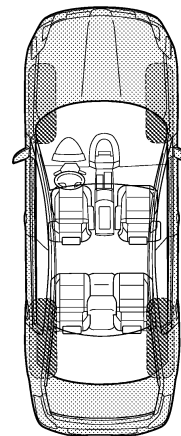
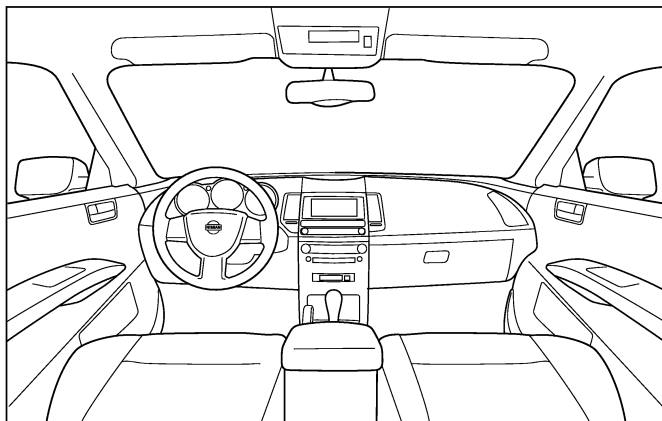
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

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

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

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



SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

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

- | | |
|---|--|
| ☐ anytime | ☐ after sitting out in the rain |
| ☐ 1st time in the morning | ☐ when it is raining or wet |
| ☐ only when it is cold outside | ☐ dry or dusty conditions |
| ☐ only when it is hot outside | ☐ 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

WINDSHIELD GLASS

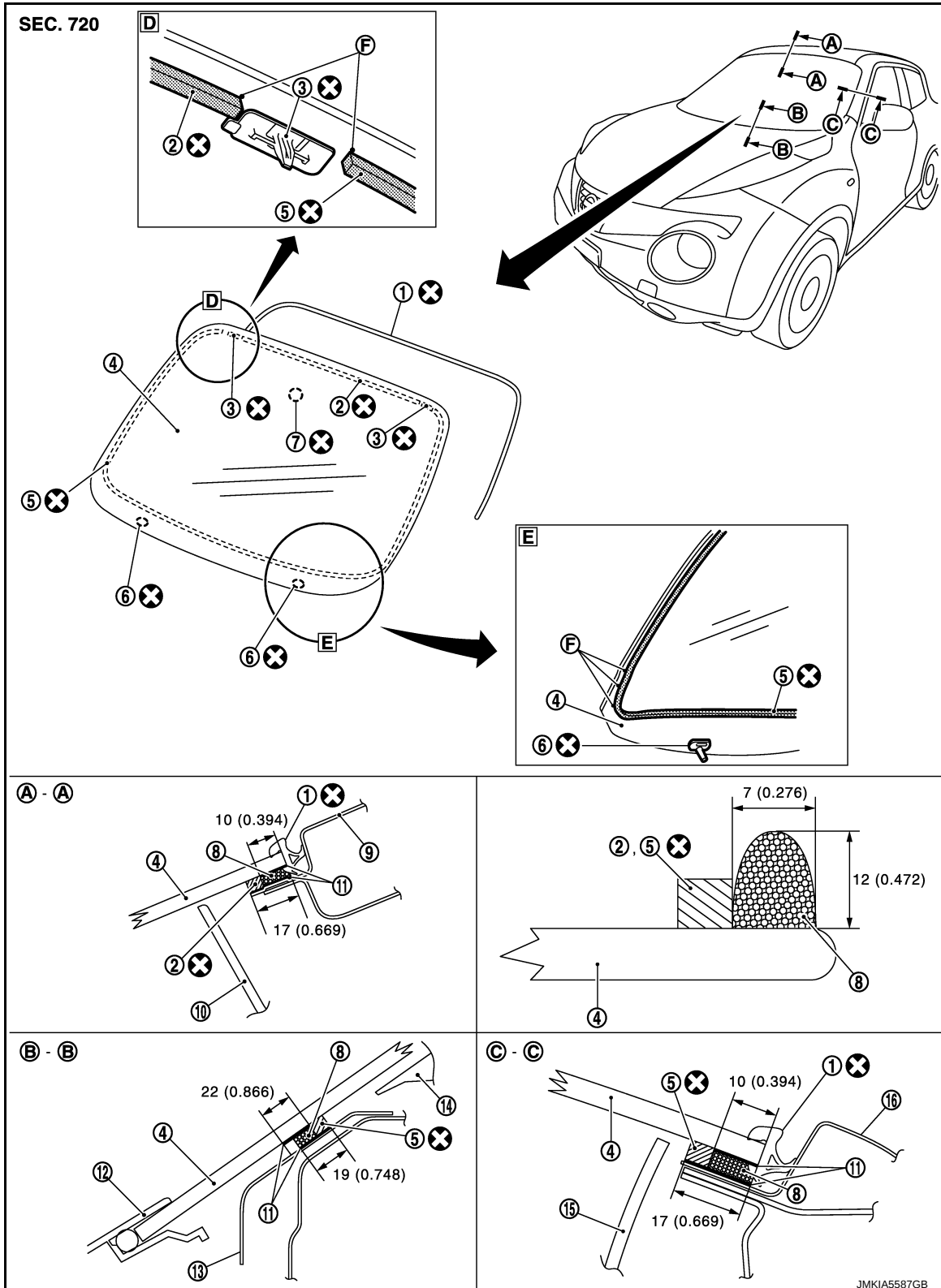
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

WINDSHIELD GLASS

Exploded View

INFOID:0000000011462103



WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

- | | | |
|-----------------------------|-------------------------------|---------------------------|
| 1. Windshield glass molding | 2. Dam rubber (upper) | 3. Upper clip |
| 4. Windshield glass | 5. Dam rubber (lower) | 6. Lower clip |
| 7. Mirror base | 8. Adhesive | 9. Roof panel |
| 10. Headlining assembly | 11. Primer | 12. Cowl top cover |
| 13. Cowl top panel | 14. Instrument panel assembly | 15. Front pillar finisher |
| 16. Body side outer panel | | |

F : Black print mark

Unit : mm (in)

⊗ : Always replace after every disassembly.

Removal and Installation

INFOID:0000000011462104

REMOVAL

1. Remove front pillar garnish (LH and RH). Refer to [INT-18, "FRONT PILLAR GARNISH : Removal and Installation"](#).
2. Remove inside mirror assembly. Refer to [MIR-16, "Removal and Installation"](#).
CAUTION:
Replace inside

WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

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

CAUTION:

- Perform adjustment of front wiper arms stop location. Refer to [WW-51, "Adjustment"](#).
- Never use an adhesive that is past its usable term. Shelf life of this product is limited to six months after the date of manufacture. Adhere carefully to the expiration or manufacture date printed on the box.
- Keep primers and adhesive in a cool, dry place. Ideally, they should be stored in a refrigerator.
- Never leave primers or adhesive cartridge unattended with their caps open or off.
- The vehicle should not be driven for 24 hours or more or until the urethane adhesive is completely cured. Curing time varies depending on temperature and humidity. The curing time increases under lower temperature and lower humidity.

Inspection

INFOID:0000000011462105

REPAIRING WATER LEAKAGE FOR WINDSHIELD GLASS

Leakage can be repaired without removing the windshield glass.

Determine the extent of leakage

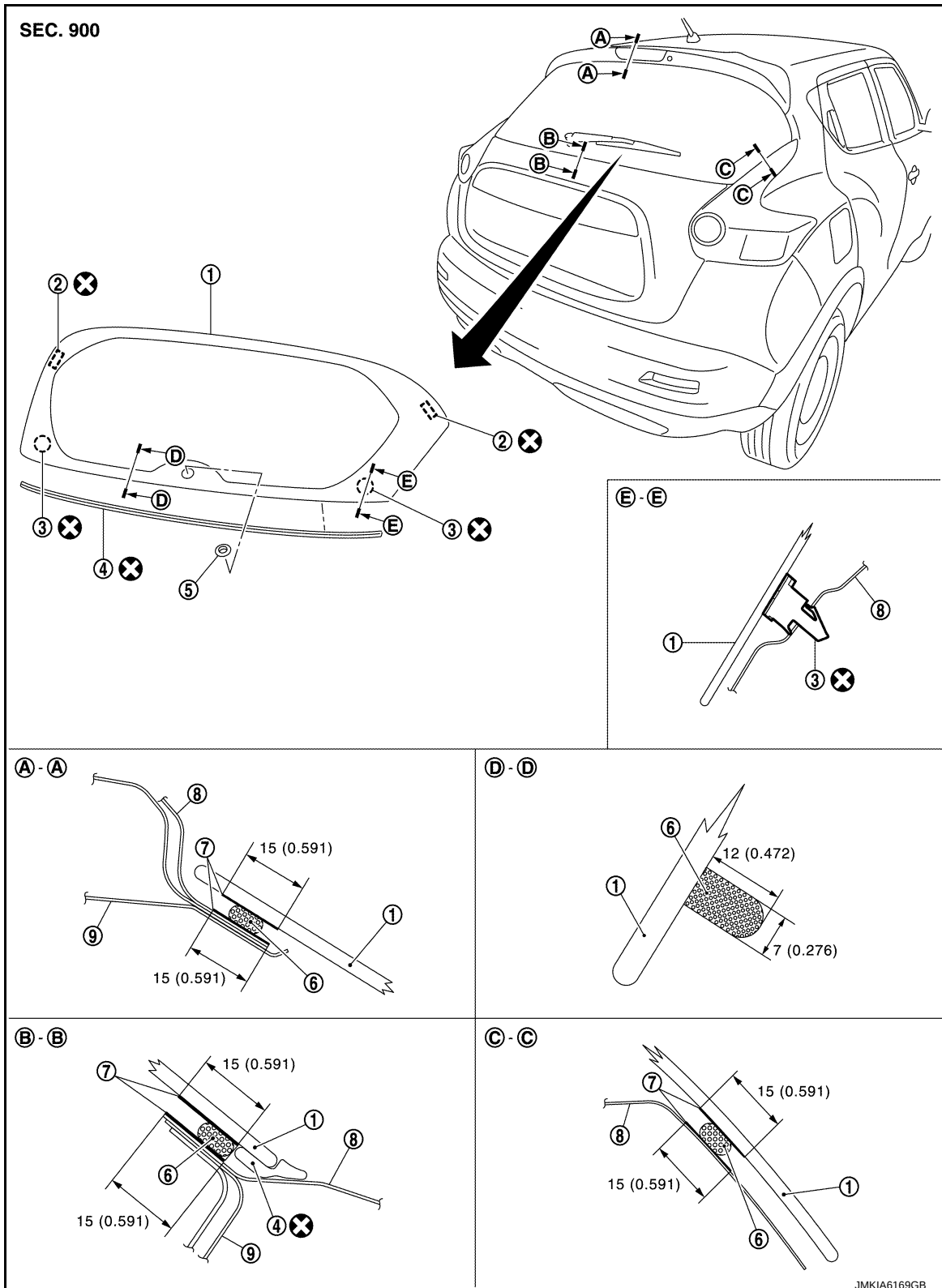
BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

BACK DOOR WINDOW GLASS

Exploded View

INFOID:000000011462106



BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

Unit : mm (in)

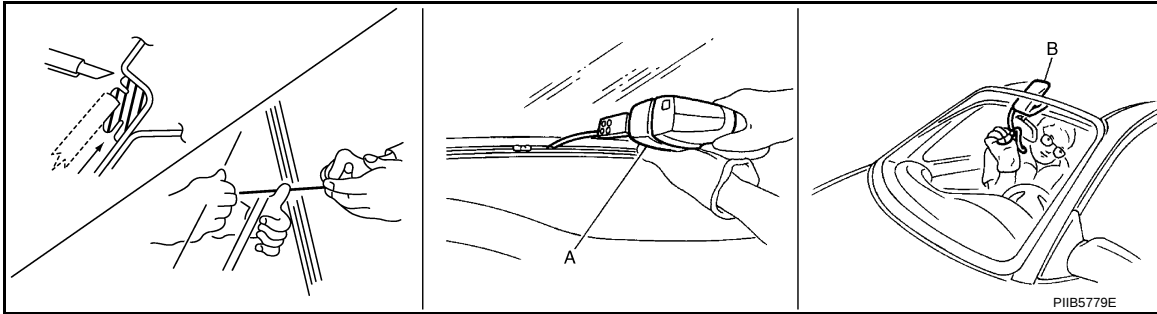
⊗ : Always replace after every disassembly.

Removal and Installation

INFOID:000000011462107

REMOVAL

1. Remove back door lower finisher. Refer to [INT-39, "BACK DOOR LOWER FINISHER : Removal and Installation"](#).
2. Remove back door side finisher (LH and RH). Refer to [INT-39, "BACK DOOR SIDE FINISHER : Removal and Installation"](#).
3. Remove rear wiper motor. Refer to [WW-59, "Removal and Installation"](#).
4. Remove the connectors and grounds for the back door window defogger.
5. Remove glass using piano wire or power cutting tool (A) and an inflatable pump bag (B) after removing molding using pliers.



BACK DOOR WINDOW GLASS

< REMOVAL AND INSTALLATION >

- **The vehicle should not be driven for 24 hours or more or until the urethane adhesive is completely cured. Curing time varies depending on temperature and humidity. The curing time increases under lower temperature and lower humidity.**

Inspection

INFOID:0000000011462108

REPAIRING WATER LEAKAGE FOR BACK DOOR WINDOW GLASS

Leakage can be repaired without removing the glass.

Determine the extent of leakage if water is leaking between the urethane adhesive material and body or glass.

This can be done by applying water to the back door window glass area while pushing glass outward.

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

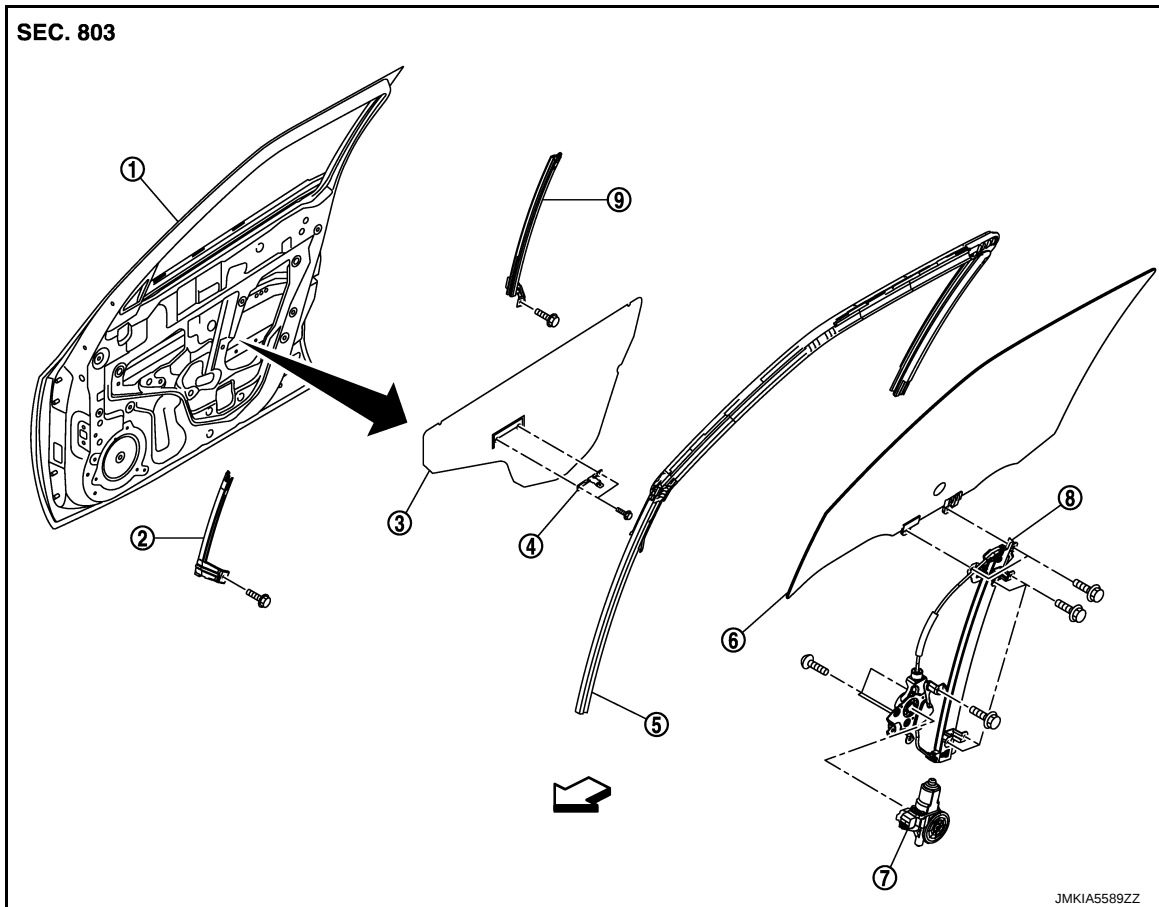
FRONT DOOR GLASS

< REMOVAL AND INSTALLATION >

FRONT DOOR GLASS

Exploded View

INFOID:0000000011462109



- | | | |
|------------------------|----------------------------------|----------------------|
| 1. Front door panel | 2. Lower sash (front) | 3. Sealing screen |
| 4. Pull handle bracket | 5. Front door glass run | 6. Front door glass |
| 7. Power window motor | 8. Front door regulator assembly | 9. Lower sash (rear) |

↶ : Vehicle front

Removal and Installation

INFOID:00000000114

FRONT DOOR GLASS

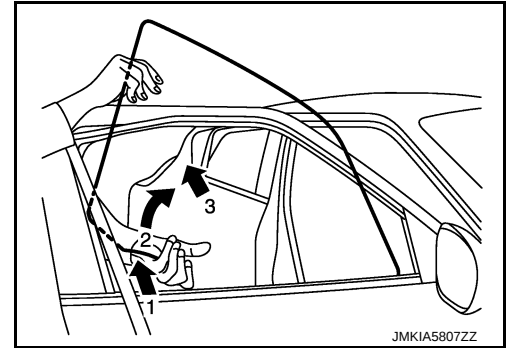
< REMOVAL AND INSTALLATION >

3. Remove lower sash (rear) mounting bolts and remove lower sash (rear).

CAUTION:

Avoid contact between lower sash (rear) and front door glass when removing.

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



9. Remove lower sash (front).
 1. Remove lower sash (front) mounting bolt.
 2. Reach the bottom part of lower sash (front) and then pull it toward rear of vehicle.
 3. Hold the upper part of lower sash (front) and then pull it up to remove.

INSTALLATION

Install in the reverse order of removal.

Inspection and Adjustment

INFOID:0000

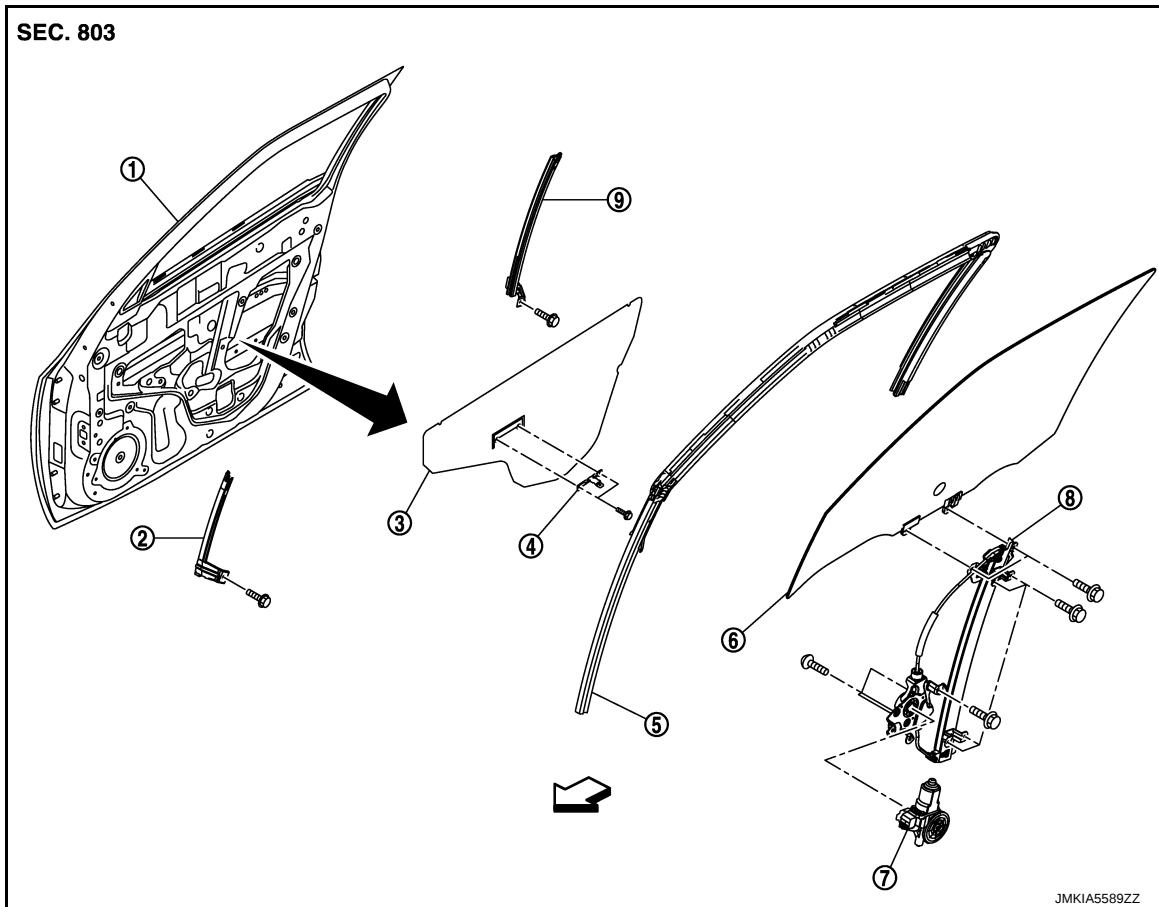
FRONT REGULATOR

< REMOVAL AND INSTALLATION >

FRONT REGULATOR

Exploded View

INFOID:0000000011462112



- | | | |
|------------------------|----------------------------------|----------------------|
| 1. Front door panel | 2. Lower sash (front) | 3. Sealing screen |
| 4. Pull handle bracket | 5. Front door glass run | 6. Front door glass |
| 7. Power window motor | 8. Front door regulator assembly | 9. Lower sash (rear) |

↶ : Vehicle front

FRONT REGULATOR

< REMOVAL AND INSTALLATION >

INSTALLATION

Install in the reverse order of removal.

Disassembly and Assembly

INFOID:0000000011462114

DISASSEMBLY

Remove the power window motor from the regulator assembly.

INSPECTION AFTER REMOVAL

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

- Wire wear
- Regulator deformation

ASSEMBLY

Assemble in the reverse order of disassembly.

Inspection and Adjustment

INFOID:0000000011462115

SYSTEM INITIALIZATION

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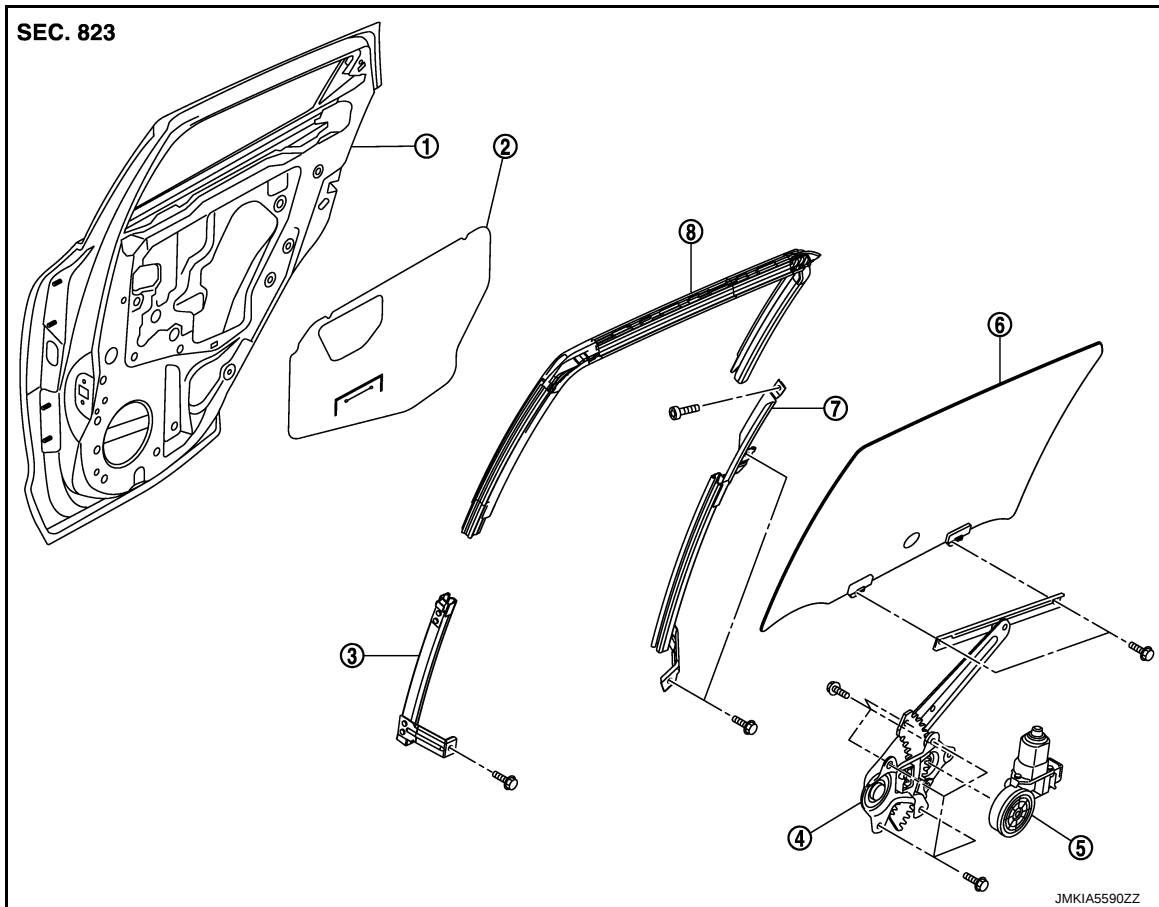
REAR DOOR GLASS

< REMOVAL AND INSTALLATION >

REAR DOOR GLASS

Exploded View

INFOID:0000000011462116



- | | | |
|---------------------------------|------------------------|-----------------------|
| 1. Rear door panel | 2. Sealing screen | 3. Lower sash (front) |
| 4. Rear door regulator assembly | 5. Power window motor | 6. Rear door glass |
| 7. Lower sash (rear) | 8. Rear door glass run | |

Removal and Installation

INFOID:0000000011462117

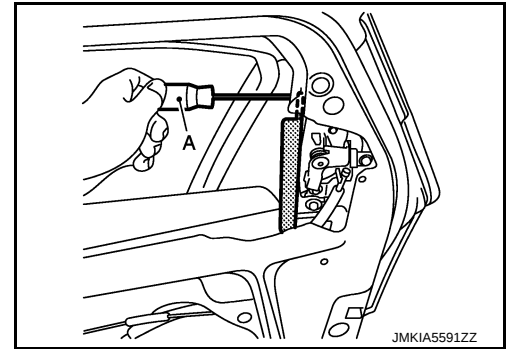
REMOVAL

1. Fully open rear door glass.
2. Remove rear door finisher. Refer to [INT-16, "Removal and Installation"](#).
3. Remove

REAR DOOR GLASS

< REMOVAL AND INSTALLATION >

8. Remove lower sash (rear) mounting bolts and TORX bolt with a screwdriver (A) as shown in the figure.



9. Remove lower sash (rear) from the rear door panel.

CAUTION:

Avoid contact between lower sash (rear) and rear door glass when removing.

10. Remove rear door glass from the rear panel.

INSTALLATION

Install in the reverse order of removal.

Inspection and Adjustment

INFOID:00000000114

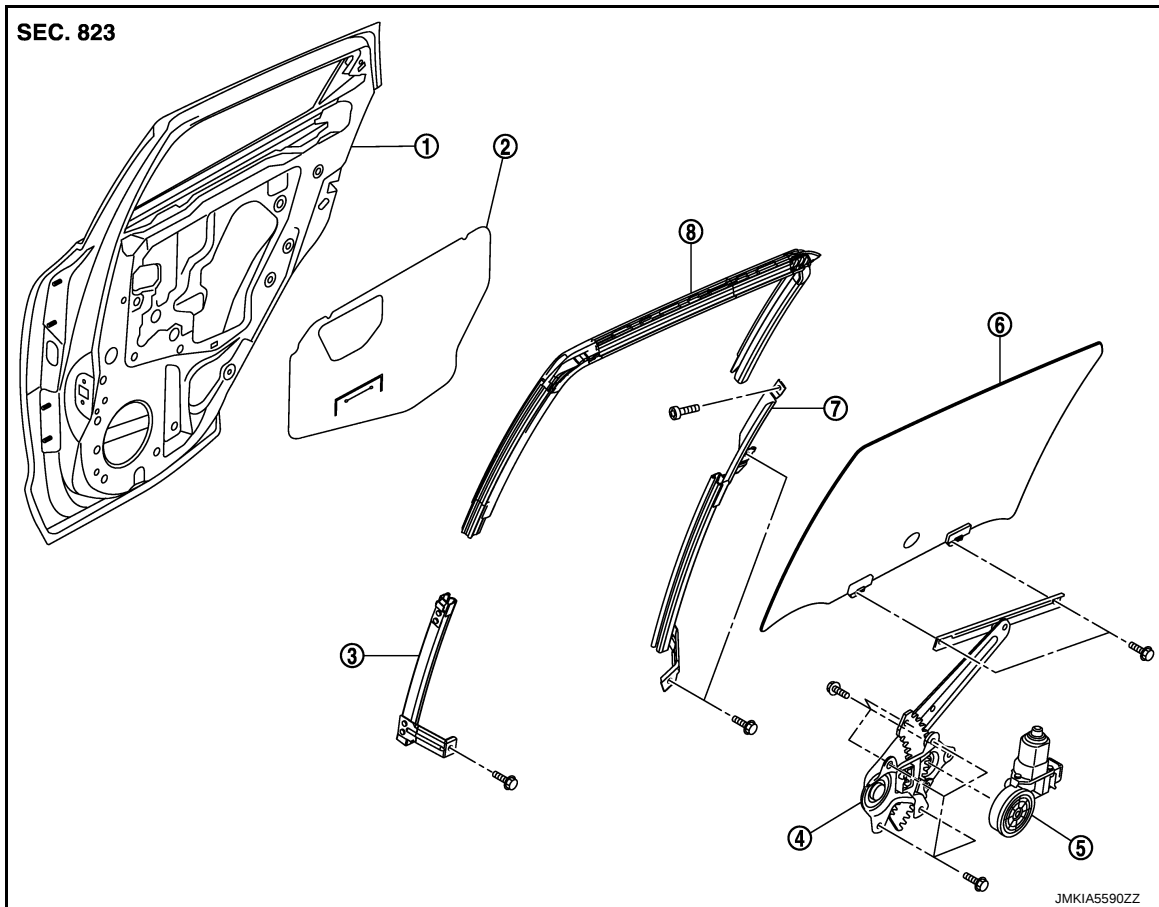
REAR REGULATOR

< REMOVAL AND INSTALLATION >

REAR REGULATOR

Exploded View

INFOID:0000000011462119



- | | | |
|---------------------------------|------------------------|-----------------------|
| 1. Rear door panel | 2. Sealing screen | 3. Lower sash (front) |
| 4. Rear door regulator assembly | 5. Power window motor | 6. Rear door glass |
| 7. Lower sash (rear) | 8. Rear door glass run | |

Removal and Installation

INFOID:0000000011462120

REMOVAL

1. Remove rear door glass. Refer to [GW-21, "Removal and Installation"](#).
2. Disconnect the power window motor harness

REAR REGULATOR

< REMOVAL AND INSTALLATION >

ASSEMBLY

Assemble in the reverse order of disassembly.

Inspection and Adjustment

INFOID:0000000011462122

SYSTEM INITIALIZATION

Initialize the system if any of the following work is complete. Refer to [PWC-23, "Work Procedure"](#).

FITTING INSPECTION

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