

SECTION

EXT

EXTERIOR

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

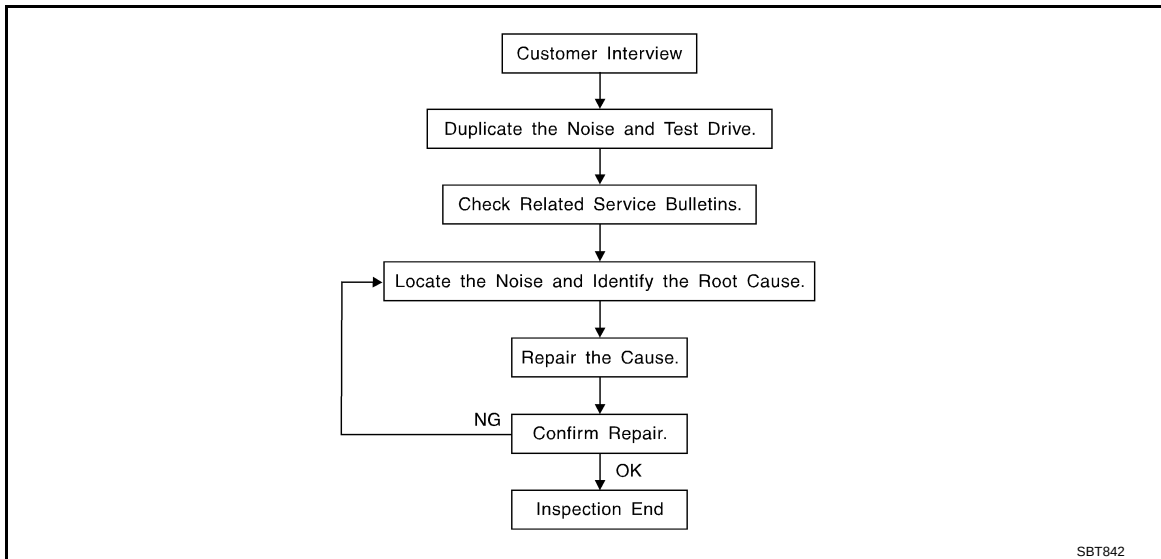
< SYMPTOM DIAGNOSIS >

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 [EXT-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, always 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 varies depending upon the person. A noise that is judged 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 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 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 is suspected of the noise is coming from.
Do not use too much force when removing clips and fasteners, otherwise clips and fastener can brake or lost during the repair, resulting in the creation of new noise.
 - Tapping or pushing/pulling the component that are suspected of 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 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 is are suspected to be the cause of the noise.
 - Looking for loose components and contact marks.
Refer to [EXT-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. These insulators are available through the authorized NISSAN Parts Department.

CAUTION:

Never 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
Use 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
Use in place of UHMW tape that is be visible or does 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 >

Check 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:000000003941540

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

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

CAUTION:

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. 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 customer.

In addition look for the following:

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

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

SUNROOF/HEADLINING

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

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. 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 occurs. These conditions must 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

F

G

H

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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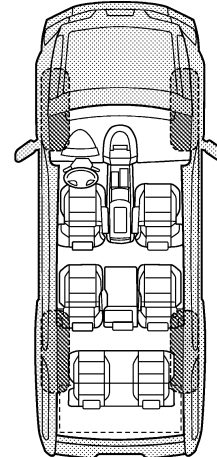
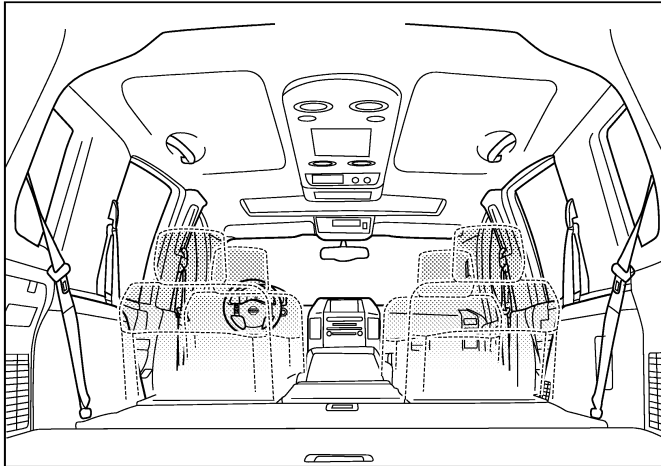
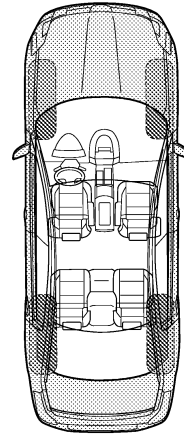
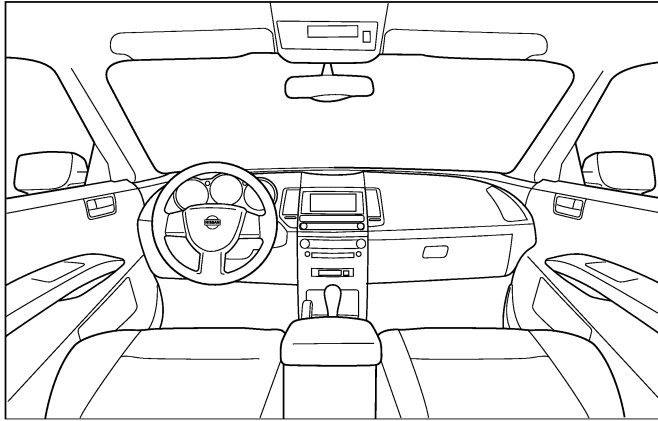
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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)

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

III. WHEN DRIVING:

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

IV. WHAT TYPE OF NOISE

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

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	☐	☐	_____
- Noise verified on test drive	☐	☐	_____
- Noise source located and repaired	☐	☐	_____
- Follow up test drive performed to confirm repair	☐	☐	_____

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

This form must be attached to Work Order

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000003841895

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

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000003841896

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, 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. Turn the push-button ignition switch to ACC position.
(At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

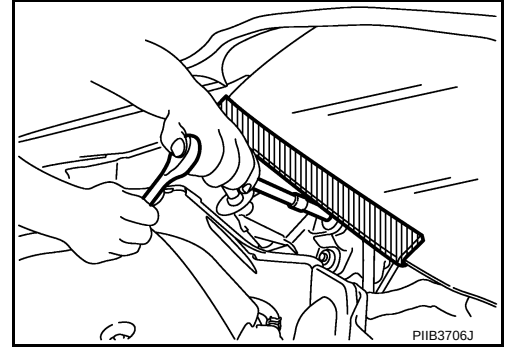
PRECAUTIONS

< PRECAUTION >

Precaution for Procedure without Cowl Top Cover

INFOID:000000003733754

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



Precaution for Work

INFOID:000000003733751

- After removing and installing the opening/closing parts, always perform 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

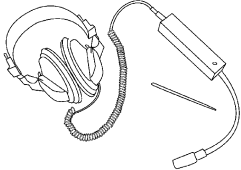
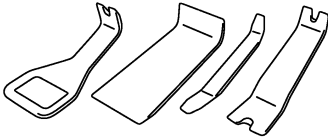
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PREPARATION

PREPARATION

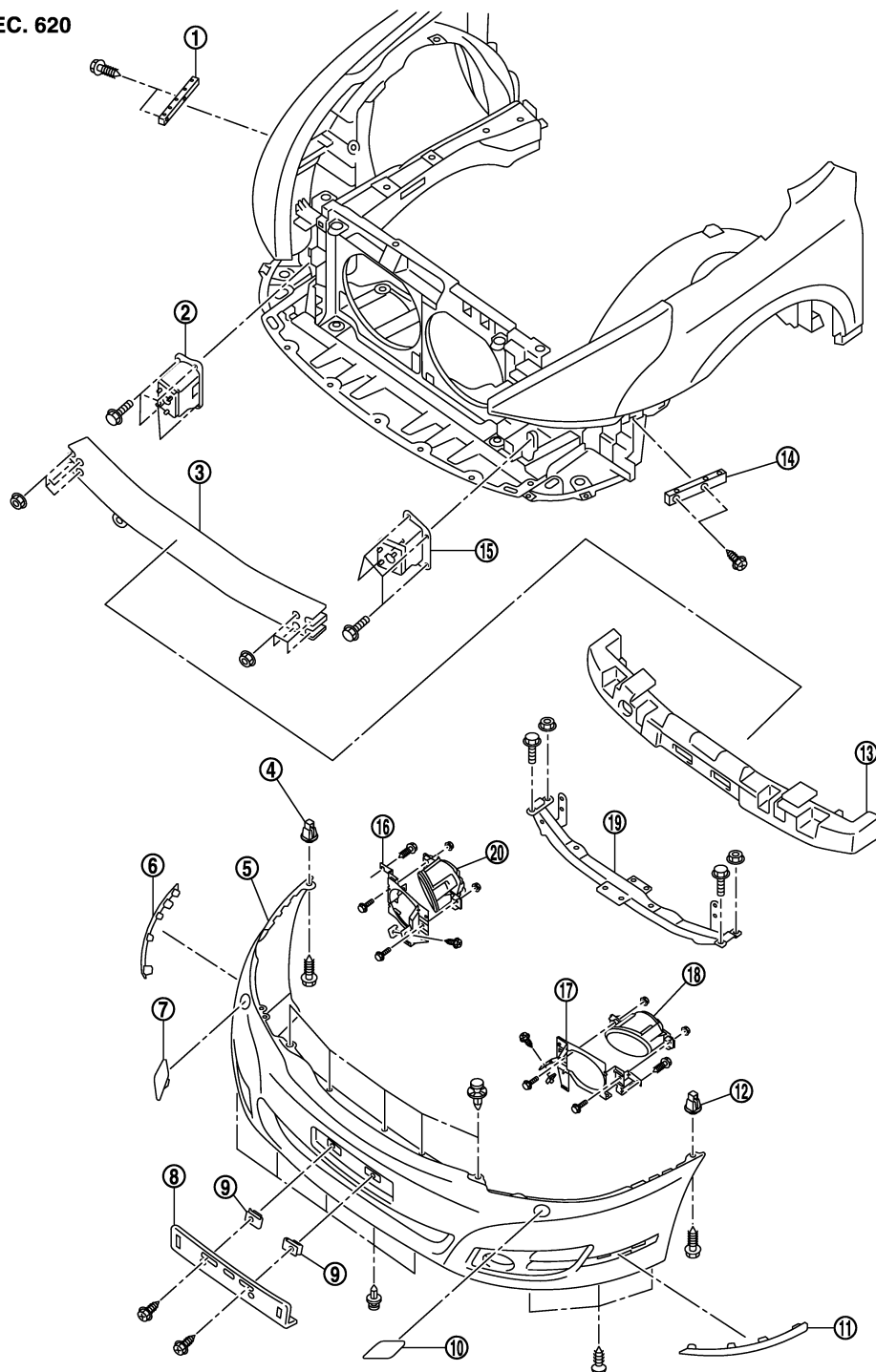
Commercial Service Tools

INFOID:000000003733752

Tool name	Description
Engine ear  SIIA0995E	Locates the noise
Remover tool  PIIB7923J	Removes clips, pawls and metal clips

Exploded View

INFOID:0000000003819529



- | | | |
|-------------------------------------|----------------------------|-------------------------|
| 1. Bumper side bracket RH | 2. Bumper stay RH | 3. Bumper reinforcement |
| 4. Grommet RH | 5. Bumper fascia assembly | 6. Bumper molding RH |
| 7. Headlamp washer nozzle cover RH | 8. Licence plate bracket | 9. Spring nut |
| 10. Headlamp washer nozzle cover LH | 11. Bumper molding LH | 12. Grommet LH |
| 13. Bumper energy absorber | 14. Bumper side bracket LH | 15. Bumper stay LH |

FRONT BUMPER

< ON-VEHICLE REPAIR >

- | | | |
|-------------------------------|-------------------------------|-----------------------|
| 16. Front fog lamp bracket RH | 17. Front fog lamp bracket LH | 18. Front fog lamp LH |
| 19. Bumper upper retainer | 20. Front fog lamp RH | |

Removal and Installation

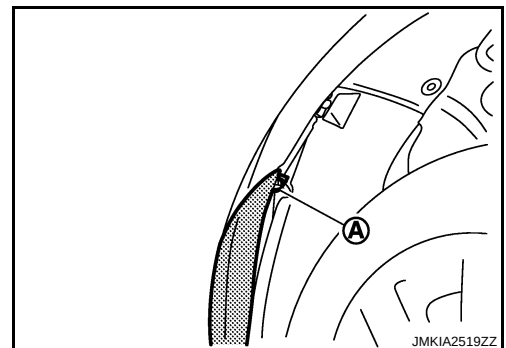
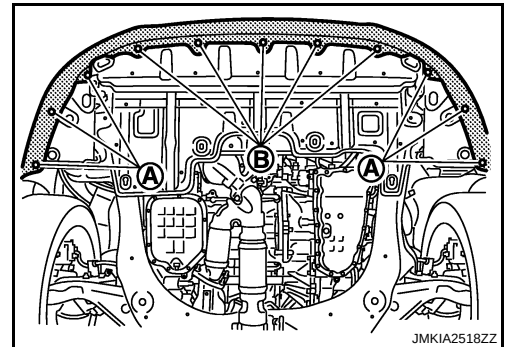
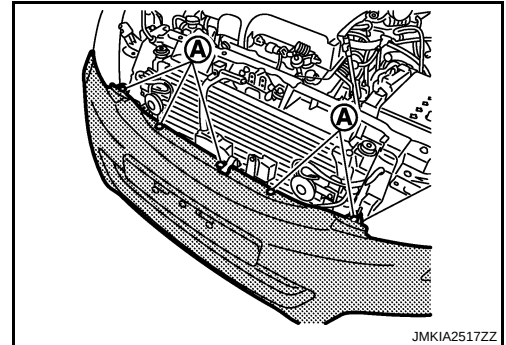
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REMOVAL

CAUTION:

Bumper fascia is made of resin. Never apply strong force to it, and be careful to prevent contact with oil.

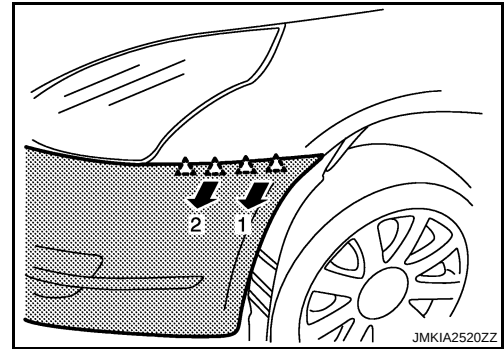
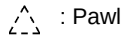
1. Fully open hood assembly.
2. Remove clips (A) of front bumper fascia upper side.
3. Remove front bumper fascia fixing screws (A) and clips (B) from front bumper fascia lower side.
4. Disconnect front fog lamp harness connectors (LH/RH).
5. Disconnect headlamp washer tube connector. Refer to [WW-97, "Removal and Installation"](#).
6. Remove fender protector fixing clips to access front bumper fascia fixing screw (A), and then remove front bumper fascia fixing screws (LH/RH).



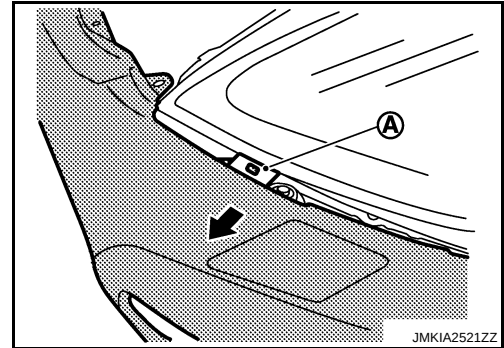
FRONT BUMPER

< ON-VEHICLE REPAIR >

7. Pull bumper fascia side toward the vehicle side to disengage the bumper fascia from bumper side brackets (LH/RH).



8. Disengage front bumper fascia from bumper brackets (A) (LH/RH).



9. Remove bumper fascia assembly.

CAUTION:

When removing bumper fascia, 2 workers are required so as to prevent it from dropping.

10. Remove the following parts after removing bumper fascia.

- License plate bracket
- Front bumper retainer
- Front bumper molding (LH/RH)
- Headlamp washer nozzle (LH/RH). Refer to [WW-102, "Removal and Installation"](#).
- Front fog lamps (LH/RH). Refer to [EXL-183, "Removal and Installation"](#).

11. Remove bumper energy absorber.

12. Remove bumper reinforcement mounting nuts, and then remove bumper reinforcement with power tool.

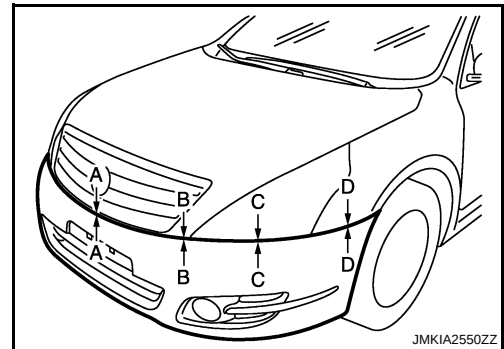
13. Remove bumper stay (LH/RH) mounting bolts, and then remove bumper stay (LH/RH).

INSTALLATION

Install in the reverse order of removal.

NOTE:

After installing, perform fitting adjustment.



Portion		Clearance	Flush
Front bumper – Front grille	A – A	3.5 – 8.5 mm (0.138 – 0.335 in)	—
Front bumper – Hood	B – B	3.7 – 8.3 mm (0.146 – 0.327 in)	—

FRONT BUMPER

< ON-VEHICLE REPAIR >

Portion		Clearance	Flush
Front bumper – Headlamp	C – C	0.5 – 2.5 mm (0.020 – 0.098 in)	—
Front bumper – Front fender	D – D	0.0 – 0.7 mm (0.000 – 0.028 in)	–0.3 – 1.7 mm (–0.012 – 0.067 in)

REAR BUMPER

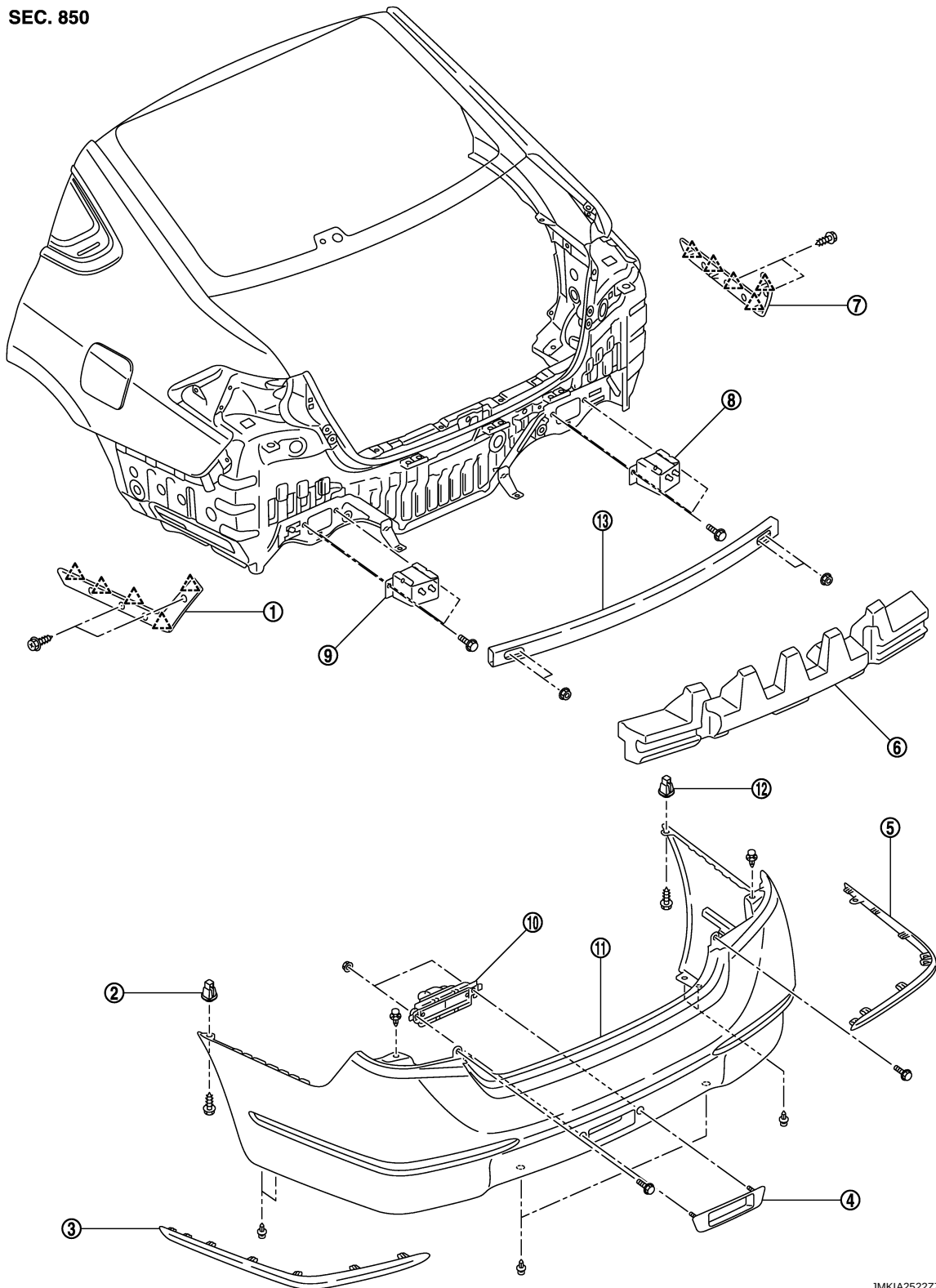
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REAR BUMPER

Exploded View

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SEC. 850



- | | | |
|---------------------------|----------------------|---------------------------|
| 1. Bumper side bracket LH | 2. Grommet LH | 3. Bumper molding LH |
| 4. Rear fog lamp rim | 5. Bumper molding RH | 6. Bumper energy absorber |
| 7. Bumper side bracket RH | 8. Bumper stay RH | 9. Bumper stay LH |

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REAR BUMPER

< ON-VEHICLE REPAIR >

- 10. Rear fog lamp
- 13. Bumper reinforcement

- 11. Rear bumper fascia assembly

- 12. Grommet RH

 : Pawl

Removal and Installation

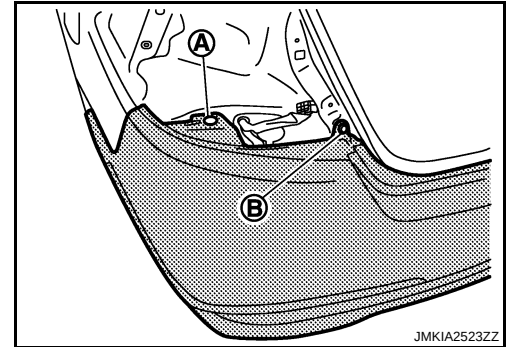
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REMOVAL

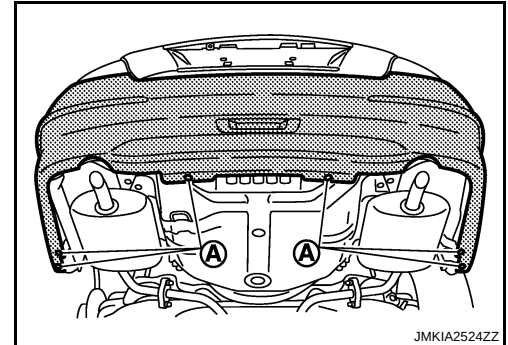
CAUTION:

Bumper fascia is made of resin. Never apply strong force to it, and be careful to prevent contact with oil.

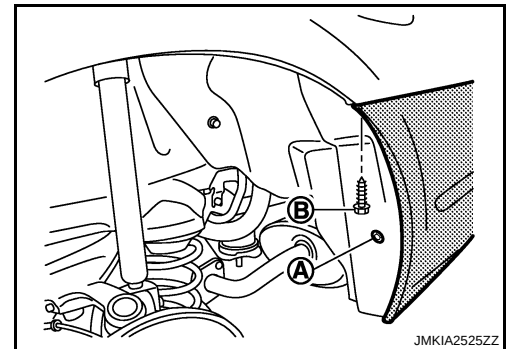
1. Fully open trunk lid assembly.
2. Remove rear combination lamp (LH/RH). Refer to [EXL-191. "Removal and Installation"](#).
3. Remove clips (A) and screws (B) located under rear combination lamp (LH/RH).



4. Remove screws (A) of bumper fascia underside.



5. Remove rear wheel house protector fixing clips (A) (LH/RH) and remove rear bumper fascia fixing screws (B) (LH/RH).

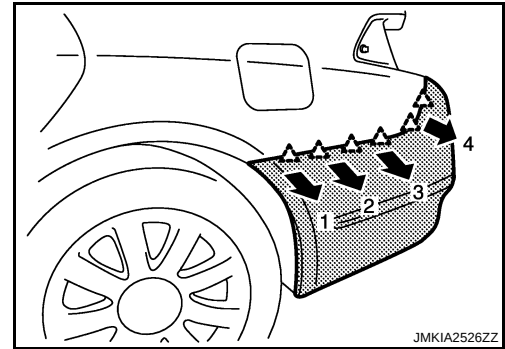


REAR BUMPER

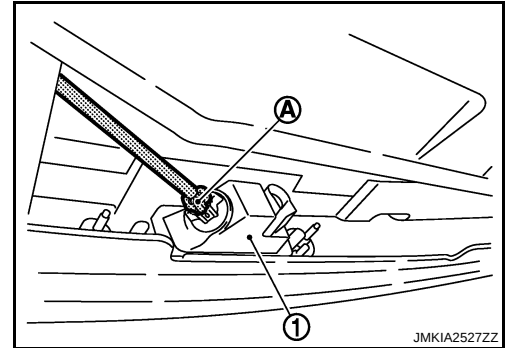
< ON-VEHICLE REPAIR >

6. Pull rear bumper fascia side toward the vehicle side to disengage the rear bumper fascia from bumper side bracket (LH/RH).

 : Pawl



7. Disconnect rear fog lamp (1) harness connector (A).



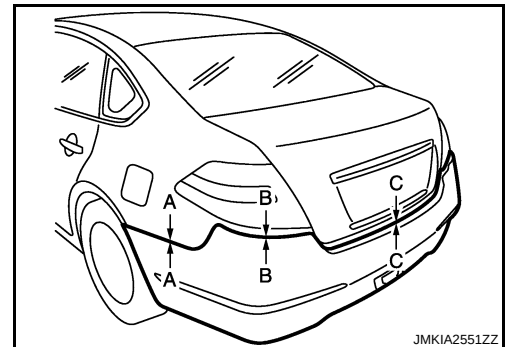
8. Pull out bumper fascia toward rear of vehicle.
9. Remove bumper fascia assembly.
- CAUTION:**
When removing bumper fascia, 2 workers are required so as to prevent it from dropping.
10. Remove the following parts after removing bumper fascia.
- Rear fog lamp. Refer to [EXL-194, "Removal and Installation"](#).
 - Rear bumper molding (LH/RH).
11. Remove bumper energy absorber.
12. Remove bumper reinforcement mounting nuts, and then remove bumper reinforcement with power tool.
13. Remove rear bumper stay (LH/RH) mounting bolts, and then remove rear bumper stay (LH/RH).

INSTALLATION

Install in the reverse order of removal.

NOTE:

After installing, perform fitting adjustment.



Portion		Clearance	Flush
Rear bumper – Rear fender	A – A	0.0 – 0.8 mm (0.000 – 0.031 in)	–0.2 – 1.8 mm (–0.008 – 0.071 in)
Rear bumper – Rear combination lamp	B – B	0.5 – 3.5 mm (0.020 – 0.138 in)	—
Rear bumper – Trunk lid	C – C	5.0 – 9.0 mm (0.197 – 0.354 in)	—

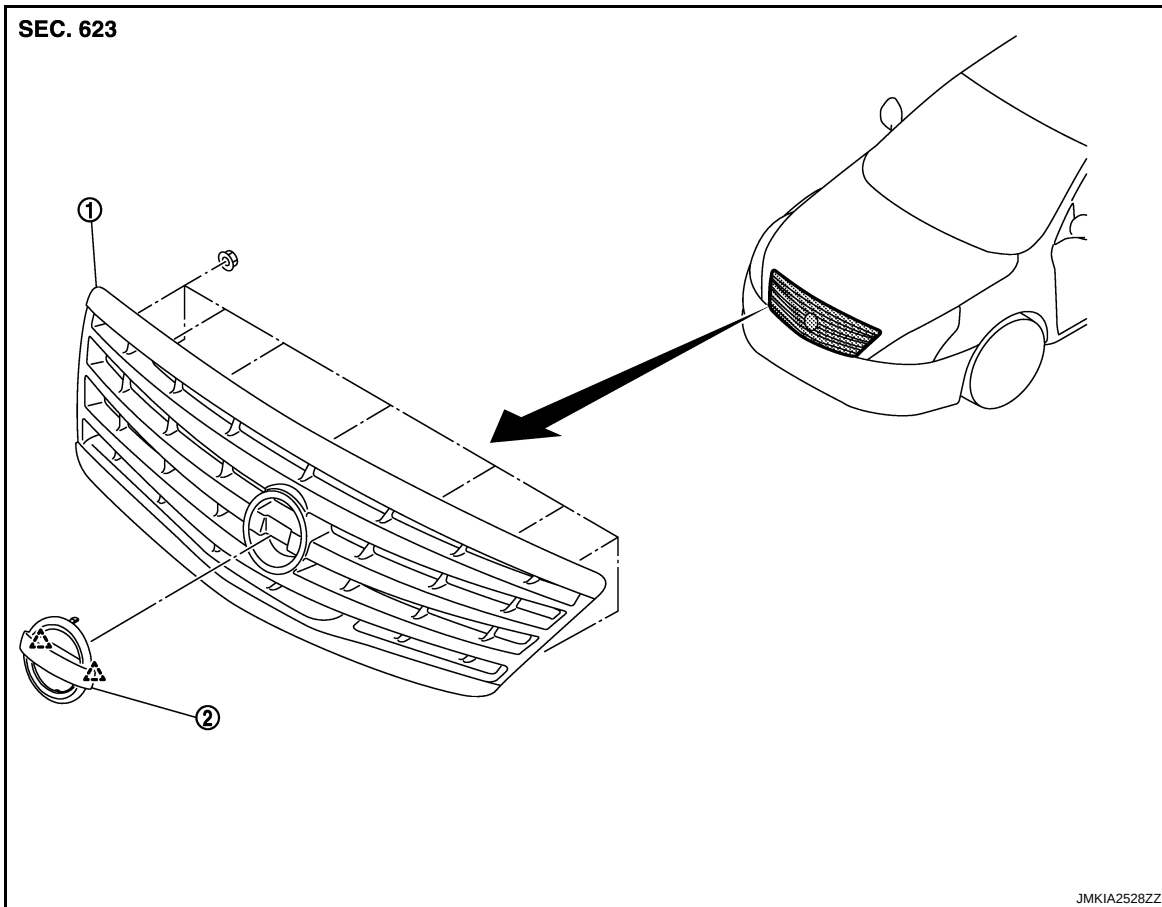
FRONT GRILLE

< ON-VEHICLE REPAIR >

FRONT GRILLE

Exploded View

INFOID:000000003819533



Removal and Installation

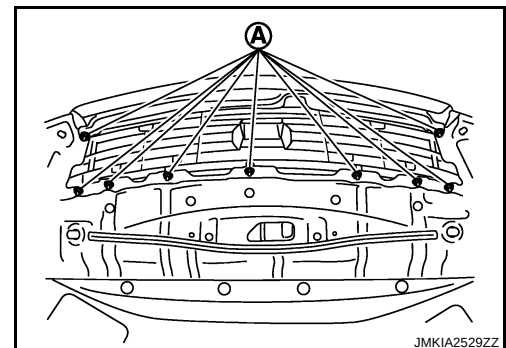
INFOID:000000003819534

REMOVAL

CAUTION:

Apply protection tape around outer circumference of front grille (bumper fascia side).

1. Fully open hood assembly.
2. Remove front grille mounting nuts (A).



3. Pull front grille out toward vehicle front.
4. Remove the following parts after removing front grille.
Front emblem

FRONT GRILLE

< ON-VEHICLE REPAIR >

INSTALLATION

Install in the reverse order of removal.

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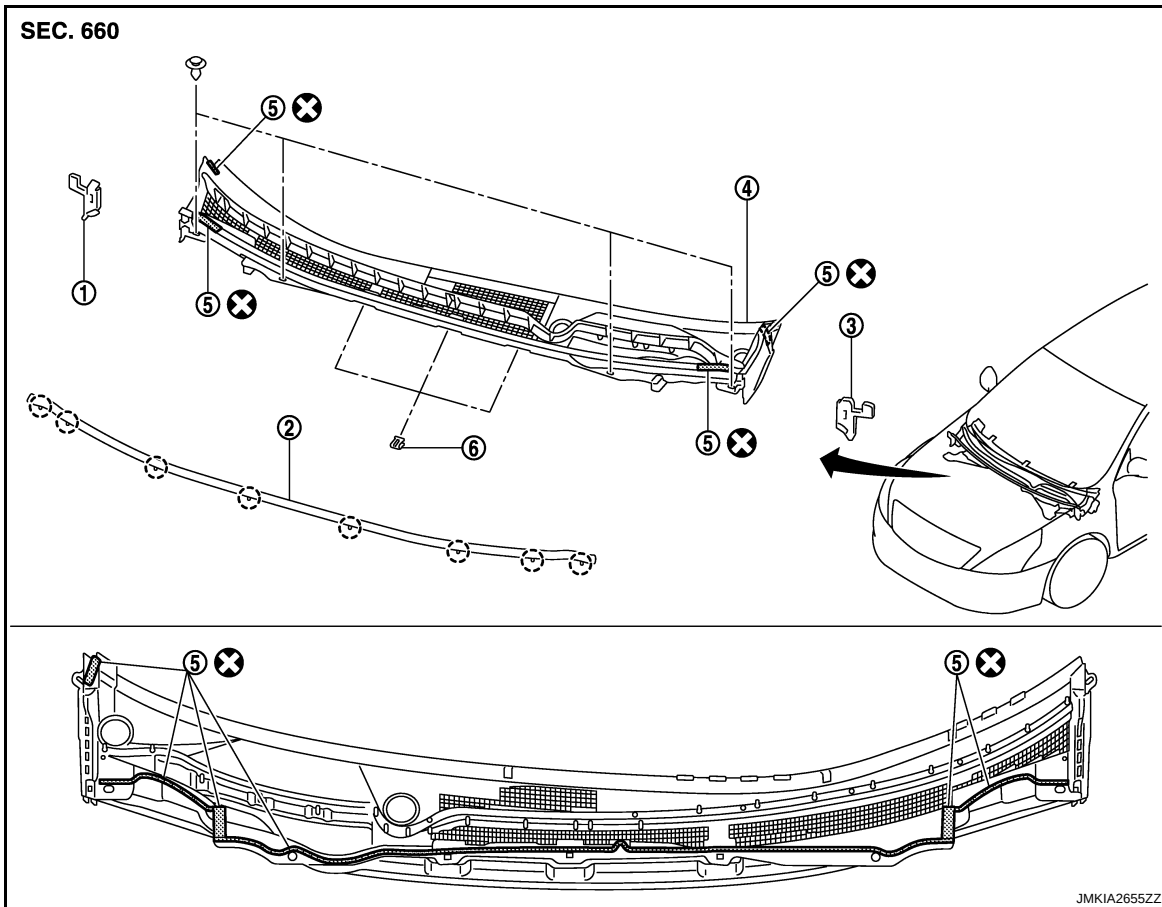
COWL TOP

< ON-VEHICLE REPAIR >

COWL TOP

Exploded View

INFOID:000000003819535



- | | | |
|---------------------------|------------------------|---------------------------|
| 1. Cowl top end rubber RH | 2. Cowl top cover seal | 3. Cowl top end rubber LH |
| 4. Cowl top cover | 5. EPT sealer | 6. Cowl top cover clip |

○ : Clip

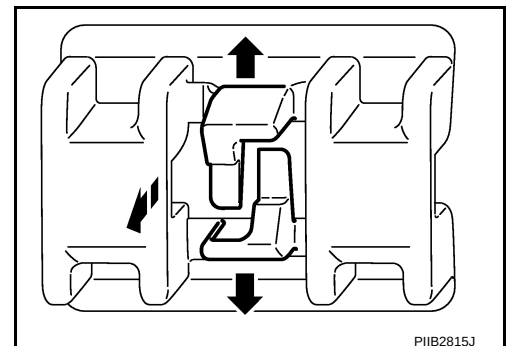
Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003819536

REMOVAL

1. Fully open hood assembly.
2. Remove front fender covers (LH/RH). Refer to [DLK-199, "Removal and Installation"](#)
3. Remove front wiper arms (LH/RH) from vehicle. Refer to [WW-105, "Removal and Installation"](#).
4. Remove cowl top cover seal.
5. Remove cowl top cover clips on cowl top cover front side.



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COWL TOP

< ON-VEHICLE REPAIR >

6. Remove cowl top cover fixing clips on cowl top cover top side.
7. Remove cowl top end rubbers (LH/RH) from cowl top cover.

CAUTION:

- Replace double-faced adhesive tape on cowl top end rubber with a new tape if cowl top end rubber is reused.
- To secure contact, never wash vehicle within 24 hours after installation.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- After installing, perform adjustment of wiper arm. Refer to [WW-105, "Adjustment"](#).
- Always replace cowl top cover EPT sealer on rear of vehicle with a new one when installing old cowl top cover.

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FENDER PROTECTOR

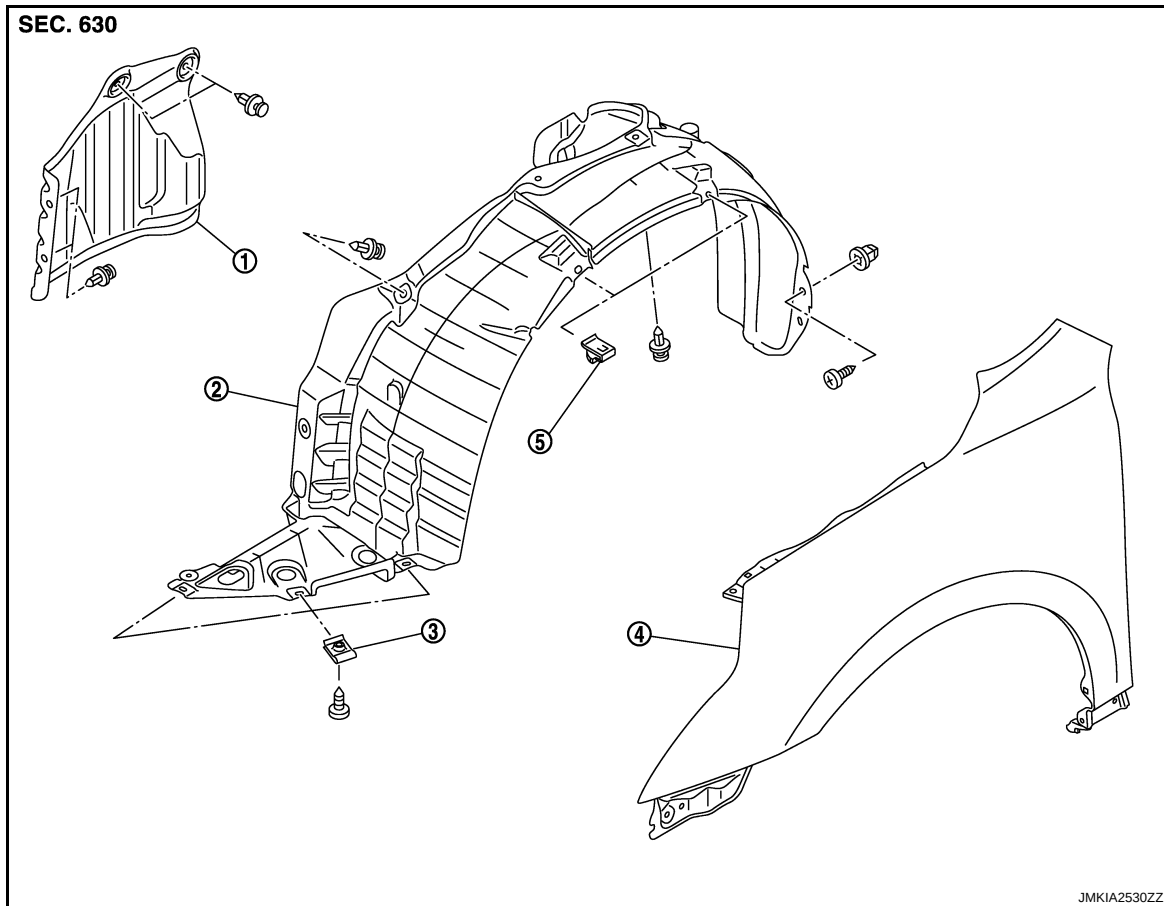
< ON-VEHICLE REPAIR >

FENDER PROTECTOR

FENDER PROTECTOR

FENDER PROTECTOR : Exploded View

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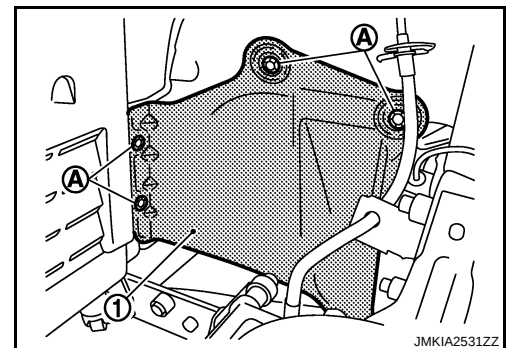
- | | | |
|-----------------------|---------------------|----------|
| 1. Front splash guard | 2. Fender protector | 3. U-nut |
| 4. Front fender | 5. Fender clip | |

FENDER PROTECTOR : Removal and Installation

INFOID:000000003819538

REMOVAL

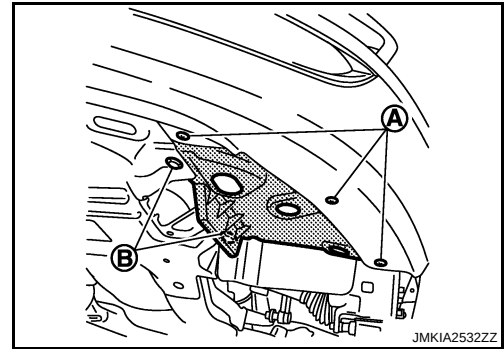
1. Remove splash guard fixing clips (A), and then remove splash guard (1).



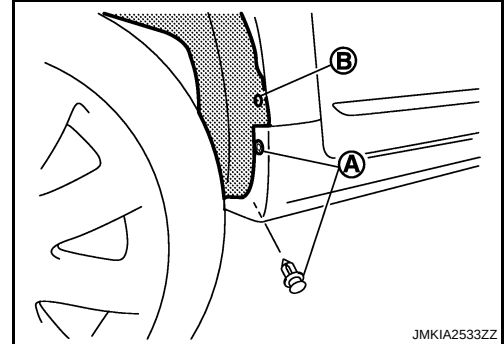
FENDER PROTECTOR

< ON-VEHICLE REPAIR >

2. Remove front fender protector fixing screws (A) and clips (B) from underside.



3. Remove front fender rear part fixing clips (A) and screw (B).



4. Remove front fender protector upper fixing clips.
5. Remove front fender clips from fender arch, and then remove the front fender protector.

INSTALLATION

Install in the reverse order of removal.

REAR WHEEL HOUSE PROTECTOR

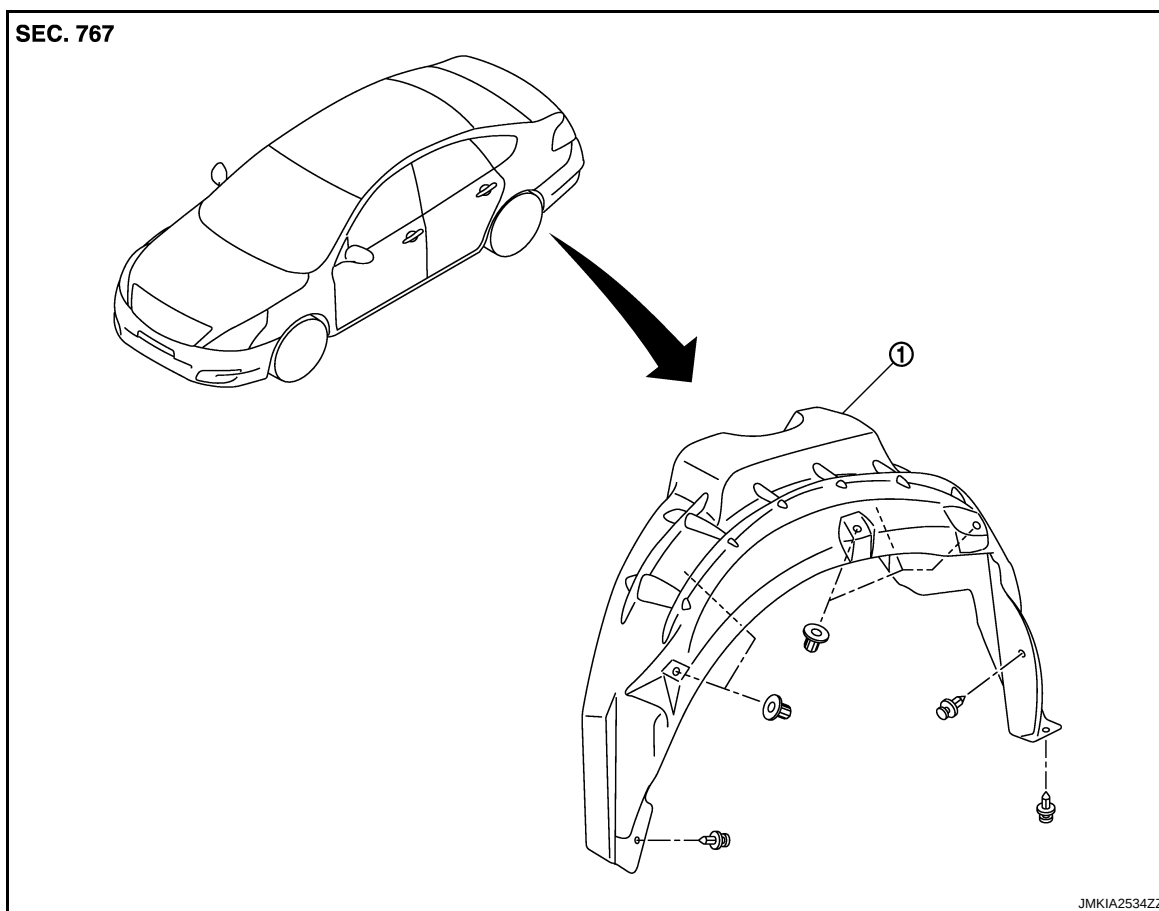
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FENDER PROTECTOR

< ON-VEHICLE REPAIR >

REAR WHEEL HOUSE PROTECTOR : Exploded View

INFOID:000000003819539



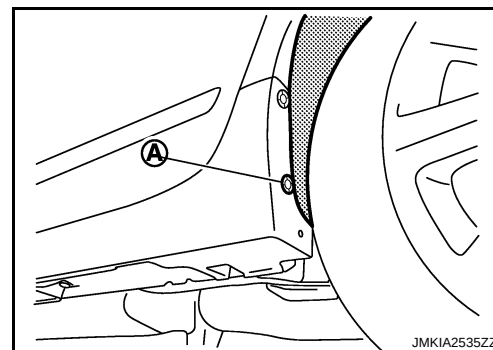
1. Rear wheel house protector

REAR WHEEL HOUSE PROTECTOR : Removal and Installation

INFOID:000000003819540

REMOVAL

1. Remove clip (A) of rear wheel house protector front end.

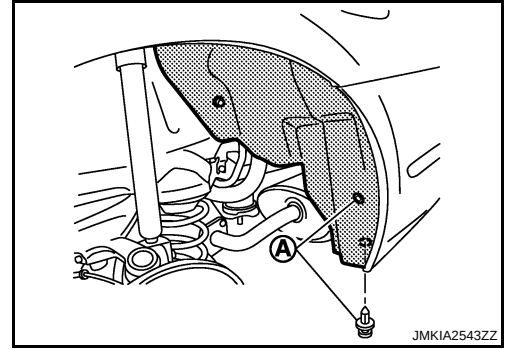


2. Remove tires with power tool.

FENDER PROTECTOR

< ON-VEHICLE REPAIR >

3. Remove clips (A) of rear wheel house protector rear end.



4. Remove rear wheel house protector fixing clips, and then remove rear wheel house protector.

INSTALLATION

Install in the reverse order of removal.

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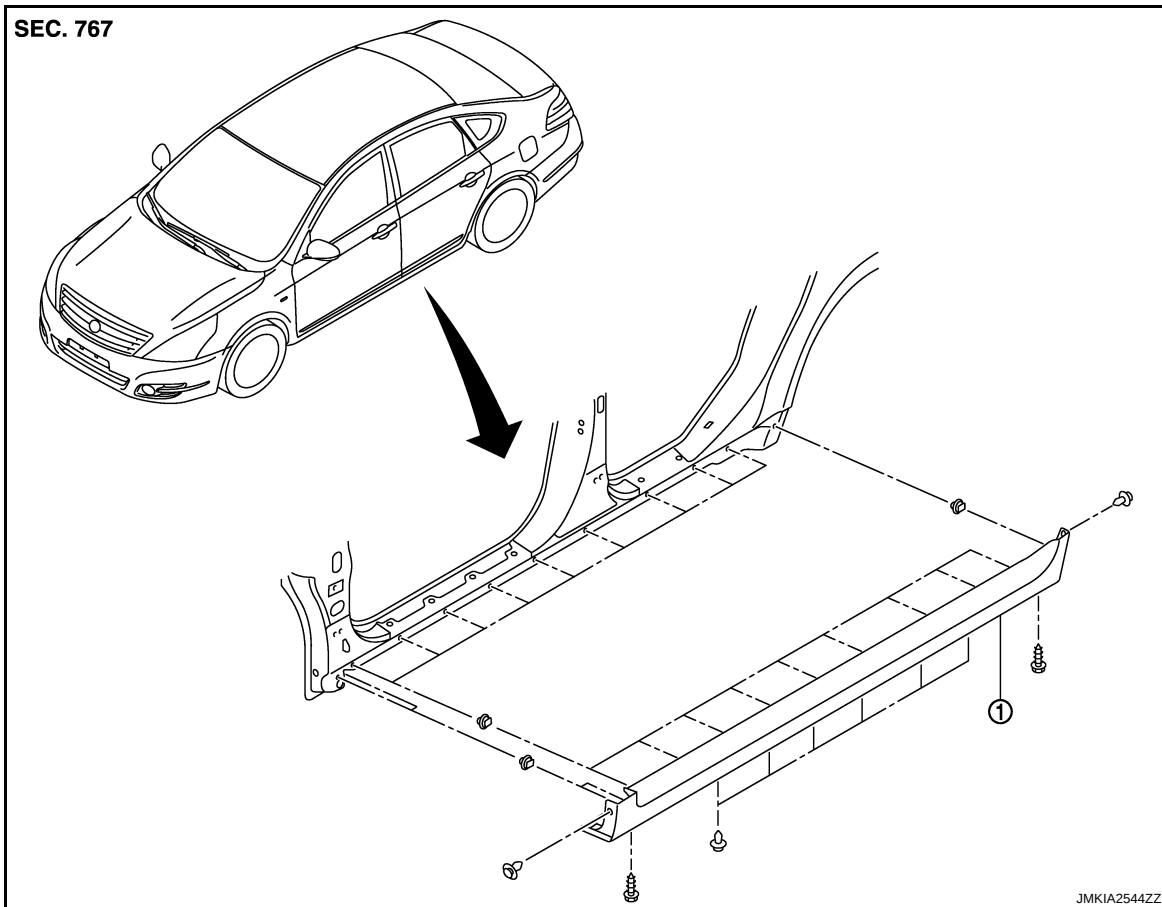
CENTER MUD GUARD

< ON-VEHICLE REPAIR >

CENTER MUD GUARD

Exploded View

INFOID:000000003819541



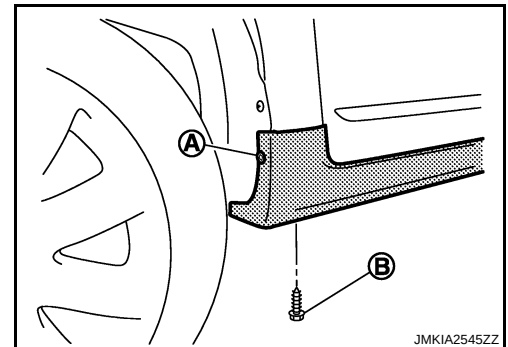
1. Center mud guard

Removal and Installation

INFOID:000000003819542

REMOVAL

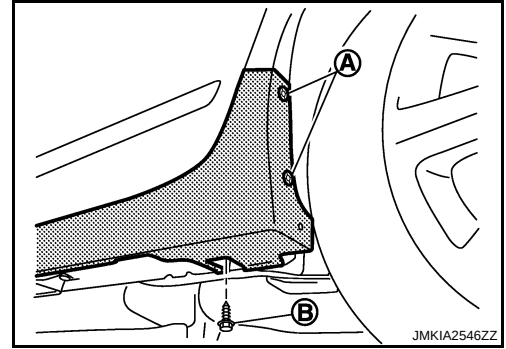
1. Remove center mud guard front end fixing clip (A) and screw (B).



CENTER MUD GUARD

< ON-VEHICLE REPAIR >

2. Remove center mud guard rear end fixing clips (A) and screw (B).



3. Remove center mud guard underside fixing clips and screws.
4. Fully open front door and rear door.
5. Remove center mud guard fixing clips from back side using remover tool.
6. Remove center mud guard from body side.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- When installing, visually check the center mud guard and the clips, then replace them with new parts if they are damaged.
- When installing center mud guard, check that clips are securely fitted in panel holes on body, and then press them in.

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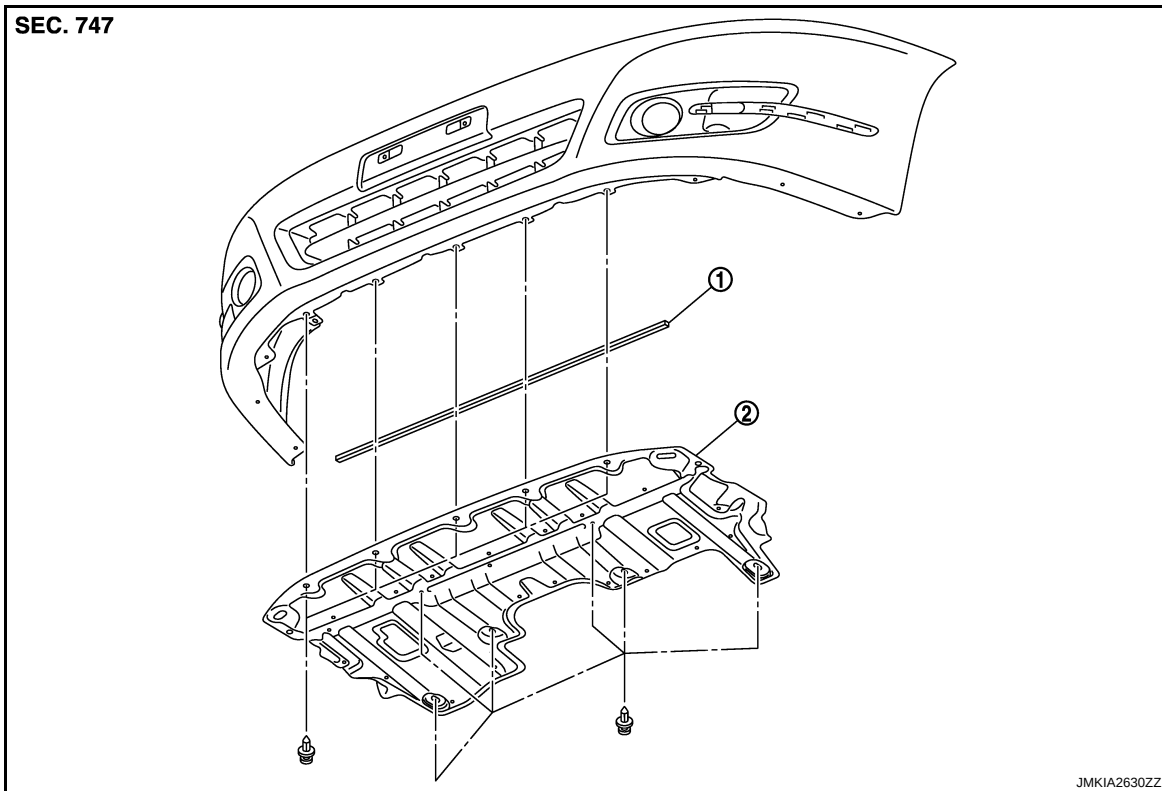
FLOOR SIDE FAIRING

< ON-VEHICLE REPAIR >

FLOOR SIDE FAIRING

Exploded View

INFOID:000000003819543



1. Engine under cover seal

2. Engine under cover

Removal and Installation

INFOID:000000003819544

REMOVAL

ENGINE UNDER COVER

1. Remove engine under cover fixing clips.
2. Remove engine under cover.

INSTALLATION

Install in the reverse order of removal.

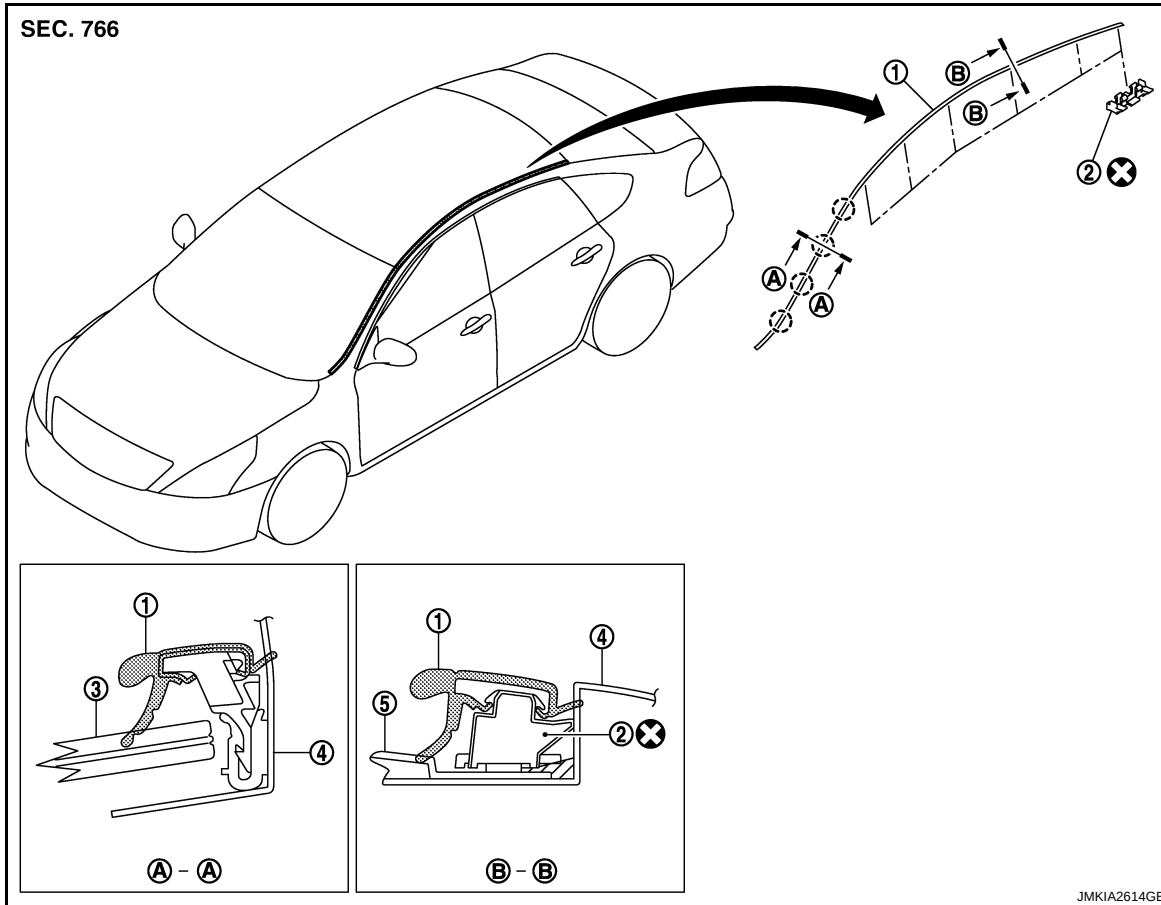
ROOF SIDE MOLDING

< ON-VEHICLE REPAIR >

ROOF SIDE MOLDING

Exploded View

INFOID:000000003819545



1. Roof side molding
2. Roof side molding clip
3. Front windshield
4. Body side panel
5. Roof panel

⊖ : Clip

Refer to [GI-4, "Components"](#) for symbols in the figure.

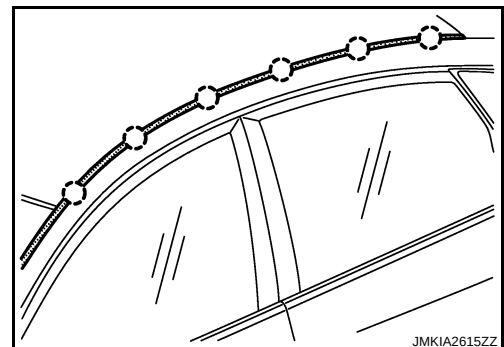
Removal and Installation

INFOID:000000003819546

REMOVAL

1. Remove front fender cover (LH/RH). Refer to [DLK-199, "Removal and Installation"](#).
2. Disengage clips while pinching molding from roof rear end to front end.

⊖ : Clip

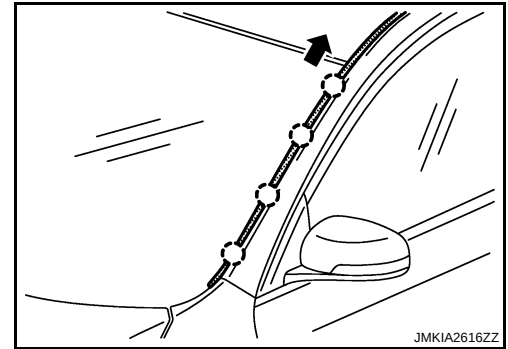


ROOF SIDE MOLDING

< ON-VEHICLE REPAIR >

3. Remove roof side molding after sliding it in the backward direction of the vehicle.

 : Clip



CAUTION:

The position of roof side molding front end fixing clip moves when removing roof side molding. Before removing the roof side molding, always check and mark the position of roof side molding front end fixing clip. Put matching marks between the molding and the roof side molding and the body side panel or the glass.

INSTALLATION

1. Reinstall roof side molding front end fixing clips that is removed from the vehicle to the matching mark position of the molding.
2. Align the matching mark positions of the molding and vehicle, and install from the front end to rear end.

CAUTION:

When installing, visually check the roof side molding and the clips, then replace them with new parts if they are damaged.

REMOVAL AND INSTALLATION OF ROOF SIDE MOLDING CLIP

Removal

1. Remove roof side molding. Refer to [EXT-29, "Removal and Installation"](#).
2. Heat adhesive tape interface using a dryer, and then peel roof side molding clips (body side) using long-nose pliers.

CAUTION:

Be careful not to damage the body.

Installation

1. Clean tape removed surface with a shop cloth soaked in white gasoline or IPA.
2. Use two-part epoxy adhesive.

Adhesive : 3M-weld DP-100 or equivalent

3. Apply adhesive evenly to clip tape surface.

Thickness : Approximately 0.5 mm (0.020 in)

4. Position applied parts to the proper location, and then sufficiently press-fit until the adhesive protrudes to tape side.

Press-fit limit : 19.6 N× 2 seconds

5. Tape clips after press fit, and temporarily hold it for specified time based on the following.

5 to 10°C (41 to 50°F) : 1 hour or more

11 to 23°C (52 to 73°F) : 30 minutes or more

24°C or more (75°F or more) : 15 minutes or more

6. Install from roof side molding rear end to front end in this order after temporarily holding.

CAUTION:

- Use double-faced adhesive tape after hardening for clips.
- Securely insert molding rear end cap onto roof rear end cutout (installation standard).

ROOF SIDE MOLDING

< ON-VEHICLE REPAIR >

- When installing roof side molding of windshield portion, check that molding fastener is securely inserted and then press in.
- Never wash the vehicle with in 24 hours so as to keep adhesive.

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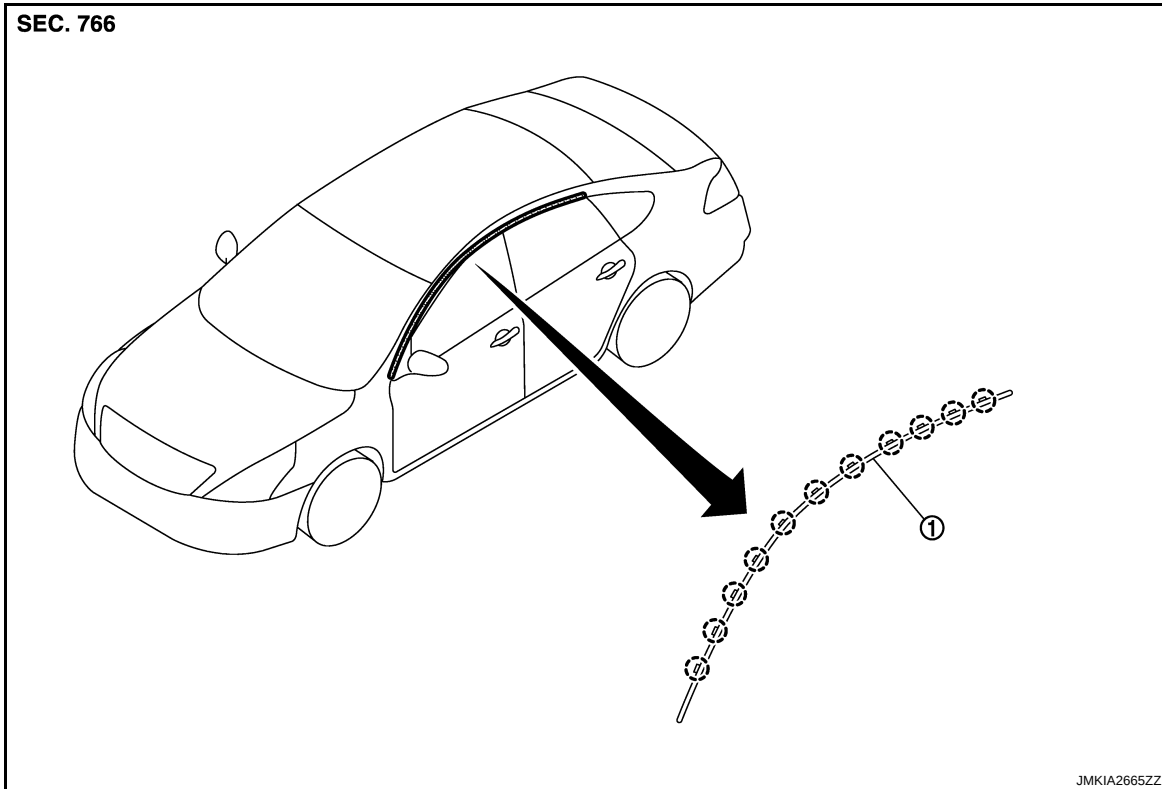
DRIP MOLDING

< ON-VEHICLE REPAIR >

DRIP MOLDING

Exploded View

INFOID:000000003894989



1. Drip molding

○ : Clip

Removal and Installation

INFOID:000000003894990

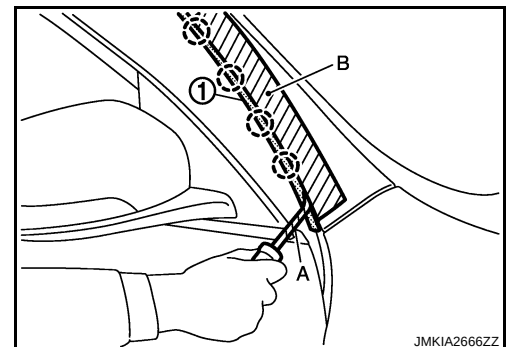
Removal

1. Fully open front door and rear door.
2. Remove drip molding (1) fixing clips from front end to rear end using remover tool (A).

CAUTION:

Apply protective tape (B) around the drip molding.

○ : Clip



Installation

Install in the reverse order of removal.

CAUTION:

When installing, check visually the drip molding and clips, then replace them with new parts if they are damaged.

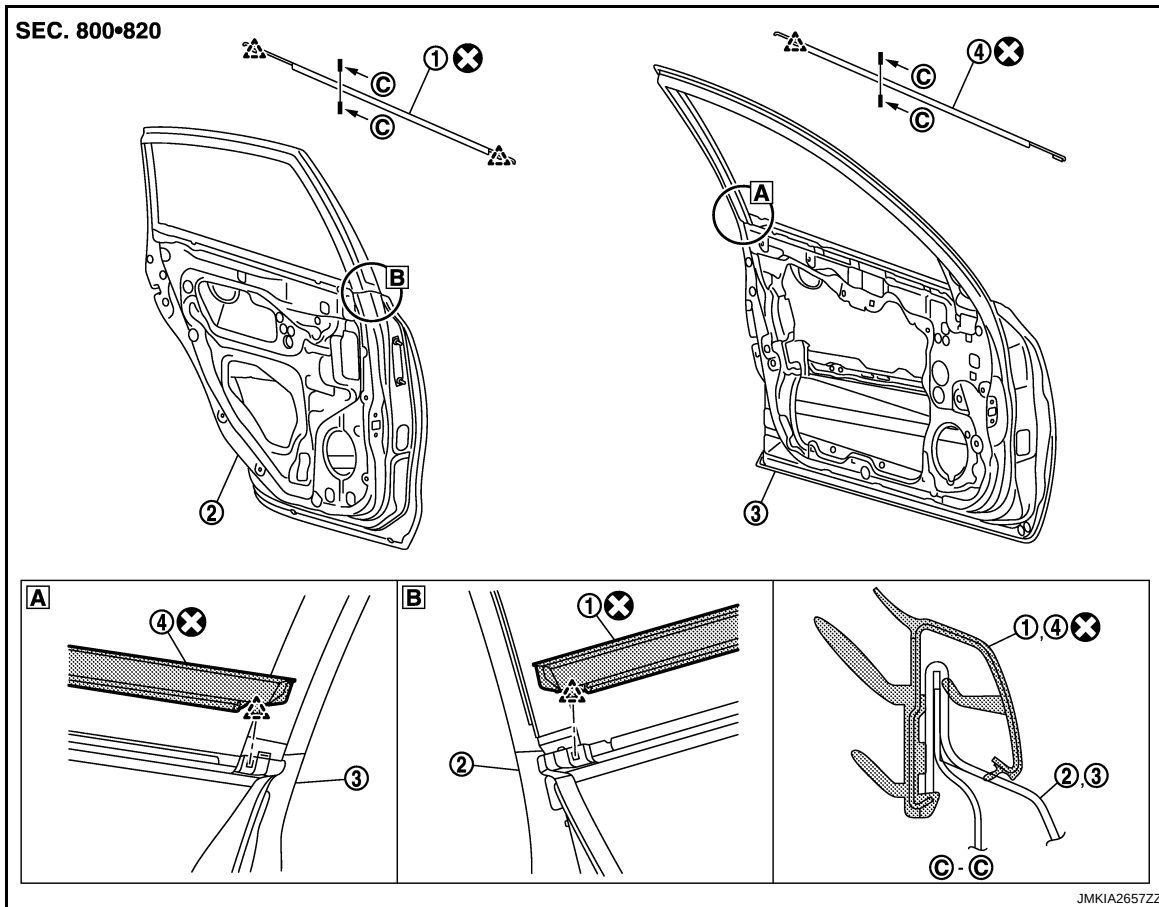
DOOR OUTSIDE MOLDING

< ON-VEHICLE REPAIR >

DOOR OUTSIDE MOLDING

Exploded View

INFOID:000000003819549



- 1. Rear door outside molding
- 2. Rear door panel
- 3. Front door panel
- 4. Front door outside molding

△ : Pawl

Refer to [GI-4, "Components"](#) for symbols in the figure.

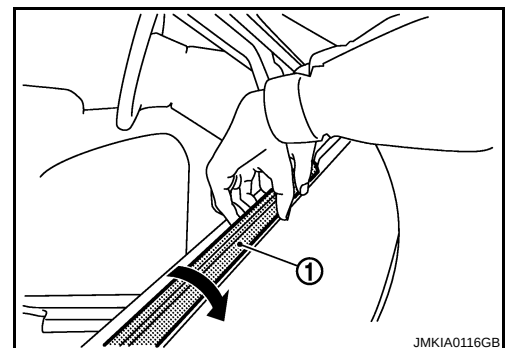
Removal and Installation

INFOID:000000003819550

REMOVAL

FRONT DOOR OUTSIDE MOLDING

1. Remove front door finisher. Refer to [INT-30, "DRIVER SIDE : Removal and Installation"](#).
2. Remove door mirror assembly. Refer to [MIR-15, "DOOR MIRROR ASSEMBLY : Removal and Installation"](#).
3. Twists and pull up to upper side, and then remove front door outside molding (1).

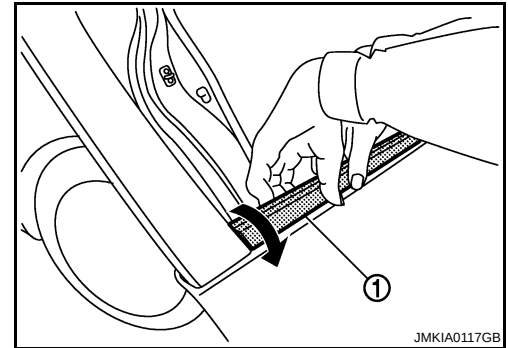


DOOR OUTSIDE MOLDING

< ON-VEHICLE REPAIR >

REAR DOOR OUTSIDE MOLDING

1. Remove rear door finisher. Refer to [INT-36, "Removal and Installation"](#).
2. Twists and pull up to upper side, and then remove rear door outside molding (1).



INSTALLATION

Install in the reverse order of removal.

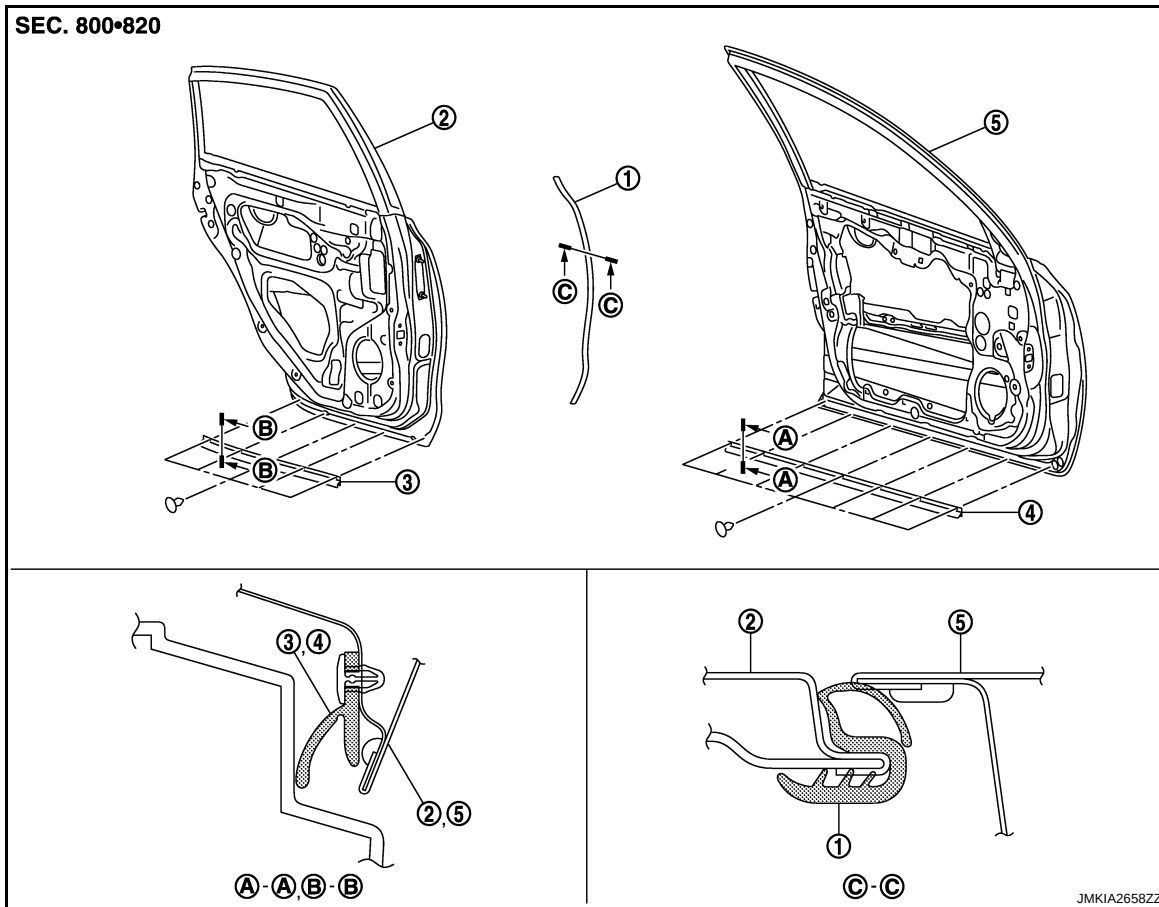
DOOR PARTING SEAL

< ON-VEHICLE REPAIR >

DOOR PARTING SEAL

Exploded View

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- | | | |
|--|---------------------|--|
| 1. Rear door parting seal (rear door front side) | 2. Rear door panel | 3. Rear door parting seal (rear door lower side) |
| 4. Front door parting seal | 5. Front door panel | |

Removal and Installation

INFOID:000000003819552

REMOVAL

FRONT DOOR PARTING SEAL

1. Fully open front door.
2. Remove front door parting seal fixing plastic clips.
3. Remove front door parting seal.

REAR DOOR PARTING SEAL (REAR DOOR LOWER SIDE)

1. Fully open rear door.
2. Remove rear door parting seal fixing plastic clips.
3. Remove rear door parting seal.

REAR DOOR PARTING SEAL (REAR DOOR FRONT SIDE)

1. Disengage rear door panel and rear parting seal (rear door front side), and then remove rear door parting seal (rear door front side).

INSTALLATION

Install in the reverse order of removal.

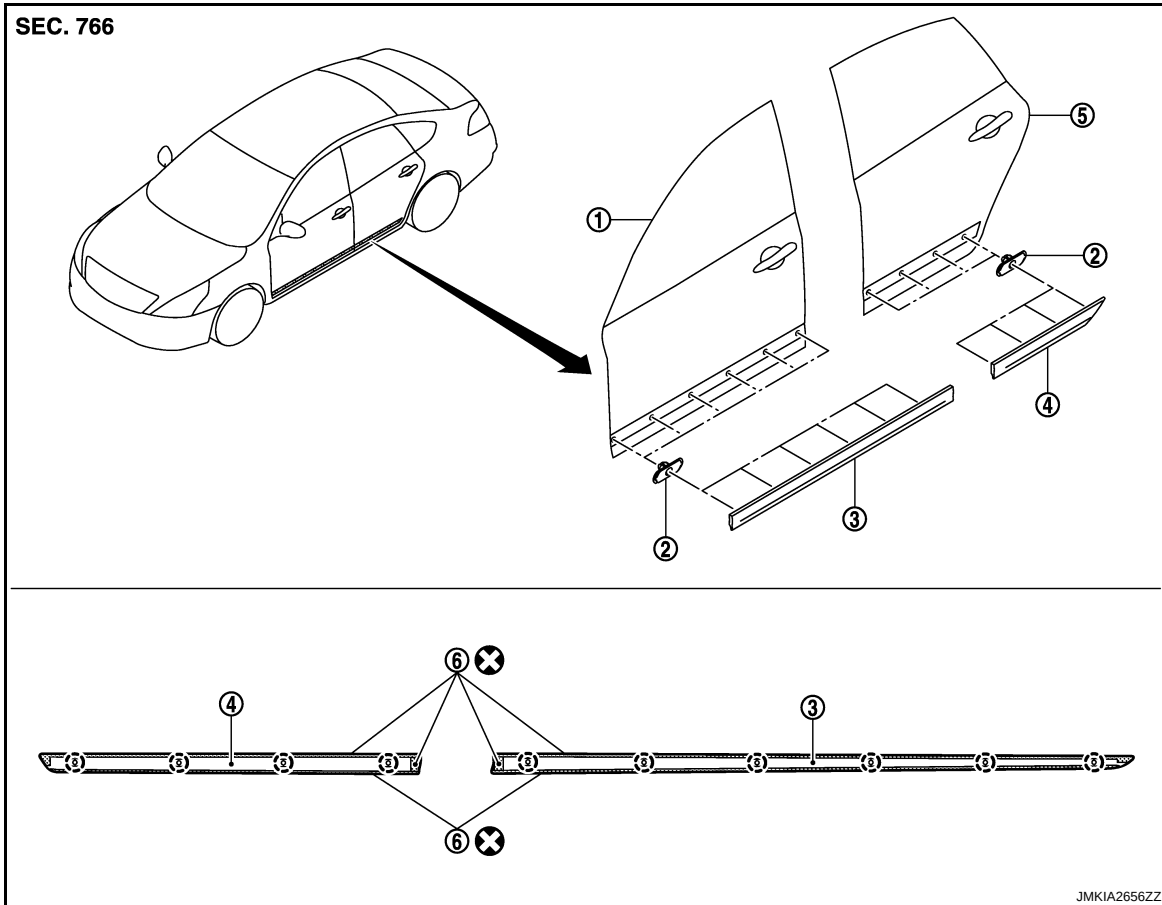
SIDE GUARD MOLDING

< ON-VEHICLE REPAIR >

SIDE GUARD MOLDING

Component Parts Location

INFOID:000000003869335



- | | | |
|------------------------------|----------------------------|-------------------------------|
| 1. Front door panel | 2. Side guard molding clip | 3. Side guard molding (front) |
| 4. Side guard molding (rear) | 5. rear door panel | 6. Double-faced adhesive tape |

○ : Clip

Refer to [GI-4. "Components"](#) of symbols in the figure.

Removal and Installation

INFOID:000000003869336

REMOVAL

1. Apply protection tape around outer circumference of side guard molding.
2. Remove double-faced adhesive tapes with (wide) resin spatula. Disengage clips and remove side guard molding (front / rear).

INSTALLATION

1. Remove double-faced adhesive tape remaining on vehicle.
2. Clean contact surface of vehicle (to side guard molding), and install side guard molding to specified holes.

NOTE:

To re-use side guard molding, follow above steps 1 and 2 as well; clean surface after removing double-faced adhesive tape, apply new double-faced adhesive tape and then install side guard molding to vehicle.

CAUTION:

- Never let air between contact surfaces when installing.
- To secure contact, never wash vehicle within 24 hours after installation.

SIDE GUARD MOLDING

< ON-VEHICLE REPAIR >

- When installing, visually check the side guard molding and the clips, then replace them with new parts if they are damaged.

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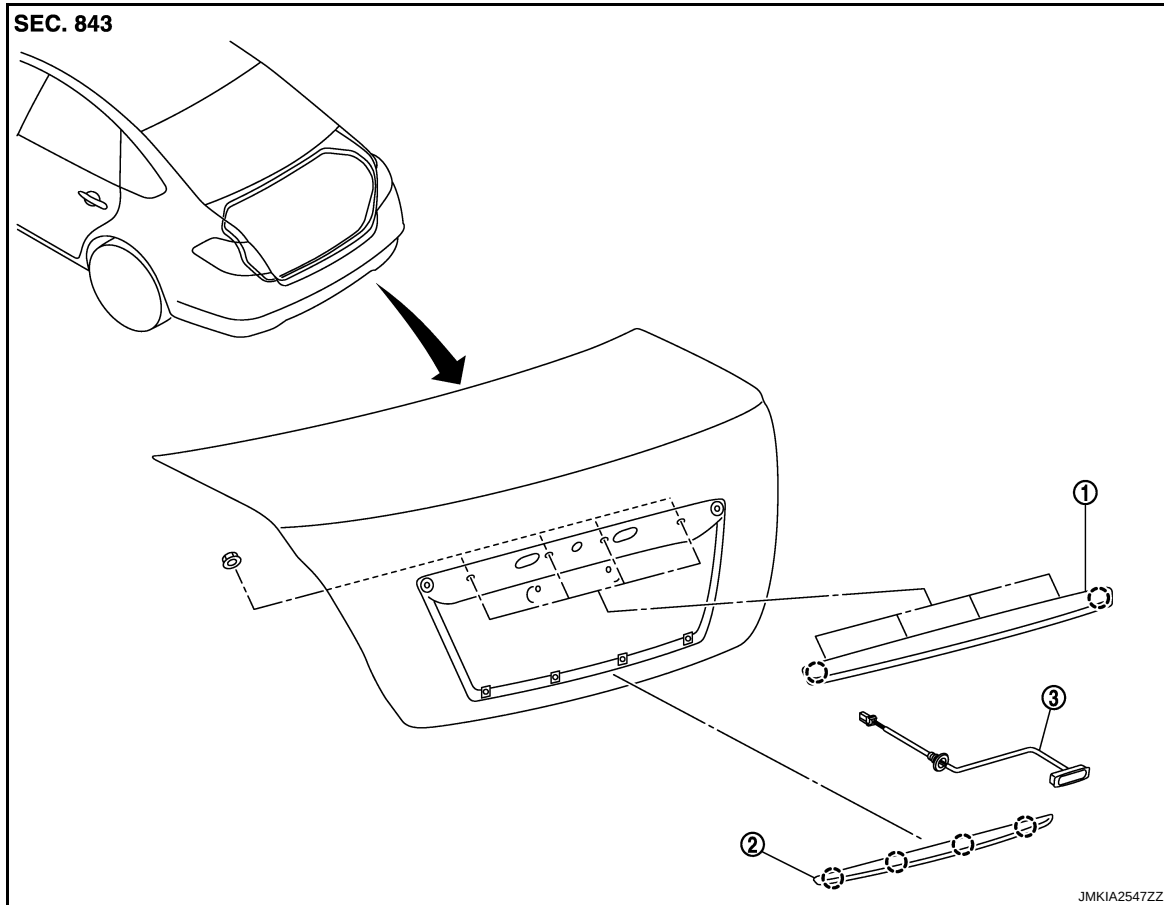
TRUNK LID FINISHER

< ON-VEHICLE REPAIR >

TRUNK LID FINISHER

Exploded View

INFOID:000000003819553



Removal and Installation

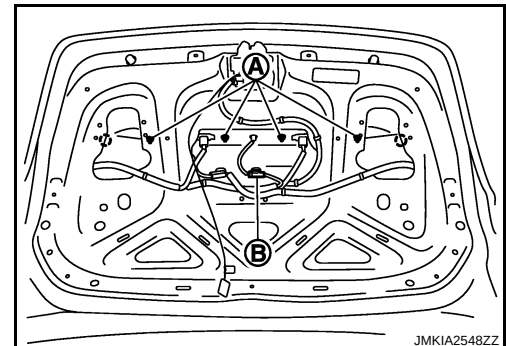
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REMOVAL

TRUNK LID FINISHER

1. Fully open trunk lid.
2. Remove trunk lid finisher inner. Refer to [INT-59, "Removal and Installation"](#).
3. Remove trunk lid finisher mounting nuts (A) and disconnect trunk opener request switch harness connector (B).
4. Disengage trunk lid finisher fixing clips.

○ : Clip



5. Remove trunk opener request switch. Refer to [DLK-242, "Exploded View"](#).

TRUNK LID FINISHER

< ON-VEHICLE REPAIR >

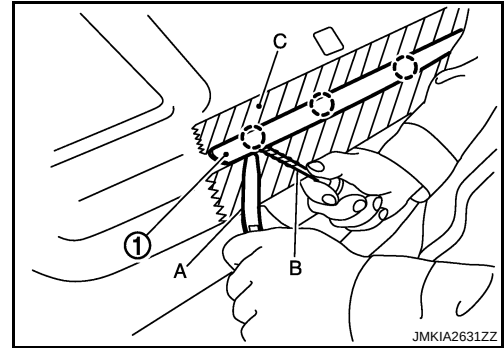
TRUNK LID MOLDING

1. Fully open trunk lid.
2. Remove trunk lid molding (1) fixing clips, using remover tool (A and B).

○ : Clip

CAUTION:

Apply a protective tape (C) on the trunk lid to protect the painted surface from damage.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

When installing, visually check the trunk lid molding and the clips, then replace them with new parts if are damaged.

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