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# SQUEAK AND RATTLE TROUBLE DIAGNOSES

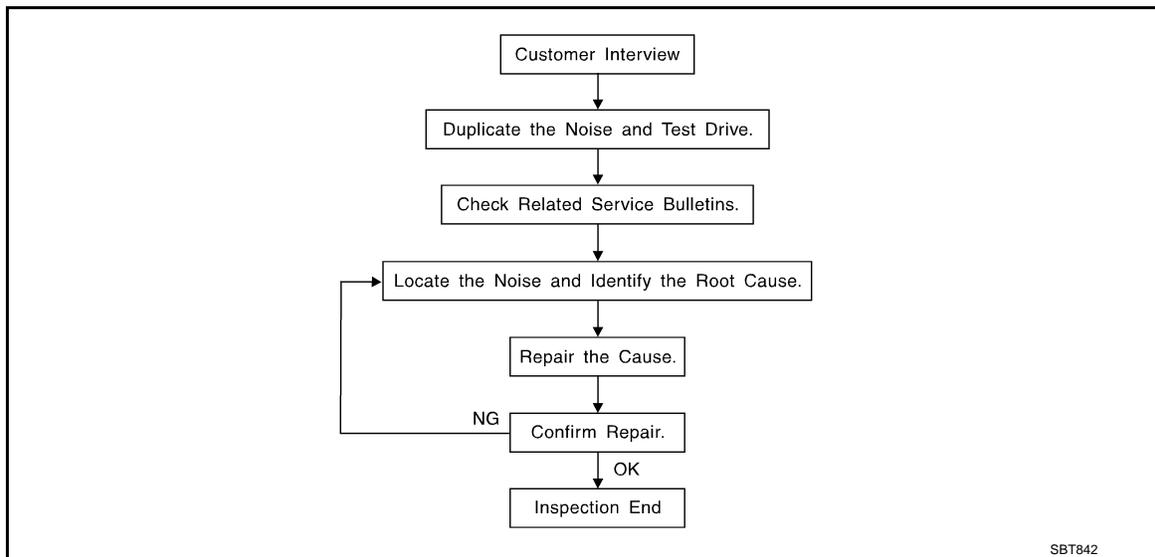
< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

## SYMPTOM DIAGNOSIS

### SQUEAK AND RATTLE TROUBLE DIAGNOSES

#### Work Flow



#### CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to [EXT-7, "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 cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)  
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)  
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)  
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)  
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)  
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)  
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumblebee)  
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician 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 >

[REGULAR GRADE]

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

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

- 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 that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

## LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and 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 are suspected to be the cause of the noise.  
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 is are suspected to be the cause of 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 are suspected to be the cause of the noise.
  - Looking for loose components and contact marks.  
Refer to [EXT-5. "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. A Nissan Squeak and Rattle Kit (J-43980) 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-43980). 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 (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02: 15 × 25 mm (0.59 × 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 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 be visible or does not fit. Will only last a few months.

SILICONE SPRAY

Used when grease cannot be applied.

DUCT TAPE

Used to eliminate movement.

## CONFIRM THE REPAIR

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

## 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 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. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) 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

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# SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

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

## 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

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's important to note the position the seats 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.

Cause of seat noise include:

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

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

## UNDERHOOD

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

Causes of transmitted underhood noise include:

1. Any component 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.

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

## Diagnostic Worksheet

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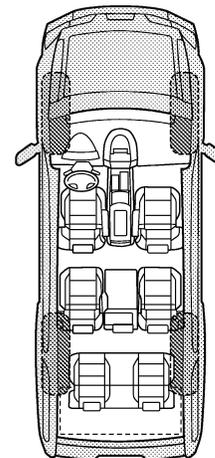
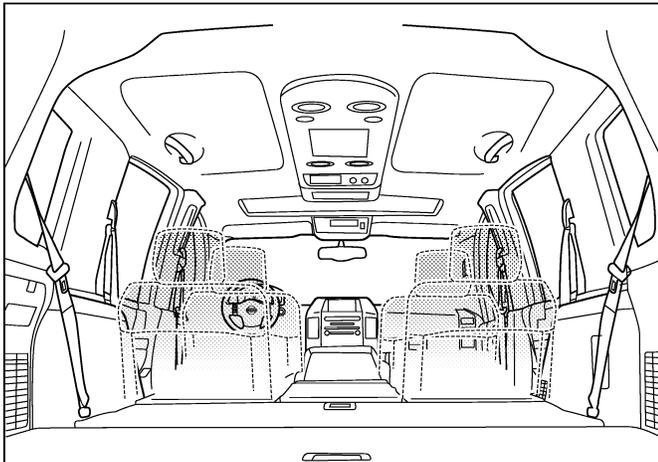
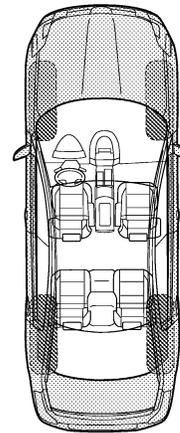
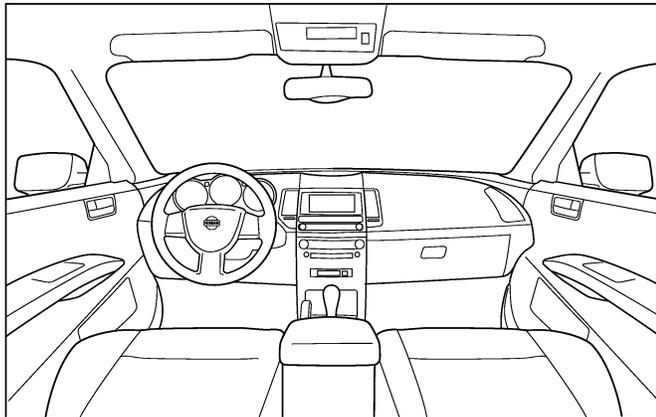
### SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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 >

[REGULAR GRADE]

## SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

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### 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:

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	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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PRECAUTION

PRECAUTIONS

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

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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:**

- 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 AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

**WARNING:**

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000005087421

EXT

**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.

## PRECAUTIONS

[REGULAR GRADE]

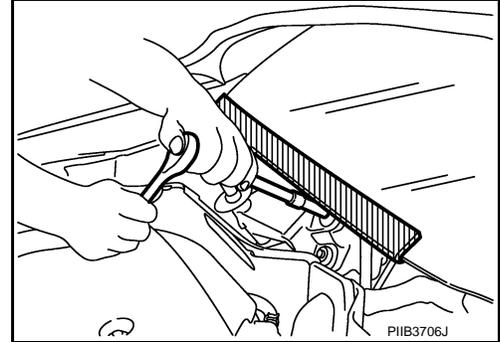
### < PRECAUTION >

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.

### Precaution for Procedure without Cowl Top Cover

INFOID:000000005087422

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



### Precaution for Work

INFOID:000000005087424

- 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 >

[REGULAR GRADE]

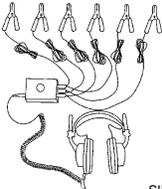
## PREPARATION

### PREPARATION

#### Special Service Tools

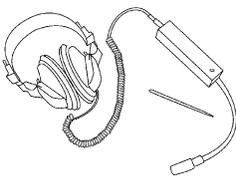
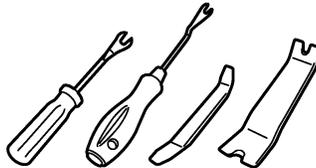
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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

	Tool number (Kent-Moore No.) Tool name	Description
(J-39570) Chassis ear	 <p>SIIA0993E</p>	Locates the noise
(J-43980) NISSAN Squeak and Rattle Kit	 <p>SIIA0994E</p>	Repairs the cause of noise

#### Commercial Service Tools

INFOID:000000005087426

	Tool name	Description
Engine ear	 <p>SIIA0995E</p>	Locates the noise
Remover tool	 <p>JMKIA3050ZZ</p>	Removes clips, pawls, and metal clips
Power tool	 <p>PIIB1407E</p>	

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# FRONT BUMPER

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

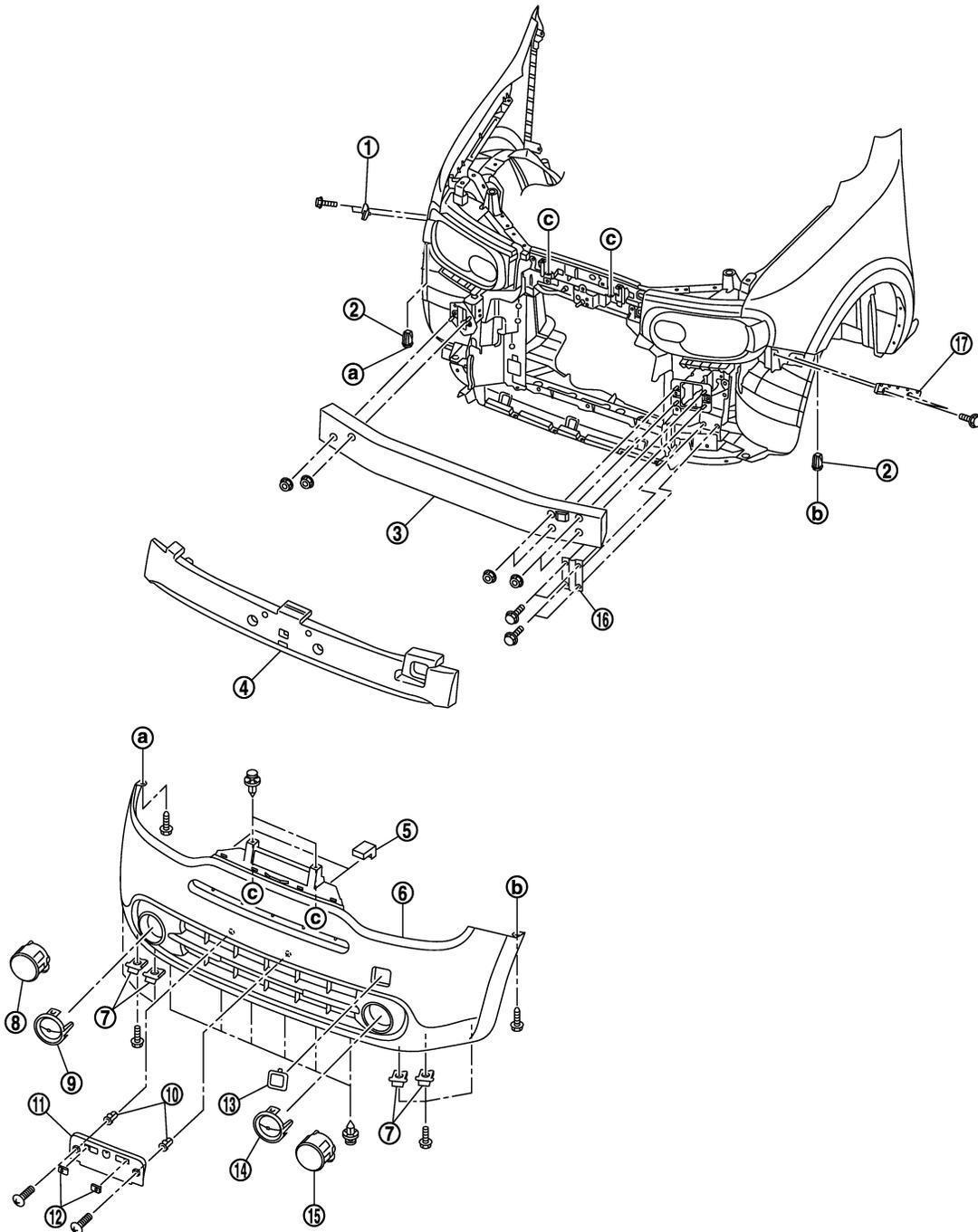
## REMOVAL AND INSTALLATION

### FRONT BUMPER

Exploded View

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SEC. 620



JMKIA4087ZZ

# FRONT BUMPER

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

- |                              |                            |                         |
|------------------------------|----------------------------|-------------------------|
| 1. Bumper side bracket RH    | 2. Grommet                 | 3. Bumper reinforcement |
| 4. Bumper energy absorber    | 5. Spacer                  | 6. Bumper fascia        |
| 7. J nut                     | 8. Front fog lamp RH       | 9. Bumper finisher RH   |
| 10. Screw grommet            | 11. License plate bracket  | 12. J nut               |
| 13. Bumper bracket cover     | 14. Bumper finisher LH     | 15. Front fog lamp LH   |
| 16. Radiator core lower stay | 17. Bumper side bracket LH |                         |

## Removal and Installation

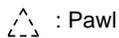
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### REMOVAL

#### CAUTION:

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

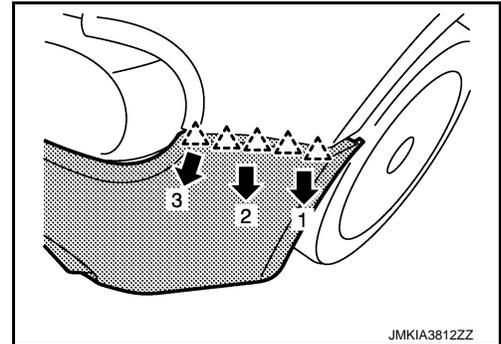
1. Fully open hood assembly.
2. Remove front grille. Refer to [EXT-18. "Removal and Installation"](#).
3. Remove fender protector fixing clips and screws to access bumper fascia assembly fixing screw, and then remove bumper fascia assembly fixing screws (LH/RH).
4. Remove bumper fascia assembly lower side fixing bolts and clips.
5. Pull bumper fascia assembly side toward the vehicle side as shown by the arrows in the figure, and then disengage bumper fascia assembly from bumper side brackets (LH/RH).



: Pawl

#### CAUTION:

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



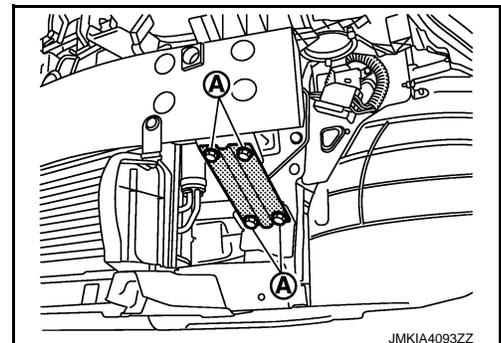
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6. Disconnect front fog lamp harness connectors (LH/RH).
7. Remove bumper fascia assembly.

#### CAUTION:

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

8. Remove the following parts after removing bumper fascia.
  - License plate bracket
  - Front bumper side brackets (LH/RH)
  - Front bumper finishers (LH/RH) (without front fog lamp models)
  - Fog lamps (LH/RH). Refer to [EXL-208. "Removal and Installation"](#).
  - Bumper spacers
9. Remove bumper energy absorber.
10. Remove bumper reinforcement.
  - Remove radiator core lower stay mounting bolts (A), and then remove radiator core lower stay.



JMKIA4093ZZ

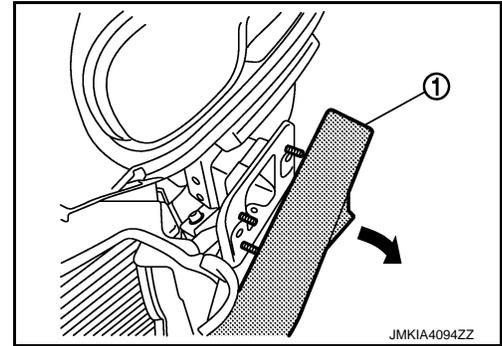
- Remove bumper reinforcement fixing nuts.
- Partially remove bumper reinforcement right side.

# FRONT BUMPER

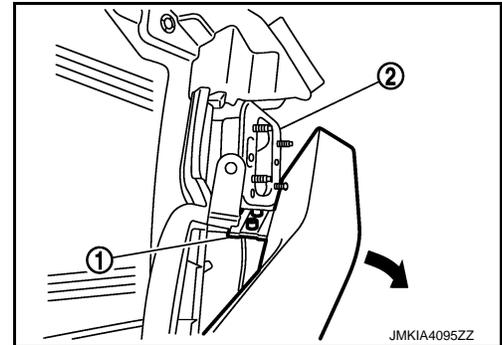
## < REMOVAL AND INSTALLATION >

[REGULAR GRADE]

- Tilt bumper reinforcement (1) as shown by the arrow in the figure, and then partially remove bumper reinforcement left side.



- Tilt and remove bumper reinforcement, so that bumper reinforcement bracket (1) does not interfere to bumper stay (2) as shown in the figure.

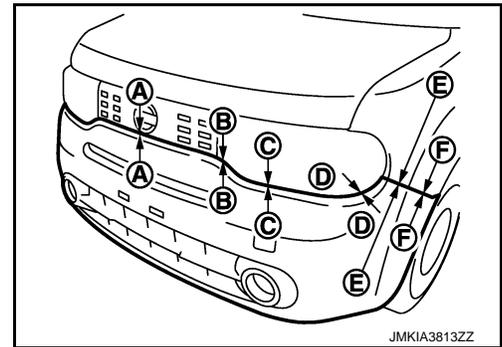


## INSTALLATION

Install in the reverse order of removal.

### NOTE:

After installing, perform fitting adjustment.



Portion		Clearance	Surface height difference
Front bumper – Front grille	A – A	0.1 – 3.0 mm (0.039 – 0.118 in)	—
	B – B	0.0 – 3.0 mm (0.000 – 0.118 in)	—
Front bumper – Headlamp	C – C	0.3 – 3.3 mm (0.012 – 0.130 in)	—
	D – D	0.2 – 3.2 mm (0.008 – 0.126 in)	—
Front bumper – Front fender	E – E	0.0 – 0.8 mm (0.000 – 0.031 in)	- 0.3 – 1.7 mm (- 0.012 – 0.067 in)
	F – F	0.0 – 0.8 mm (0.000 – 0.031 in)	- 0.3 – 1.7 mm (- 0.012 – 0.067 in)

# REAR BUMPER

< REMOVAL AND INSTALLATION >

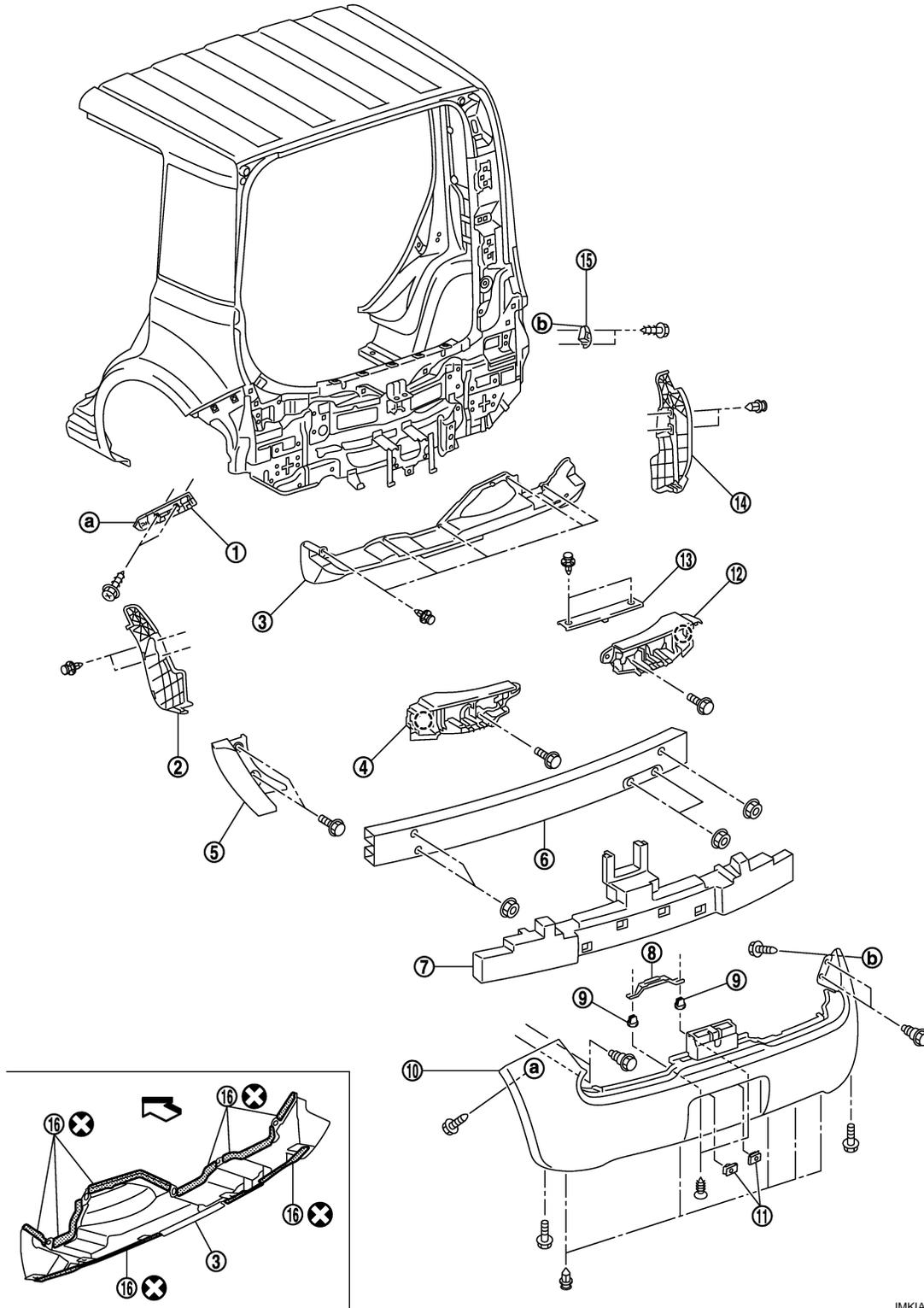
[REGULAR GRADE]

## REAR BUMPER

Exploded View

INFOID:000000005087467

SEC. 850



JMKIA4088ZZ

- |                           |                         |                         |
|---------------------------|-------------------------|-------------------------|
| 1. Bumper side bracket LH | 2. Bumper closing LH    | 3. Rear panel lower     |
| 4. Bumper bracket LH      | 5. Rear fender cover    | 6. Bumper reinforcement |
| 7. Bumper energy absorber | 8. License lamp bracket | 9. Grommet              |

# REAR BUMPER

## < REMOVAL AND INSTALLATION >

[REGULAR GRADE]

- |                                    |                       |                            |
|------------------------------------|-----------------------|----------------------------|
| 10. Bumper fascia                  | 11. J nut             | 12. Bumper bracket RH      |
| 13. Rear bumper cover              | 14. Bumper closing RH | 15. Bumper side bracket RH |
| 16. EPT sealer [3.0 mm (0.118 in)] |                       |                            |

↶ : Vehicle front

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

## Removal and Installation

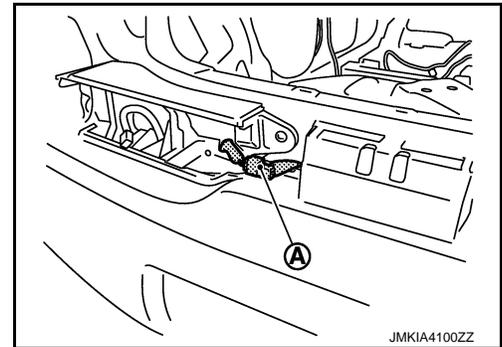
INFOID:000000005087468

### REMOVAL

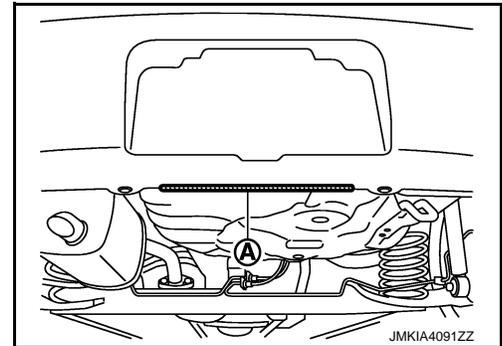
#### CAUTION:

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

1. Fully open back door.
2. Remove rear bumper cover.
3. Remove back door finisher and rear combination lamp (LH/RH). Refer to [EXL-215, "Removal and Installation"](#).
4. Remove rear fender cover.
5. Disconnect harness connector (A).

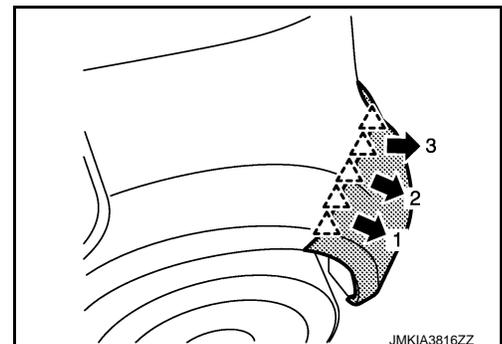


6. Remove bumper fascia upper mounting bolts (LH/RH).
7. Remove bumper fascia lower fixing clips.
8. Remove bumper fascia both ends fixing screws.
9. Disengage bumper fascia and rear panel lower connecting portion (A).



10. Pull bumper fascia assembly toward the vehicle out side as shown by the arrows in the figure, and then disengage the bumper fascia assembly from bumper side brackets (LH/RH).

△ : Pawl



# REAR BUMPER

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

11. Remove bumper fascia assembly.

**CAUTION:**

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

12. Remove the following parts after removing bumper fascia.

- Rear side marker lamps (LH/RH). Refer to [EXL-218, "Removal and Installation"](#).
- Sonar sensor (if equipped). Refer to [SN-33, "CORNER SENSOR : Removal and Installation"](#).
- Bumper closings (LH/RH)
- Bumper side brackets (LH/RH)
- Bumper sub harness

13. Remove bumper energy absorber.

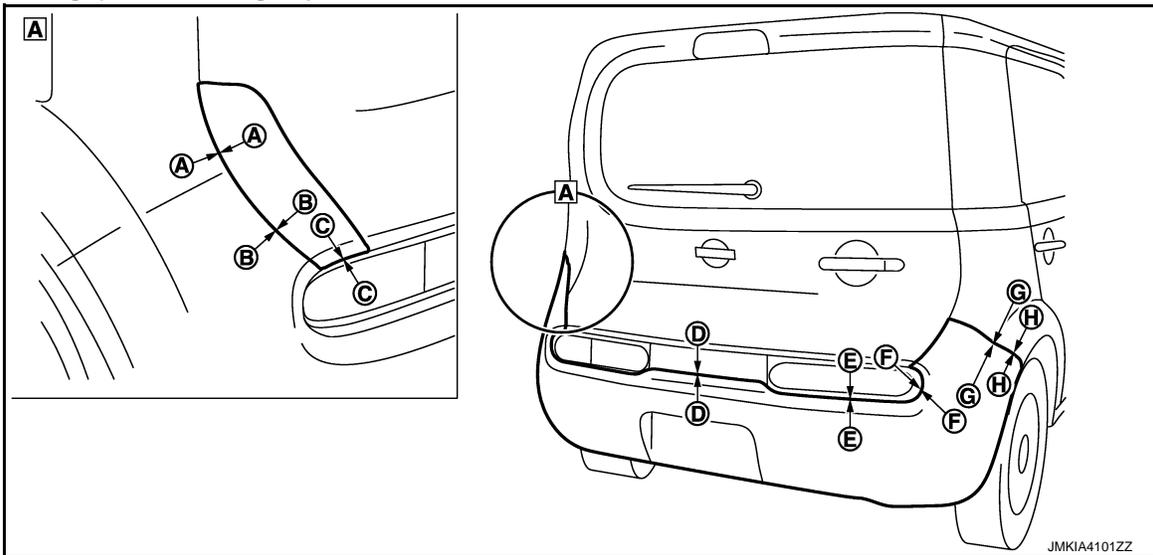
14. Remove bumper reinforcement mounting nuts, and then remove bumper reinforcement with power tool.

## INSTALLATION

Install in the reverse order of removal.

**NOTE:**

After installing, perform fitting adjustment.



Portion		Clearance	Surface height difference
Rear fender cover – Rear fender	A – A	0.0 – 1.0 mm (0.000 – 0.039 in)	- 0.5 – 1.9 mm (- 0.020 – 0.075 in)
Rear fender cover – Rear bumper	B – B	0.0 – 1.0 mm (0.000 – 0.039 in)	- 1.3 – 1.3 mm (- 0.051 – 0.051 in)
Rear fender cover – Rear combination lamp	C – C	5.4 – 8.6 mm (0.213 – 0.339 in)	—
Rear bumper – Back door finisher	D – D	0.4 – 3.6 mm (0.016 – 0.142 in)	—
Rear fender cover – Rear combination lamp	E – E	0.5 – 3.5 mm (0.020 – 0.138 in)	—
	F – F	2.0 – 5.0 mm (0.079 – 0.197 in)	—
Rear bumper – Rear fender	G – G	0.0 – 0.9 mm (0.000 – 0.035 in)	- 0.3 – 1.7 mm (- 0.012 – 0.067 in)
	H – H	0.0 – 0.9 mm (0.000 – 0.035 in)	- 0.3 – 1.7 mm (- 0.012 – 0.067 in)

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EXT

# FRONT GRILLE

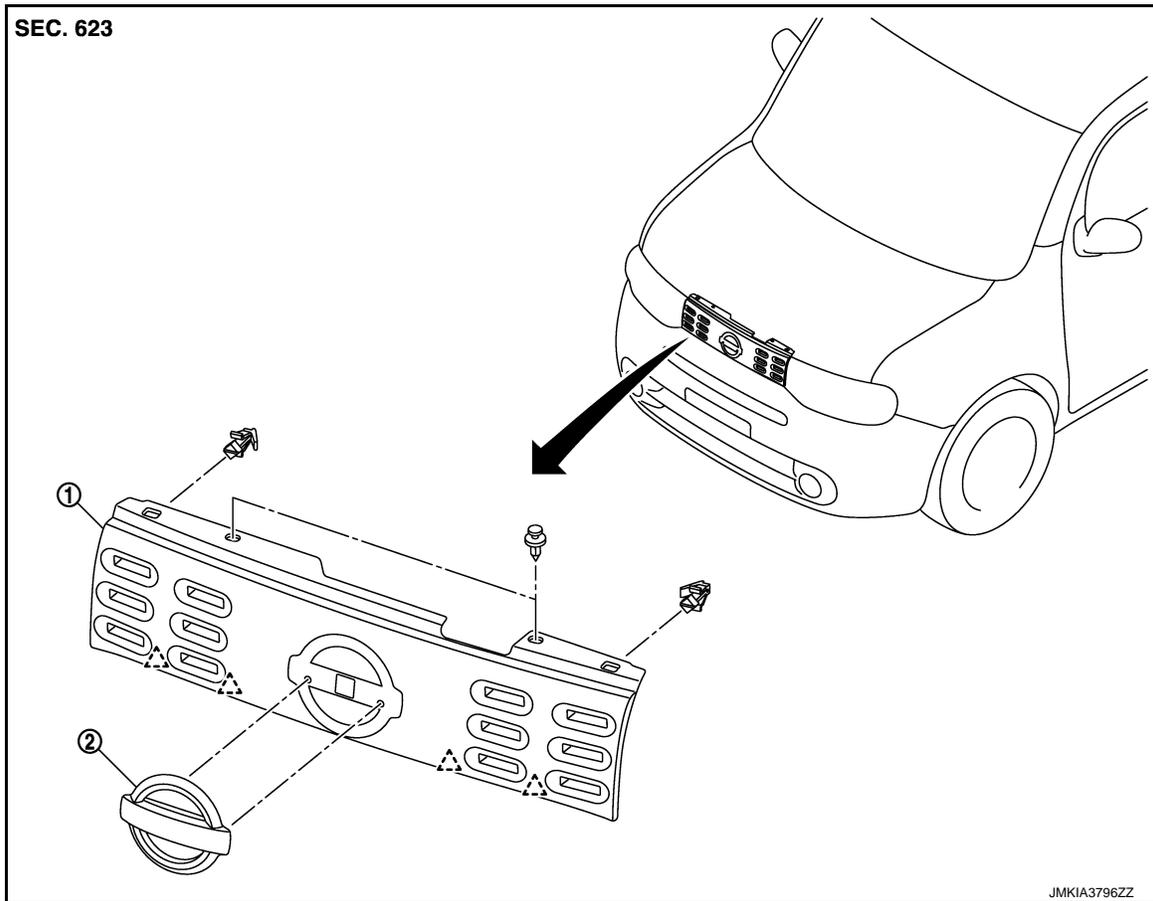
< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

## FRONT GRILLE

Exploded View

INFOID:000000005087469



1. Front grille

2. Front emblem

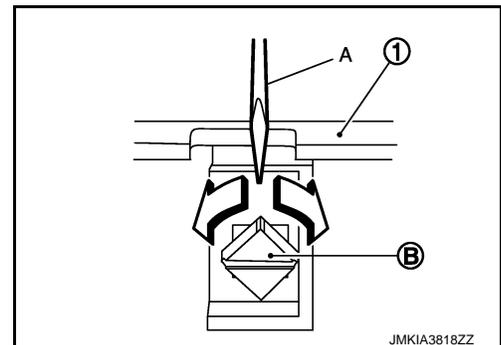
△ : Pawl

## Removal and Installation

INFOID:000000005087470

### REMOVAL

1. Fully open hood.
2. Remove front grille upper side fixing clips.
3. Disengage front grille mounting clips (B) by rotating 45° using a flat-bladed screwdriver (A) through access hole of front grille (1) upper while pulling front grill toward vehicle front.



4. Remove bumper fascia upper fixing clips.
5. Disengage front grille fixing pawls from back side of front grille while pull front grille horizontally toward vehicle front, and then remove front grille.

# FRONT GRILLE

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

6. Remove the front emblem after removing front grille.

## INSTALLATION

Install in the reverse order of removal.

A

B

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# COWL TOP

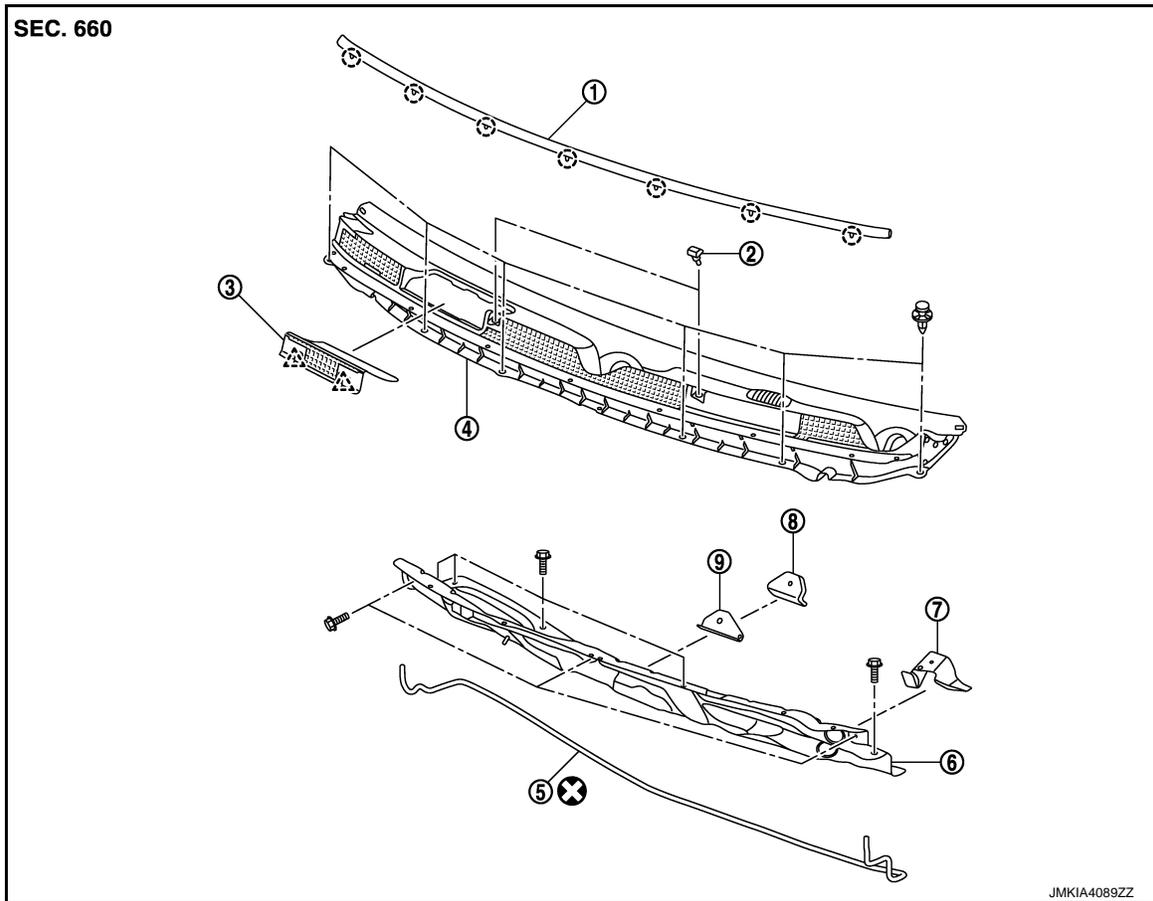
< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

## COWL TOP

Exploded View

INFOID:000000005087471



- |                        |                                   |                              |
|------------------------|-----------------------------------|------------------------------|
| 1. Cowl top cover seal | 2. Washer nozzle                  | 3. Cowl top cover cap        |
| 4. Cowl top cover      | 5. EPT sealer [3.0 mm (0.118 in)] | 6. Cowl top extension        |
| 7. Wiper motor bracket | 8. Wiper pivot bracket rear       | 9. Wiper pivot bracket front |

○ : Clip

△ : Pawl

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

## Removal and Installation

INFOID:000000005087472

### REMOVAL

1. Fully open hood assembly.
2. Remove front wiper arm, and blades (LH/RH). Refer to [WW-146, "Removal and Installation"](#).
3. Remove front fender cover. Refer to [DLK-183, "Removal and Installation"](#).
4. Remove cowl top cover fixing clips.

# COWL TOP

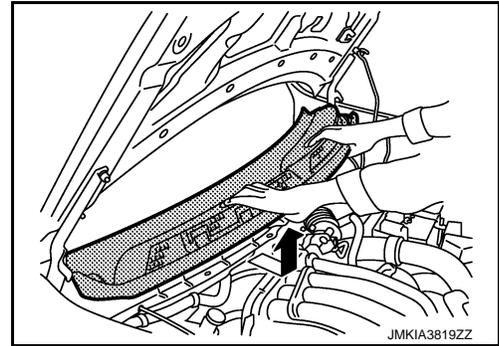
## < REMOVAL AND INSTALLATION >

[REGULAR GRADE]

5. Pull forward to release cowl top cover from windshield glass.

**CAUTION:**

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



6. Disconnect wind washer tube connector.
7. Remove cowl top cover.
8. Remove the following parts after removing cowl top cover.
- EPT sealer
  - Cowl top cover seal
  - Washer tube
  - Washer nozzles. Refer to [WW-143. "Removal and Installation"](#).
9. Remove front wiper drive assembly. Refer to [WW-148. "Removal and Installation"](#).
10. Remove cowl top extension mounting bolts, and them cowl top extension.

## INSTALLATION

Install in the reverse order of removal.

**CAUTION:**

- Always replace cowl top cover EPT sealer on rear of vehicle with a new one when installing old cowl top cover.
- After installing, perform adjustment of wiper arm. Refer to [WW-146. "Adjustment"](#).

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EXT

# FENDER PROTECTOR

< REMOVAL AND INSTALLATION >

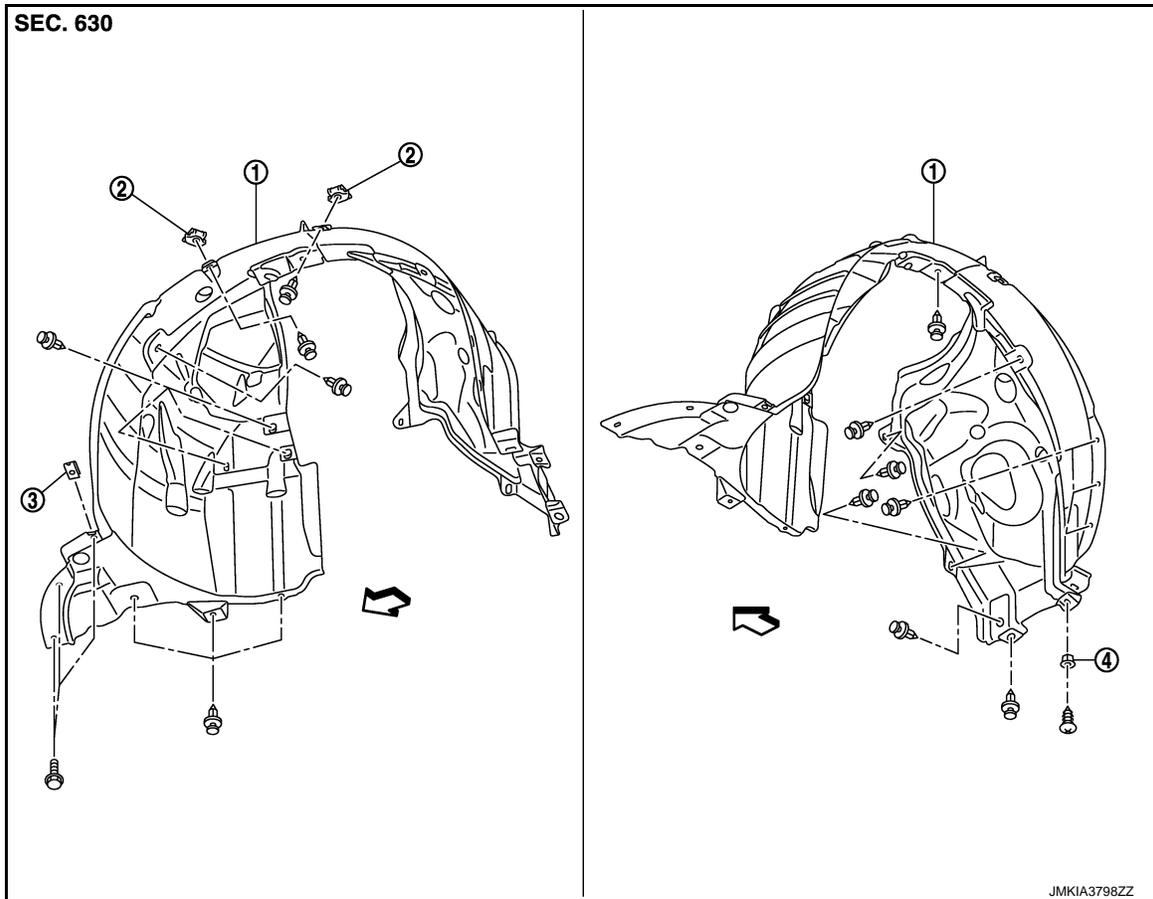
[REGULAR GRADE]

## FENDER PROTECTOR

## FENDER PROTECTOR

## FENDER PROTECTOR : Exploded View

INFOID:000000005087473



1. Fender protector

2. Fender clip

3. J nut

4. Grommet

↶ : Vehicle front

## FENDER PROTECTOR : Removal and Installation

INFOID:000000005087474

### REMOVAL

1. Remove front tire.
2. Remove front fender protector fixing screws, bolts and clips.
3. Disengage fender clips and fender protector, and then remove fender protector.

### INSTALLATION

Install in the reverse order of removal.



# ROOF SIDE MOLDING

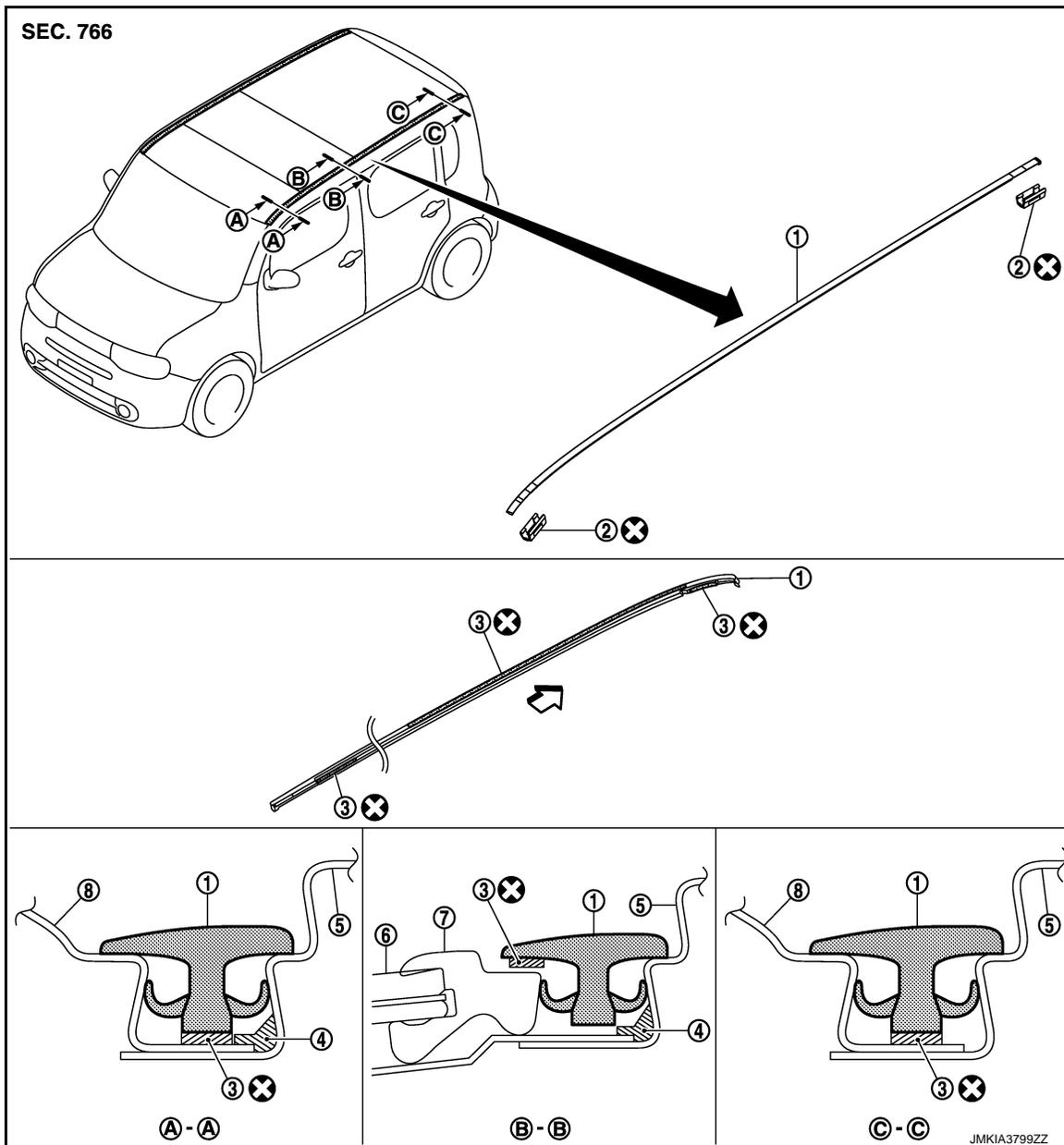
< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

## ROOF SIDE MOLDING

Exploded View

INFOID:000000005087485



- |                      |                           |   |
|----------------------|---------------------------|---|
| 1. Roof side molding | 2. Roof side molding clip | 3. Double-faced adhesive tape [1.2 mm (0.047 in)] |
| 4. Paint sealant     | 5. Body side outer panel  | 6. Stylish glass                                  |
| 7. Glass molding     | 8. Roof panel             |   |

↶ : Vehicle front

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

## Removal and Installation

INFOID:000000005087486

### REMOVAL

# ROOF SIDE MOLDING

## < REMOVAL AND INSTALLATION >

[REGULAR GRADE]

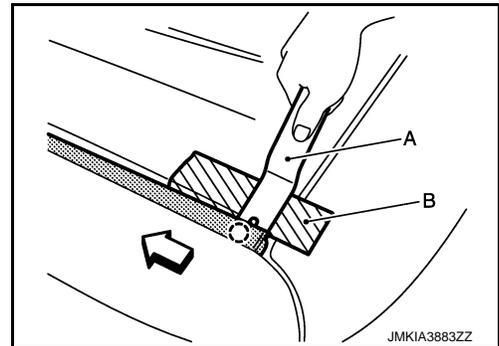
1. Disengage roof side molding clip and roof side molding from rear end, using remover tool (A).

○ : Clip

⇐ : Vehicle front

### CAUTION:

- Apply protective tape (B) on body to protect the painted surface from damage.
- Never use an item as a remover tool that could damage body panel.

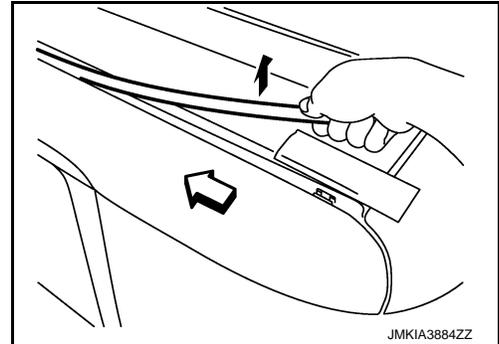


2. Remove roof side molding as shown by the arrow in the figure.

### CAUTION:

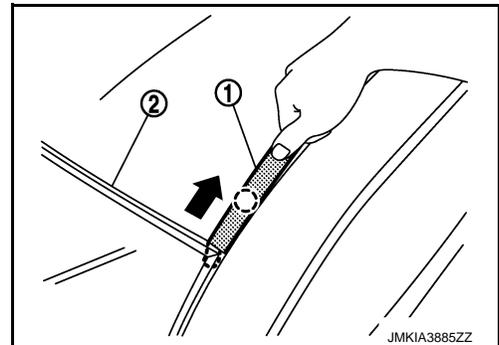
Never pull the roof side molding strongly.

⇐ : Vehicle front



3. Pull out and remove the front end of roof side molding (1) towards vehicle rear after disengaging clip, because the front end is located under the windshield molding (2).

○ : Clip



## INSTALLATION

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

## REMOVAL AND INSTALLATION OF ROOF SIDE MOLDING CLIP

### Removal

1. Remove roof side molding.
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.

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## ROOF SIDE MOLDING

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

---

**Press-fit limit : 19.6 N (2.0 Kg - 4.41 lb) × 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).
- 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.

# DOOR OUTSIDE MOLDING

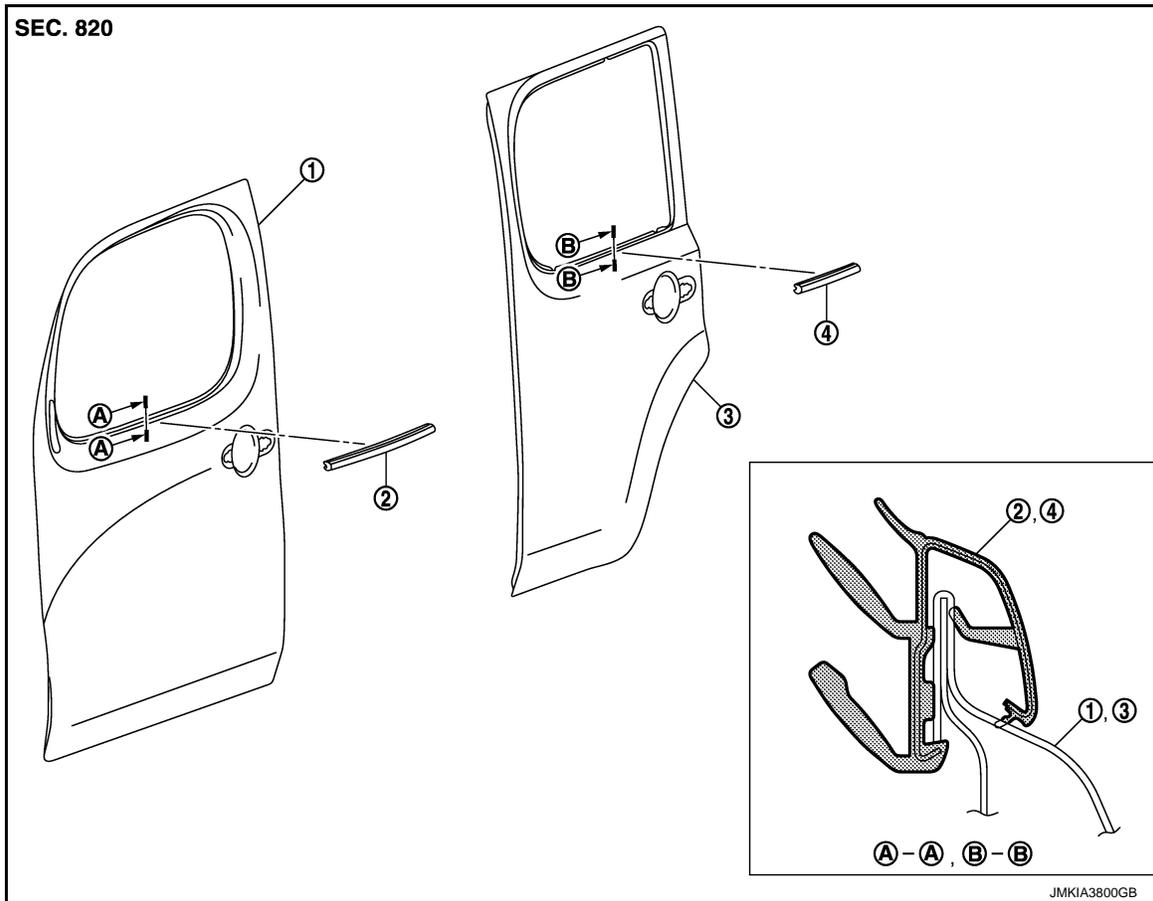
< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

## DOOR OUTSIDE MOLDING

Exploded View

INFOID:000000005087489



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

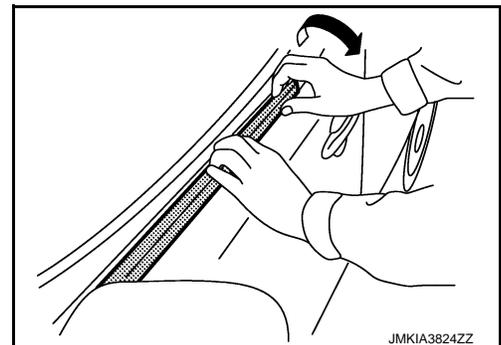
## Removal and Installation

INFOID:000000005087490

### REMOVAL

#### FRONT DOOR OUTSIDE MOLDING

1. Fully open front door glass.
2. Twist door outside molding toward the outside of the vehicle, and then lift up and remove it while disengaging the pawls.



#### REAR DOOR OUTSIDE MOLDING

1. Fully open door window.

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EXT

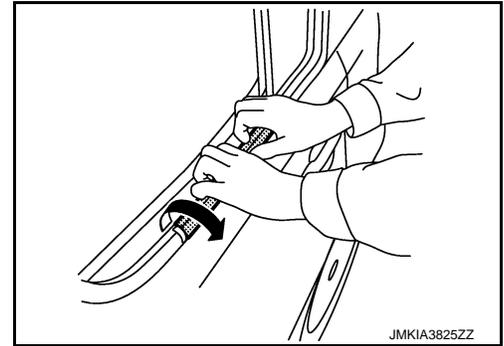
L  
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## DOOR OUTSIDE MOLDING

### < REMOVAL AND INSTALLATION >

[REGULAR GRADE]

2. Twist door outside molding to ward the outside of the vehicle, and then lift up and remove it while disengaging the pawls.



### INSTALLATION

Install in the reverse order of removal.

# REAR PILLAR FINISHER

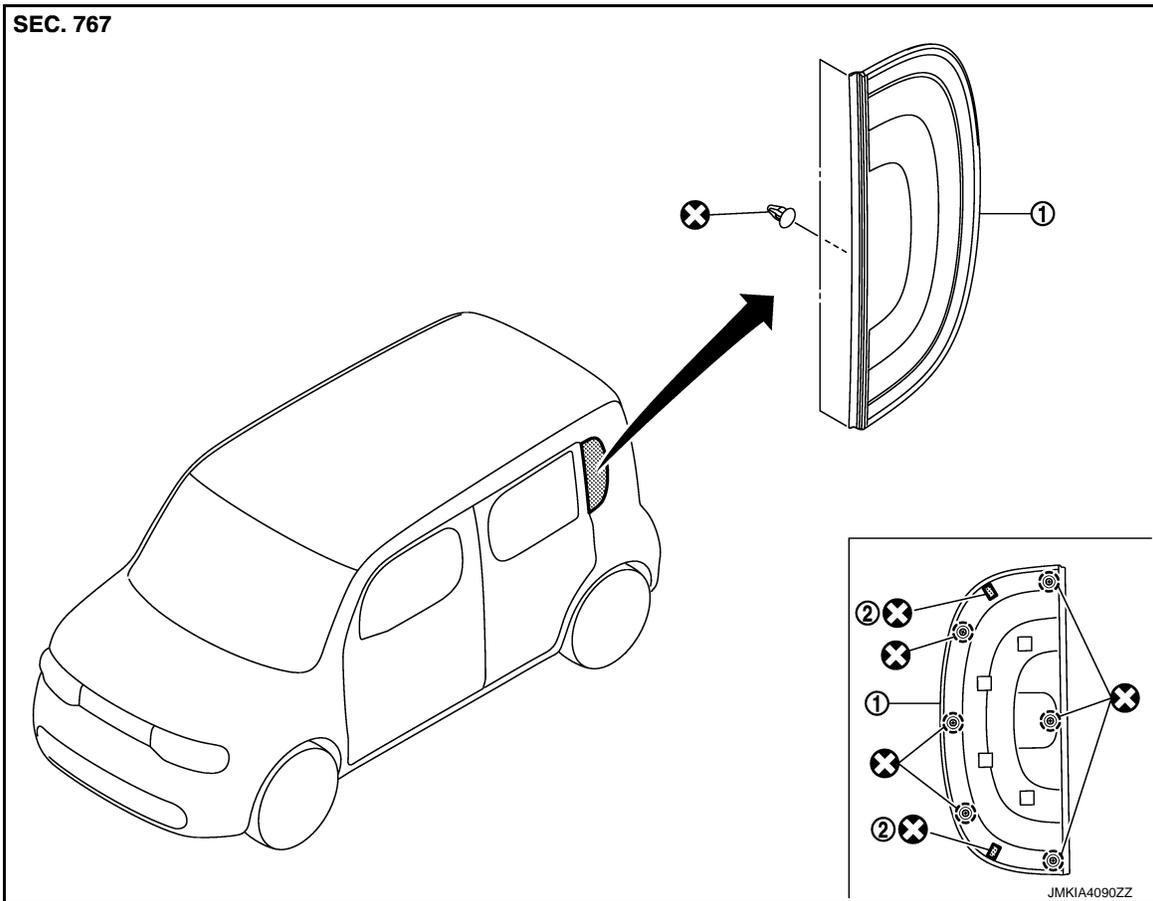
< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

## REAR PILLAR FINISHER

Exploded View

INFOID:000000005116384



1. Rear pillar finisher
2. Double-faced adhesive tape [1.2 mm (0.047 in)]

 : Clip

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

## Removal and Installation

INFOID:000000005116385

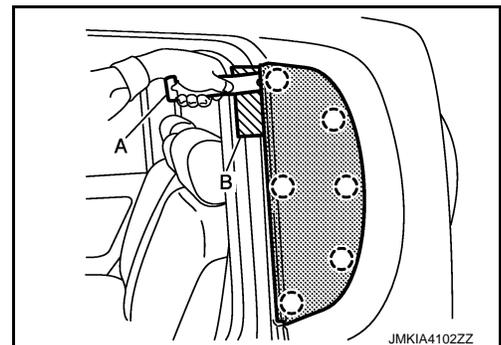
### REMOVAL

Disengage rear pillar finisher fixing clips using remover tool (A), and then remove rear pillar finisher.

 : Clip

### CAUTION:

Apply protective tape (B) to the body side to protect from damage.



### INSTALLATION

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

### CAUTION:

- Always replace double-faced adhesive tape and dips with a new one, if rear pillar finisher is reused.

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## REAR PILLAR FINISHER

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

- When installing rear pillar finisher, check that clips are securely fitted in rear pillar panel holes, and then press them in.

# FRONT BUMPER

< SPEC CHANGE INFORMATION >

[Krom]

## SPEC CHANGE INFORMATION

### FRONT BUMPER

Paint and Adhesive Tape

INFOID:000000005156145

### PAINT COLOR

Location	Body color			
Front bumper fascia	QX1	K21	KH3	L50

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# REAR BUMPER

< SPEC CHANGE INFORMATION >

[Krom]

## REAR BUMPER

Paint and Adhesive Tape

INFOID:000000005156146

### PAINT COLOR

Location	Body color			
Rear bumper fascia	QX1	K21	KH3	L50

# SIDE SILL EXTENSIONS

< SPEC CHANGE INFORMATION >

[Krom]

## SIDE SILL EXTENSIONS

Paint and Adhesive Tape

INFOID:000000005156147

PAINT COLOR

Location	Body color			
Side sill extension	QX1	K21	KH3	L50

**CAUTION:**

- When painting, mask the Adhesive tape sealer area on the back of the side sill extension to keep the paint off of it. Be sure to remove the masking tape before artificial drying.
- Use environmentally friendly paint and adhesive tape.
- It is ok to use natural drying, but for artificial drying, be careful not to allow the ambient air temperature at the paint surface to exceed 176°F. If the drying temperature exceeds 176°F, it could cause plastic parts to deform or adhesives to come loose.

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EXT

# REAR ROOF SPOILER

< SPEC CHANGE INFORMATION >

[Krom]

## REAR ROOF SPOILER

Paint and Adhesive Tape

INFOID:000000005156148

### PAINT COLOR

Location	Body color			
Rear roof spoiler	QX1	K21	KH3	L50

#### CAUTION:

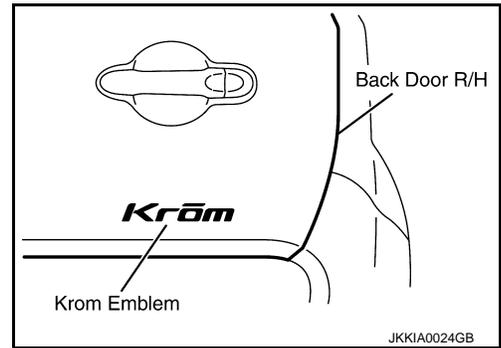
- Use environmentally friendly paint and adhesive tape.
- Natural drying is an acceptable method for drying, but for artificial drying, be careful not to allow the ambient air temperature at the paint surface to exceed 176°F. If the drying temperature exceeds 176°F, it could cause plastic parts to deform or adhesives to come loose.

EMBLEM

Krom EMBLEM

- The Krom EMBLEM is used on the back door R/H.

INFOID:000000005156133



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EXT

# RADIATOR GRILLE

[Krom]

< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

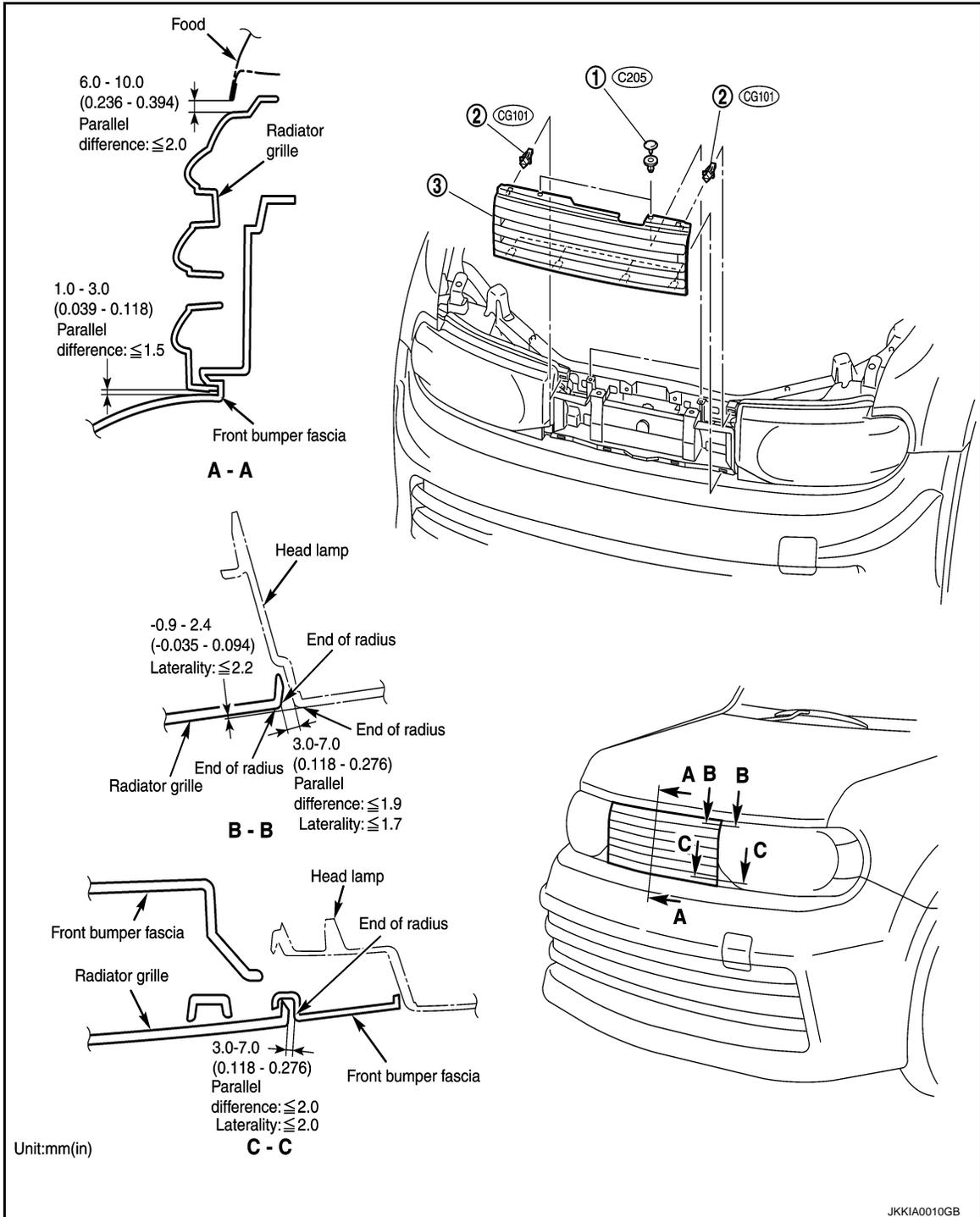
### RADIATOR GRILLE

#### Removal and Installation of Front Bumper Grille Assembly

INFOID:000000005156134

**CAUTION:**

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



1. Clip (C205) (2)

2. Clip (CG101) (2)

3. Radiator Grille

#### REMOVAL

# RADIATOR GRILLE

[Krom]

## < REMOVAL AND INSTALLATION >

---

1. Fully open the hood assembly.
2. Remove the clips on the top and both sides of the radiator grille.
3. Unhook four tabs located at the bottom of the radiator grille.

## INSTALLATION

Install in the reverse order of removal.

- Check the clearance when installing the radiator grille.

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# FRONT BUMPER

[Krom]

< REMOVAL AND INSTALLATION >

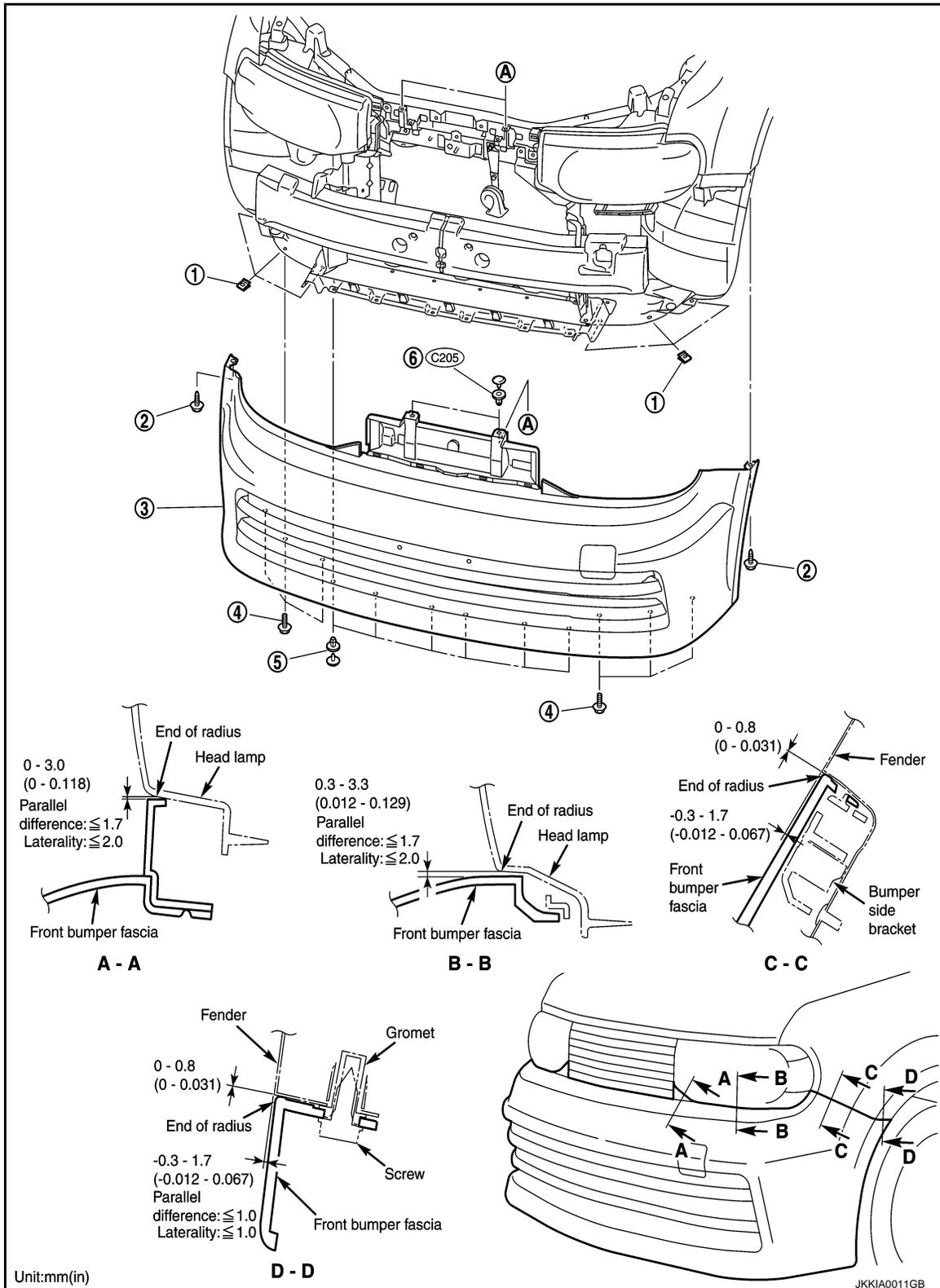
## FRONT BUMPER

### Removal and Installation of Front Bumper Assembly

INFOID:000000005156135

**CAUTION:**

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



# FRONT BUMPER

[Krom]

## < REMOVAL AND INSTALLATION >

- |                                 |  |                                 |
|---------------------------------|--|---------------------------------|
| 1. U nut (6)                    | 2. Tapping screw (1 each left and right) | 3. Front bumper fascia assembly |
| 4. Bolt (3 each left and right) | 5. Clip (6)                              | 6. Trim clip (C205) (2)         |

### REMOVAL

1. Remove the radiator grille.
2. Remove bolts and clip at the bottom of the front bumper fascia assembly to remove the front fender protector.
3. Remove the tapping screws on the both sides of the front bumper fascia assembly.
4. Remove the trim clip on the top of the front bumper fascia assembly to remove the assembly.

### CAUTION:

Two people shall perform the work to remove the front bumper fascia so that it is not dropped.

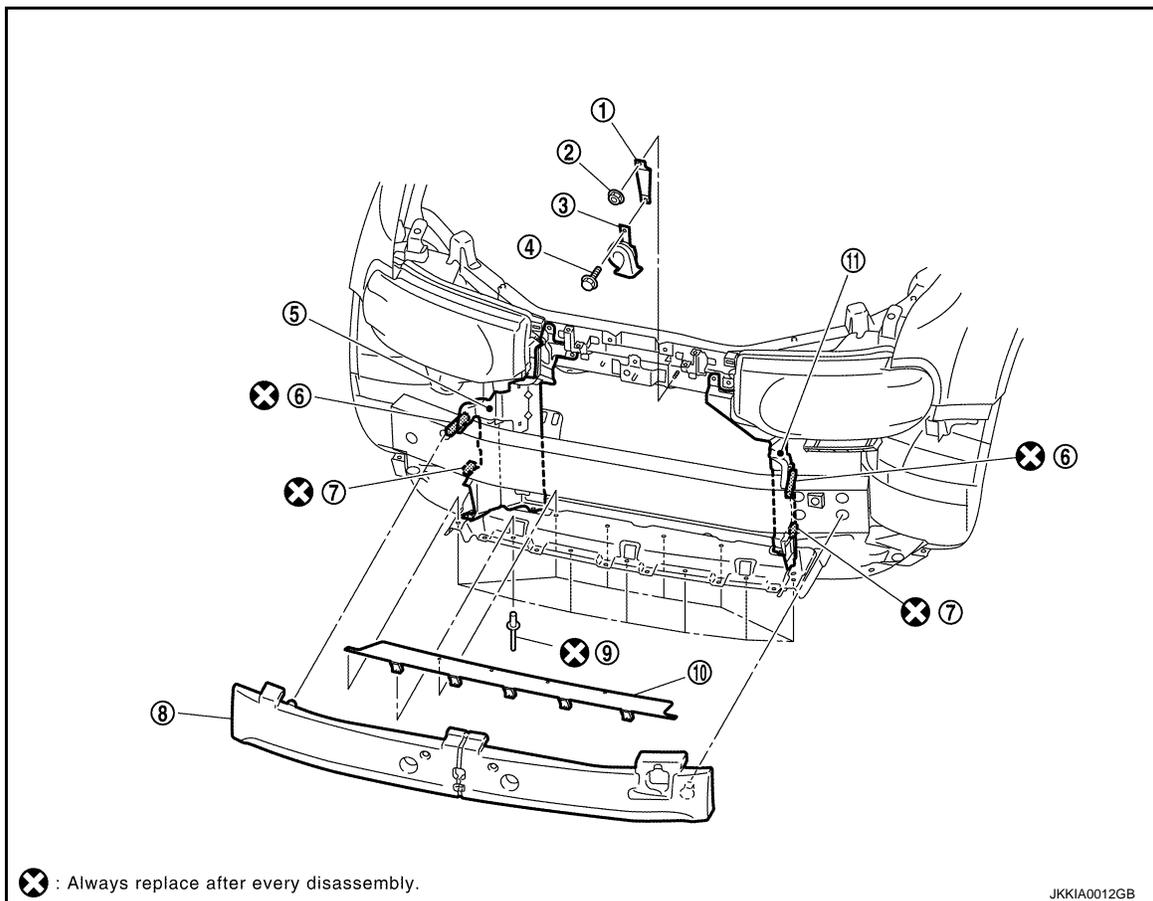
### INSTALLATION

Install in the reverse order of removal.

- Check the clearance when installing the front bumper fascia.

Removal and Installation of the Energy Absorber, etc.

INFOID:000000005156136



- |                             |                                 |                           |
|-----------------------------|---------------------------------|---------------------------|
| 1. Extension horn bracket   | 2. Nut                          | 3. Horn assembly          |
| 4. Bolt                     | 5. Air guide (RH)               | 6. Air guide seal (A) (2) |
| 7. Air guide seal (B) (2)   | 8. Front bumper energy absorber | 9. Rivet (11)             |
| 10. Air guide assembly (FR) | 11. Air guide (LH)              |                           |

### REMOVAL

1. Remove air guide seals (A) and (B).
2. Remove the energy absorber.
3. Remove bolts to remove the horn assembly.

# FRONT BUMPER

[Krom]

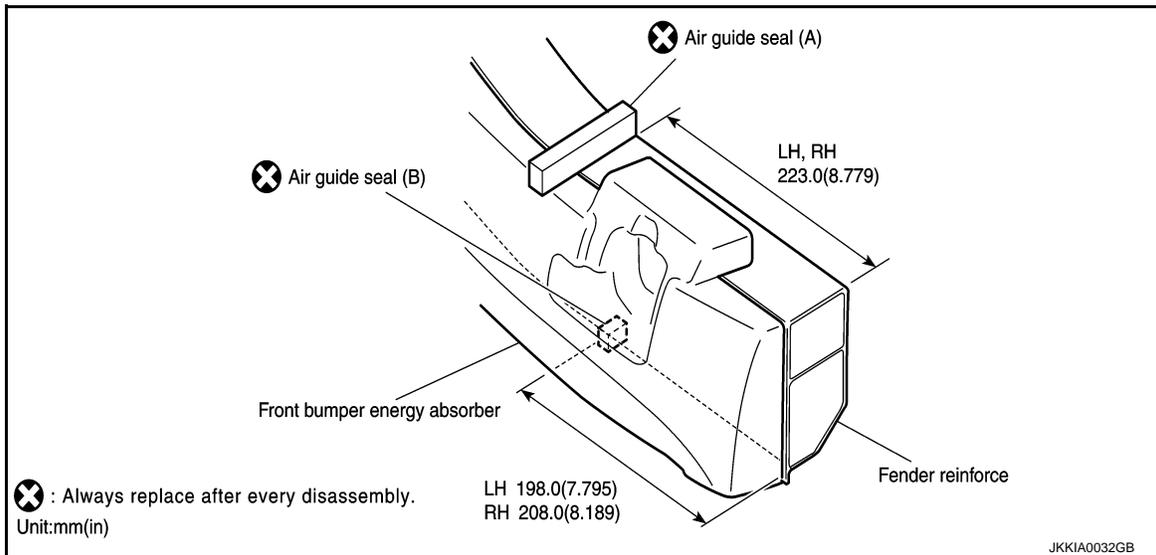
## < REMOVAL AND INSTALLATION >

4. Remove nuts to remove the extension horn bracket.
5. Remove the rivet to remove the air guide assembly (FR).

## INSTALLATION

Install in the reverse order of removal.

1. Fix the air guide assembly (FR) with rivets.
2. Install the extension horn bracket and the horn assembly.
3. Install the energy absorber.
4. Remove release paper from the bonding surface of air guide seals to affix them (A and B) as shown in the figure.



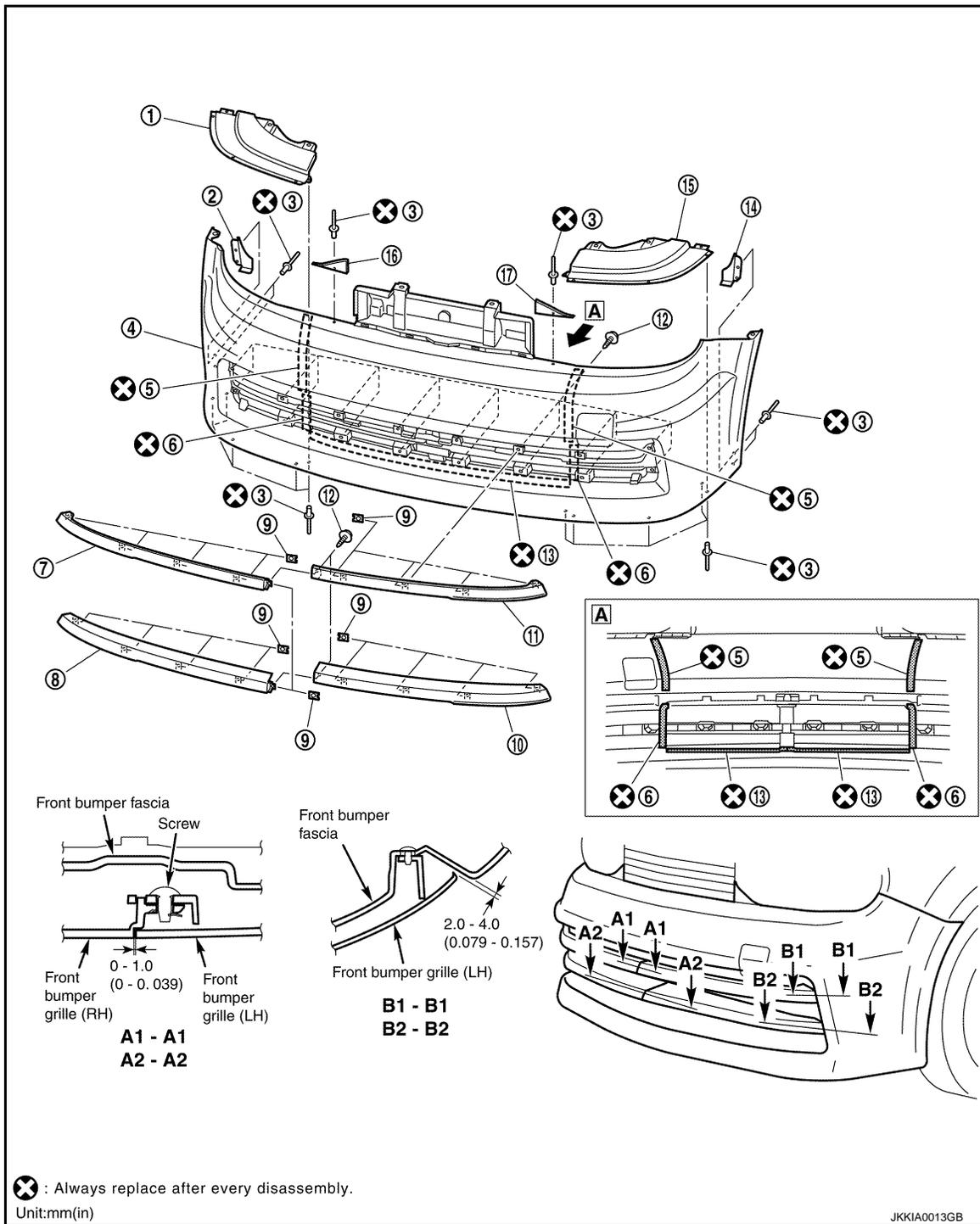
# FRONT BUMPER

[Krom]

< REMOVAL AND INSTALLATION >

## Disassembly and Assembly of Front Bumper Assembly

INFOID:000000005156137



- |                                   |                                   |                                   |
|-----------------------------------|-----------------------------------|-----------------------------------|
| 1. Front bumper fascia (LOW, RH)  | 2. Front bumper side cover (RH)   | 3. Rivet (16)                     |
| 4. Front bumper fascia assembly   | 5. Air guide seal (2)             | 6. EPT seal (2)                   |
| 7. Front bumper grille (RH UPR)   | 8. Front bumper grille (RH LOW)   | 9. Spring nut (18)                |
| 10. Front bumper grille (LH LOW)  | 11. Front bumper grille (LH UPR)  | 12. Tapping screw (18)            |
| 13. EPT seal (2)                  | 14. Front bumper side cover (LH)  | 15. Front bumper fascia (LOW, LH) |
| 16. Front bumper fascia (UPR, RH) | 17. Front bumper fascia (UPR, LH) |                                   |

### REMOVAL

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# FRONT BUMPER

[Krom]

## < REMOVAL AND INSTALLATION >

1. Remove tapping screws to remove the front bumper grille assembly (grills at the top right and the top left), and remove the center tapping screw.
2. Remove tapping screws to remove the front bumper grille assembly (grills at the bottom right and the bottom left), and remove the center tapping screw.
3. Remove the air guide seal and EPT seal on the back of the front bumper fascia.
4. Remove the rivet on the top of the front bumper fascia to remove the front bumper fascia (UPR) (LH, RH).
5. Remove the rivets on both sides of the front bumper fascia to remove the front bumper side cover (LH, RH).
6. Remove the rivet at the bottom of the front bumper fascia to remove the front bumper fascia (LOW).

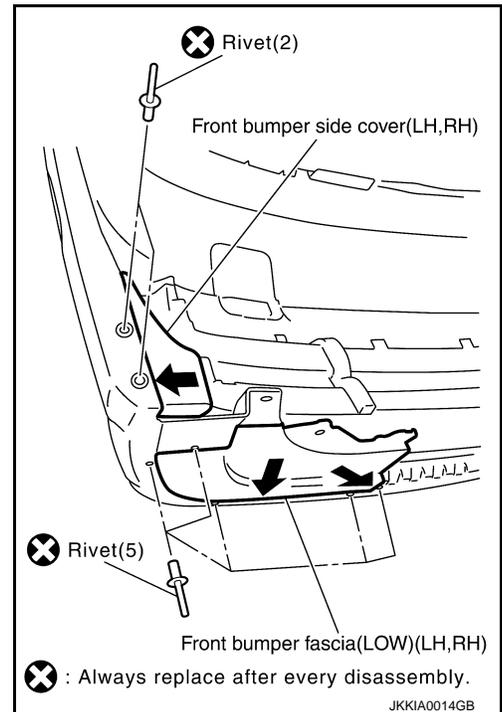
## INSTALLATION

Install in the reverse order of removal.

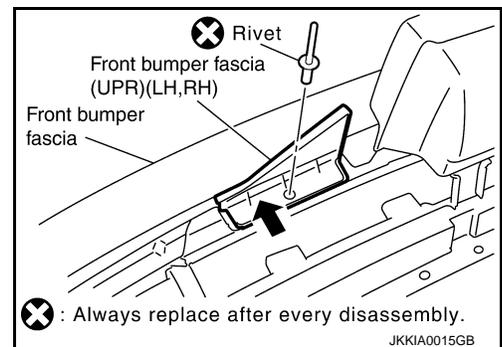
### CAUTION:

- The EPT seal cannot be reused. Replace it with new EPT seal.
- Remove the oil and grease from the attachment surface and clean it.

1. Fit the front bumper fascia (LOW) (LH, RH) in the bottom part of the front bumper fascia without creating clearance and fix with rivets.
2. Fit the front bumper side cover (LH, RH) in both sides of the front bumper fascia without creating clearance and fix with rivets.



3. Fit the front bumper fascia (UPR) (LH, RH) in the top of the front bumper fascia without creating clearance and fix with a rivet.
4. Place air guide seals and EPT seal on the back of the front bumper fascia.



# REAR BUMPER

< REMOVAL AND INSTALLATION >

[Krom]

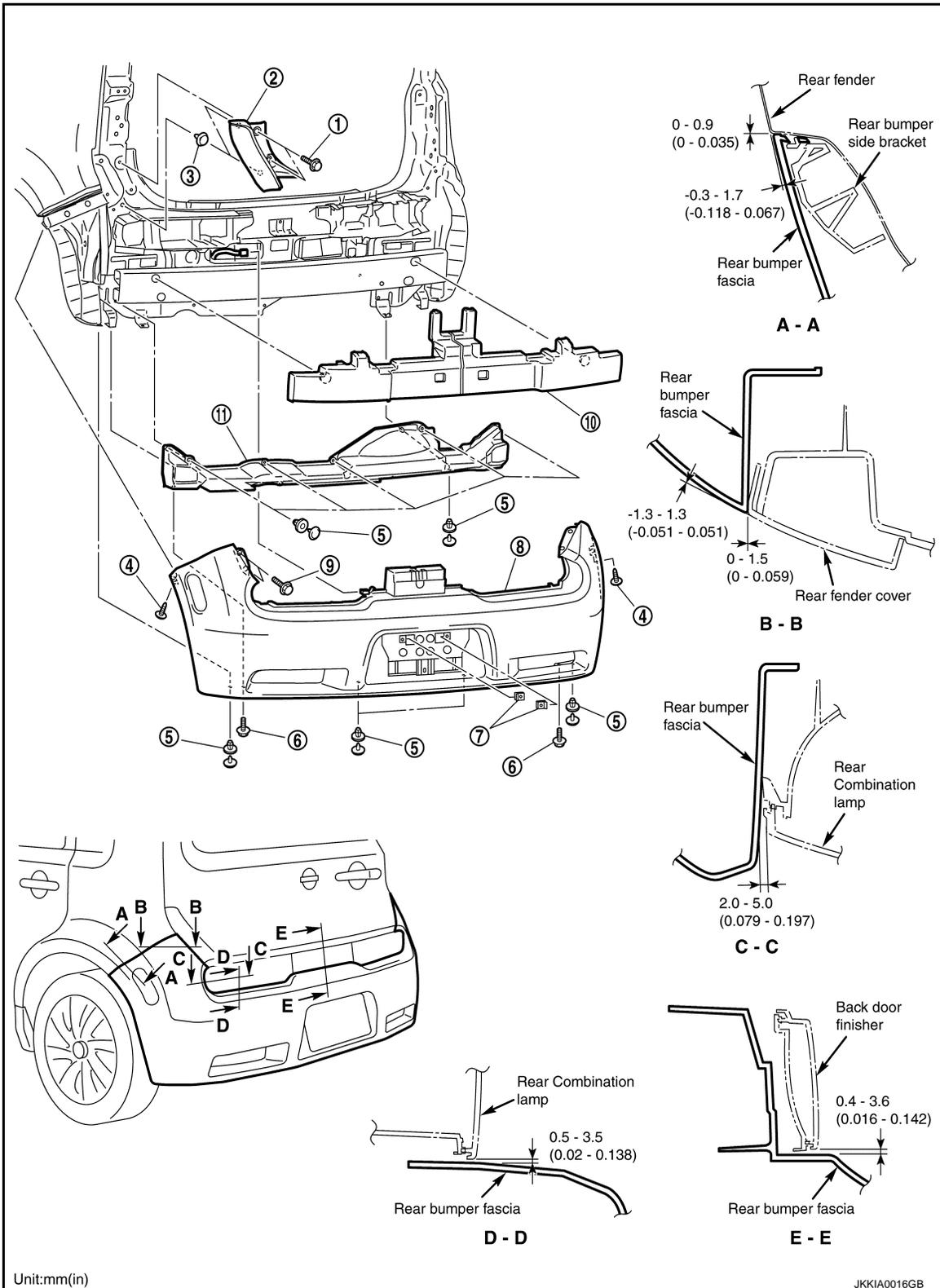
## REAR BUMPER

### Removal and Installation of Rear Bumper Assembly

INFOID:000000005156138

**CAUTION:**

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



Unit:mm(in)

JKKIA0016GB

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# REAR BUMPER

[Krom]

## < REMOVAL AND INSTALLATION >

- |                                 |                                |             |
|---------------------------------|--------------------------------|-------------|
| 1. Bolt (2)                     | 2. Rear fender cover (LH)      | 3. Clip (2) |
| 4. Tapping screw (2)            | 5. Trim clip (C205) (9)        | 6. Bolt (2) |
| 7. Spring nut (2)               | 8. Rear bumper fascia assembly | 9. Bolt (4) |
| 10. Rear bumper energy absorber | 11. Rear panel (LWR) assembly  |             |

### REMOVAL

1. Remove the rear back door finisher between the rear combination lamps.
2. Remove the rear combination lamps (LH, RH).
3. Remove bolts and clips to remove the left rear fender cover assembly.
4. Remove the trim clips at the bottom of the rear bumper fascia.
5. Remove the tapping screws on both sides of the rear bumper fascia.
6. Remove bolts on both sides of the rear bumper fascia and disconnect the license lamp connector to remove the rear bumper fascia assembly.

### CAUTION:

**Two people shall perform the work to remove the rear bumper fascia so that it is not dropped.**

7. Remove the rear bumper energy absorber.
8. Remove the trim clips to remove the rear panel assembly (LWR).

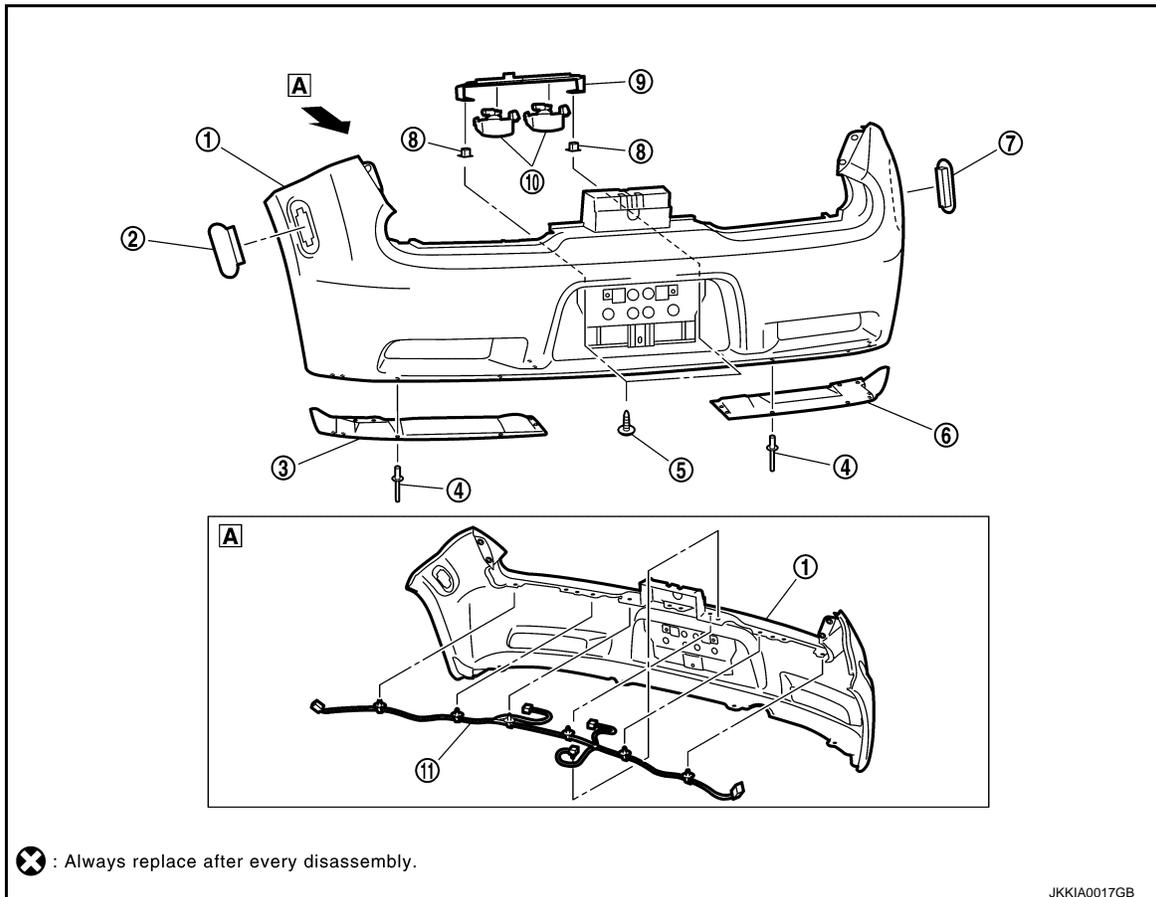
### INSTALLATION

Install in the reverse order of removal.

- Check the clearance when installing the rear bumper fascia assembly.

### Disassembly and Assembly of Rear Bumper Assembly

INFOID:000000005156139



- |                       |  |                                |
|-----------------------|--|--------------------------------|
| 1. Rear bumper fascia | 2. Rear side marker lamp assembly (LH) | 3. Rear bumper cover (side LH) |
| 4. Rivet (12)         | 5. Tapping screw (2)                   | 6. Rear bumper cover (side RH) |

# REAR BUMPER

[Krom]

## < REMOVAL AND INSTALLATION >

- |  |                      |                              |
|--|----------------------|------------------------------|
| 7. Rear side marker lamp assembly (RH) | 8. Screw grommet (2) | 9. Rear license lamp bracket |
| 10. License lamp assembly (2)          | 11. Tail harness     |                              |

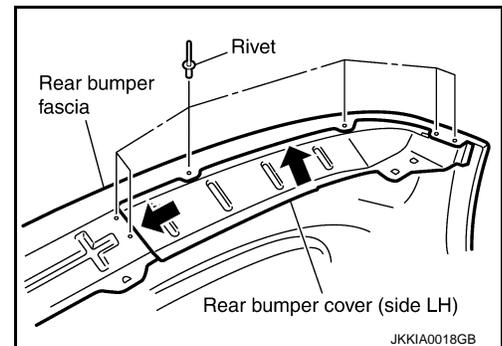
### REMOVAL

1. Disconnect the tail harness connectors (right and left) to remove the rear side marker lamp assembly (LH, RH).
2. Remove tapping screws to remove the rear license bracket, license lamp assembly, and screw grommets.
3. Remove the tail harness.
4. Remove the rivets to remove the rear bumper cover (LH, RH).

### INSTALLATION

Install in the reverse order of removal.

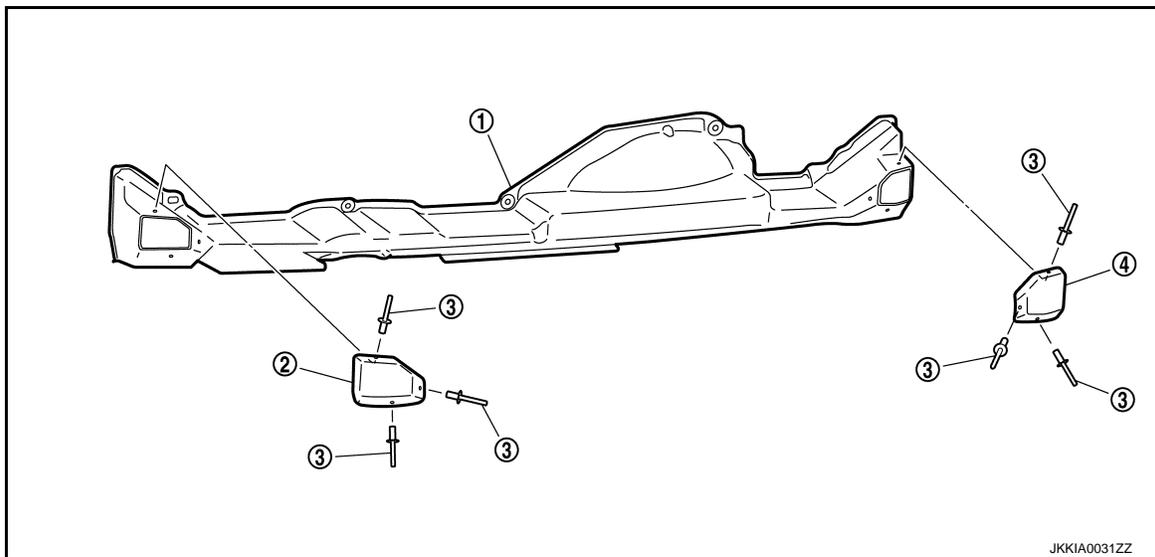
1. Fit the rear bumper cover (LH) in the rear bumper fascia without creating clearance and fix with rivets.



2. Fit the rear bumper cover (RH) in the rear bumper fascia without creating clearance and fix with rivets.
3. Install the rear license bracket, license lamp assembly, and screw grommets.
4. Install the tail harness.
5. Install the rear side marker lamp assembly (LH, RH).

### Disassembly and Assembly of Rear Panel (LWR) Assembly

INFOID:000000005156140



- |                                  |                                  |              |
|----------------------------------|----------------------------------|--------------|
| 1. Rear panel (LWR)              | 2. Rear bumper cover (side A LH) | 3. Rivet (6) |
| 4. Rear bumper cover (side A RH) |                                  |              |

### REMOVAL

1. Remove the rivets to remove the rear bumper cover (Side A LH, RH).

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EXT

## REAR BUMPER

< REMOVAL AND INSTALLATION >

[Krom]

---

Install in the reverse order of removal.

# SIDE SILL EXTENSIONS

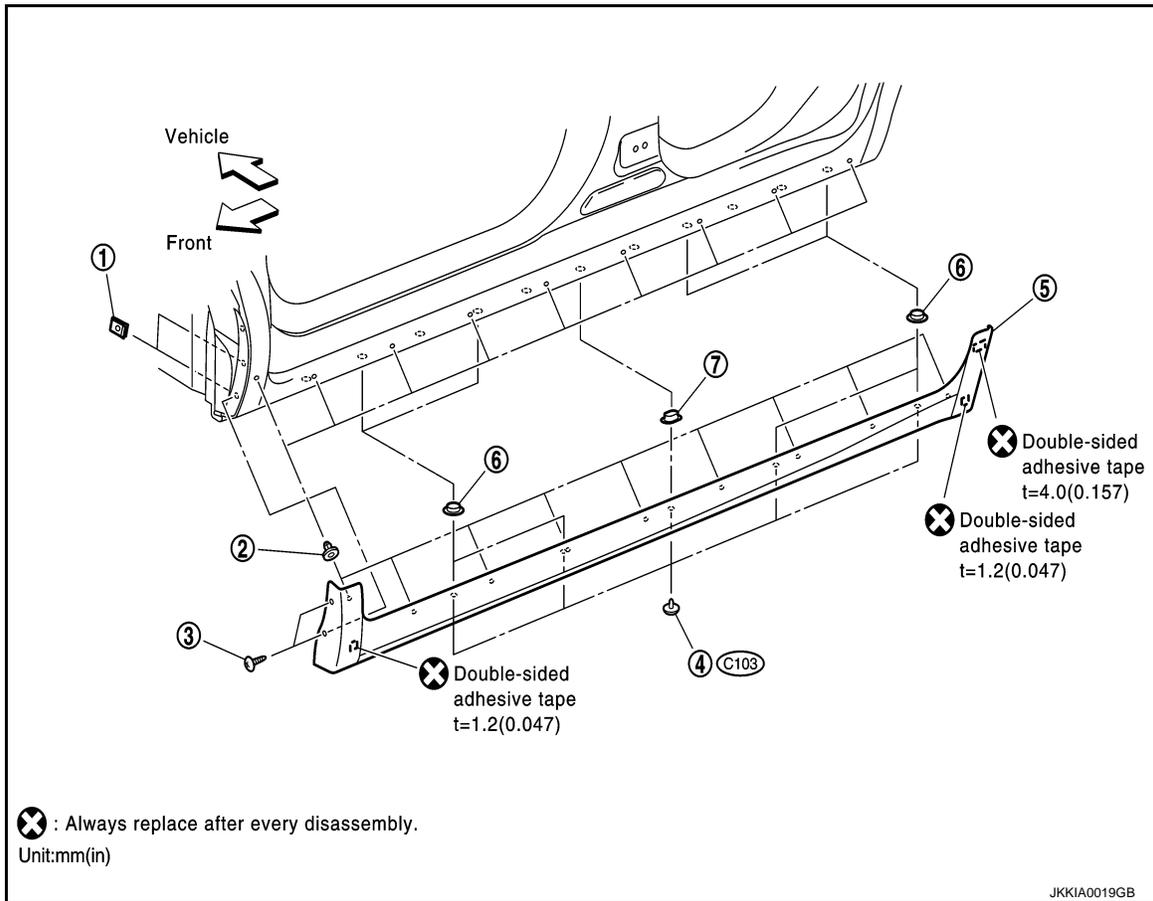
[Krom]

< REMOVAL AND INSTALLATION >

## SIDE SILL EXTENSIONS

### Removal and Installation of Side Sill Extension Assembly

INFOID:000000005156141



- |  |  |  |
|--|--|--|
| 1. Spring nut (2 each left and right)  | 2. Grommet (9 each left and right)       | 3. Tapping screw (2 each left and right) |
| 4. Clip (C103) (5 each left and right) | 5. Side sill extension assembly (LH, RH) | 6. Grommet (4 each left and right)       |
| 7. Grommet (1 each left and right)     |  |  |

#### REMOVAL

1. Remove tapping screws, spring nuts, and clips.
2. Disengage the grommets to remove the side sill extension assembly (LH), peeling off the double-sided adhesive tape with a resin spatula or an equivalent.
3. Remove the side sill extension assembly (RH) in the same way.

#### INSTALLATION

Install in the reverse order of removal.

#### CAUTION:

- The double-sided tape cannot be reused. Replace it with new tape.
- Remove the oil and grease from the attachment surface and clean it.
- Install the Side Sill Extension assembly while being careful not to get the end rubber caught.

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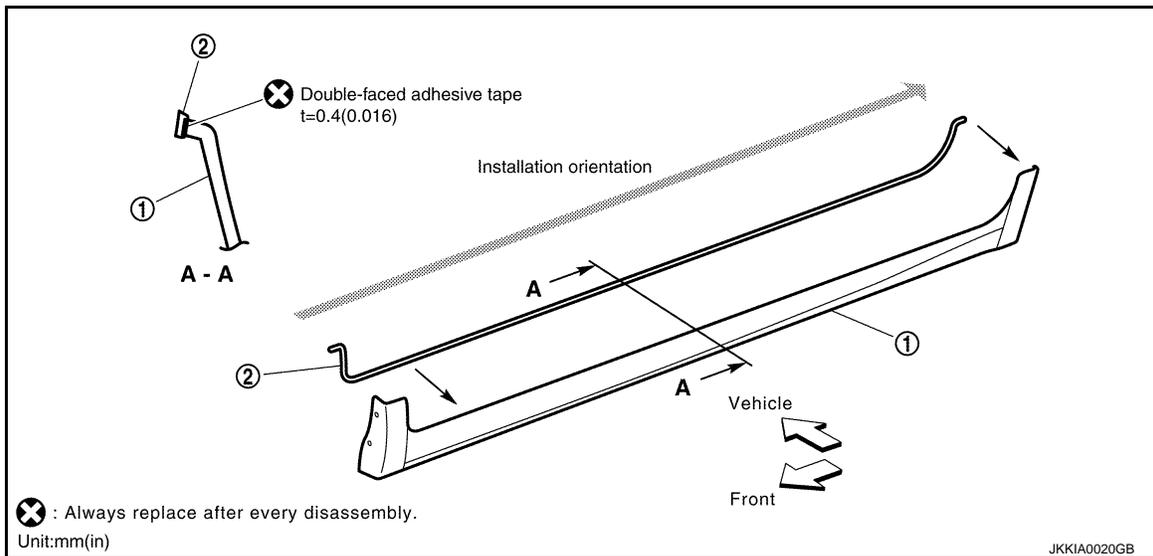
# SIDE SILL EXTENSIONS

< REMOVAL AND INSTALLATION >

[Krom]

## Disassembly and Assembly of Side Sill Extension Assembly

INFOID:000000005156142



1. Side sill extension (LH, RH)
2. End rubber (1 each left and right)

### DISASSEMBLY

1. Remove end rubber from the side sill extension (LH).
2. Remove end rubber from the side sill extension (RH).

### ASSEMBLY

Install in the reverse order of removal.

#### **CAUTION:**

- Install the end rubber with it aligned to the front edge of the extended side sill and facing the back edge.
- The double-sided tape cannot be reused. Replace them with new ones.
- Remove the oil and grease from the attachment surface and clean it.

# REAR ROOF SPOILER

< REMOVAL AND INSTALLATION >

[Krom]

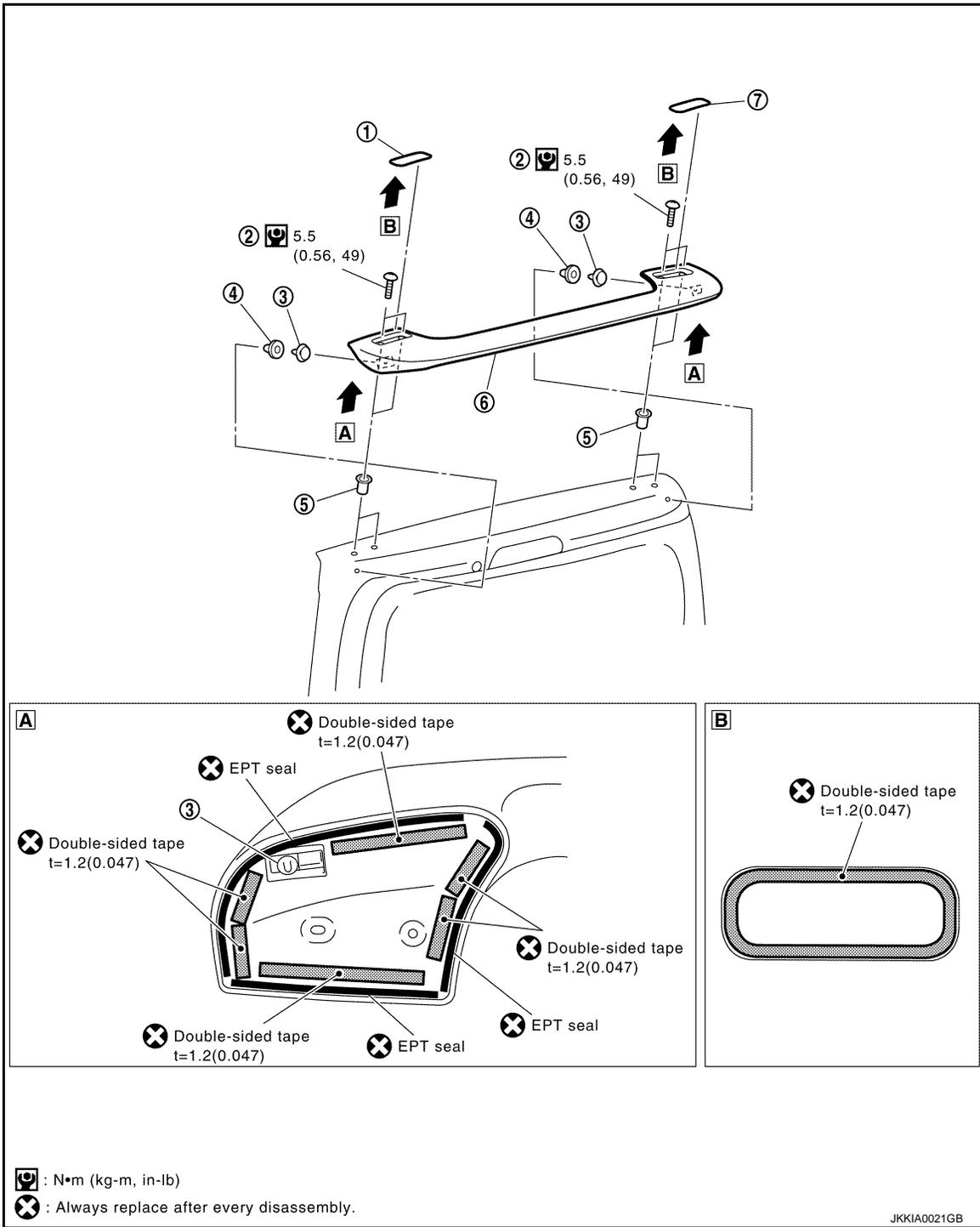
## REAR ROOF SPOILER

### Removal and Installation of Rear Roof Spoiler Assembly

INFOID:000000005156143

**CAUTION:**

Rear roof spoiler is made of resin. Never apply strong force to it, and be careful to prevent contact with oil.



- |                                    |  |                                 |
|------------------------------------|--|---------------------------------|
| 1. Rear roof spoiler cap (LH)      | 2. Machine screw (2 each left and right) | 3. Clip (1 each left and right) |
| 4. Grommet (1 each left and right) | 5. Nut (2 each left and right)           | 6. Roof spoiler assembly        |
| 7. Rear roof spoiler cap (RH)      |  |                                 |

### REMOVAL

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# REAR ROOF SPOILER

[Krom]

## < REMOVAL AND INSTALLATION >

1. Remove both right and left rear roof spoiler caps, peeling off the double-sided adhesive tape with a resin spatula or an equivalent.
2. Remove the machine screws.
3. Disengage the clip and grommet to remove the rear roof spoiler assembly, peeling off the double-sided adhesive tape with a resin spatula or an equivalent.

### **CAUTION:**

- Two people should perform removal of the rear spoiler assembly to keep from dropping it.
- Be careful not to damage the painted surface.
- After removal, degrease and clean the mounting surface.

4. Peel off EPT seal and double-sided adhesive tape from the rear roof spoiler assembly with a resin spatula or an equivalent.

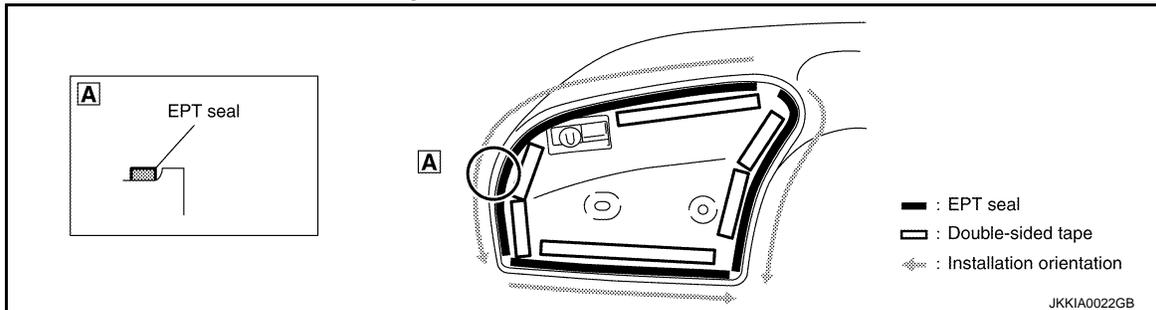
## INSTALLATION

Install in the reverse order of removal.

1. Degrease and clean the adhesive surface of the rear roof spoiler assembly after peeling off EPT seal and double-sided adhesive tape.
2. Refer to the figure to place double-sided adhesive tape.
3. Refer to the figure to place EPT seal toward the direction shown by arrows.

### **CAUTION:**

**Make sure that the EPT seal does not protrude.**



# LICENSE PLATE BRACKET

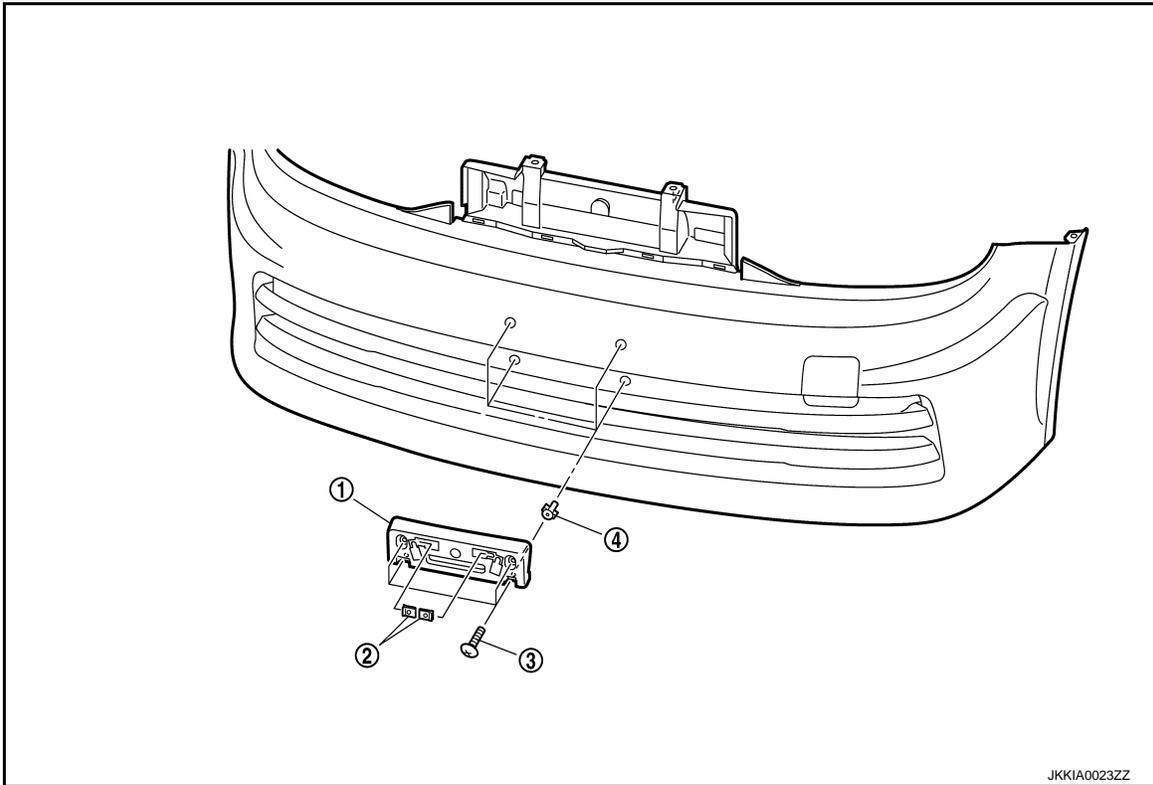
< REMOVAL AND INSTALLATION >

[Krom]

## LICENSE PLATE BRACKET

### Removal and Installation of License Plate Bracket

INFOID:000000005156144



1. License plate bracket
2. Spring nut (2)
3. Machine screw (4)
4. Screw grommet (4)

#### REMOVAL

1. Remove the spring nuts.
2. Remove the machine screws and then remove the license plate bracket and screw grommets.

#### INSTALLATION

Install in the reverse order of removal.

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