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C
D
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F
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INT
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L
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O
P

CONTENTS

SYMPTOM DIAGNOSIS	2	Removal and Installation	12
SQUEAK AND RATTLE TROUBLE DIAG- NOSES	2	BODY SIDE TRIM	15
Work Flow	2	Exploded View	15
Inspection Procedure	4	Removal and Installation	15
Diagnostic Worksheet	6	REAR PARCEL SHELF FINISHER	20
PRECAUTION	8	Exploded View	20
PRECAUTIONS	8	Removal and Installation	20
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER"	8	FLOOR TRIM	22
Precaution for Procedure without Cowl Top Cover.....	8	Exploded View	22
Precautions for Removing Battery Terminal	9	Removal and Installation	22
Precaution for Work	9	HEADLINING	24
PREPARATION	10	NORMAL ROOF	24
PREPARATION	10	NORMAL ROOF : Exploded View	24
Special Service Tools	10	NORMAL ROOF : Removal and Installation	25
Commercial Service Tools	10	SUNROOF	26
CLIP LIST	11	SUNROOF : Exploded View	27
Clip List	11	SUNROOF : Removal and Installation	27
REMOVAL AND INSTALLATION	12	TRUNK ROOM TRIM	30
DOOR FINISHER	12	Exploded View	30
Exploded View	12	Removal and Installation	30
		TRUNK LID TRIM	32
		Exploded View	32
		Removal and Installation	32

SQUEAK AND RATTLE TROUBLE DIAGNOSES

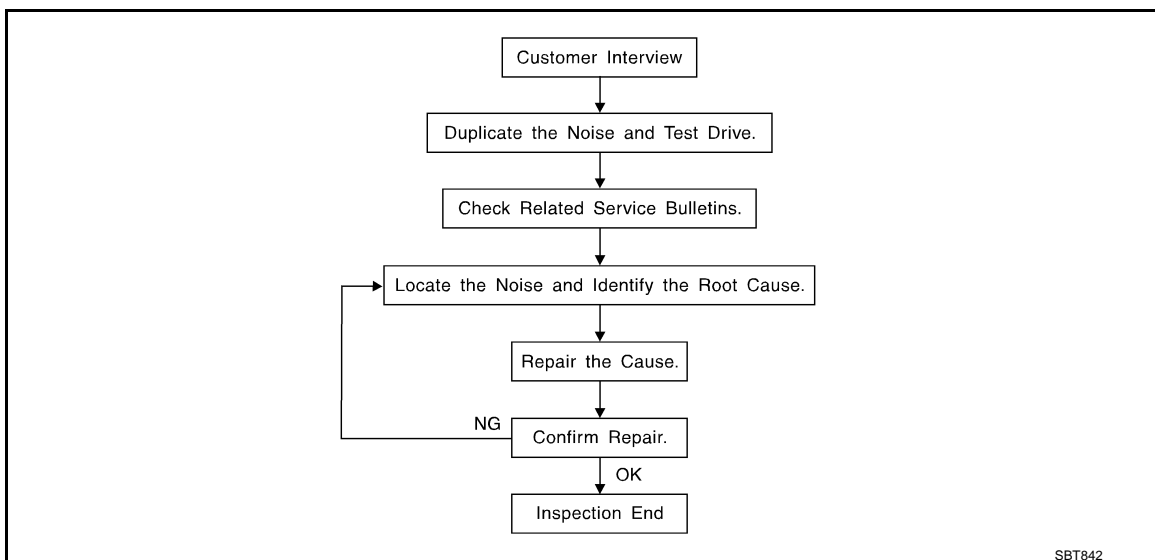
< SYMPTOM DIAGNOSIS >

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 [INT-6. "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

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, do the following with the vehicle stopped to help identify the source of the noise.

- 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(s) 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, creating a 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 [INT-4, "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). Each item can 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 (1.18 in) thick, 30 × 50 mm (1.181 × 1.969 in)

FELT CLOTHTAPE

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

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

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The 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 check 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

Check the following items:

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

Tapping, moving the components, or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the NISSAN Squeak and Rattle Kit (J-50397) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer.

In addition check for the following items:

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 seat pad cushion and frame
3. The rear seatback lock and bracket

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

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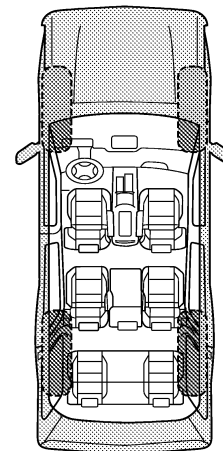
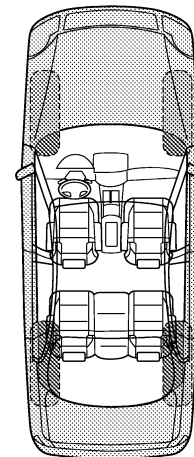
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

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

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

III. WHEN DRIVING:

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

IV. WHAT TYPE OF NOISE

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

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

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

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

This form must be attached to Work Order

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

INFOID:000000010989266

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 BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

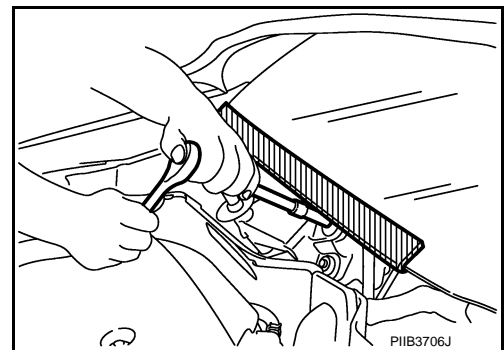
Always observe the following items for preventing accidental activation.

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

Precaution for Procedure without Cowl Top Cover

INFOID:000000010989267

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



PRECAUTIONS

< PRECAUTION >

Precautions for Removing Battery Terminal

INFOID:000000011404576

- 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.

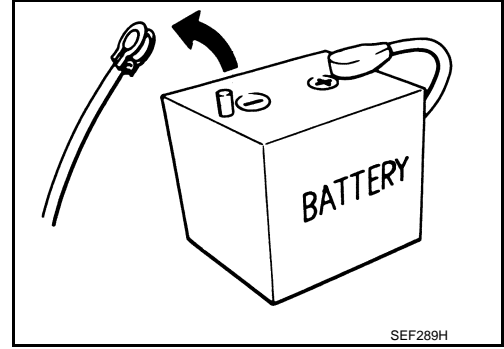
NOTE:

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.



Precaution for Work

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- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

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PREPARATION

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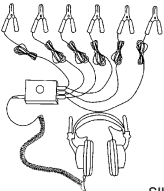
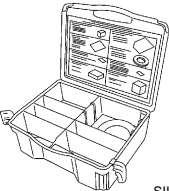
PREPARATION

PREPARATION

Special Service Tools

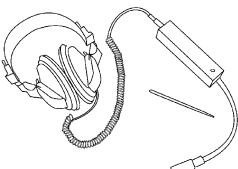
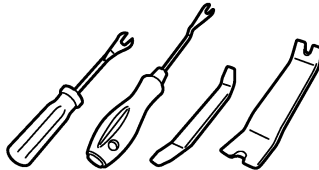
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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
<p>(J-39570) Chassis ear</p>  <p style="text-align: right;">SIIA0993E</p>	<p>Locates the noise</p>
<p>(J-50397) NISSAN Squeak and Rattle Kit</p>  <p style="text-align: right;">SIIA0994E</p>	<p>Repairs the cause of noise</p>

Commercial Service Tools

INFOID:000000010989270

Tool name	Description
<p>Engine ear</p>  <p style="text-align: right;">SIIA0995E</p>	<p>Locates the noise</p>
<p>Remover tool</p>  <p style="text-align: right;">JMKIA3050ZZ</p>	<p>Removes clips, pawls and metal clips</p>

CLIP LIST

< PREPARATION >

CLIP LIST

Clip List

INFOID:000000010989271

Shapes	Removal & Installation	Shapes	Removal & Installation
	<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p>		<p>Removal: Finisher Clip A Flat-bladed screwdriver Clip B</p>
	<p>Removal: Remove with a clip remover.</p>		<p>Removal: Flat-bladed screwdriver Finisher Body panel Clip A Clip B (Grommet)</p>
	<p>Removal: Push center pin to catching position. (Do not remove center pin by hitting it.)</p> <p>Installation: Push</p>		<p>Removal: Holder portion of clip must be spread out to remove rod.</p>
	<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p> <p>Clip Finisher</p>		<p>Removal: 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver.</p>
	<p>Removal:</p>		<p>Removal: Rotate 45° to remove.</p> <p>Installation:</p>
	<p>Removal:</p>		<p>Removal:</p>

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DOOR FINISHER

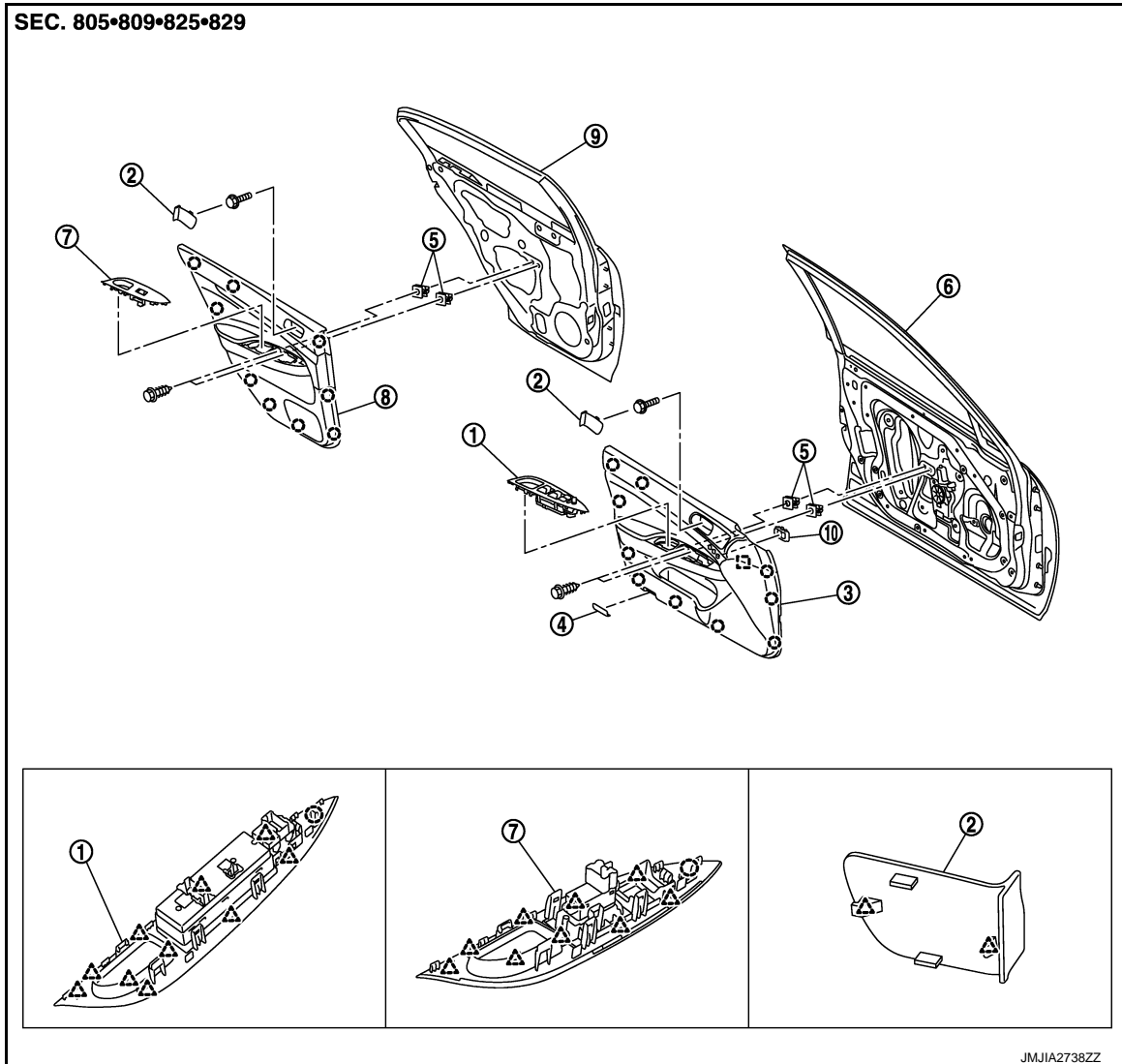
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REMOVAL AND INSTALLATION




DOOR FINISHER

Exploded View

INFOID:000000010989272



- | | | |
|---|-----------------------------|------------------------|
| 1. Power window switch finisher (front) | 2. Inside handle escutcheon | 3. Front door finisher |
| 4. Step lamp | 5. Grommet | 6. Front door panel |
| 7. Power window switch finisher (rear) | 8. Rear door finisher | 9. Rear door panel |
| 10. Seat memory switch | | |

-  : Clip
-  : Pawl
-  : Metal clip

Removal and Installation

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CAUTION:
When removing, always use a remover tool that is made of plastic.


REMOVAL

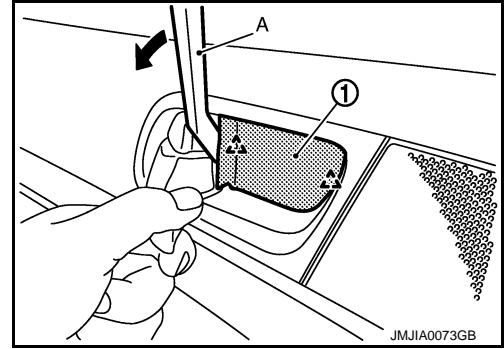
FRONT AND REAR DOOR FINISHER

DOOR FINISHER

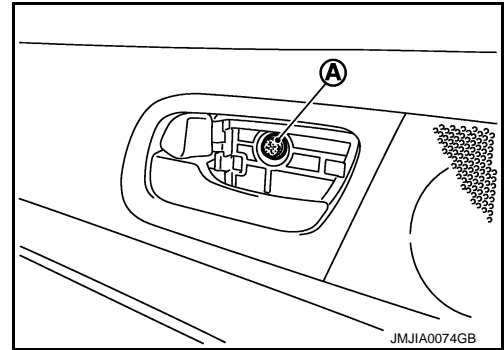
< REMOVAL AND INSTALLATION >

1. Fully open door window.
2. Remove inside handle escutcheon (1) with remover tool (A).


 : Pawl

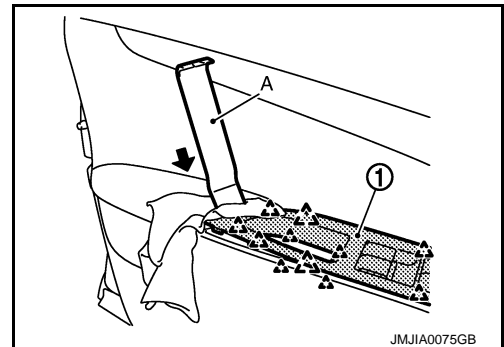


3. Remove screw (A), located behind the inside handle escutcheon.

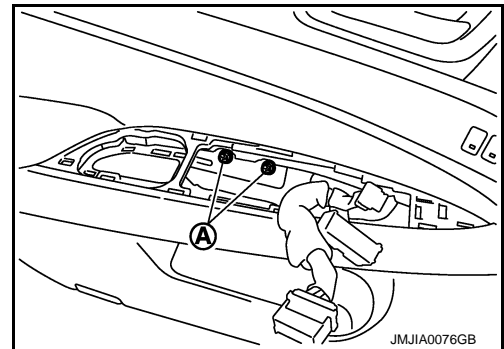


4. Disengage the power window switch finisher (1) fixing pawls with a remover tool (A).
5. Disconnect power window switch connectors, and then remove power window switch finisher.

 : Pawl



6. Remove screws (A), located behind the power window finisher.




7. Remove step lamp. Refer to [INL-101, "Removal and Installation"](#).

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DOOR FINISHER

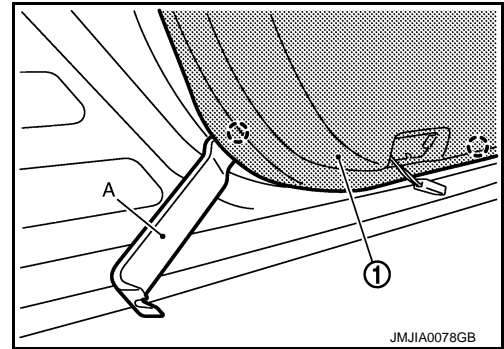
< REMOVAL AND INSTALLATION >

8. Insert a remover tool (A) into clips on door finisher (1), and disengage clips.

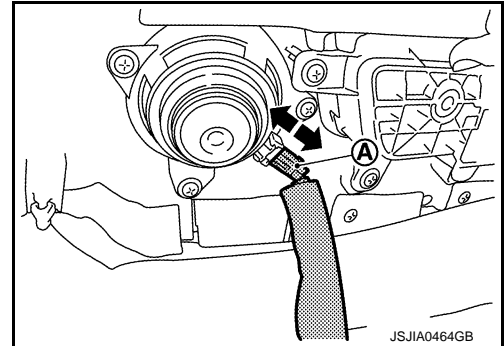
 : Clip

CAUTION:

Insert a remover tool into the part shown in the figure (Between the clip and the body side panel).



9. Pull up door finisher and pull out toward vehicle inside.
- Disconnect tweeter connector (A). (with BASE AUDIO)
 - Disconnect front door squawker connector (A). (with BOSE AUDIO)



10. Disconnect the inside handle cable from front door inside handle assembly. Refer to [DLK-245, "FRONT DOOR LOCK : Removal and Installation"](#).
11. Remove door finisher.
12. Remove the following parts after removing door finisher.
- Front door inside handle assembly. Refer to [DLK-245, "FRONT DOOR LOCK : Exploded View"](#).
 - Rear door inside handle assembly. Refer to [DLK-248, "REAR DOOR LOCK : Exploded View"](#).
 - Tweeter. Refer to [AV-111, "Removal and Installation"](#) (with Base audio) or [AV-255, "Removal and Installation"](#) (with Bose audio)
 - Front door squawker. Refer to [AV-252, "Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

When installing door finisher, check that clips are securely fitted in panel holes on body, and then press them in.

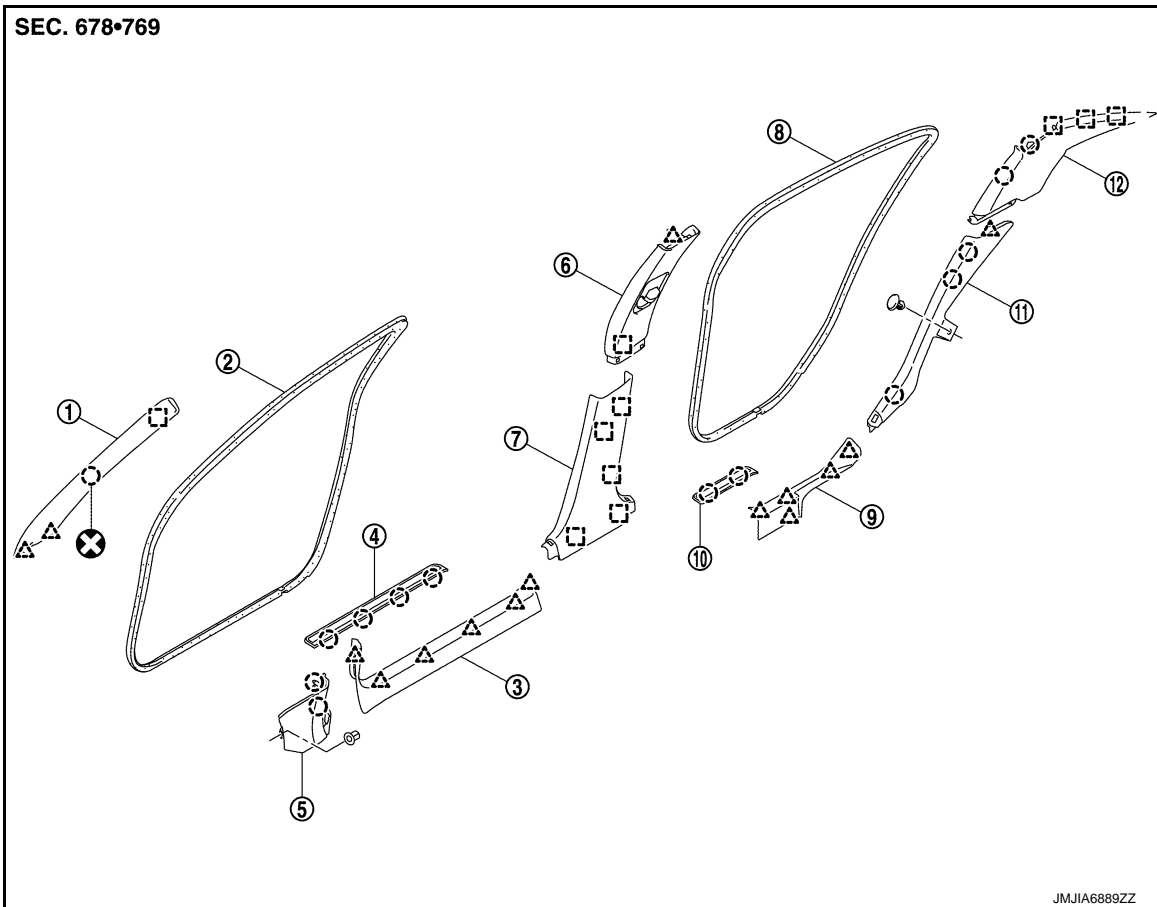
BODY SIDE TRIM

< REMOVAL AND INSTALLATION >

BODY SIDE TRIM

Exploded View

INFOID:000000010989274



- | | | |
|--------------------------------|------------------------------|--------------------------------|
| 1. Front pillar garnish | 2. Front body side welt | 3. Front kicking plate inner |
| 4. Front kicking plate outer | 5. Dash side finisher | 6. Center pillar upper garnish |
| 7. Center pillar lower garnish | 8. Rear body side welt | 9. Rear kicking plate inner |
| 10. Rear kicking plate outer | 11. Rear wheel house garnish | 12. Rear pillar finisher |

○ : Clip

△ : Pawl

□ : Metal clip

⊗ : Always replace after every disassembly.

Removal and Installation

INFOID:000000010989275

CAUTION:

- Wrap the tip of flat-bladed screwdriver with a cloth when removing metal clips from garnishes.
- Never damage the body.
- When removing, always use a remover tool that is made of plastic.

REMOVAL

FRONT PILLAR GARNISH

1. Release front pillar garnish portion of front body side welt.

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

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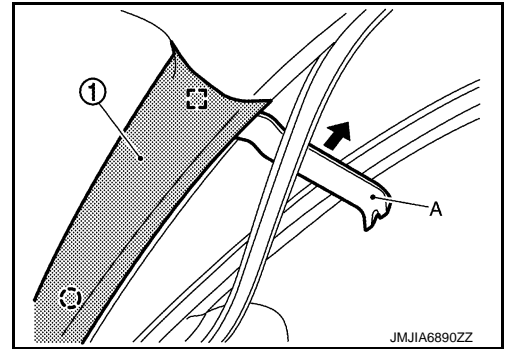
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BODY SIDE TRIM

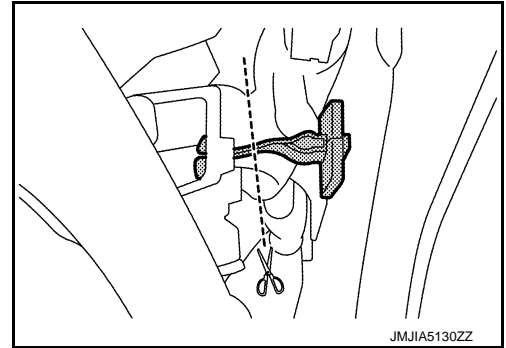
< REMOVAL AND INSTALLATION >

- Disengage front pillar garnish (1) fixing clip and metal clip with a remover tool (A).

-  : Clip
-  : Metal clip




- Cut clip anchor portion.

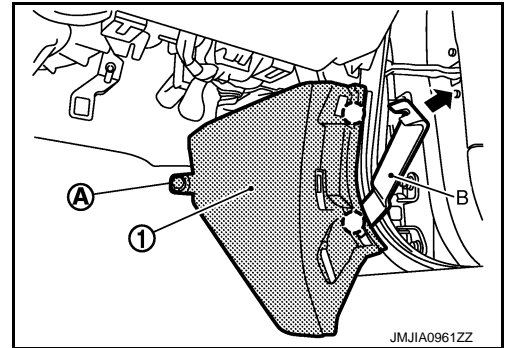


- Remove front pillar garnish.

DASH SIDE FINISHER


- Remove instrument passenger lower cover. (Passenger side only) Refer to [IP-13. "Removal and Installation"](#).
- Remove kicking plate inner.
- Remove clip (A).
- Remove dash side finisher mounting clips with a remover tool (B), and then remove dash side finisher (1).

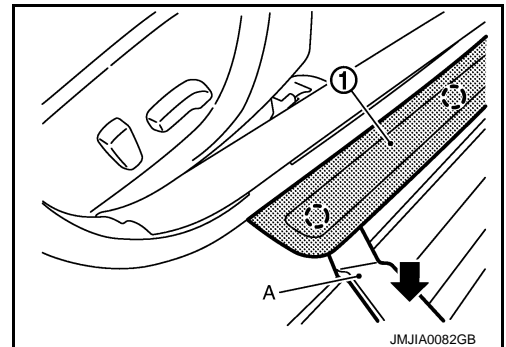
-  : Clip



FRONT KICKING PLATE OUTER

Remove front kicking plate outer mounting clips with a remover tool (A), and then remove kicking plate outer (1).

-  : Clip




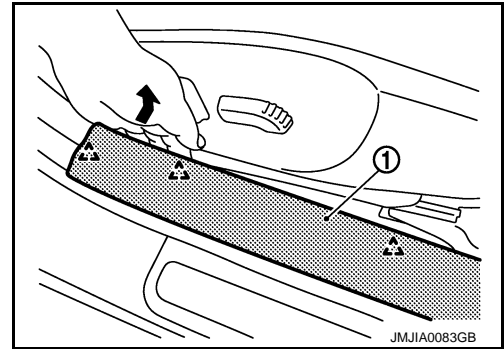
FRONT KICKING PLATE INNER

BODY SIDE TRIM

< REMOVAL AND INSTALLATION >


1. Pull up front kicking plate inner, and disconnect pawls.
2. Remove front kicking plate inner (1).

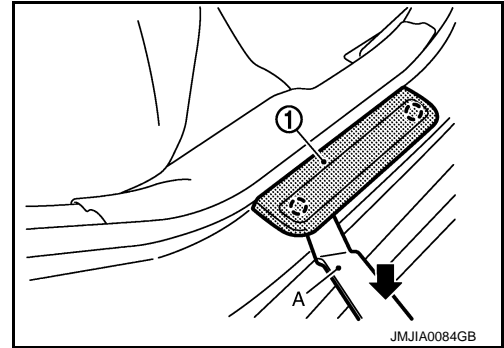
 : Pawl



REAR KICKING PLATE OUTER


Remove rear kicking plate outer mounting clips with a remover tool (A), and then remove kicking plate outer (1).

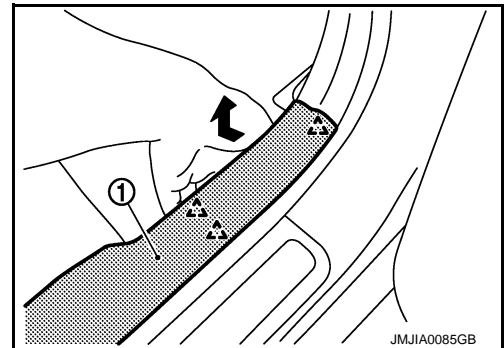
 : Clip



REAR KICKING PLATE INNER

1. Pull up rear kicking plate inner (1) to disengage the pawls.
2. Remove rear kicking plate inner.

 : Pawl



FRONT BODY SIDE WELT

1. Remove front kicking plate inner.
2. Remove front body side welt.

REAR BODY SIDE WELT

1. Remove rear kicking plate inner.
2. Remove rear body side welt.

CENTER PILLAR LOWER GARNISH

1. Remove front kicking plate inner.
2. Remove rear kicking plate inner.
3. Remove front body side welt.
4. Remove rear body side welt.

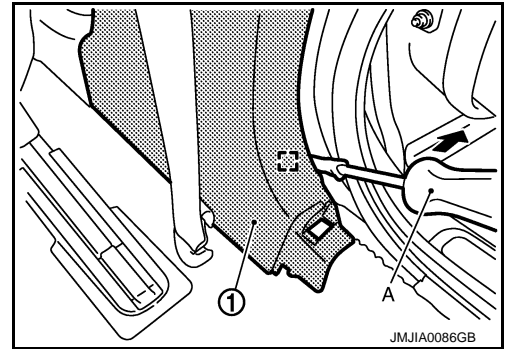
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BODY SIDE TRIM

< REMOVAL AND INSTALLATION >


5. Remove center pillar lower garnish mounting metal clips with a screwdriver (A), and then remove center pillar lower garnish (1).

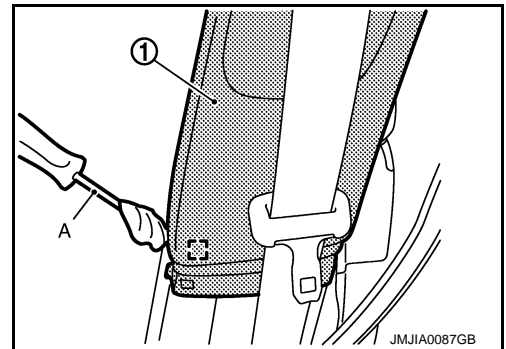
 : Metal clip



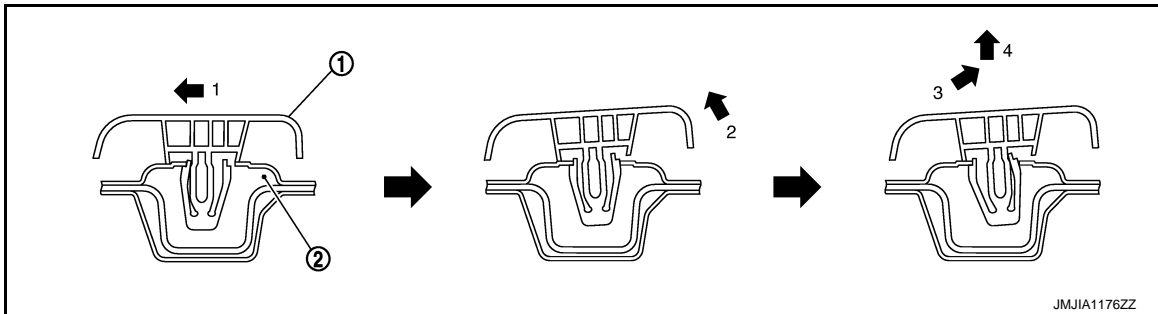
CENTER PILLAR UPPER GARNISH

1. Remove front kicking plate inner and rear kicking plate inner.
2. Remove center pillar lower garnish.
3. Remove front seat belt floor anchor bolt. Refer to [SB-8. "SEAT BELT BUCKLE : Exploded View"](#).
4. Remove center pillar upper garnish (1) fixing metal clip with a screwdriver (A).

 : Metal clip




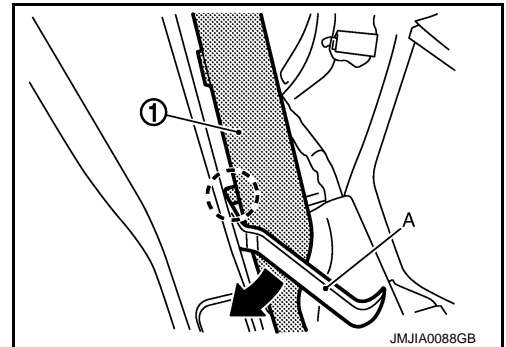
5. Pull center pillar upper garnish (1) from inside passenger room, disengage clip as shown in the figure below, and then remove center pillar upper garnish from center pillar panel (2).



REAR WHEEL HOUSE GARNISH

1. Remove rear seat cushion and rear seatback. Refer to [SE-76. "Removal and Installation"](#).
2. Remove rear body side welt.
3. Remove rear wheel house garnish mounting clips using a remover tool (A), and then remove rear wheel house garnish (1).

 : Clip



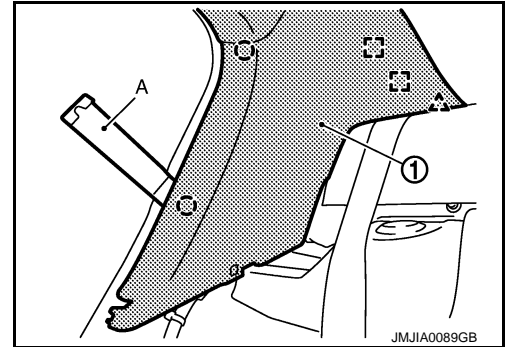
REAR PILLAR FINISHER

BODY SIDE TRIM

< REMOVAL AND INSTALLATION >

1. Remove rear seat cushion and rear seatback. Refer to [SE-76, "Removal and Installation"](#).
2. Remove rear seat belt floor anchor bolt. Refer to [SB-12, "SEAT BELT BUCKLE : Exploded View"](#).
3. Remove rear kicking plate inner.
4. Remove rear body side welt.
5. Remove rear wheel house garnish.
6. Remove pillar finisher mounting clips and metal clips with a remover tool (A), and then remove pillar finisher (1).

- : Clip
△ : Pawl
□ : Metal clip



INSTALLATION

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

CAUTION:

- **Replace front pillar garnish clip anchor with a new part after removal. Never reuse clip anchor.**
- **When installing body side trim, check that clips, pawls and metal clips are securely fitted in panel holes on body, and then press them in.**

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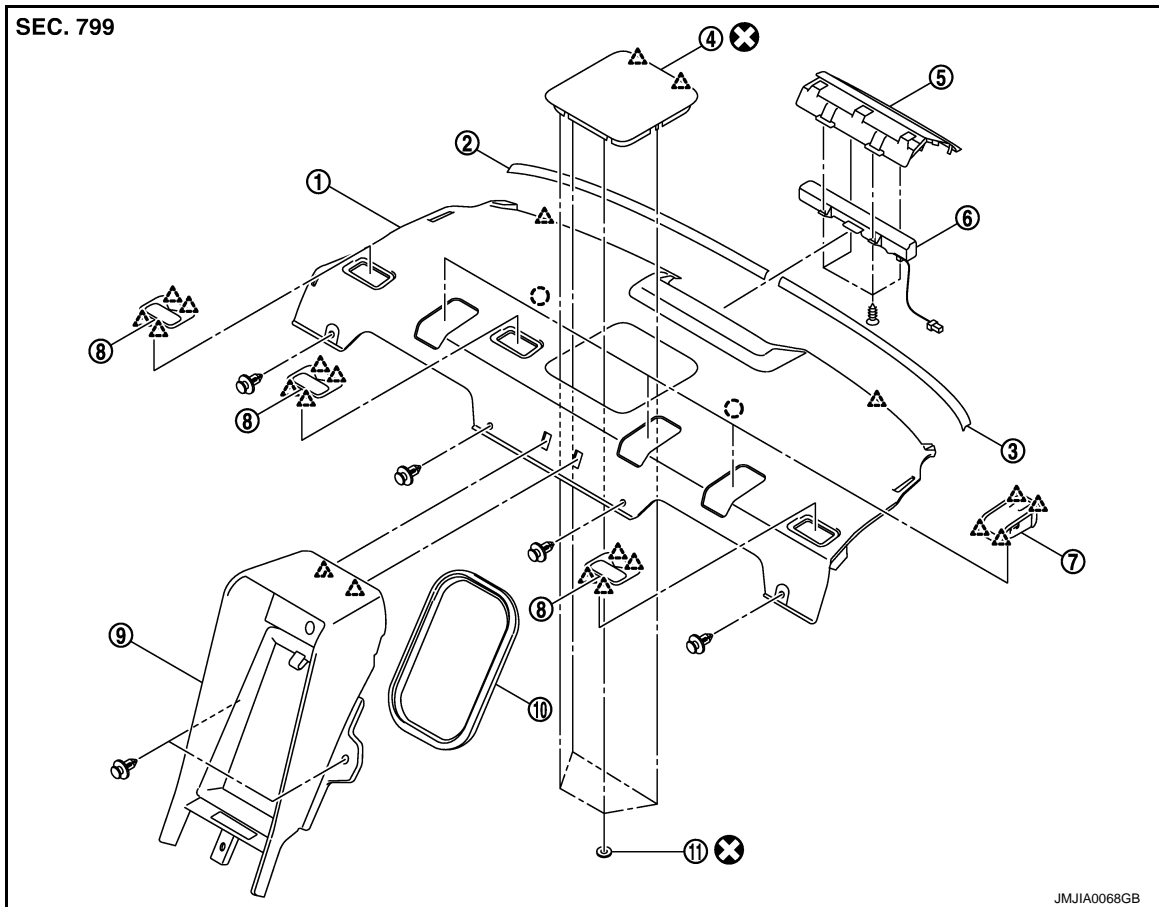
REAR PARCEL SHELF FINISHER

< REMOVAL AND INSTALLATION >

REAR PARCEL SHELF FINISHER

Exploded View

INFOID:000000010989276



- | | | |
|-------------------------------|---------------------------------|------------------------------------|
| 1. Rear parcel shelf finisher | 2. Rear parcel side cover RH | 3. Rear parcel side cover LH |
| 4. Woofer grille | 5. High-mounted stop lamp cover | 6. High-mounted stop lamp assembly |
| 7. Child anchor cover | 8. Rear seat belt finisher | 9. Seatback center finisher |
| 10. Seatback finisher welt | 11. Push on nut | |

○ : Clip

△ : Pawl

⊗ : Always replace after every disassembly.

Removal and Installation

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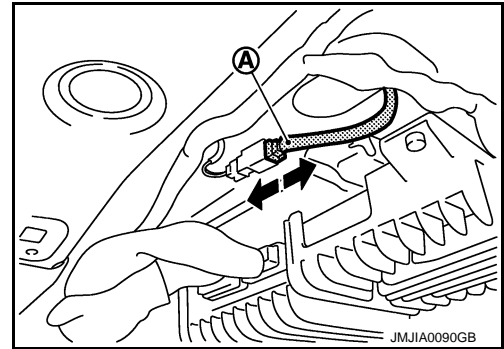
REMOVAL

1. Remove trunk front finisher upper. Refer to [INT-30, "Removal and Installation"](#).

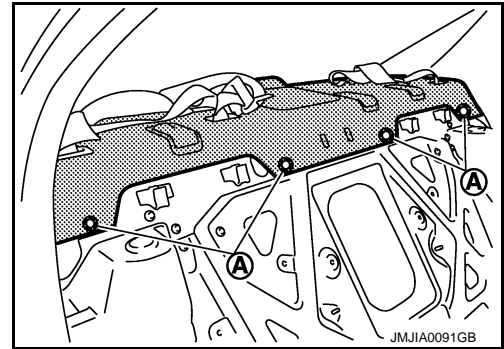
REAR PARCEL SHELF FINISHER

< REMOVAL AND INSTALLATION >

2. Disconnect high-mounted stop lamp harness connector (A).
(without REAR SPOILER)



3. Remove rear seat cushion and rear seatback. Refer to [SE-76. "Removal and Installation"](#).
4. Remove rear kicking plate inner, rear wheelhouse garnish, rear pillar finisher. Refer to [INT-15. "Removal and Installation"](#).
5. Remove seatback center finisher mounting clips, and then remove seatback center finisher.
6. Remove rear seat belt floor anchor bolt and rear seat belt shoulder anchor bolt. Refer to [SB-12. "SEAT BELT BUCKLE : Exploded View"](#).
7. Remove rear parcel shelf finisher mounting clips (A).



8. Remove clips from rear of rear parcel shelf finisher, and then remove rear parcel shelf finisher.
9. Remove the following parts after removing rear parcel shelf finisher.
 - Child anchor cover.
 - Woofer grille.
 - High-mounted stop lamp. (without REAR SPOILER) Refer to [EXL-166. "Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check that clips are securely fitted in panel holes on body when installing, and then press them in.

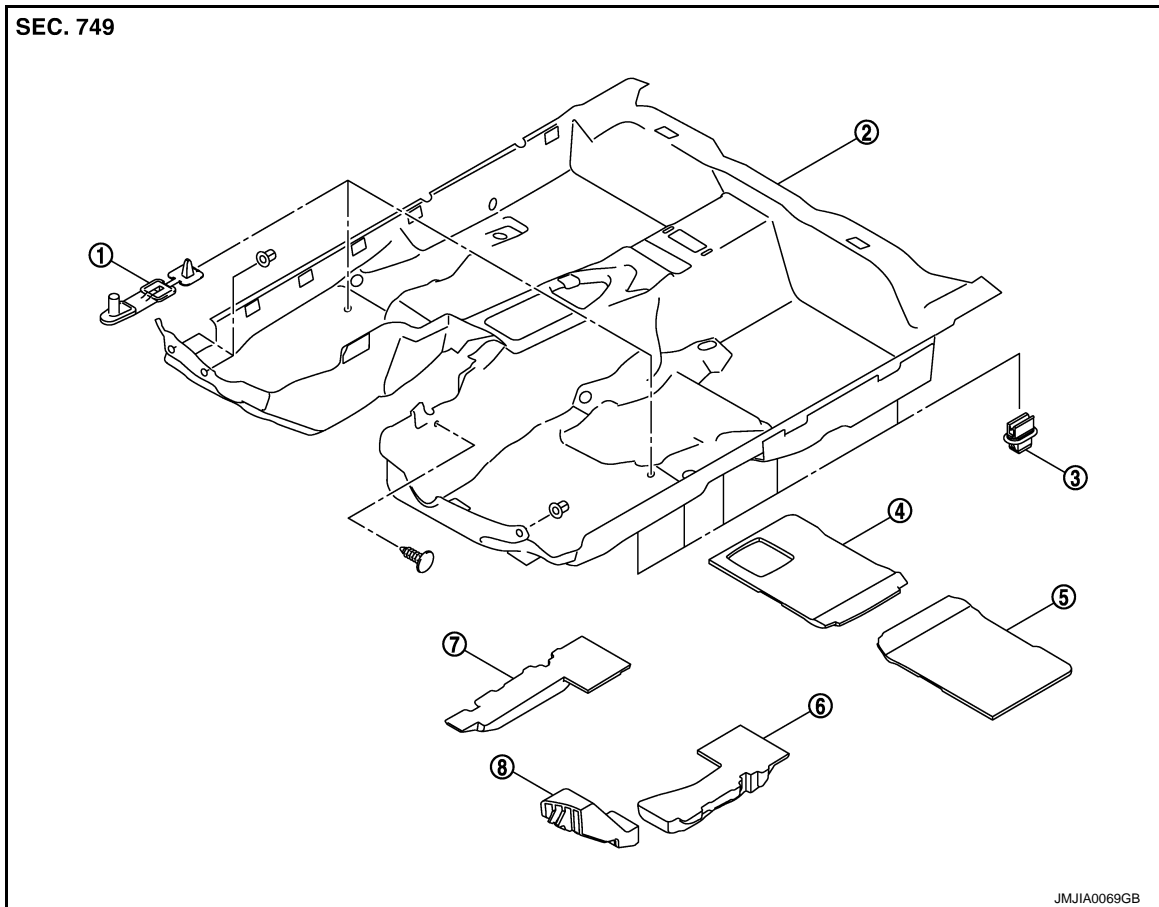
FLOOR TRIM

< REMOVAL AND INSTALLATION >

FLOOR TRIM

Exploded View

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|----------------------------|-------------------------|--------------------------|
| 1. Floor hook | 2. Floor trim | 3. Fixing clip |
| 4. Rear floor spacer (RH) | 5. Rear floor spacer LH | 6. Front floor spacer LH |
| 7. Front floor spacer (RH) | 8. Footrest | |

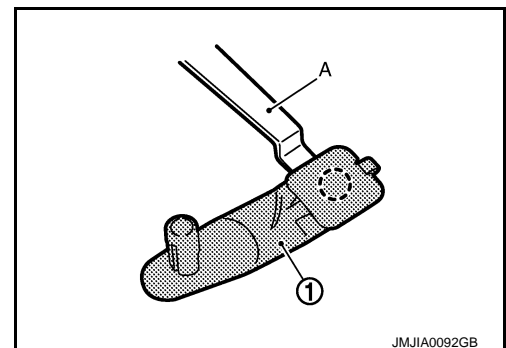
Removal and Installation

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REMOVAL

1. Remove front seat assembly (LH/RH). Refer to [SE-69. "Removal and Installation"](#).
2. Remove the rear seat cushion. Refer to [SE-76. "Removal and Installation"](#).
3. Remove accelerator pedal pad. Refer to [BR-20. "Removal and Installation"](#).
4. Disengage clip of floor hook (1) with remover tool (A).

 : Clip

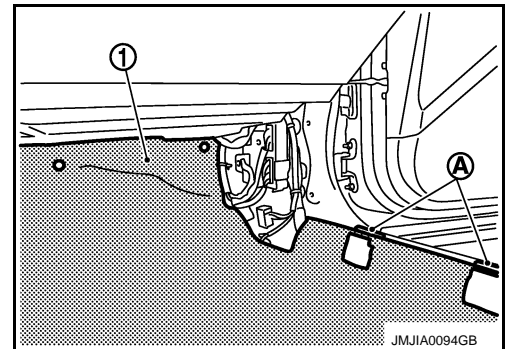


5. Remove foot grille (LH/RH). Refer to [VTL-12. "FOOT GRILLE : Removal and Installation"](#).

FLOOR TRIM

< REMOVAL AND INSTALLATION >

6. Remove front seat belt floor anchor bolt (LH/RH). Refer to [SB-8, "SEAT BELT BUCKLE : Exploded View"](#).
7. Remove center console. Refer to [IP-23, "Removal and Installation"](#).
8. Remove rear floor duct. Refer to [VTL-12, "REAR FLOOR DUCT 1 & REAR VENTILATOR DUCT 1 : Removal and Installation"](#).
9. Remove instrument lower cover, instrument driver lower panel and instrument assist lower panel. Refer to [IP-13, "Removal and Installation"](#).
10. Remove instrument side panel (LH/RH). Refer to [IP-13, "Removal and Installation"](#).
11. Remove Yaw rate/G-sensor. Refer to [BRC-117, "Removal and Installation"](#).
12. Remove diagnosis sensor unit. Refer to [SR-23, "Removal and Installation"](#).
13. Remove floor harness mounting clamps.
14. Remove console rear bracket. Refer to [IP-23, "Removal and Installation"](#).
15. Remove dash side finisher, front kicking plate inner, center pillar lower garnish, and rear kicking plate inner, front body side welt (LH/RH), rear body side welt (LH/RH). Refer to [INT-15, "Removal and Installation"](#).
16. Remove floor trim mounting clips and fixing nuts.
17. Remove floor trim from floor trim fixing clips (A) and remove floor carpet (1).



INSTALLATION

Install in the reverse order of removal.

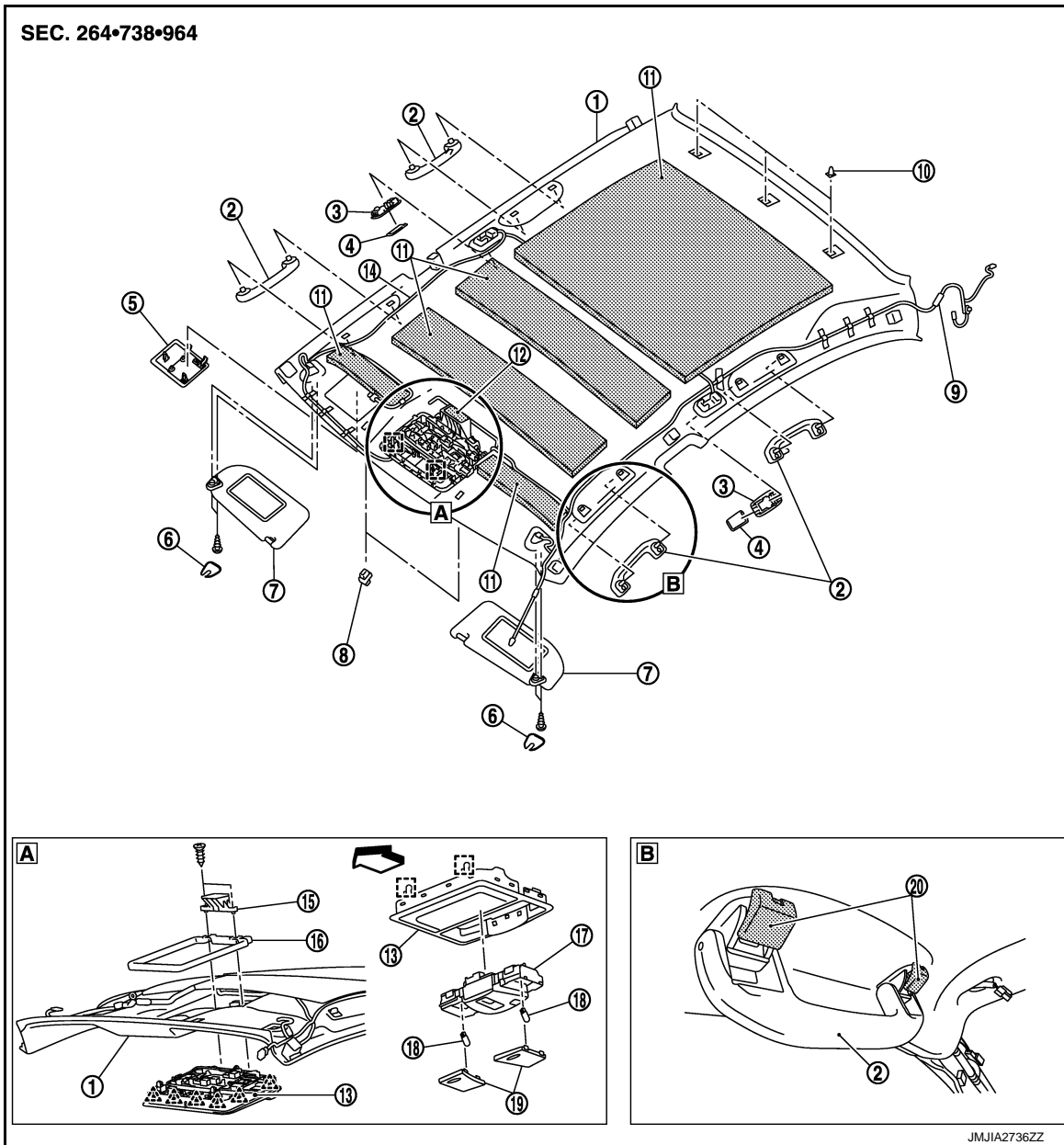
HEADLINING

< REMOVAL AND INSTALLATION >

HEADLINING NORMAL ROOF

NORMAL ROOF : Exploded View

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|-------------------------------|-----------------------------|----------------------------|
| 1. Headlining assembly | 2. Assist grip | 3. Personal lamp finisher |
| 4. Personal lamp lens | 5. Front roof finisher | 6. Sun visor cover |
| 7. Sun visor assembly (LH/RH) | 8. Sun visor holder (LH/RH) | 9. Antenna feeder |
| 10. Rear hidden clip | 11. Roof insulator | 12. Dual lock fastener |
| 13. Roof console assembly | 14. Roof harness | 15. Roof console bracket |
| 16. Roof module plate | 17. Map lamp assembly | 18. Map lamp bulbs (LH/RH) |
| 19. Map lamp lens (LH/RH) | 20. Assist grip cap | |

- : Pawl
 : Metal clip
 : Vehicle front

HEADLINING


< REMOVAL AND INSTALLATION >

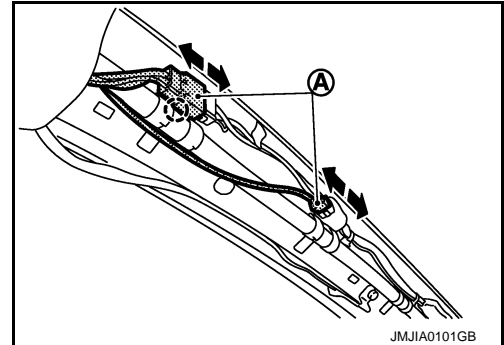
NORMAL ROOF : Removal and Installation

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REMOVAL

1. Remove front body side welt (LH/RH). Refer to [INT-15. "Removal and Installation"](#).
2. Remove front pillar garnish (LH/RH). Refer to [INT-15. "Removal and Installation"](#).
3. Remove antenna feeder securing clips with a remover tool after removing front pillar garnish LH, then disconnect antenna feeder connectors (A).

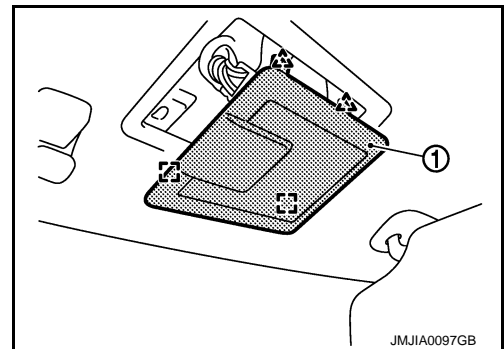
 : Clip



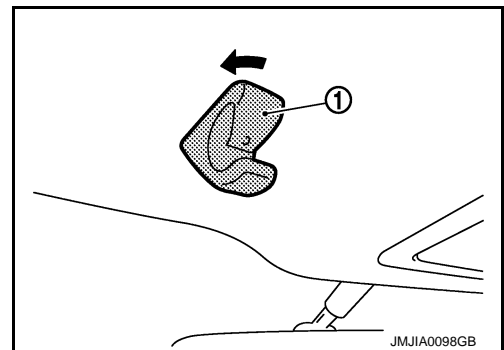
4. Remove front roof finisher mounting metal clips and pawls, and then remove front roof finisher (1).

 : Pawl

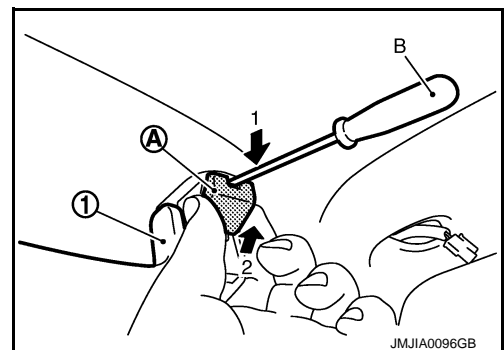
 : Metal clip



5. Remove sun visor assembly (LH/RH).
 - Remove sun visor cover.
 - Remove sun visor assembly mounting screws.
 - Disconnect vanity mirror lamp harness connectors.
6. Rotate 45 degrees and remove sun visor holder (1) (LH/RH).



7. Remove assist grip cap (A) using a screwdriver (B) of front and rear assistance grips (1), and then remove assist grips.



8. Remove rear seat cushion and seatback. Refer to [SE-76. "Removal and Installation"](#).


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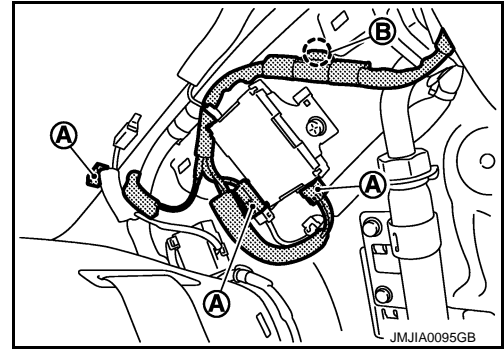
INT

HEADLINING

< REMOVAL AND INSTALLATION >

- Remove front kicking plate inner, center pillar lower garnish, center pillar upper garnish, rear kicking plate inner, rear wheelhouse garnish, rear pillar finisher. Refer to [INT-15, "Removal and Installation"](#).
- Disconnect antenna feeder connectors (A) of antenna amplifier and sub-antenna feeder after removing rear pillar finisher LH, and then remove antenna feeder securing clip (B) with a remover tool.

 : Clip

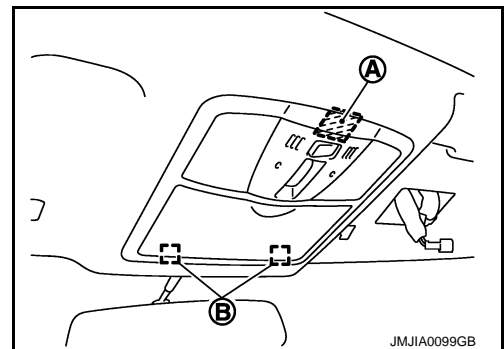


- Remove passenger seat assembly. Refer to [SE-69, "Removal and Installation"](#).
- With a remover tool, remove body side mounting plastic clip from rear end of headlining.
- Pull down roof console assembly and disengage metal clips (B) and dual-lock fastener (A).

CAUTION:

Roof console assembly is crimped from back of headlining. Remove it by disengaging the crimped area of back of roof console assembly after removing headlining from the vehicle.

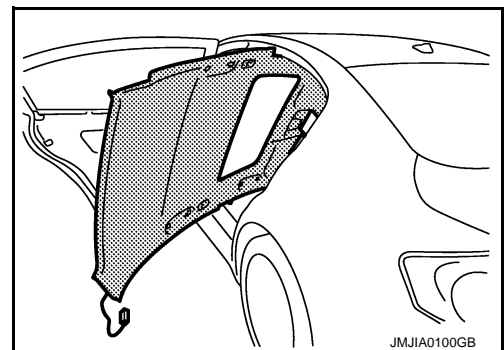
 : Metal clip



- Remove headlining from rear door left opening.

CAUTION:

- When removing, 2 workers are required. (1 for the front and rear of headlining)
- Cover center console finisher upper surface with a shop cloth to prevent it from being damaged.
- Never bend headlining when removing.



- Remove the following parts after removing headlining.
 - Roof console assembly. Refer to the following.
 - Normal roof : Refer to the following [INT-24, "NORMAL ROOF : Exploded View"](#).
 - Sunroof : Refer to the following [INT-27, "SUNROOF : Exploded View"](#).
 - Personal lamp (LH/RH). Refer to [INL-102, "Removal and Installation"](#).
 - Map lamp assembly. Refer to [INL-97, "Removal and Installation"](#).
 - Roof harness assembly.
 - Antenna feeder assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Install headlining assembly after inserting clips to clip holder of headlining rear end.
- Never bend headlining when installing.

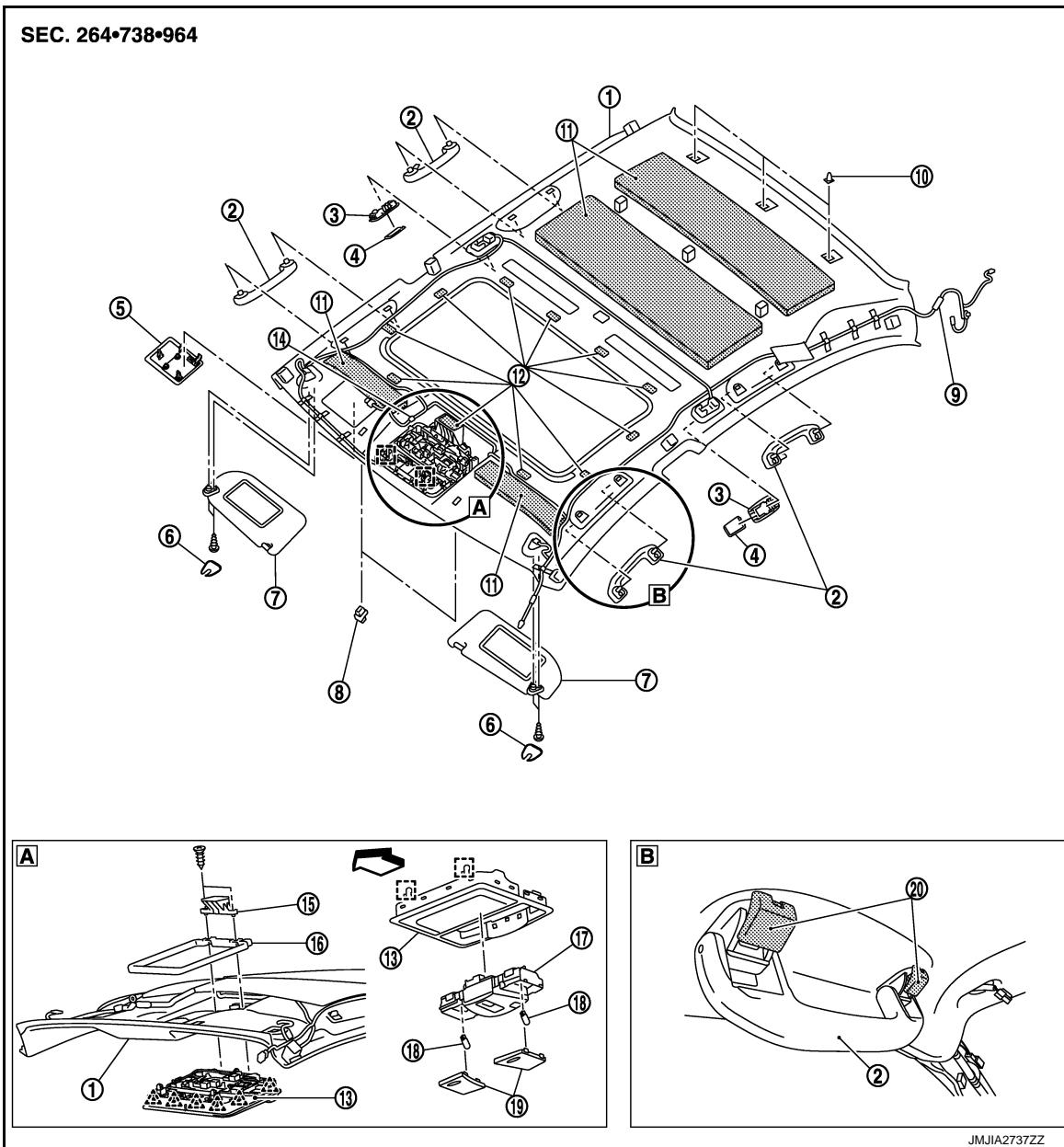
SUNROOF

HEADLINING

< REMOVAL AND INSTALLATION >

SUNROOF : Exploded View

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|-------------------------------|-----------------------------|---------------------------|
| 1. Headlining assembly | 2. Assist grip | 3. Personal lamp finisher |
| 4. Personal lamp lens | 5. Front roof finisher | 6. Sun visor cover |
| 7. Sun visor assembly (LH/RH) | 8. Sun visor holder (LH/RH) | 9. Antenna feeder |
| 10. Rear hidden clip | 11. Roof insulator | 12. Dual lock fastener |
| 13. Roof console assembly | 14. Roof harness | 15. Roof console bracket |
| 16. Roof module plate | 17. Map lamp assembly | 18. Map lamp bulb (LH/HR) |
| 19. Map lamp lens (LH/RH) | 20. Assist grip cap | |

△ : Pawl

□ : Metal clip

← : Vehicle front

SUNROOF : Removal and Installation

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
REMOVAL

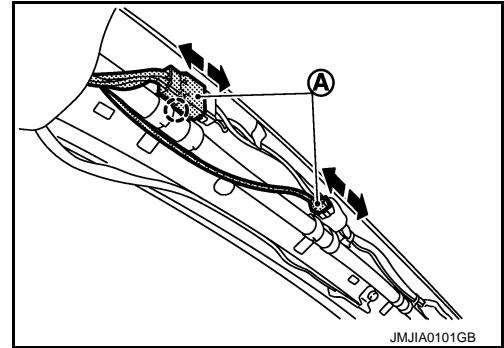
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HEADLINING



< REMOVAL AND INSTALLATION >

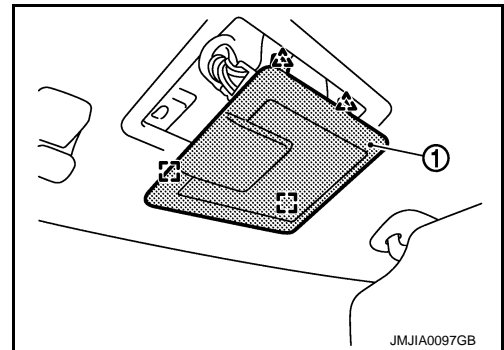
1. Remove front body side welt (LH/RH). Refer to [INT-15. "Removal and Installation"](#).
2. Remove front pillar garnish (LH/RH). Refer to [INT-15. "Removal and Installation"](#).
3. Remove antenna feeder securing clips with a remover tool after removing front pillar garnish LH, then disconnect antenna feeder connectors (A).

 : Clip

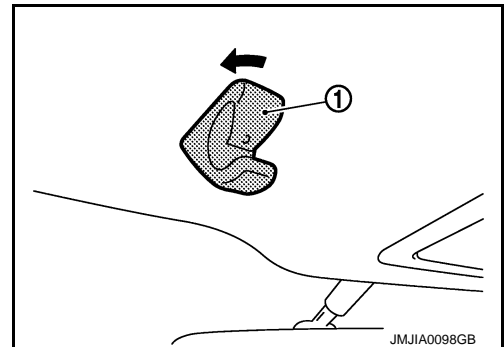


4. Remove front roof finisher mounting metal clips and pawls, and then remove front roof finisher (1).

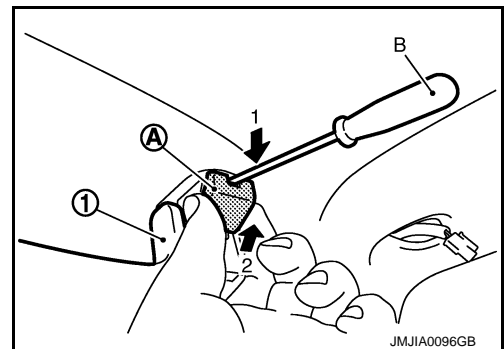
 : Pawl
 : Metal clip



5. Remove sun visor assembly (LH/RH).
 - Remove sun visor cover.
 - Remove sun visor assembly mounting screws.
 - Disconnect vanity mirror lamp harness connectors.
6. Rotate 45 degrees and remove sun visor holder (1) (LH/RH).



7. Remove mounting plastic clips (A) using a screwdriver (B) of front and rear assistance grips (1), and then remove assist grips.




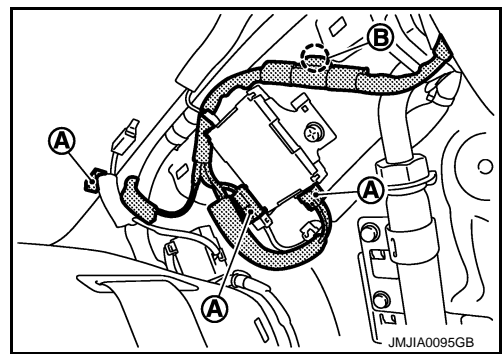
8. Remove rear seat cushion and seatback. Refer to [SE-76. "Removal and Installation"](#).
9. Remove front kicking plate inner, center pillar lower garnish, center pillar upper garnish, rear kicking plate inner, rear wheelhouse garnish, rear pillar finisher. Refer to [INT-15. "Removal and Installation"](#).

HEADLINING

< REMOVAL AND INSTALLATION >

10. Disconnect antenna feeder connectors (A) of antenna amplifier and sub-antenna feeder after removing rear pillar finisher LH, and then remove antenna feeder securing clip (B) with a remover tool.

 : Clip

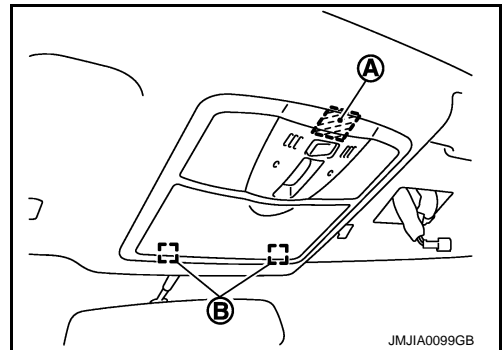


11. Remove passenger seat assembly. Refer to [SE-69. "Removal and Installation"](#).
12. With a remover tool, remove body side mounting plastic clip from rear end of headlining.
13. Pull down roof console assembly and disengage metal clips (B) and dual lock fastener (A).

CAUTION:

Roof console assembly is crimped from back of headlining. Remove it by disengaging the crimped area of back of roof console assembly after removing headlining from the vehicle.

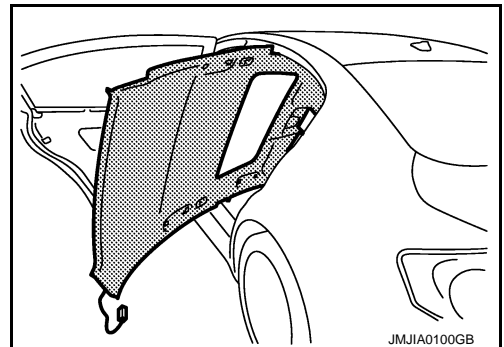
 : Metal clip



14. Remove headlining from rear door left opening.

CAUTION:

- When removing, 2 workers are required. (1 for the front and rear of headlining)
- Cover center console finisher upper surface with a shop cloth to prevent it from being damaged.
- Never bend headlining when removing.



15. Remove the following parts after removing headlining.
- Roof console assembly. Refer to [INT-27, "SUNROOF : Exploded View"](#) (for sunroof models) or [INT-24, "NORMAL ROOF : Exploded View"](#) (for normal roof models).
 - Personal lamp (LH/RH). Refer to [INL-102. "Removal and Installation"](#).
 - Map lamp assembly. Refer to [INL-97. "Removal and Installation"](#).
 - Roof harness assembly.
 - Antenna feeder assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Install headlining assembly after inserting clips to clip holder of headlining rear end.
- Never bend headlining when installing.

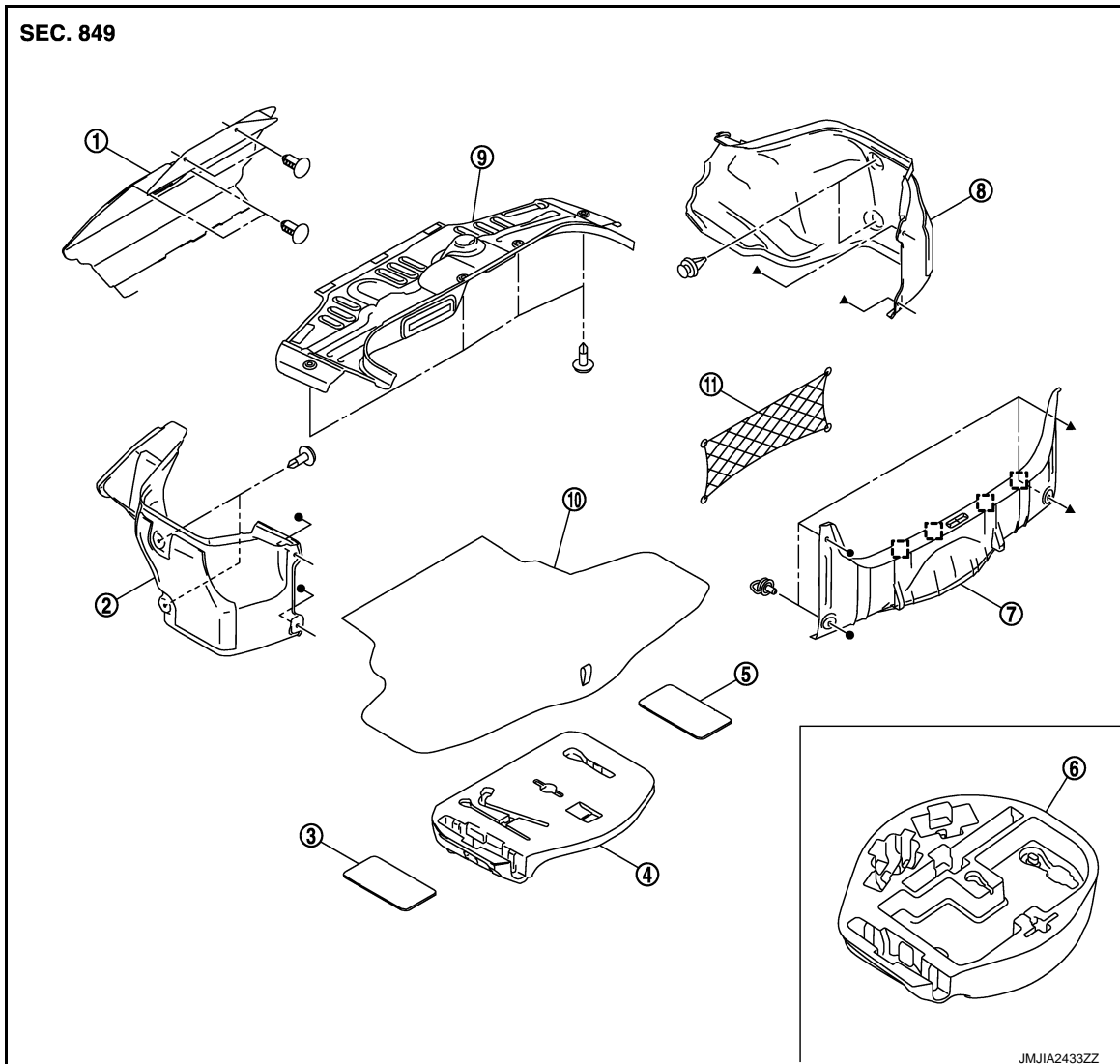
TRUNK ROOM TRIM

< REMOVAL AND INSTALLATION >

TRUNK ROOM TRIM

Exploded View

INFOID:000000010989284



- | | | |
|-------------------------|---------------------------------|--|
| 1. Trunk front finisher | 2. Rear wheel house finisher LH | 3. Trunk floor felt LH |
| 4. Trunk center box | 5. Trunk floor felt RH | 6. Trunk center box (For temporary spire tire) |
| 7. Trunk rear plate | 8. Rear wheel house finisher RH | 9. Trunk front finisher upper |
| 10. Trunk floor carpet | 11. Trunk net | |

☐ : Metal clip

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

Removal and Installation

INFOID:000000010989285

REMOVAL

1. Fully open trunk lid assembly.
2. Remove trunk floor carpet.
3. Remove trunk center box and trunk floor felt (LH/RH).
4. Remove trunk rear plate fixing clips, disengage the metal clips, and then remove trunk rear plate.
5. Remove trunk weather-strip. Refer to [DLK-255, "TRUNK LID WEATHERSTRIP : Exploded View"](#).

TRUNK ROOM TRIM

< REMOVAL AND INSTALLATION >

6. Remove trunk front finisher upper fixing clips and then remove trunk front finisher upper.
7. Remove rear wheel house finisher fixing clips, and then remove rear wheel house finisher (LH/RH).
8. Remove trunk front finisher fixing clips, and then remove trunk front finisher.

INSTALLATION

Install in the reverse order of removal.

A

B

C

D

E

F

G

H

I

INT

K

L

M

N

O

P

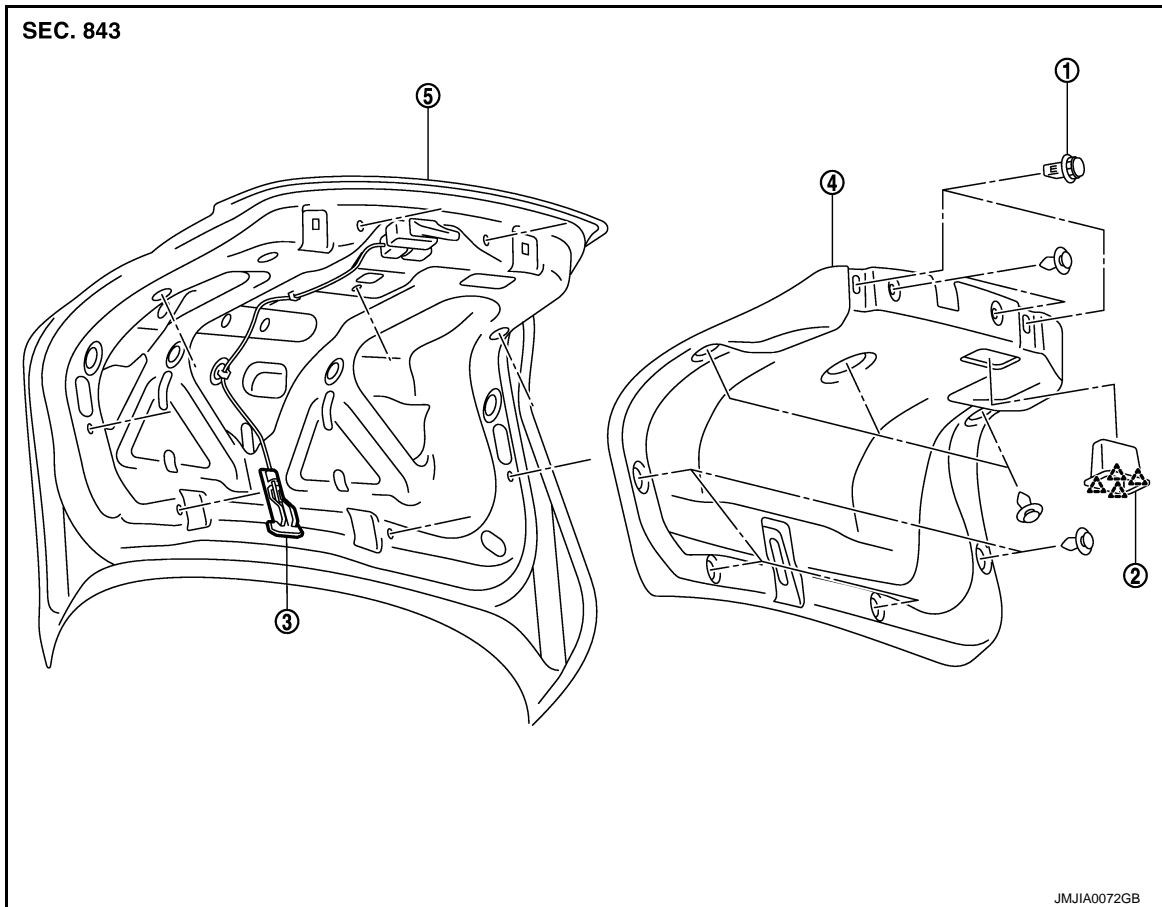
TRUNK LID TRIM

< REMOVAL AND INSTALLATION >


TRUNK LID TRIM

Exploded View

INFOID:000000010989286



- 1. Trunk lid bumper rubber
- 2. Trunk lid pull handle
- 3. Emergency handle
- 4. Trunk lid finisher inner
- 5. Trunk lid


 : Pawl

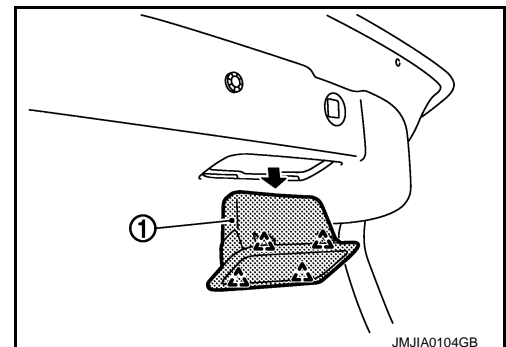
Removal and Installation

INFOID:000000010989287

REMOVAL

1. Fully open trunk lid assembly.
2. Remove trunk lid bumper rubber.
3. Remove trunk lid pull handle (1).


 : Pawl

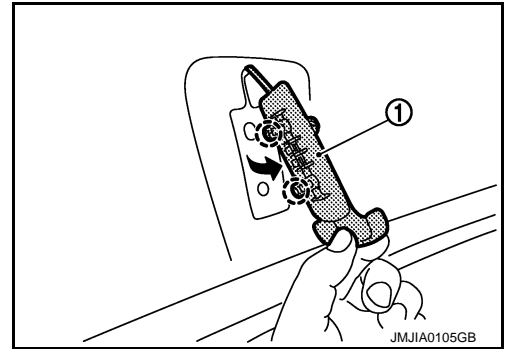


TRUNK LID TRIM

< REMOVAL AND INSTALLATION >

4. Remove trunk lid emergency handle holder (1).

 : Clip



5. Remove trunk lid finisher mounting clips, and then remove trunk lid finisher inner.

INSTALLATION

Install in the reverse order of removal.

A
B
C
D
E
F
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INT
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