

SECTION **INT**
INTERIOR

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

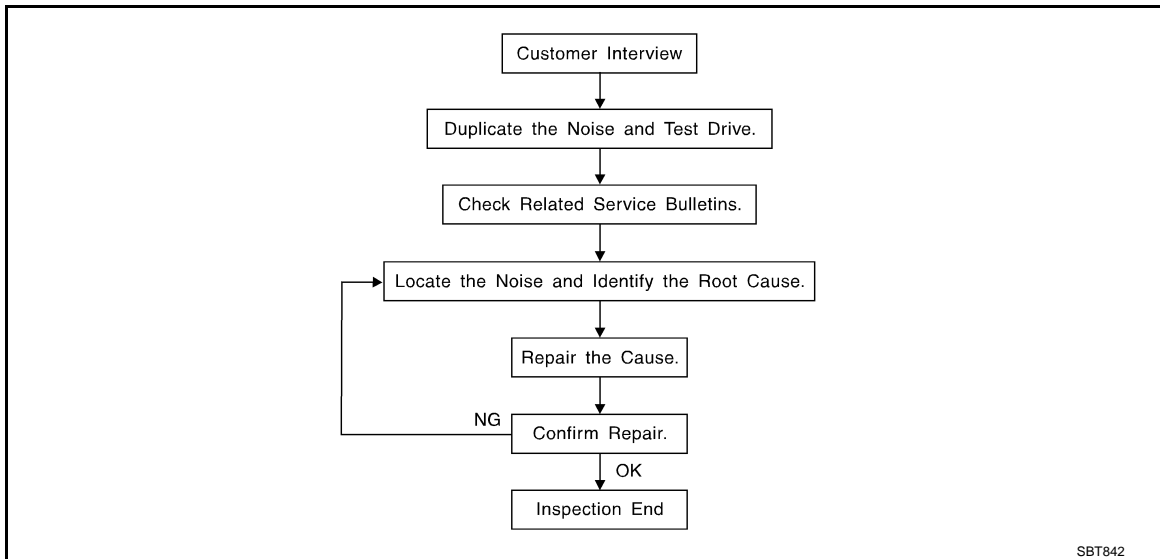
< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

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CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of the customer's comments; refer to [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, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by a test drive with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that 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

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 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 A/T model).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Engine Ear or mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from.
Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
 - tapping or pushing/pulling the component that 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 [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 component, if possible.
 - insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape are 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:

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

CONFIRM THE REPAIR

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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

Inspection Procedure

INFOID:000000001183467

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

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

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks to repair the noise.

TRUNK

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

In addition look for:

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

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

SUNROOF/HEADLINING

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

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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

A

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 is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

B

Cause of seat noise include:

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

C

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.

D

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.

E

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

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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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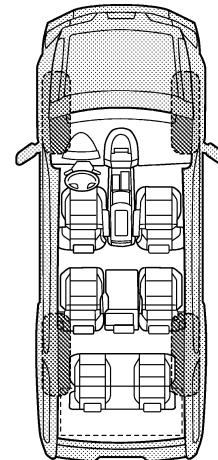
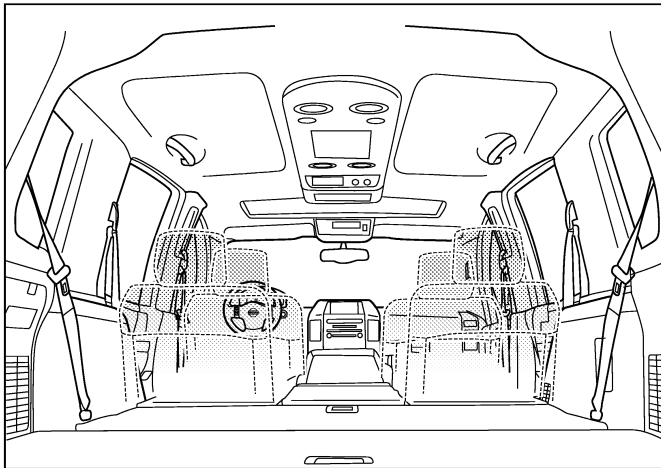
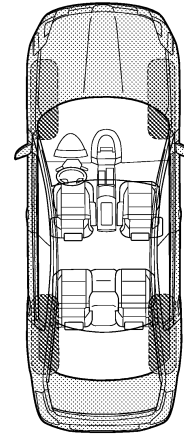
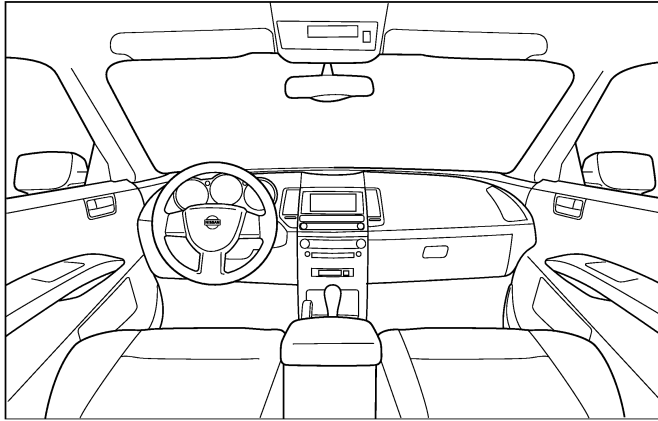
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

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

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

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



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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

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

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

III. WHEN DRIVING:

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

IV. WHAT TYPE OF NOISE

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

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

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

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

This form must be attached to Work Order

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

INFOID:000000001183469

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 SRC 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 SRC 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.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:000000001183470

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYSTEM).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
4. Perform the necessary repair operation.
5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
6. Perform a self-diagnosis check of all control units using CONSULT-III.

Precaution for Work

INFOID:000000001183471

- 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.

PREPARATION

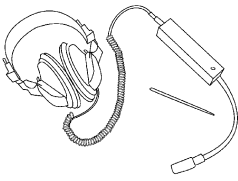
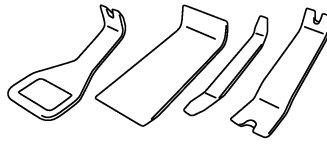
< PREPARATION >

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000001183472

Tool name	Description
<p data-bbox="159 514 267 546">Engine ear</p>  <p data-bbox="795 630 860 651">SIA0995E</p>	<p data-bbox="1006 514 1193 546">Location the noise</p>
<p data-bbox="159 766 292 798">Remover tool</p>  <p data-bbox="795 882 860 903">PIIB7923J</p>	<p data-bbox="1006 766 1404 798">Remove the clips, pawls and metal clips</p>

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DOOR FINISHER

< ON-VEHICLE REPAIR >

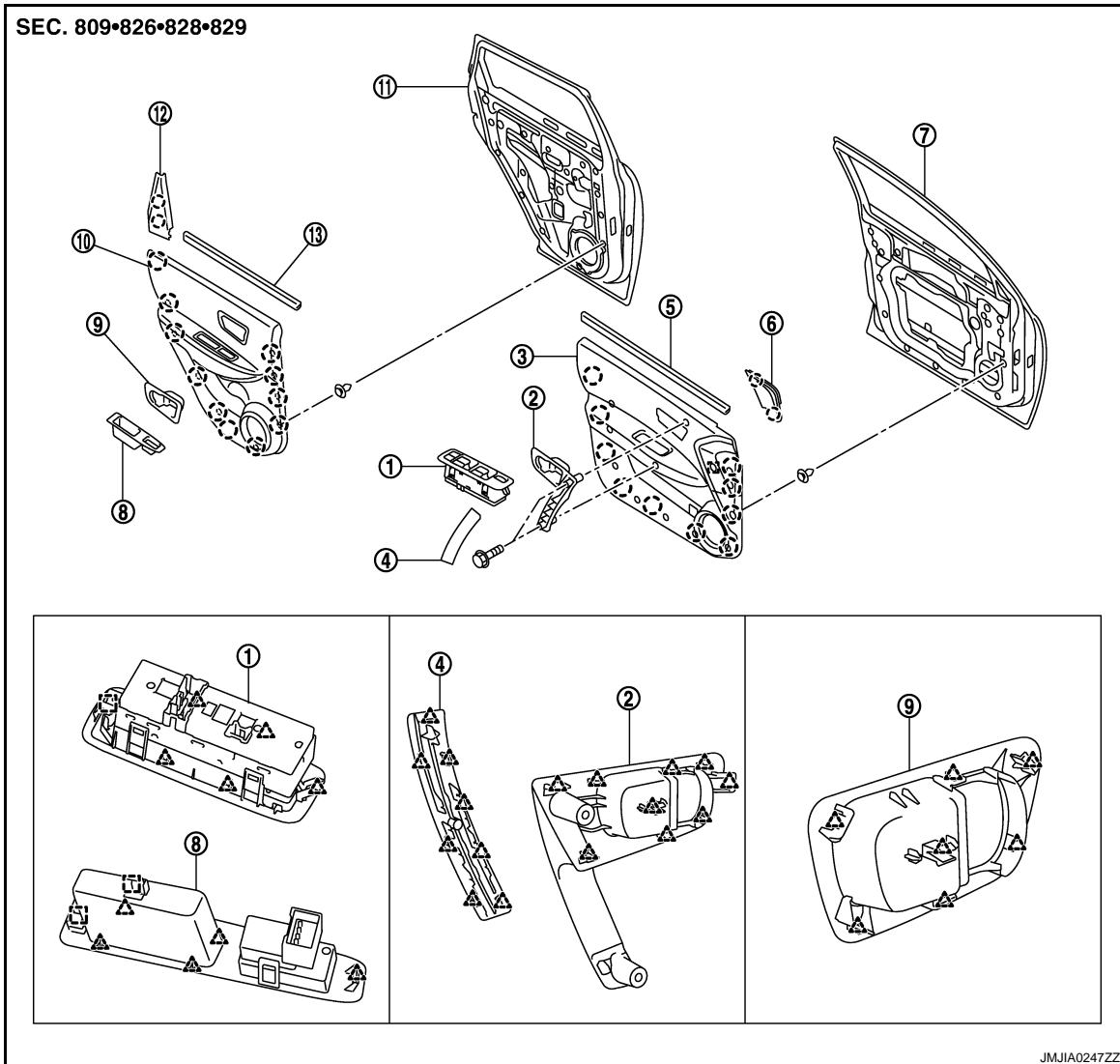
ON-VEHICLE REPAIR

DOOR FINISHER

FRONT DOOR FINISHER

FRONT DOOR FINISHER : Exploded View

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- | | | |
|---|---|---------------------------------------|
| 1. Power window switch front (Driver) | 2. Front door grip | 3. Front door finisher (LH) |
| 4. Cap-Front door grip (LH) | 5. Seal assembly front door inside (LH) | 6. Cover front door inner (LH) |
| 7. Front door panel | 8. Power window switch rear (LH) | 9. Inside handle escutcheon (rear LH) |
| 10. Rear door finisher (LH) | 11. Rear door panel | 12. Cover rear door inner (LH) |
| 13. Seal assembly rear door inside (LH) | | |

○ : Clip

△ : Pawl

□ : Metal clip

FRONT DOOR FINISHER : Removal and Installation

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REMOVAL

1. Fully open door window.

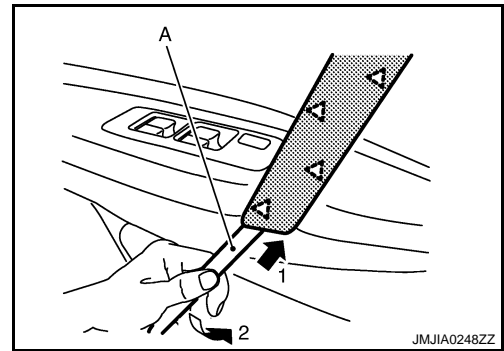
DOOR FINISHER

< ON-VEHICLE REPAIR >

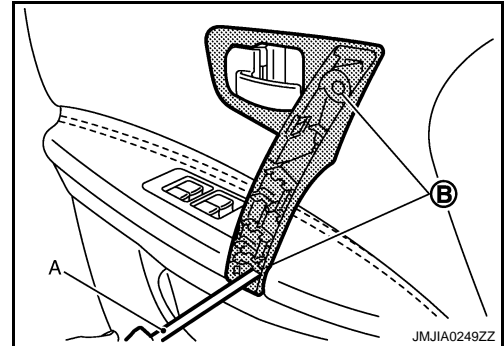
2. Insert remover tool (A) at the bottom edge of cap-front door grip to unclip the cap.

 : Pawl


3. Remove cap front door grip.



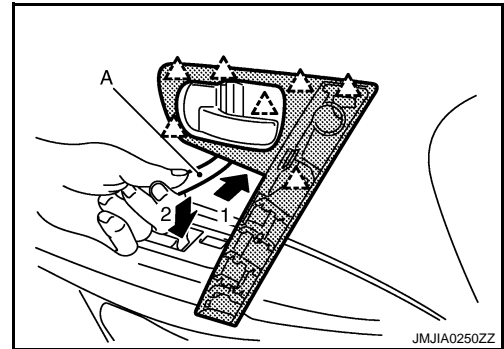
4. Remove screws (B) holding front door grip in place using screwdriver (A).




5. Hold front door grip in fully rotated position. Insert remover tool (A) between front door grip and door finisher to disengage the escutcheon retaining pawls to the door finisher.

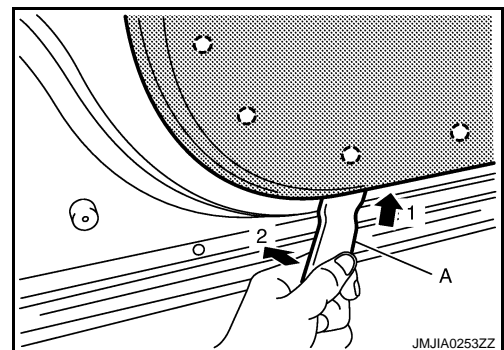
 : Pawl

6. Remove front door grip.

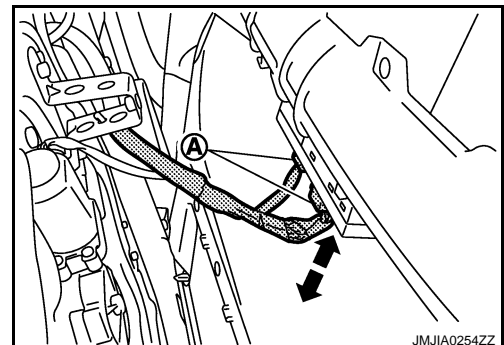


7. Insert remover tool (A) between door finisher and door panel to disengage door finisher mounting clips, starting from the bottom and working to the top.

 : Clip



8. Disconnect harness connectors (A) for power window switch front.



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DOOR FINISHER

< ON-VEHICLE REPAIR >

9. Remove front door finisher.
10. Remove the following parts after removing door finisher.
 - Power window switch front.
 - Seal assembly front door inside.

INSTALLATION

Install in the reverse order of removal.

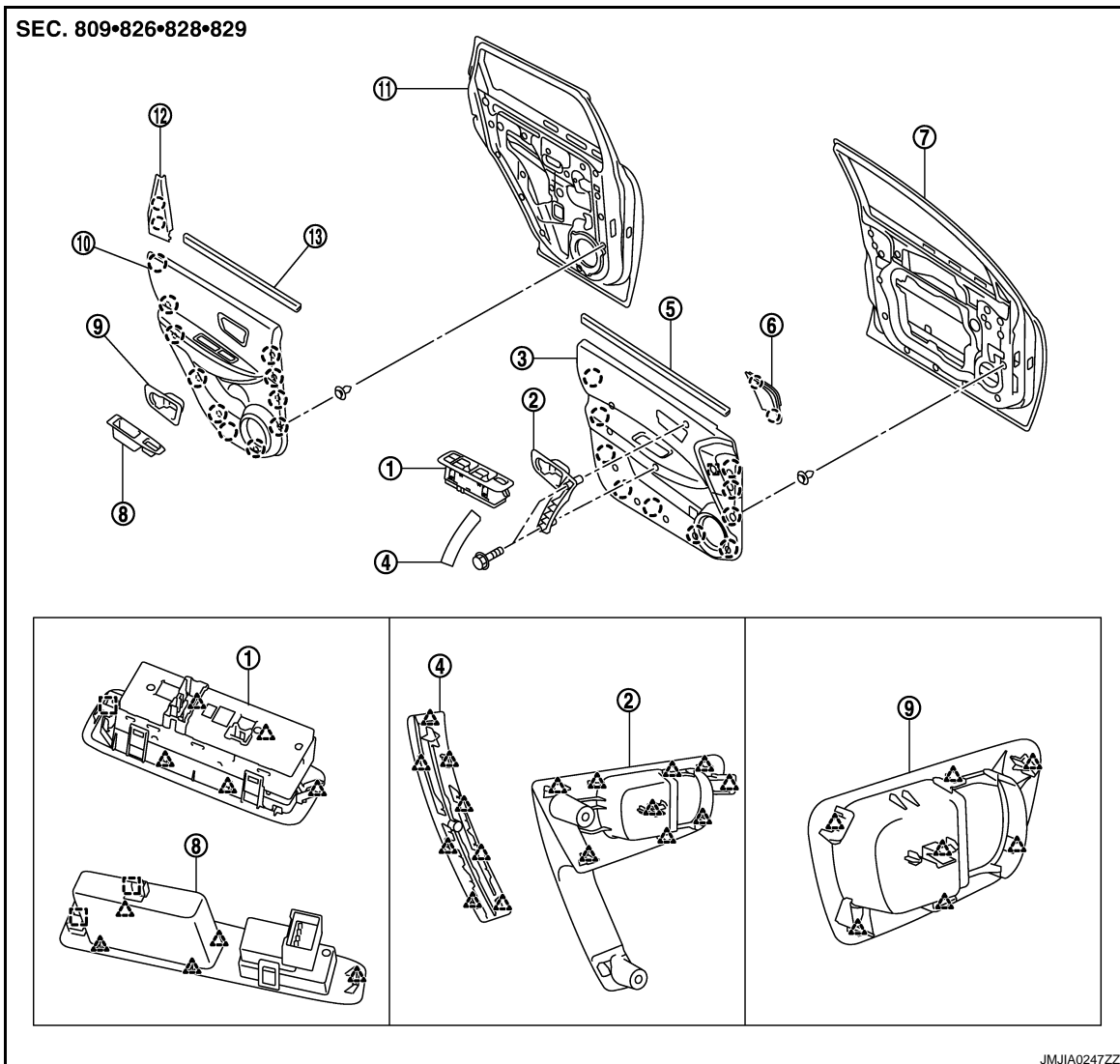
CAUTION:

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

REAR DOOR FINISHER

REAR DOOR FINISHER : Exploded View

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- | | | |
|---|---|---------------------------------------|
| 1. Power window switch front (Driver) | 2. Front door grip | 3. Front door finisher (LH) |
| 4. Cap-Front door grip (LH) | 5. Seal assembly front door inside (LH) | 6. Cover front door inner (LH) |
| 7. Front door panel | 8. Power window switch rear (LH) | 9. Inside handle escutcheon (rear LH) |
| 10. Rear door finisher (LH) | 11. Rear door panel | 12. Cover rear door inner (LH) |
| 13. Seal assembly rear door inside (LH) | | |

○ : Clip

DOOR FINISHER

< ON-VEHICLE REPAIR >

 : Pawl


 : Metal clip

REAR DOOR FINISHER : Removal and Installation

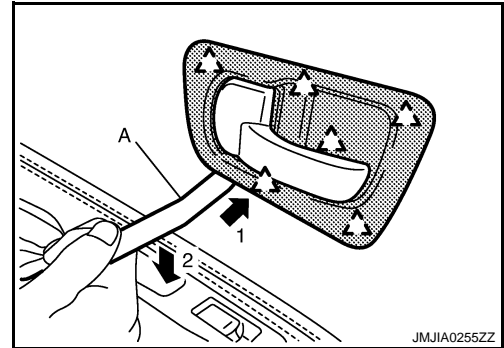
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REMOVAL


1. Fully open door window.
2. Insert remover tool (A) between door finisher and inside handle escutcheon (rear LH) to disengage the escutcheon retaining pawls to door finisher.

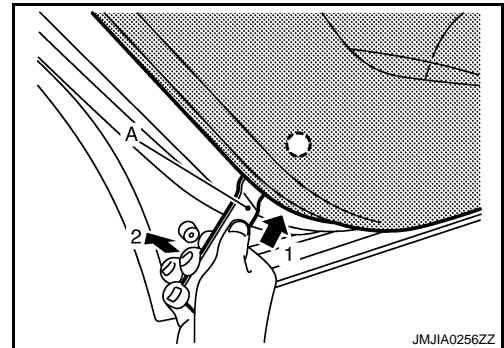
 : Pawl

3. Remove inside handle escutcheon.

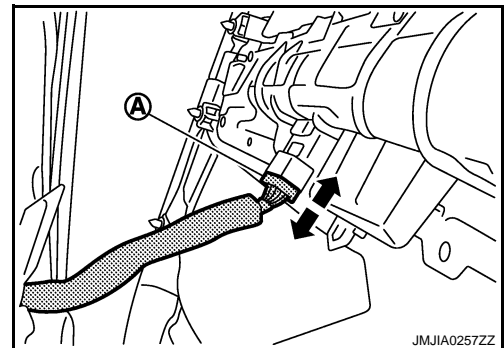


4. Insert remover tool (A) between door finisher and door panel to disengage door finisher mounting clips, starting from the bottom and working to the top.

 : Clip



5. Disconnect harness connector (A) for power window switch rear.



6. Remove rear door finisher.
7. Remove the following parts after removing door finisher.
 - Power window switch rear.
 - Seal assembly rear door inside.

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.

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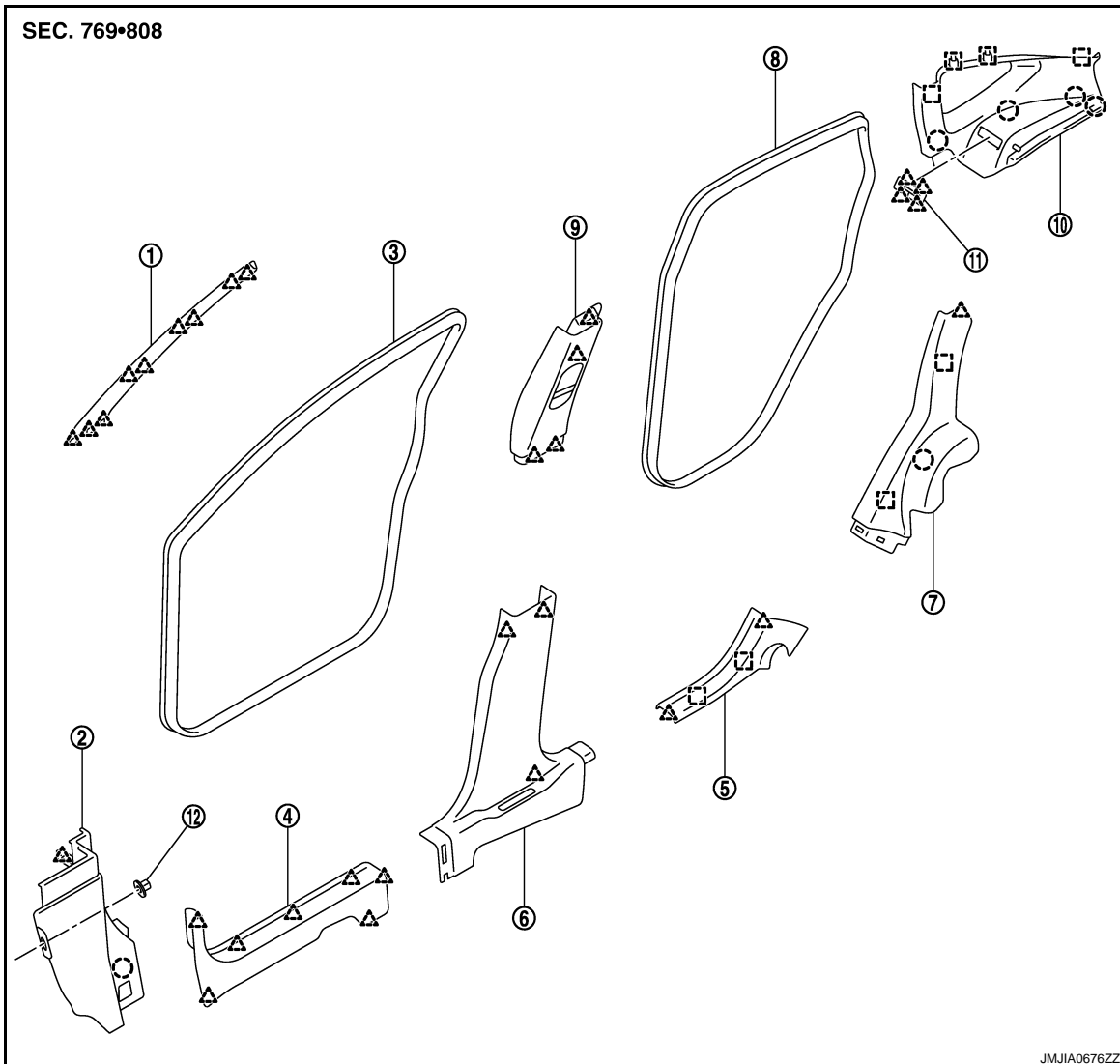
BODY SIDE TRIM

< ON-VEHICLE REPAIR >




BODY SIDE TRIM

Exploded View

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- | | | |
|--|-------------------------------|--------------------------------|
| 1. Front pillar garnish | 2. Dash side finisher | 3. Welt body side front (RH) |
| 4. Front kicking plate inner | 5. Rear kicking plate inner | 6. Center pillar lower garnish |
| 7. Luggage side lower finisher (front) | 8. Welt body side rear (RH) | 9. Center pillar upper garnish |
| 10. Rear pillar finisher (RH) | 11. Rear seat belt escutcheon | 12. Clip-trim |

-  : Clip
-  : Pawl
-  : Metal clip

Removal and Installation

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CAUTION:

- Wrap the tip of flat-bladed screwdriver with a cloth when removing metal clips from garnishes.
- Be careful not to damage the body while removing side trim.

REMOVAL


FRONT PILLAR GARNISH

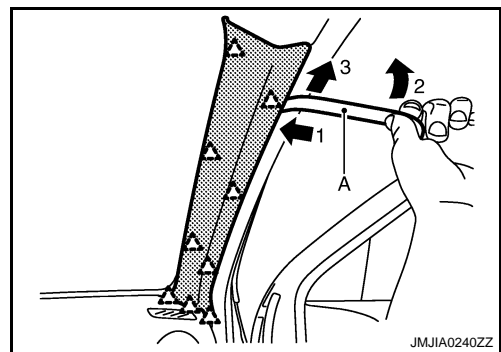
1. Remove welt body side front (RH).

BODY SIDE TRIM

< ON-VEHICLE REPAIR >

2. Disengage front pillar garnish mounting pawls using remover tool (A).


 : Pawl

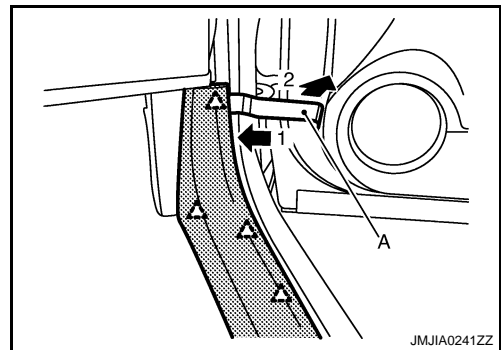


3. Once free, pull front pillar garnish upwards to disengage the lower locating tab from instrument panel.
4. Remove front pillar garnish.

FRONT KICKING PLATE INNER

1. Disengage front kicking plate inner mounting pawls using remover tool (A).



 : Pawl

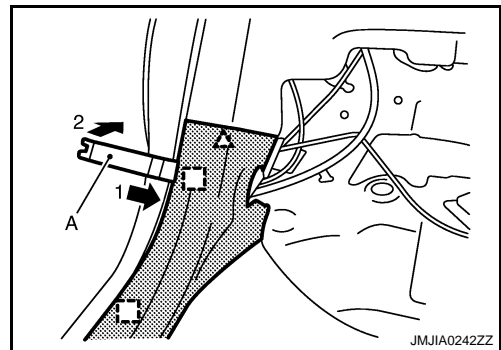


2. Pull upwards and rearwards to disengage the clips from body, dash side finisher and center pillar lower garnish.
3. Remove front kicking plate inner.

REAR KICKING PLATE INNER

1. Insert remover tool (A) between rear kicking plate inner and body side panel to disengage pawls.

 : Pawl
 : Metal clip



2. Pull upwards to disengage the pawls from the body, center pillar lower garnish and luggage side lower finisher (front).
3. Remove rear kicking plate inner.

DASH SIDE FINISHER

1. Remove clip-trim.
2. Insert remover tool between dash side finisher and body side panel to disengage clip.
3. Remove dash side finisher.

CENTER PILLAR LOWER GARNISH


1. Remove front and rear kicking plate inner.

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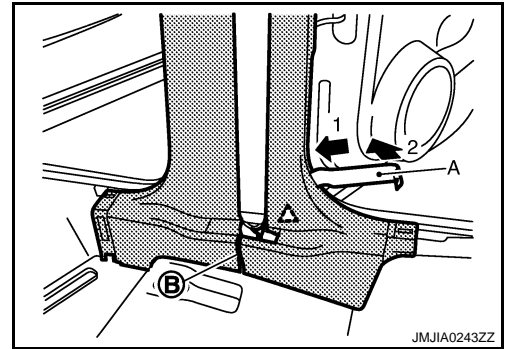
BODY SIDE TRIM

< ON-VEHICLE REPAIR >

2. Remove front seat belt through slit (B).
3. Insert remover tool (A) between center pillar lower garnish and body side panel to disengage pawls.

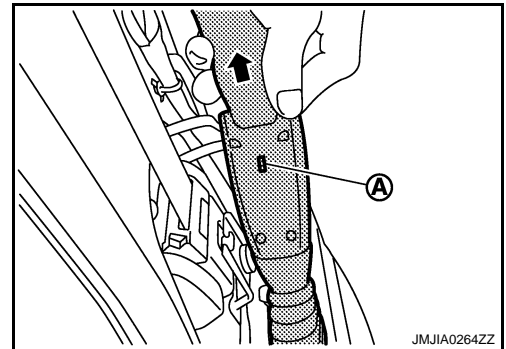
 : Pawl

4. Remove center pillar lower garnish.




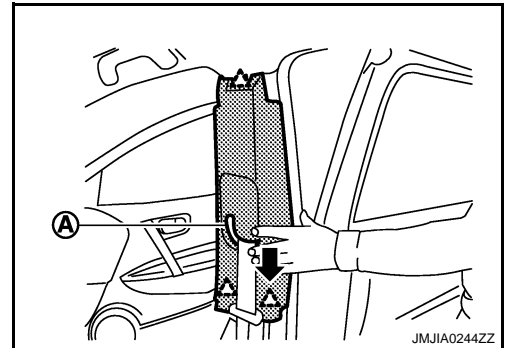
CENTER PILLAR UPPER GARNISH

1. Remove center pillar lower garnish.
2. Remove front seat belt floor anchor bolt (passenger side). Refer to [SB-9. "SEAT BELT BUCKLE : Removal and Installation"](#).
3. Remove seat belt (driver side) by inserting a flat bladed screwdriver into hole (A), press while pulling upwards the seat belt as shown by the arrow in the figure beside.




4. Pull the lower edge inwards, then slide center pillar upper garnish downwards to release hook from emboss in rail roof.
5. Remove seat belt tongue through slit (A) and then remove center pillar upper garnish.


 : Pawl



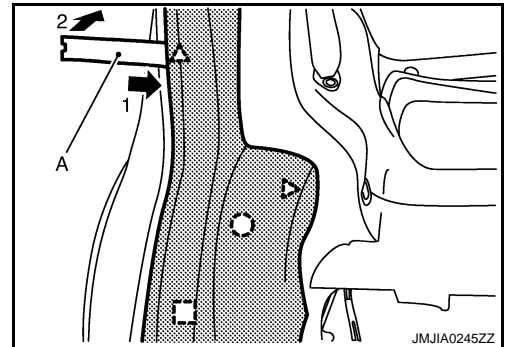
LUGGAGE SIDE LOWER FINISHER (FRONT)

1. Remove rear kicking plate inner.
2. Remove rear seat cushion. Refer to [SE-21. "Removal and Installation"](#).
3. Insert remover tool (A) between luggage side lower finisher (front) and body side panel to disengage clips and pawls.

 : Clip

 : Pawl

 : Metal clip



4. Pull upwards and forwards to remove clips and pawls from body and rear pillar finisher.


BODY SIDE TRIM

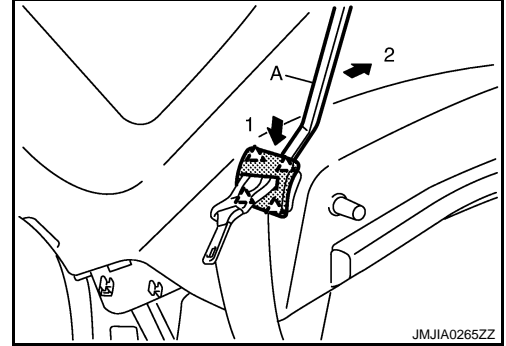
< ON-VEHICLE REPAIR >

5. Remove luggage side lower finisher (front).


REAR PILLAR FINISHER

1. Remove back door weather-strip. Refer to XX-XX, "*****".
2. Remove luggage side lower finisher (front).
3. Remove rear seats.
4. Disconnect the rear outer seat belt anchor.
5. Remove the rear seat belt escutcheon from rear pillar finisher using remover tool (A).

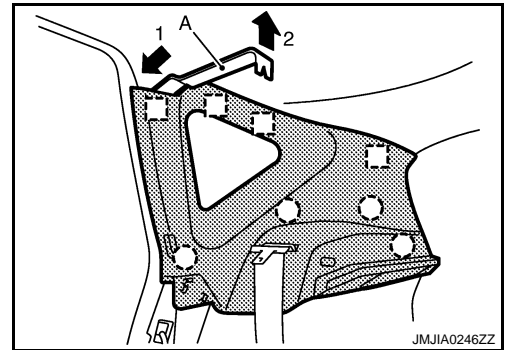
 : Pawl



6. Disengage clips using remover tool (A).

 : Clip

 : Metal clip



7. Remove rear seat belt through the hole in rear pillar finisher.
8. Carefully pull rear pillar finisher backwards and disconnect harness connector for luggage room lamp (LH).
9. Remove rear pillar finisher (LH/RH).

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.

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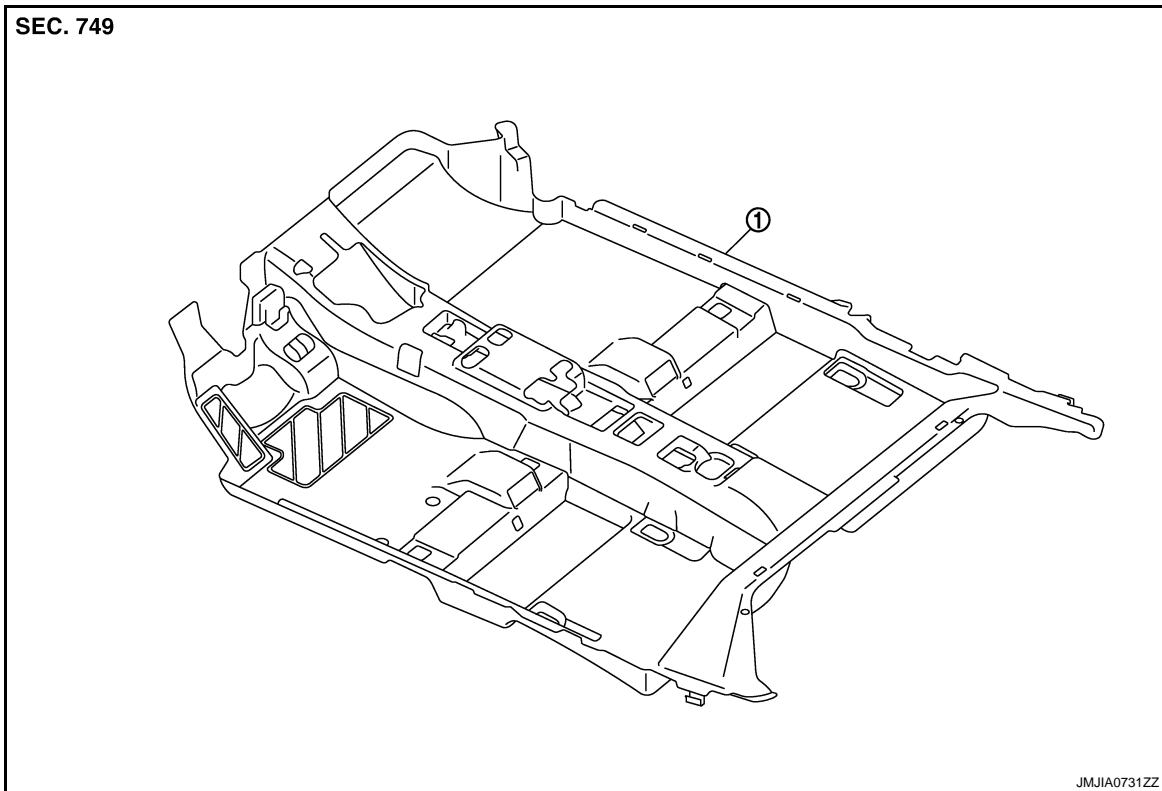
FLOOR TRIM

< ON-VEHICLE REPAIR >

FLOOR TRIM

Exploded View

INFOID:000000001183479



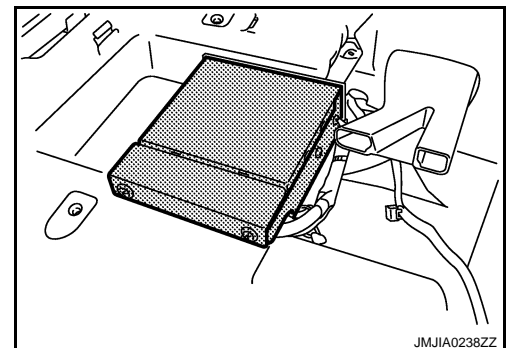
1. Carpet assy floor

Removal and Installation

INFOID:000000001183480

REMOVAL

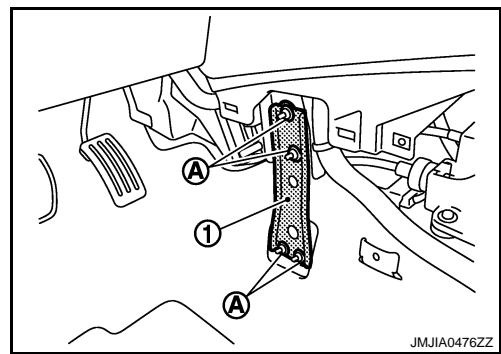
1. Remove front seat (LH/RH) and rear seat cushion.
 - Front seat assembly. Refer to [SE-15, "Removal and Installation"](#).
 - Rear seat assembly. Refer to [SE-21, "Removal and Installation"](#).
2. Remove accelerator pedal assembly. Refer to [ACC-3, "Removal and Installation"](#).
3. Remove center console assembly. Refer to [IP-18, "Removal and Installation"](#).
4. Remove dash side finisher (LH/RH), front kicking plate inner (LH/RH), center pillar lower garnish (LH/RH), and rear kicking plate inner. Refer to [INT-14, "Removal and Installation"](#).
5. Remove navigation control unit.
Refer to [AV-204, "Removal and Installation"](#).



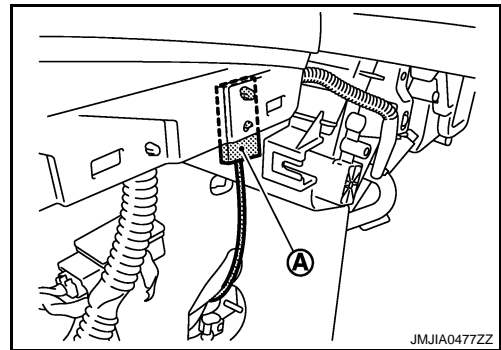
FLOOR TRIM

< ON-VEHICLE REPAIR >

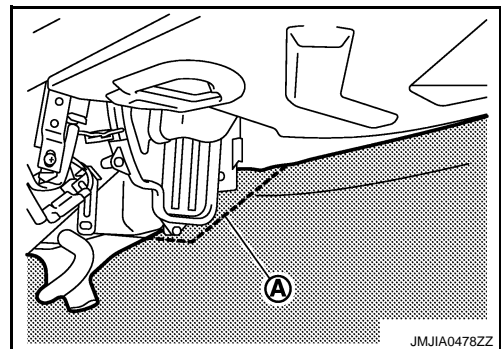
6. Remove console bracket mounting nuts (A), and then remove console bracket(1).



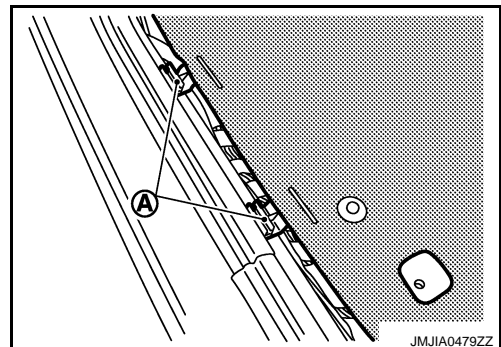
7. Remove A/T control device assembly. Refer to [XX-XX, "*****"](#).
8. Remove parking brake control device assembly. Refer to [PB-5, "Removal and Installation"](#).
9. Remove diagnosis sensor unit. Refer to [SR-16, "Removal and Installation"](#).
10. Disconnect GPS antenna cable connector (A). (with NAVI)



11. Cut floor carpet front side (Portion A) using cutter knife.



12. Remove floor carpet from fixing clips (A).



13. Remove floor carpet.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- When replacing the floor carpet with a new one, install by cutting the front end like the old one. After that, ensure matching quality between floor trim and instrument lower cover, etc. by tucking.
- Joints both new floor carpet and old front carpet ends by using a tucker.

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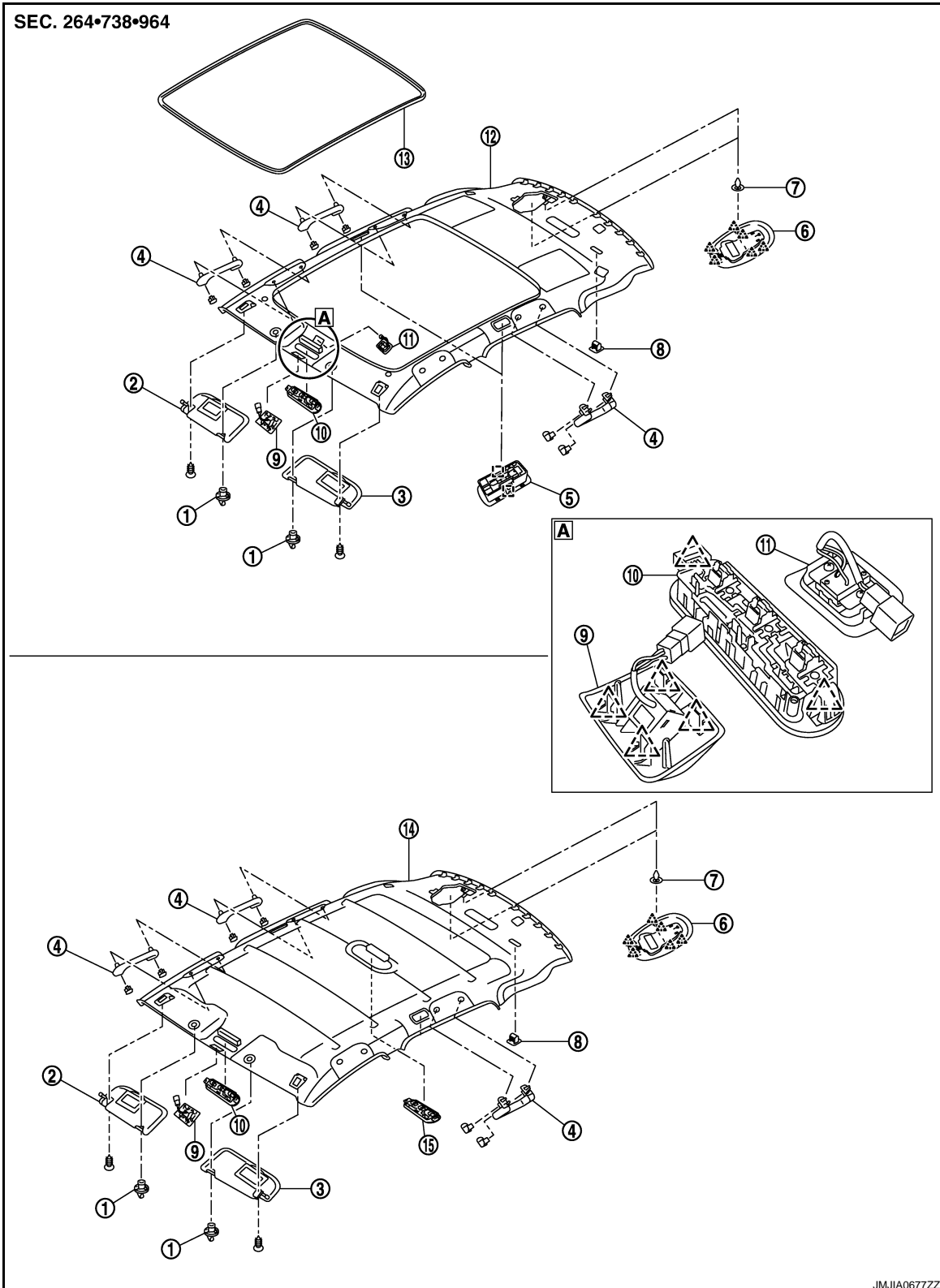
HEADLINING

< ON-VEHICLE REPAIR >

HEADLINING

Exploded View

INFOID:000000001183481





- 1. Sun-visor holder
- 2. Sun-visor (RH)
- 3. Sun-visor (LH)
- 4. Assist grip
- 5. Personal lamp
- 6. Rear seat belt cover
- 7. Headlining clip
- 8. Headlining clip
- 9. Microphone finisher

HEADLINING

< ON-VEHICLE REPAIR >

- | | | |
|------------------|--|---|
| 10. Map lamp | 11. Sunroof switch finisher | 12. Headlining assembly
(with sunroof glass) |
| 13. Sunroof welt | 14. Headlining assembly
(without sunroof glass) | 15. Room lamp |

 : Clip

 : Pawl

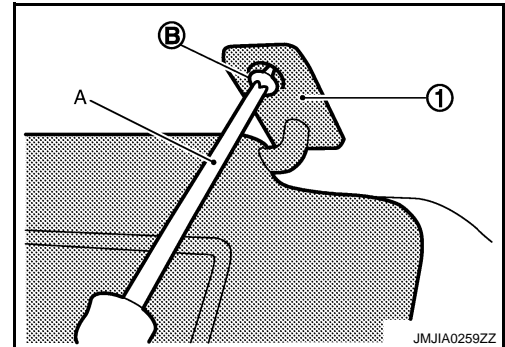
 : Metal clip

Removal and Installation

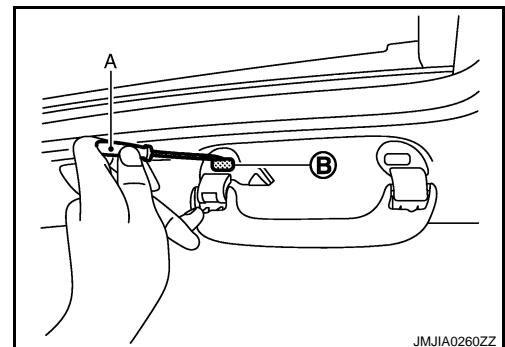
INFOID:000000001183482

REMOVAL

1. Remove front pillar garnish (LH/RH). Refer to [INT-14, "Removal and Installation"](#).
2. Remove rear seat cushion and seat back. Refer to [SE-21, "Removal and Installation"](#).
3. Remove rear seat belt anchor bolt. Refer to [SB-17, "SEAT BELT BUCKLE : Removal and Installation"](#).
4. Remove front kicking plate inner (LH/RH), center pillar lower garnish (LH/RH), center pillar upper garnish (LH/RH), rear kicking plate inner (LH/RH), luggage side lower finisher (front), rear pillar finisher (LH/RH). Refer to [INT-14, "Removal and Installation"](#).
5. Disconnect harness connectors for luggage room lamp after removing rear pillar finisher (LH/RH).
6. Using screwdriver (A), remove screws (B) from sun-visor assembly (1).



7. Unhook the sun-visor bracket from the rear.
8. Disconnect vanity mirror illumination harness connectors and then remove sun-visor (LH/RH).
9. Disengage pawls on room lamp, microphone finisher and sunroof switch finisher using remover tool.
10. Disconnect harness connectors for room lamp, microphone finisher and sunroof switch finisher.
11. Remove room lamp, microphone finisher and sunroof switch finisher.
12. Using a flat bladed screwdriver (A), ease out locking pins (B) of front assistance grip (RH) and rear assistance grip (LH/RH).



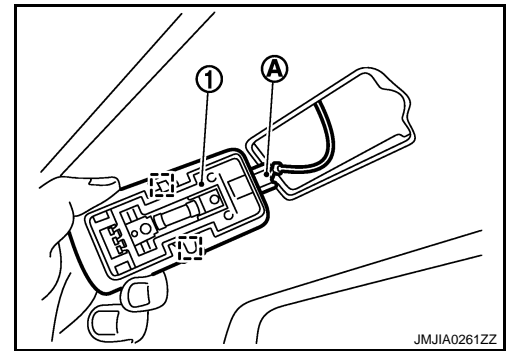
13. Pull assistance grips to disengage clips from the fixing holes in the roof metal and remove assistance grip.
14. Disengage pawls of personal lamps (LH/RH) using remover tool.

HEADLINING


< ON-VEHICLE REPAIR >

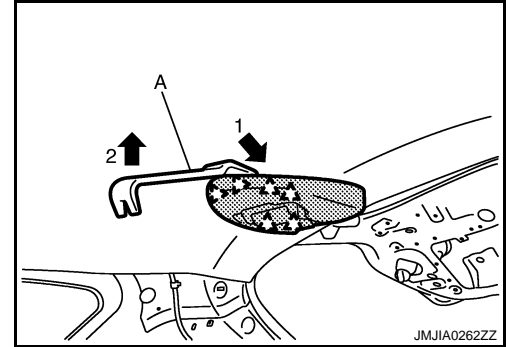
15. Disconnect harness connectors (A) for personal lamps (LH/RH) and remove personal lamps (1). (Sunroof only)

 : Metal clip



16. Remove rear seat belt cover using remover tool (A).

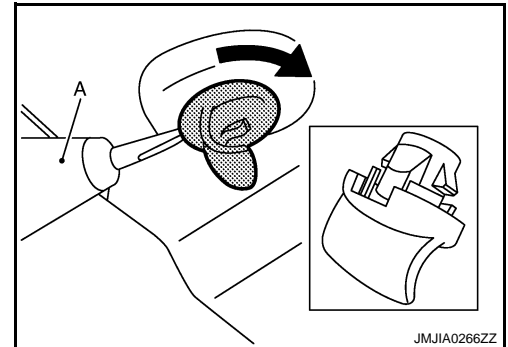
 : Pawl



17. Remove sunroof welt.

18. Using remover tool, remove body side headlining clip at the rear side of headlining.

19. Insert flat-bladed screwdriver (A) into the sun-visor holder cut-out, press and hold while rotating 90 degrees to remove sun-visor holder (LH/RH).

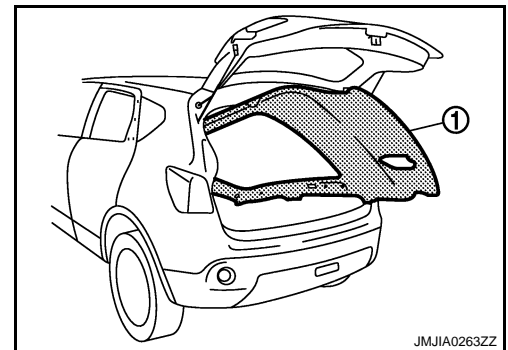


20. Recline front seat back to facilitate the headlining removal.

21. Remove headlining (1) from back door.

CAUTION:

- When removing, 2 workers are required. (1 for each front and rear of headlining)
- Cover center console finisher upper surface with a shop cloth so as to prevent it from being damaged.
- Do not bend headlining when removing.
- Be careful not to scratch or damage any part of the body while taking out the headlining.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Adjust headlining to the roof frame.
- As for guide, install sun-visor holder (LH/RH) then both body side mounting headlining clips at the rear side of headlining.
- Do not bend headlining when installing.

HEADLINING

< ON-VEHICLE REPAIR >

- When installing the sunroof welt, it must be free from visible waviness around full aperture.
- The joint of sunroof welt is to be positioned at the center of the front edge of the sunroof aperture.

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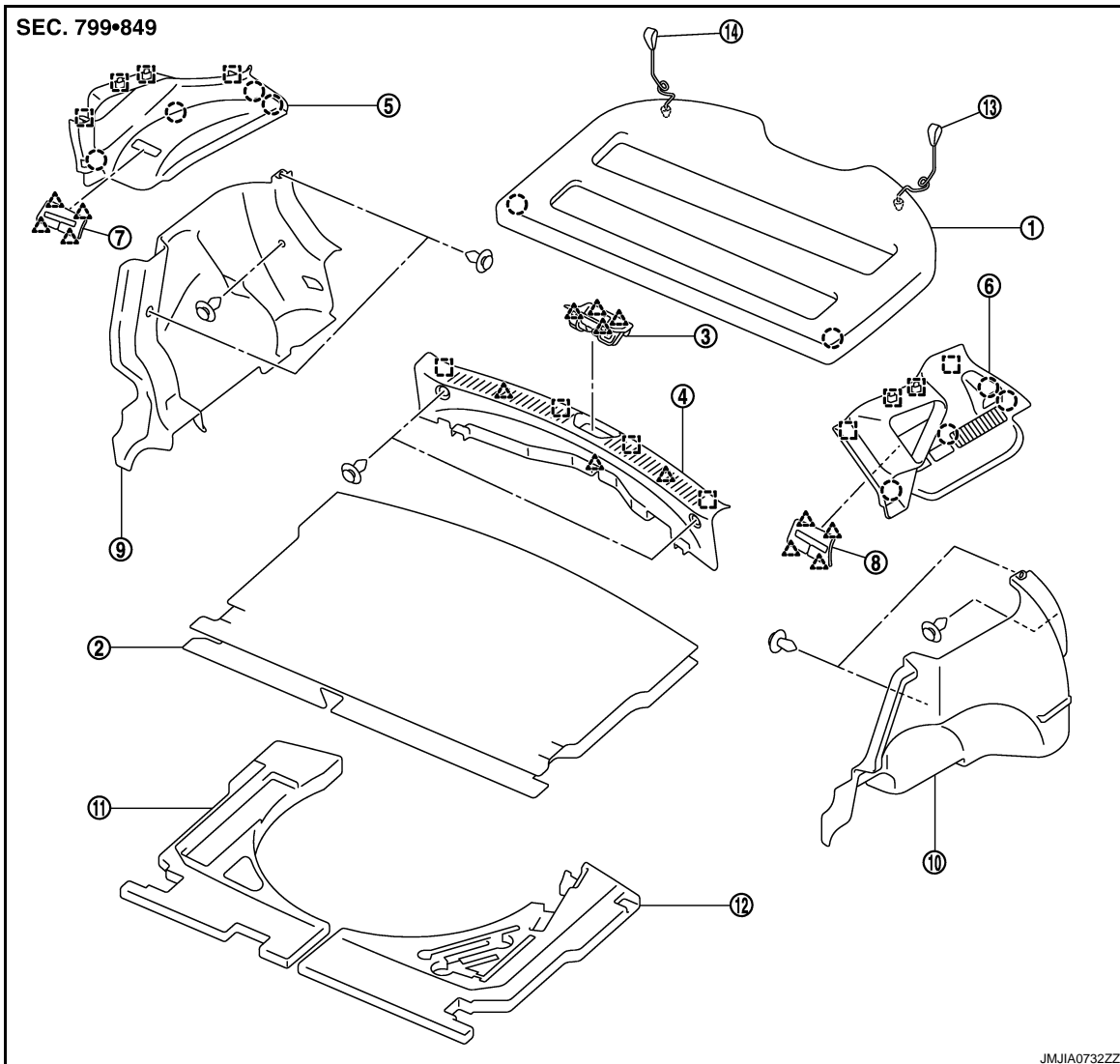
LUGGAGE FLOOR TRIM

< ON-VEHICLE REPAIR >

LUGGAGE FLOOR TRIM

Exploded View

INFOID:000000001183483



- | | | |
|--------------------------------------|-----------------------------------|-------------------------------------|
| 1. Parcel shelf | 2. Luggage floor carpet | 3. Luggage rear plate cap |
| 4. Luggage rear plate | 5. Rear pillar finisher (RH) | 6. Rear pillar finisher (LH) |
| 7. Rear seat belt escutcheon (RH) | 8. Rear seat belt escutcheon (LH) | 9. Luggage side lower finisher (RH) |
| 10. Luggage side lower finisher (LH) | 11. Luggage floor spacer (RH) | 12. Luggage floor spacer (LH) |
| 13. Hook rope (LH) | 14. Hook rope (RH) | |

○ : Clip

△ : Pawl

□ : Metal clip

Removal and Installation

INFOID:000000001183484

REMOVAL


LUGGAGE REAR PLATE

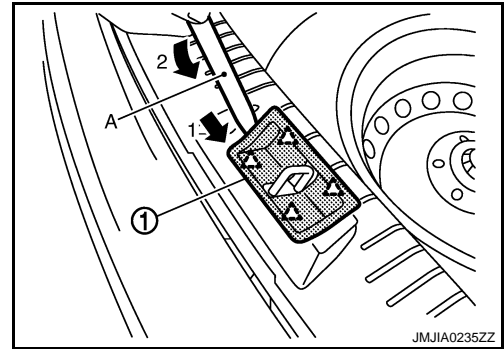
1. Remove luggage floor carpet and the luggage floor spacers.
2. Remove back door weather-strip. Refer to XX-XX, *****.

LUGGAGE FLOOR TRIM

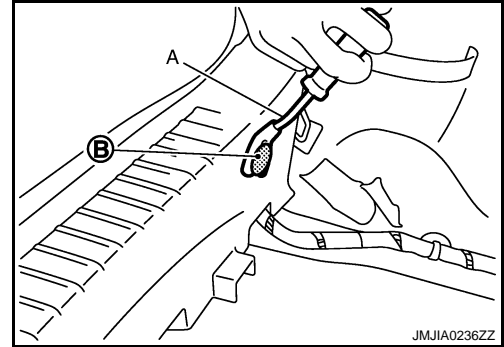
< ON-VEHICLE REPAIR >

3. Insert remover tool (A) between luggage rear plate and luggage rear plate cap (1) to disengage pawls and then remove luggage rear plate cap.

 : Pawl



4. Remove both clips (B) on luggage rear plate using a remover tool (A).
5. Hold both sides of rear plate, pull upwards to remove.



REAR PILLAR FINISHER

Refer to body side trim [INT-14, "Removal and Installation"](#).

LUGGAGE SIDE LOWER FINISHER

1. Remove parcel shelf.
2. Remove back door weather-strip. Refer to [XX-XX, "*****"](#).
3. Remove luggage rear plate. Refer to [INT-24, "Removal and Installation"](#).
4. Remove luggage floor carpet and the luggage floor spacers.
5. Remove rear kicking plate inner, luggage side lower finisher (front), rear pillar finisher. Refer to [INT-14, "Removal and Installation"](#).
6. Remove clips on luggage side lower finisher (LH/RH) by using remover tool.
7. Remove luggage side lower finisher.

INSTALLATION

Install in the reverse order of removal.

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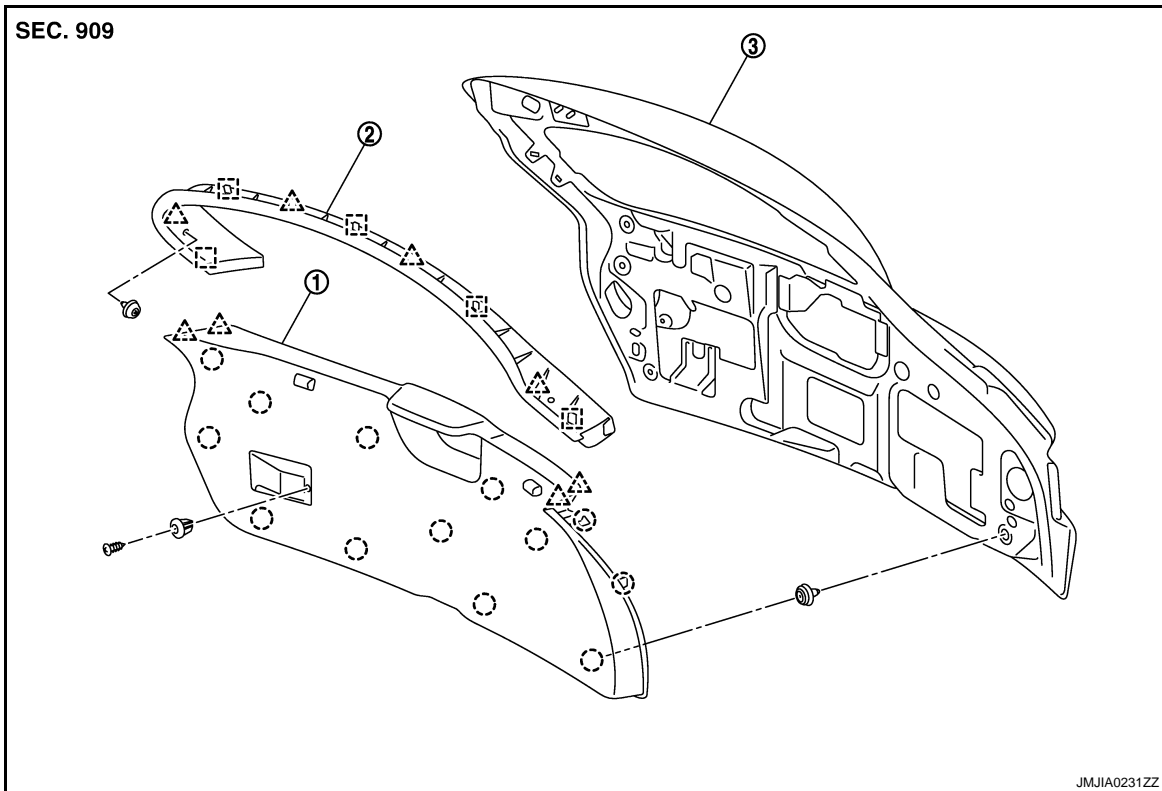
BACK DOOR TRIM

< ON-VEHICLE REPAIR >

BACK DOOR TRIM

Exploded View

INFOID:000000001183485



1. Back door trim finisher lower

2. Back door trim finisher upper

3. Back door assembly

○ : Clip

△ : Pawl

□ : Metal clip

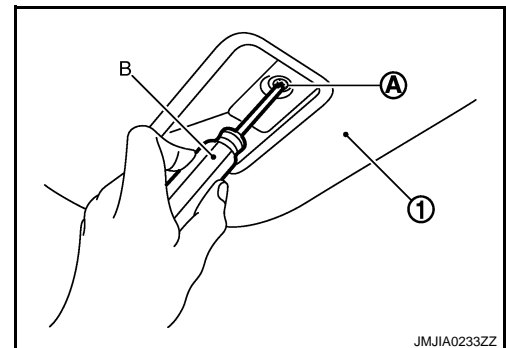
Removal and Installation

INFOID:000000001183486

REMOVAL

BACK DOOR TRIM

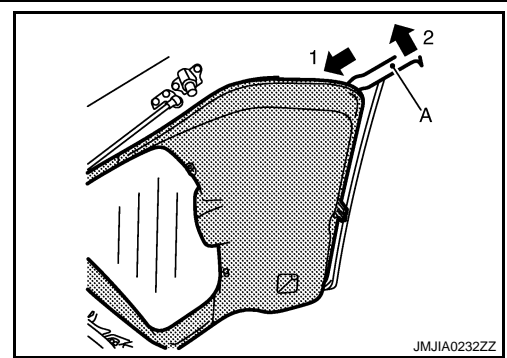
1. Fully open back door.
2. Remove screw tap (A) located in back door trim finisher lower (1) with screwdriver (B).



BACK DOOR TRIM

< ON-VEHICLE REPAIR >

3. Insert remover tool (A) between back door trim finisher lower and back door panel to disengage clips. Starting by the lower downwards and works around the edges and up to the sides.



4. Pull downwards carefully the back trim finisher to disengage center clips and remove back door trim finisher.
5. Remove back door trim finisher upper.

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.

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