

SECTION **EXT**
EXTERIOR

A
B
C
D
E
F
G
H
I
J
L
M
N
O
P

CONTENTS

PRECAUTION	3	FENDER PROTECTOR	27
PRECAUTIONS	3	FENDER PROTECTOR	27
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	3	FENDER PROTECTOR : Exploded View	27
Precaution for Procedure without Cowl Top Cover.....	3	FENDER PROTECTOR : Removal and Installation - Front Fender Protector	28
Precaution for Work	3	FENDER PROTECTOR : Exploded View	28
PREPARATION	5	FENDER PROTECTOR : Removal and Installation - Rear Fender Protector	29
PREPARATION	5	REAR WIND DEFLECTOR	29
Special Service Tool	5	REAR WIND DEFLECTOR : Exploded View	29
Commercial Service Tool	5	REAR WIND DEFLECTOR : Removal and Installation	29
CLIP LIST	6	UNDER COVER	30
Descriptions for Clips	6	FRONT UNDER COVER	30
SYMPTOM DIAGNOSIS	10	FRONT UNDER COVER : Removal and Installation	30
SQUEAK AND RATTLE TROUBLE DIAGNOSES	10	ENGINE UNDER COVER	30
Work Flow	10	ENGINE UNDER COVER : Exploded View	31
Generic Squeak and Rattle Troubleshooting	12	ENGINE UNDER COVER : Removal and Installation	31
Diagnostic Worksheet	14	ROOF SIDE MOLDING	32
REMOVAL AND INSTALLATION	16	Exploded View	32
FRONT BUMPER	16	Removal and Installation	32
Exploded View	16	DRIP MOLDING	34
Removal and Installation	17	Exploded View	34
REAR BUMPER	20	Removal and Installation	34
Exploded View	20	DOOR SASH TAPE	35
Removal and Installation	20	Exploded View	35
FRONT GRILLE	23	FRONT DOOR SASH TAPE	35
Exploded View	23	FRONT DOOR SASH TAPE : Removal and Installation	35
Removal and Installation	23	REAR DOOR SASH TAPE	37
COWL TOP	25		
Exploded View	25		
Removal and Installation	26		

EXT

REAR DOOR SASH TAPE : Removal and Installation	37	DOOR PARTING SEAL	43
		Exploded View	43
DOOR OUTSIDE MOLDING	40	Removal and Installation	43
Exploded View	40	LICENSE LAMP FINISHER	44
FRONT DOOR OUTSIDE MOLDING	40	Exploded View	44
FRONT DOOR OUTSIDE MOLDING : Removal and Installation	40	Removal and Installation	44
REAR DOOR OUTSIDE MOLDING	41	REAR AIR SPOILER	46
REAR DOOR OUTSIDE MOLDING : Removal and Installation	41	Removal and Installation	46

PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

INFOID:000000009021213

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 SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

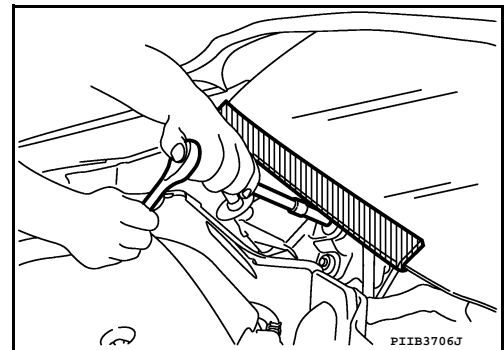
WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag 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 for Procedure without Cowl Top Cover

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



Precaution for Work

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- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
 - Water soluble dirt:
 - Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
 - Then rub with a soft, dry cloth.
 - Oily dirt:

A
B
C
D
E
F
G
H
I
J
EXT
L
M
N
O
P

PRECAUTIONS

< PRECAUTION >

- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

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PREPARATION

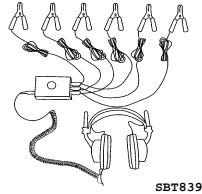
PREPARATION

Special Service Tool

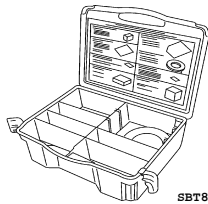
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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

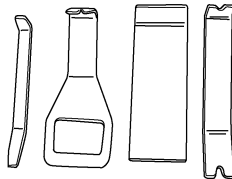
Tool number (Kent-Moore No.) Tool name	Description
— (J-39570) Chassis Ear	Locating the noise
— (J-43980) NISSAN Squeak and Rattle kit	Repairing the cause of noise
— (J-46534) Trim Tool Set	Removing trim components



SBT839



SBT840



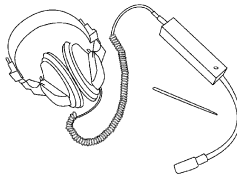
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Commercial Service Tool

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(Kent-Moore No.) Tool name	Description
(J-39565) Engine Ear	Locating the noise



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CLIP LIST


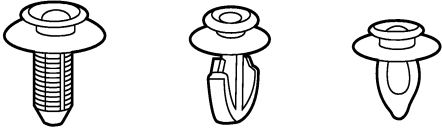


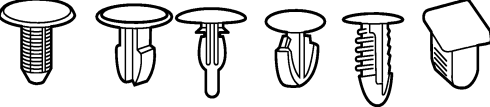
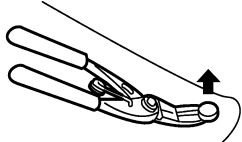

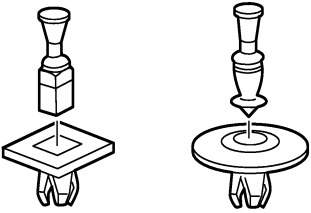
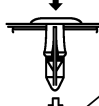
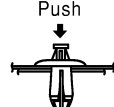

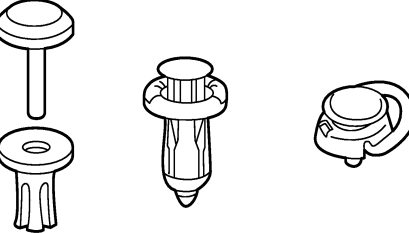
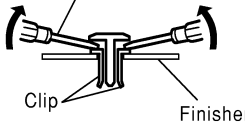

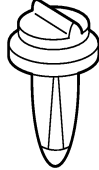
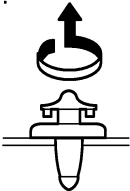
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Descriptions for Clips

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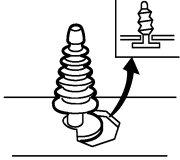
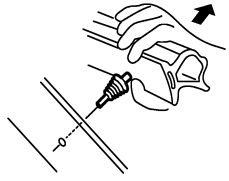

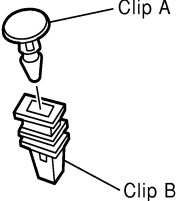
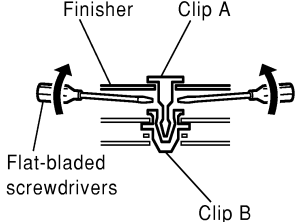

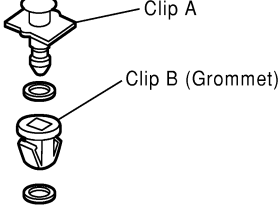
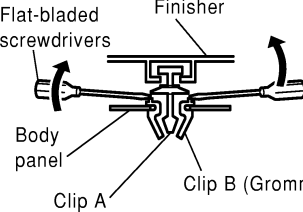


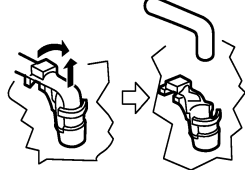

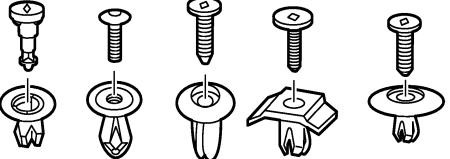

Replace any clips which are damaged during removal or installation.

Symbol No.	Shapes	Removal & Installation
<p>C101</p> 		<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p> 
<p>C103</p> 		 <p>Removal: Remove with a clip remover.</p>
<p>C203</p> 		<p>Removal: Push center pin to catching position. (Do not remove center pin by hitting it.)</p> <p>Push</p>  <p>Installation:</p> <p>Push</p> 
<p>C205</p> 		<p>Removal:</p> <p>Flat-bladed screwdriver</p>  <p>Clip</p> <p>Finisher</p>
<p>C206</p> 		<p>Removal:</p> 

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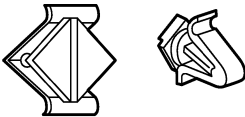

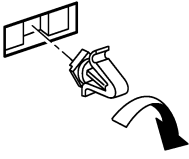

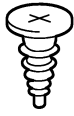



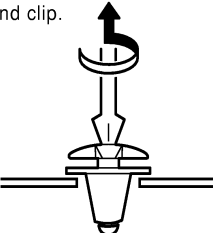


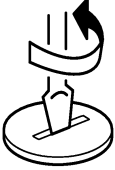
Symbol No.	Shapes	Removal & Installation
<p>CE103</p> 		<p>Removal:</p> 
<p>CF110</p> 		<p>Removal:</p> 
<p>CF118</p> 		<p>Removal:</p> 
<p>CR103</p> 		<p>Removal: Holder portion of clip must be spread out to remove rod.</p> 
<p>CS101</p> 		<p>Removal:</p> <ol style="list-style-type: none"> 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. 

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EXT
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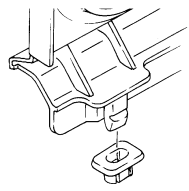
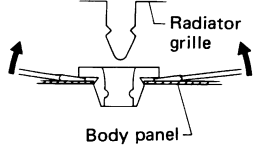
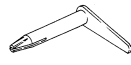
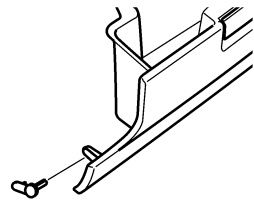
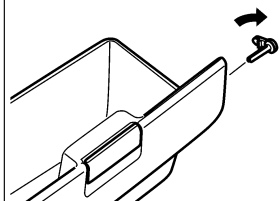

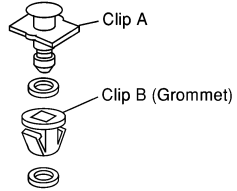
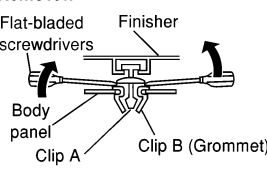
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Symbol No.	Shapes	Removal & Installation	
CG101 		Removal:  Rotate 45° to remove	Installation: 
CS102 			
CS113 		Removal: Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip. 	
C111 			

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CLIP LIST

< PREPARATION >

Symbol No.	Shapes	Removal & Installation
<p>CG104</p> 		<p>Removal: Remove by bending up with flat-bladed screwdrivers.</p> 
<p>CE114</p> 		
<p>CF118</p> 		<p>Removal: Flat-bladed screwdrivers</p> 

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O
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EXT

SQUEAK AND RATTLE TROUBLE DIAGNOSES

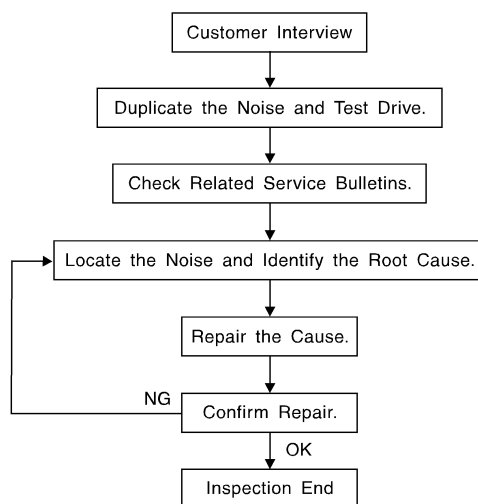
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SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

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CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to [EXT-14, "Diagnostic Worksheet"](#). This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving 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 bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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

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

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT and 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: J-39565 and mechanic's stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from.
Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
 - tapping or pushing/pulling the component that you suspect is causing the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
 - placing a piece of paper between components that you suspect are causing the noise.
 - looking for loose components and contact marks.Refer to [EXT-12. "Generic Squeak and Rattle Troubleshooting"](#).

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 your authorized NISSAN Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

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 (1.18×1.97 in)

FELT CLOTH TAPE

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

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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

UHMW (TEFLON) TAPE

Insulates where slight movement is present. Ideal for instrument panel applications.

SILICONE GREASE

Used instead of UHMW tape that will be visible or not fit.

Note: Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

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.

Generic Squeak and Rattle Troubleshooting

INFOID:000000009000836

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 the instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar finisher
4. Instrument panel to windshield
5. Instrument panel 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 silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

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

In addition look for:

1. Trunk lid bumpers out of adjustment
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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. Sun visor 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.

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage.

In addition look for:

1. Loose harness or harness connectors.
2. Front console map/reading lamp lens loose.
3. Loose screws at console attachment points.

SEATS

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

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 installed to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator installation pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

INFOID:000000009000837

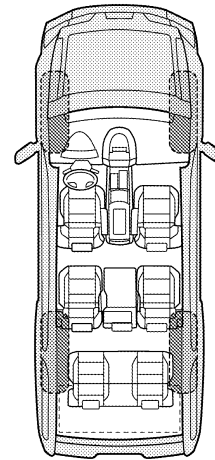
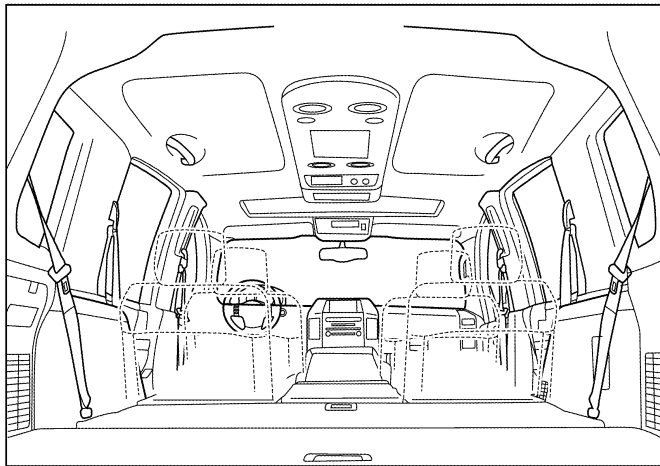
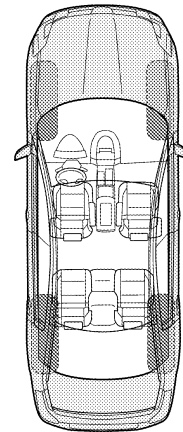
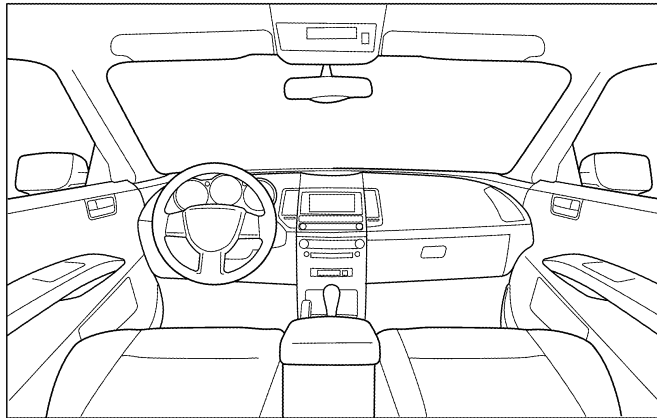
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle 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.

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

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

- | | |
|---|--|
| <input type="checkbox"/> Anytime | <input type="checkbox"/> After sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> When it is raining or wet |
| <input type="checkbox"/> Only when it is cold outside | <input type="checkbox"/> Dry or dusty conditions |
| <input type="checkbox"/> Only when it is hot outside | <input type="checkbox"/> Other: |

III. WHEN DRIVING:

- Through driveways
- Over rough roads
- Over speed bumps
- Only about ____ mph
- On acceleration
- Coming to a stop
- On turns: left, right or either (circle)
- With passengers or cargo
- Other: _____
- After driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- Squeak (like tennis shoes on a clean floor)
- Creak (like walking on an old wooden floor)
- Rattle (like shaking a baby rattle)
- Knock (like a knock at the door)
- Tick (like a clock second hand)
- Thump (heavy muffled knock noise)
- Buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

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

VIN: _____ Customer Name _____

W.O.# _____ Date: _____

This form must be attached to Work Order

LATA0071E

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EXT

FRONT BUMPER

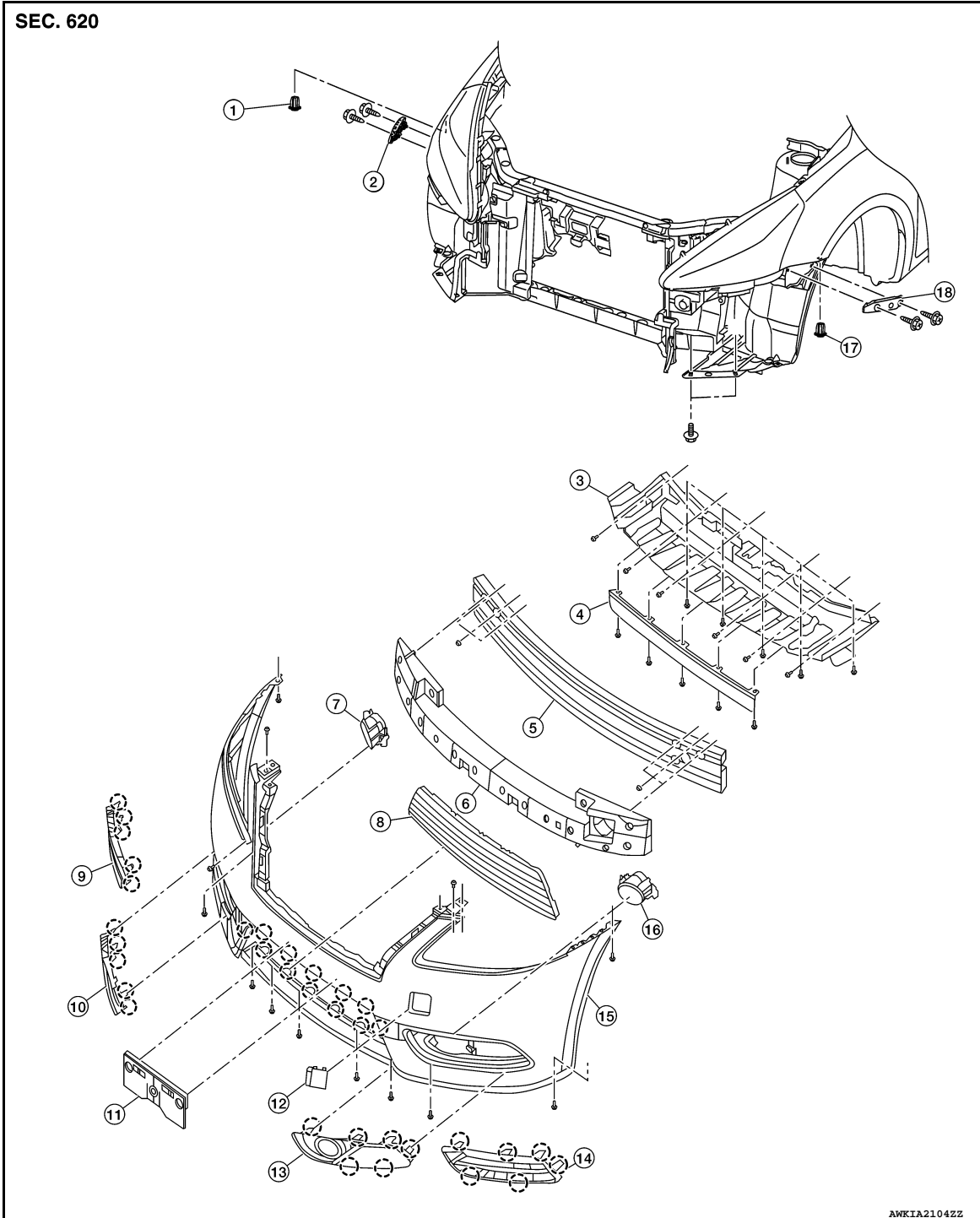
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

FRONT BUMPER

Exploded View

INFOID:000000008765565



- | | | |
|--------------------------------------|-----------------------------------|--|
| 1. Grommet | 2. Front bumper side bracket (RH) | 3. Front under cover |
| 4. Front air spoiler | 5. Front bumper reinforcement | 6. Front energy absorber |
| 7. Front fog lamp (RH) (if equipped) | 8. Front bumper lower grille | 9. Front bumper fascia finisher (RH) (if equipped) |

FRONT BUMPER

< REMOVAL AND INSTALLATION >

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|--|---|------------------------------------|
| 10. Front fog lamp finisher (RH) (if equipped) | 11. License plate bracket | 12. Tow cover |
| 13. Front fog lamp finisher (LH) (if equipped) | 14. Front bumper fascia finisher (LH) (if equipped) | 15. Front bumper fascia |
| 16. Front fog lamp (LH) (if equipped) | 17. Grommet | 18. Front bumper side bracket (LH) |
- Pawl

Removal and Installation

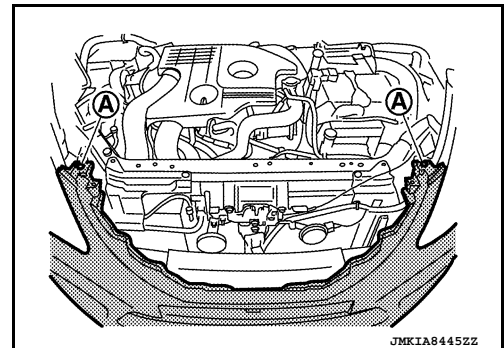
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CAUTION:

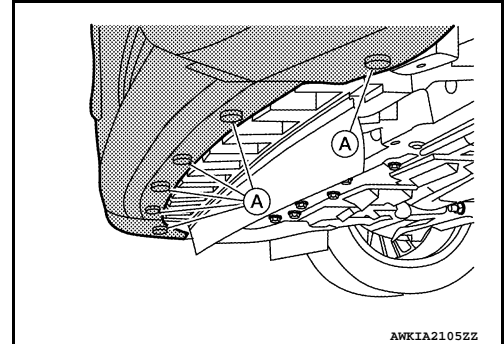
Bumper fascia is made of resin. Use care when handling to prevent damage. Avoid contact with oily substances.

REMOVAL

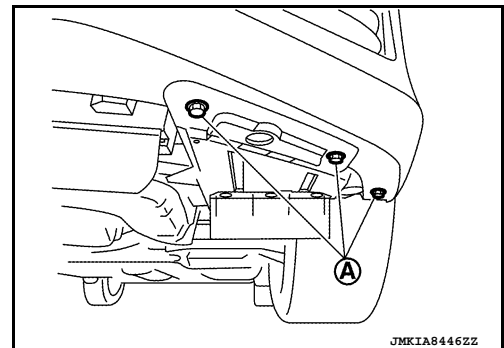
1. Open hood.
2. Remove front grille. Refer to [EXT-23, "Removal and Installation"](#).
3. Remove front bumper fascia clips (A) from front bumper fascia upper side.



4. Remove front bumper fascia clips (A) from front bumper fascia lower side.



5. Remove fender protector bolts (A) (LH/RH).

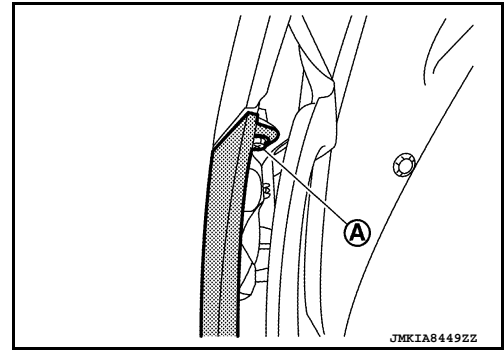


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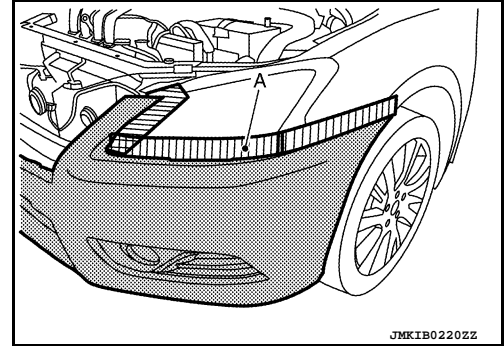
FRONT BUMPER

< REMOVAL AND INSTALLATION >

6. Remove front bumper fascia screws (A) (LH/RH).



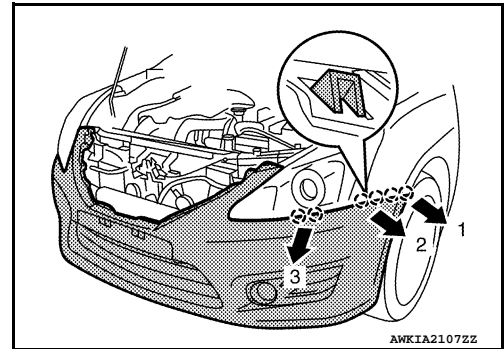
7. Apply protective tape (A) to protect the component from damage on each side as shown.



8. Release the front bumper fascia to release from the front bumper fascia side bracket on each side (LH/RH) as shown.

○: Pawl

CAUTION:
When removing front bumper fascia two people are required to avoid damaging.

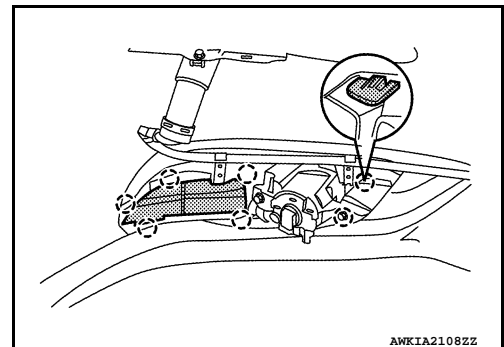


9. Disconnect the harness connectors from the front fog lamps (if equipped).

10. Remove the front bumper fascia.

11. Release front fog lamp finisher pawls, then remove front fog lamp finishers (LH/RH).

○: Pawl



12. Remove the front fog lamp assemblies (LH/RH) (if equipped) from front bumper fascia. Refer to [EXL-120](#), "Removal and Installation".

13. Remove front bumper energy absorber.

14. Remove front bumper reinforcement nuts and the front bumper reinforcement.

15. Remove front bumper side bracket screws and the front bumper side brackets (LH/RH).

16. Remove front under cover bolts, clips and front under cover.

INSTALLATION

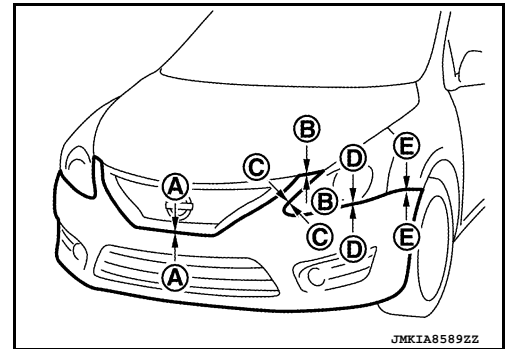
FRONT BUMPER

< REMOVAL AND INSTALLATION >

Installation is in the reverse order of removal.

NOTE:

- The following table shows the specified values for checking normal installation status.
- Fitting adjustment cannot be performed.



Portion		Clearance	Surface height difference
Front bumper fascia- Front grille	A-A	0.4 – 2.8 mm (0.02 – 0.11 in)	0.0 – 3.4 mm (0.00 – 0.13 in)
Front bumper fascia – Hood	B-B	4.0 – 8.4 mm (0.16 – 0.33 in)	—
Front bumper fascia – Front combination lamp	C-C	0.5 – 2.9 mm (0.02 – 0.11 in)	—
	D-D	1.5 – 3.9 mm (0.06 – 0.15 in)	—
Front bumper fascia – Front fender	E-E	0.0 – 1.0 mm (0.00 – 0.04 in)	(-0.3) – (+1.7) mm [(-0.01) – (+0.07) in]

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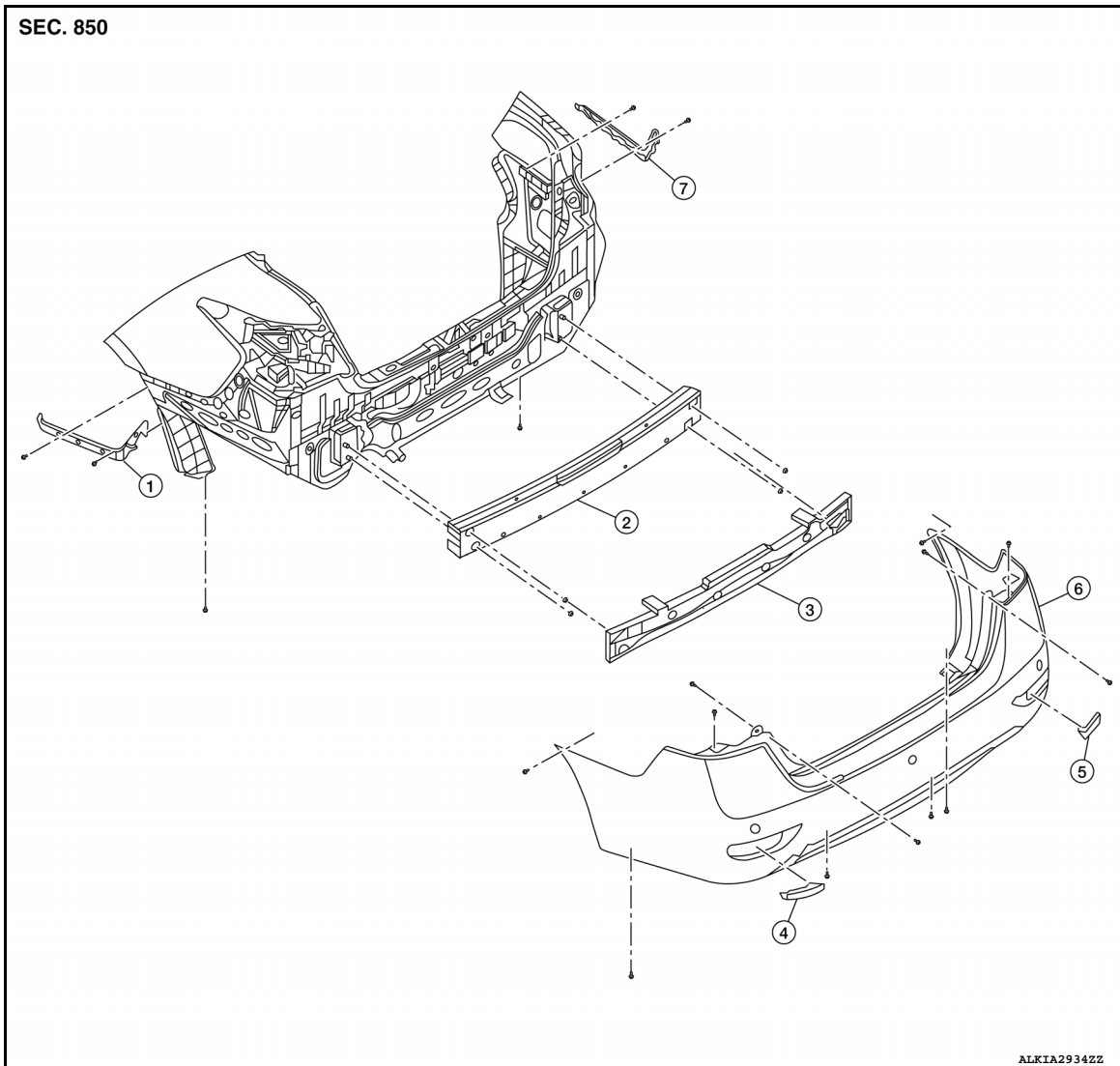
REAR BUMPER

< REMOVAL AND INSTALLATION >

REAR BUMPER

Exploded View

INFOID:000000008765568



- | | | |
|--------------------------------------|--------------------------------------|--------------------------------|
| 1. Rear bumper side bracket (LH) | 2. Rear bumper reinforcement | 3. Rear bumper energy absorber |
| 4. Rear bumper fascia reflector (LH) | 5. Rear bumper fascia reflector (RH) | 6. Rear bumper fascia |
| 7. Rear bumper side bracket (RH) | ⊖ Pawl | |

Removal and Installation

INFOID:000000008765569

CAUTION:

Bumper fascia is made of resin. Use care when handling to prevent damage. Avoid contact with oily substances.

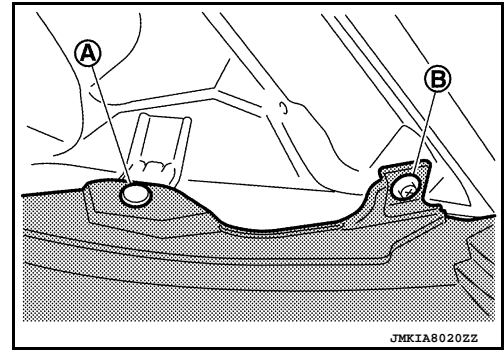
REMOVAL

1. Open trunk lid.
2. Remove rear combination lamps (LH/RH). Refer to [EXL-124, "Removal and Installation"](#).

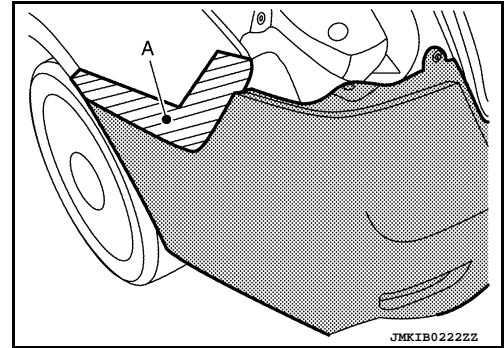
REAR BUMPER

< REMOVAL AND INSTALLATION >

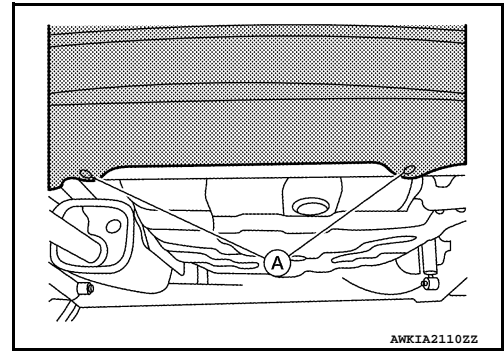
3. Remove the clips (A) (LH/RH) and bolts (B) (LH/RH) from the rear bumper fascia upper side.



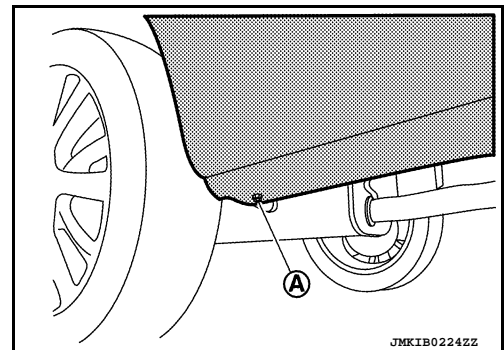
4. Apply protective tape (A) to protect the components from damage on each side as shown.



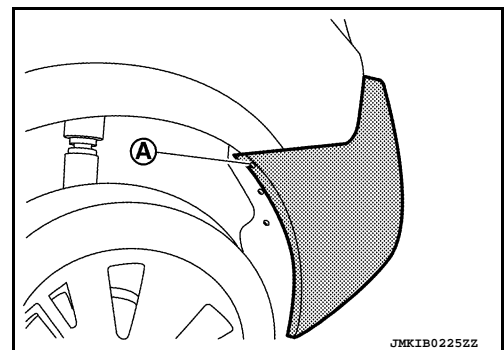
5. Remove clips (A) (LH/RH) from rear bumper fascia lower side.



6. Remove bolts (A) (LH/RH) from rear bumper fascia lower side.



7. Remove rear bumper fascia screws (A) (LH/RH).



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REAR BUMPER

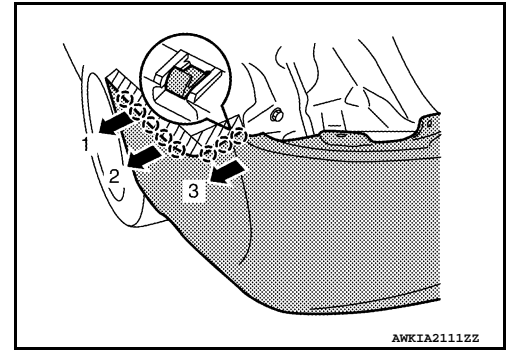
< REMOVAL AND INSTALLATION >

8. Release the rear bumper fascia from the rear bumper fascia side bracket on each side (LH/RH) as shown.

○: Pawl

CAUTION:

When removing rear bumper fascia, two people are required as to avoid damaging.



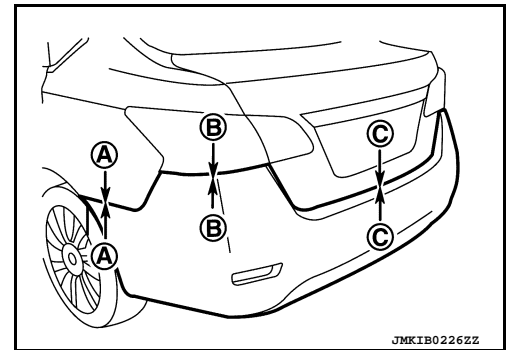
9. Remove rear bumper fascia.
 10. Remove the rear bumper fascia reflectors (LH/RH) from rear bumper fascia.
 11. Remove rear bumper energy absorber.
 12. Remove rear bumper side bracket screws and the rear bumper side brackets (LH/RH).

INSTALLATION

Installation is in the reverse order of removal.

NOTE:

- The following table shows the specified values for checking normal installation status.
- Fitting adjustment cannot be performed.



Portion		Clearance	Surface height difference
Rear Bumper fascia – Rear fender	A-A	0.0 – 1.0 mm (0.00 – 0.04 in)	(-1.7) – (+0.3) mm [(-0.07) – (+0.01) in]
Rear bumper fascia – Rear combination lamp	B-B	0.5 – 3.5 mm (0.02 – 0.14 in)	—
Rear bumper fascia – Trunk lid	C-C	5.0 – 9.0 mm (0.20 – 0.35 in)	—

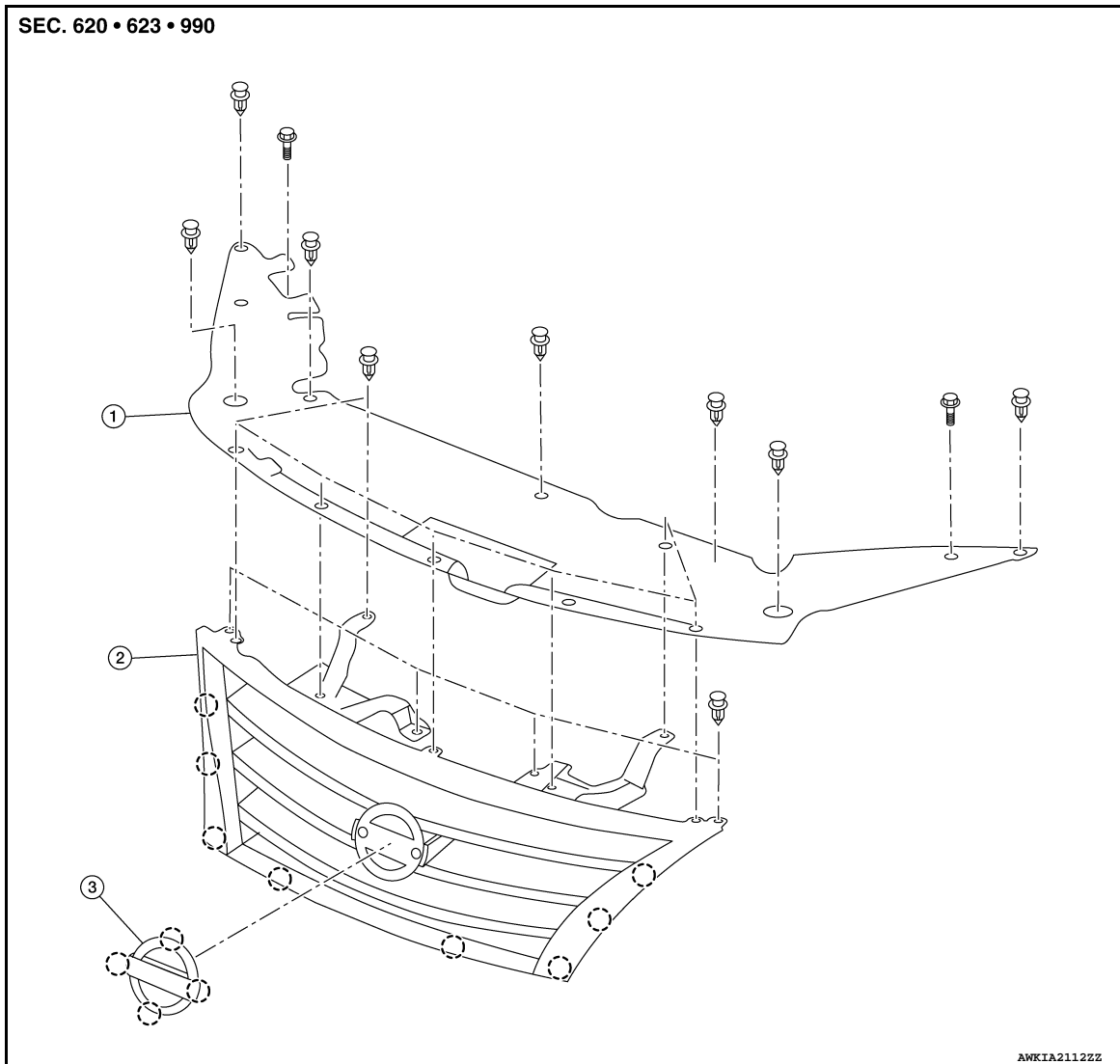
FRONT GRILLE

< REMOVAL AND INSTALLATION >

FRONT GRILLE

Exploded View

INFOID:000000008765570



1. Core support cover

2. Front grille

3. Emblem

○ Pawl

Removal and Installation

INFOID:000000008765571

REMOVAL

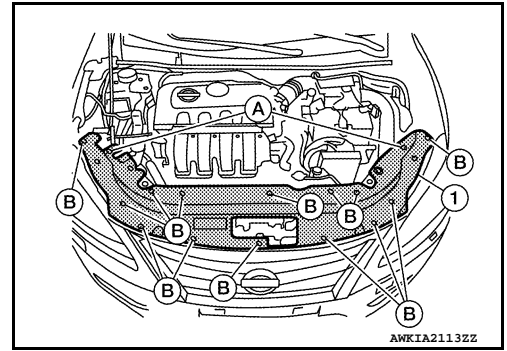
1. Open hood.

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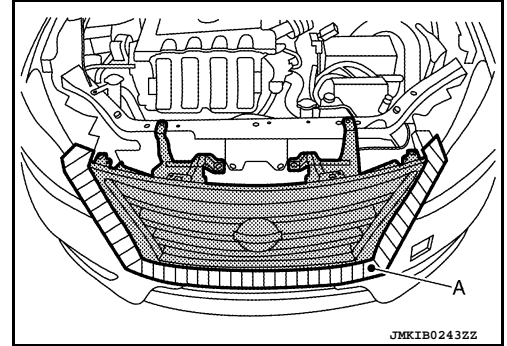
FRONT GRILLE

< REMOVAL AND INSTALLATION >

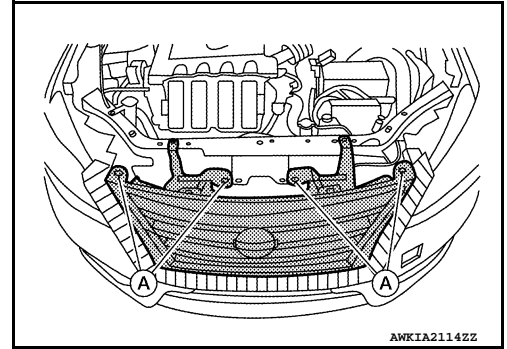
2. Remove core support cover bolts (A), clips (B) and core support cover (1).



3. Apply protective tape (A) to protect the components from damage.

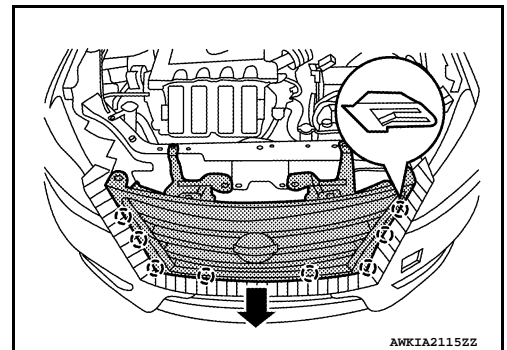


4. Remove the front grille clips (A).



5. Release pawls from back side while pulling front grille toward vehicle front and remove front grille.

○: Pawl



6. Remove emblem from front grille (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

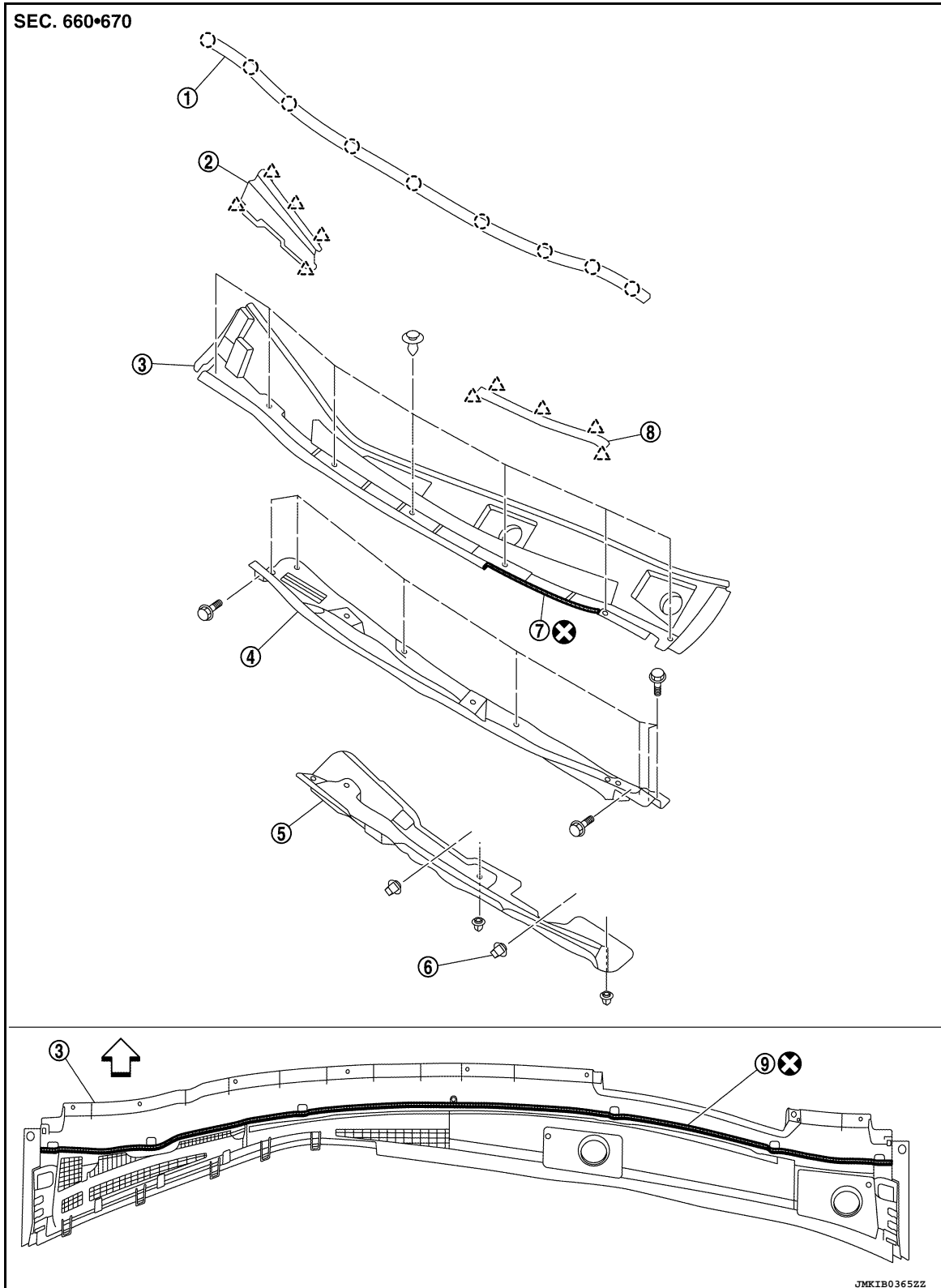
COWL TOP

< REMOVAL AND INSTALLATION >

COWL TOP

Exploded View

INFOID:000000008765572



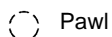
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- 1. Cowl top seal
- 2. Cowl top grille cap
- 3. Cowl top cover
- 4. Cowl top extension
- 5. Cowl top extension insulator
- 6. Clip

COWL TOP

< REMOVAL AND INSTALLATION >

7. EPT seal [t: 3.0 mm (0.12 in)]



Pawl

8. Cowl top cover cap



Clip

9. EPT seal [t: 5.0 mm (0.20 in)]



Front

Removal and Installation

INFOID:000000008765573

COWL TOP COVER

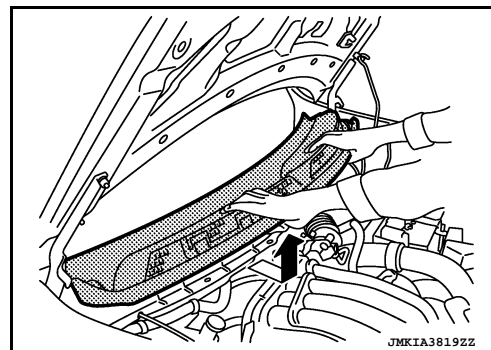
Removal

1. Open hood.
2. Remove front wiper arms (LH/RH). Refer to [WW-57, "Removal and Installation"](#).
3. Remove front fender covers (LH/RH). Refer to [DLK-156, "Exploded View"](#).
4. Remove front fender seals (LH/RH). Refer to [DLK-305, "Exploded View"](#).
5. Remove cowl top cover clips.
6. Pull forward to release cowl top cover from windshield glass.

CAUTION:

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

7. Remove cowl top cover.



8. Remove the following from the cowl top cover.
 - EPT sealer
 - Cowl top seal
 - Cowl top grille cap

Installation

Installation is in the reverse order of removal.

CAUTION:

- Clean the joint between the cowl top cover and the windshield.
- Replace the EPT sealer on the back surface with new EPT sealer when reusing the cowl top cover.
- Remove the EPT sealer remaining on the cowl top cover using a double-faced adhesive tape remove.
- To maintain adhesion, do not wash the vehicle within 24 hours after installation.
- Perform the stop position adjustment at the installation of the front wiper arms.

Cowl Top Extension

Removal

1. Remove the cowl top cover.
2. Remove front wiper drive assembly. Refer to [WW-62, "Removal and Installation"](#).
3. Remove cowl top extension bolts and cowl top extension.
4. Remove cowl top extension insulator clips and cowl top extension insulator.

Installation

Installation is in the reverse order of removal.

FENDER PROTECTOR

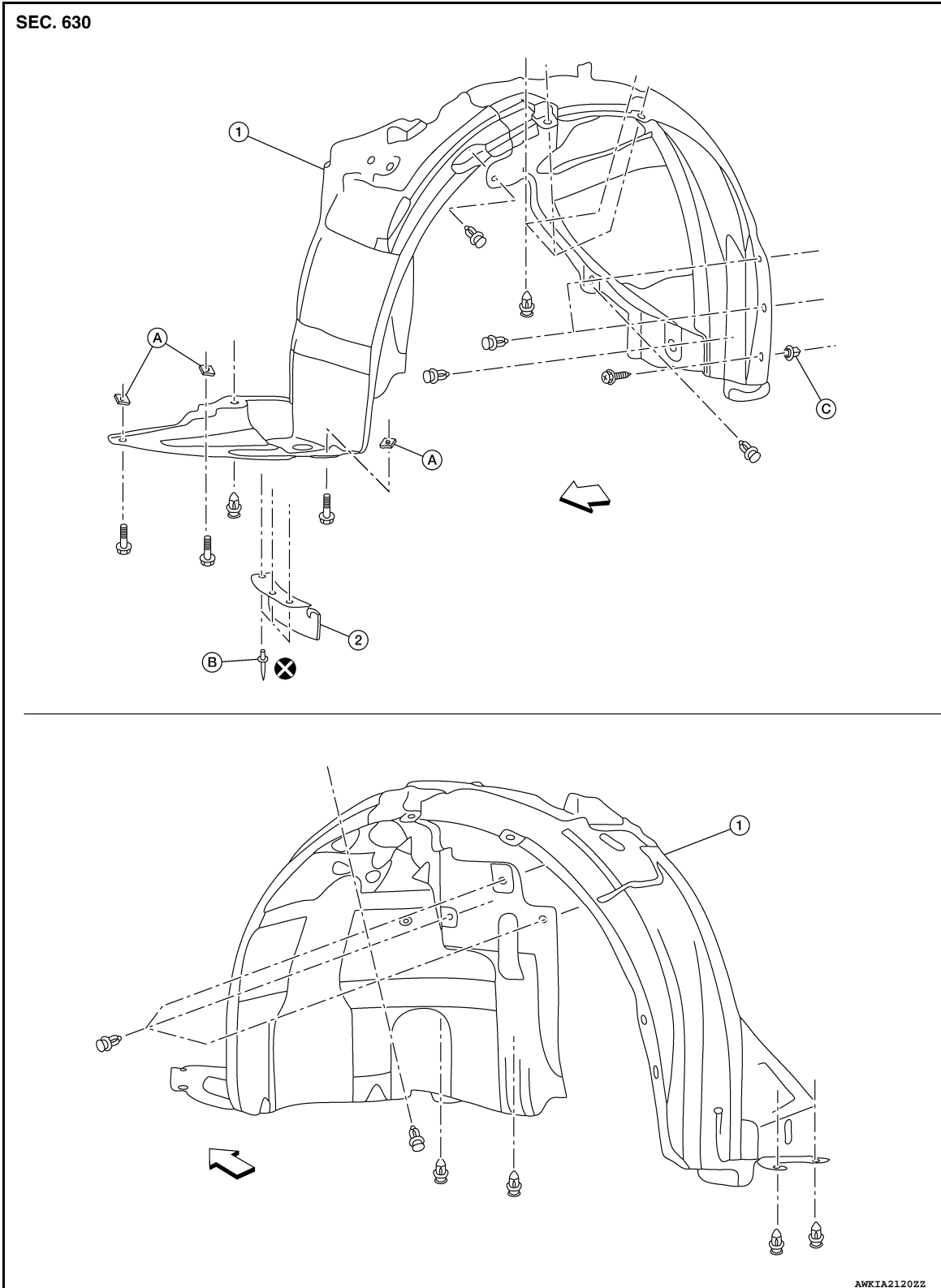
< REMOVAL AND INSTALLATION >

FENDER PROTECTOR

FENDER PROTECTOR

FENDER PROTECTOR : Exploded View

INFOID:000000008765574



FENDER PROTECTOR

< REMOVAL AND INSTALLATION >

1. Front fender protector
- B. Rivet

2. Front wind deflector
- C. Grommet

- A. U nut
- ↩ Front

FENDER PROTECTOR : Removal and Installation - Front Fender Protector

INFOID:000000008765575

REMOVAL

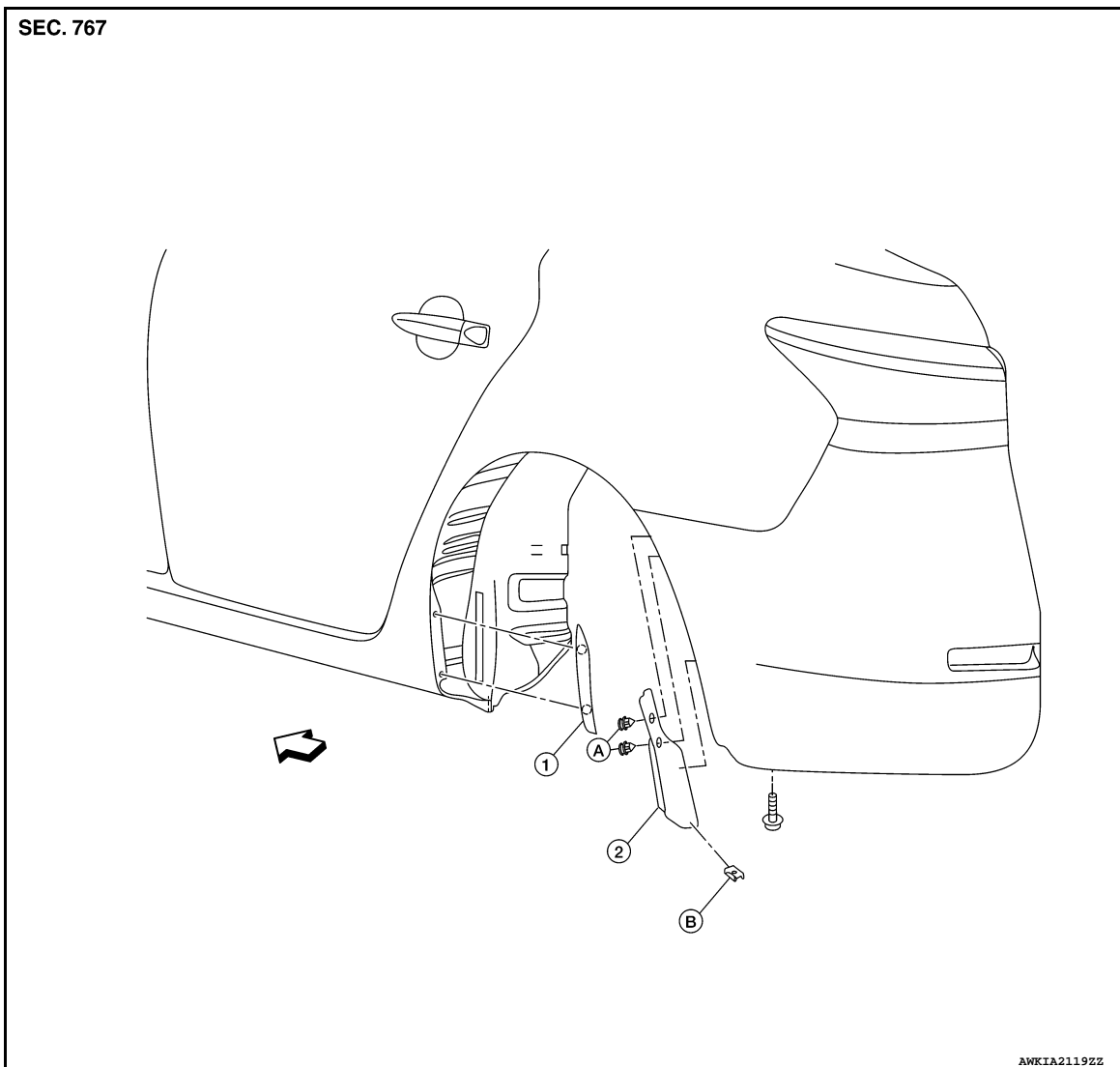
1. Remove front tire and wheel. Refer to [WT-45. "Adjustment"](#).
2. Remove front fender protector screws and clips.
3. Remove front fender protector from wheel house.

INSTALLATION

Installation is in the reverse order of removal.

FENDER PROTECTOR : Exploded View

INFOID:000000009000830



1. Rear wheel opening molding
- B. U-clip

2. Rear fender protector
- ↩ Front

- A. Clip

FENDER PROTECTOR

< REMOVAL AND INSTALLATION >

FENDER PROTECTOR : Removal and Installation - Rear Fender Protector

INFOID:000000009000828

REMOVAL

1. Release the rear wheel opening molding pawls and remove rear wheel opening molding.
2. Remove the rear fender protector clips, bolt and the rear fender protector.

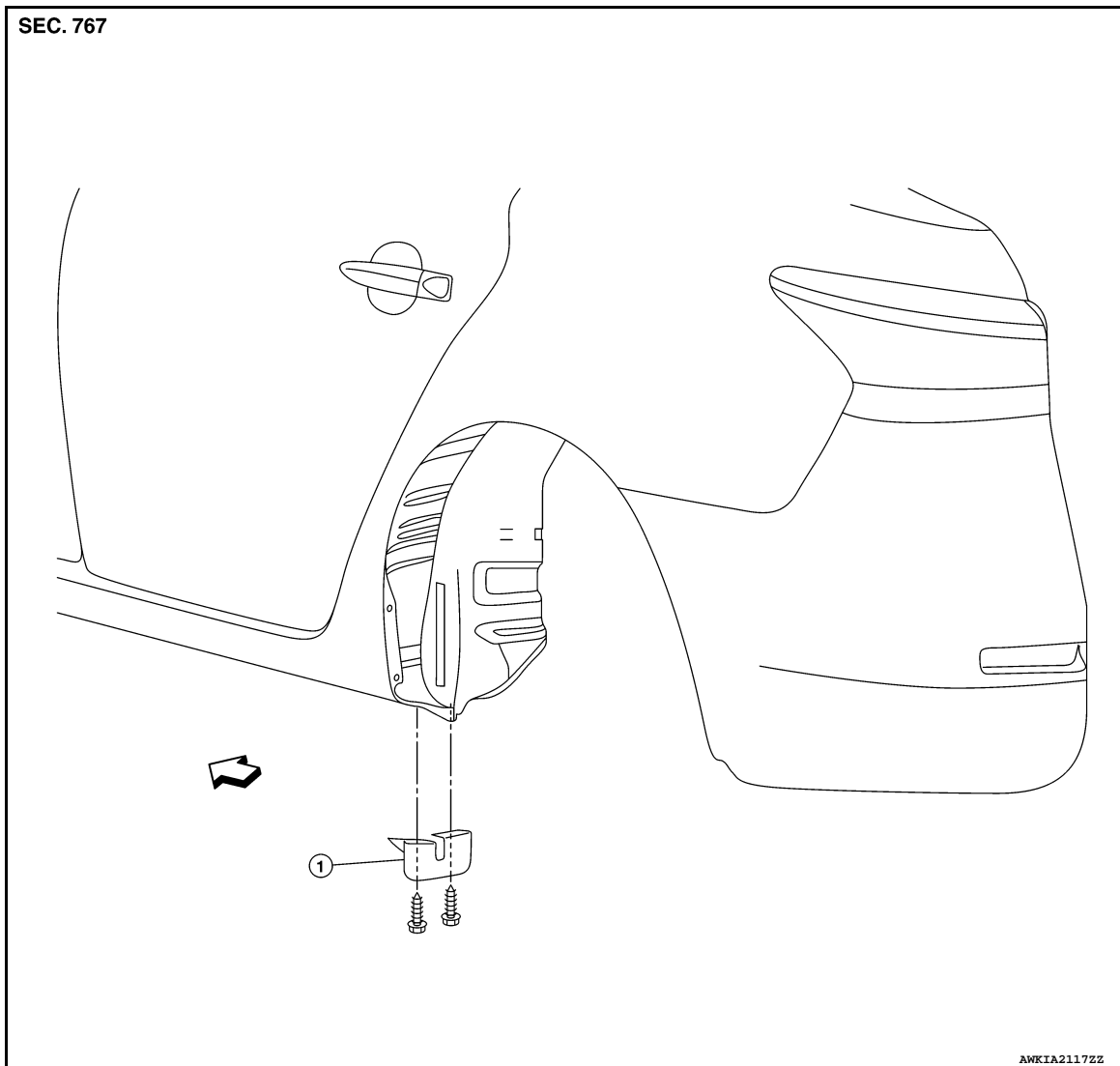
INSTALLATION

Installation is in the reverse order of removal.

REAR WIND DEFLECTOR

REAR WIND DEFLECTOR : Exploded View

INFOID:000000009000831



1. Rear wind deflector

← Front

REAR WIND DEFLECTOR : Removal and Installation

INFOID:000000009000827

REMOVAL

1. Remove the rear wind deflector screws and the rear wind deflector.

INSTALLATION

Installation is in the reverse order of removal.

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UNDER COVER

< REMOVAL AND INSTALLATION >

UNDER COVER

FRONT UNDER COVER

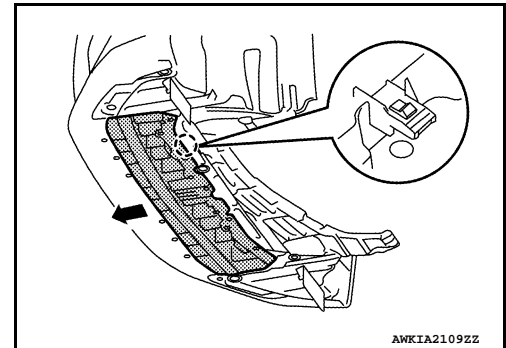
FRONT UNDER COVER : Removal and Installation

INFOID:000000008765567

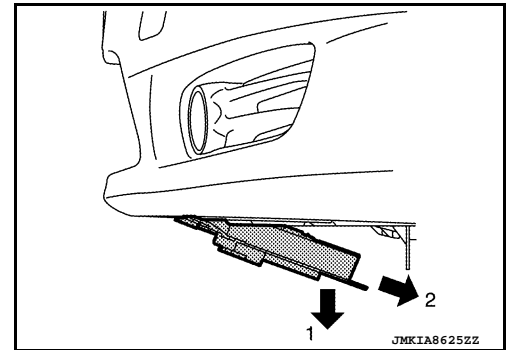
REMOVAL

1. Remove front side of front fender protector (LH/RH). Refer to [EXT-28, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
2. Remove engine under cover. [EXT-31, "ENGINE UNDER COVER : Removal and Installation"](#)
3. Remove front under cover bolts and clips.
4. Slide front under cover toward vehicle front to release pawl.

○: Pawl



5. Pull toward the direction of the arrows as shown to remove front under cover.



INSTALLATION

Installation is in the reverse order of removal.

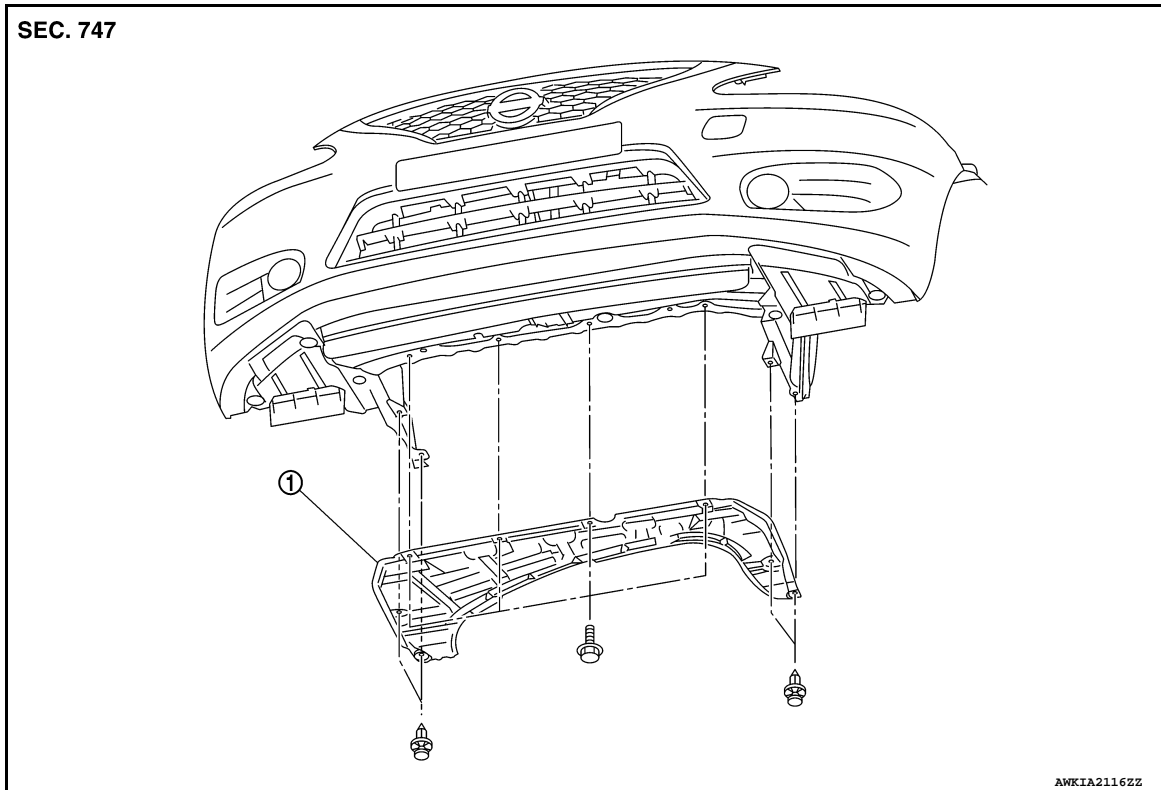
ENGINE UNDER COVER

UNDER COVER

< REMOVAL AND INSTALLATION >

ENGINE UNDER COVER : Exploded View

INFOID:000000008765576



1. Engine under cover

ENGINE UNDER COVER : Removal and Installation

INFOID:000000008765577

REMOVAL

Remove engine under cover bolts, clips and engine under cover.

INSTALLATION

Installation is in the reverse order of removal.

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EXT

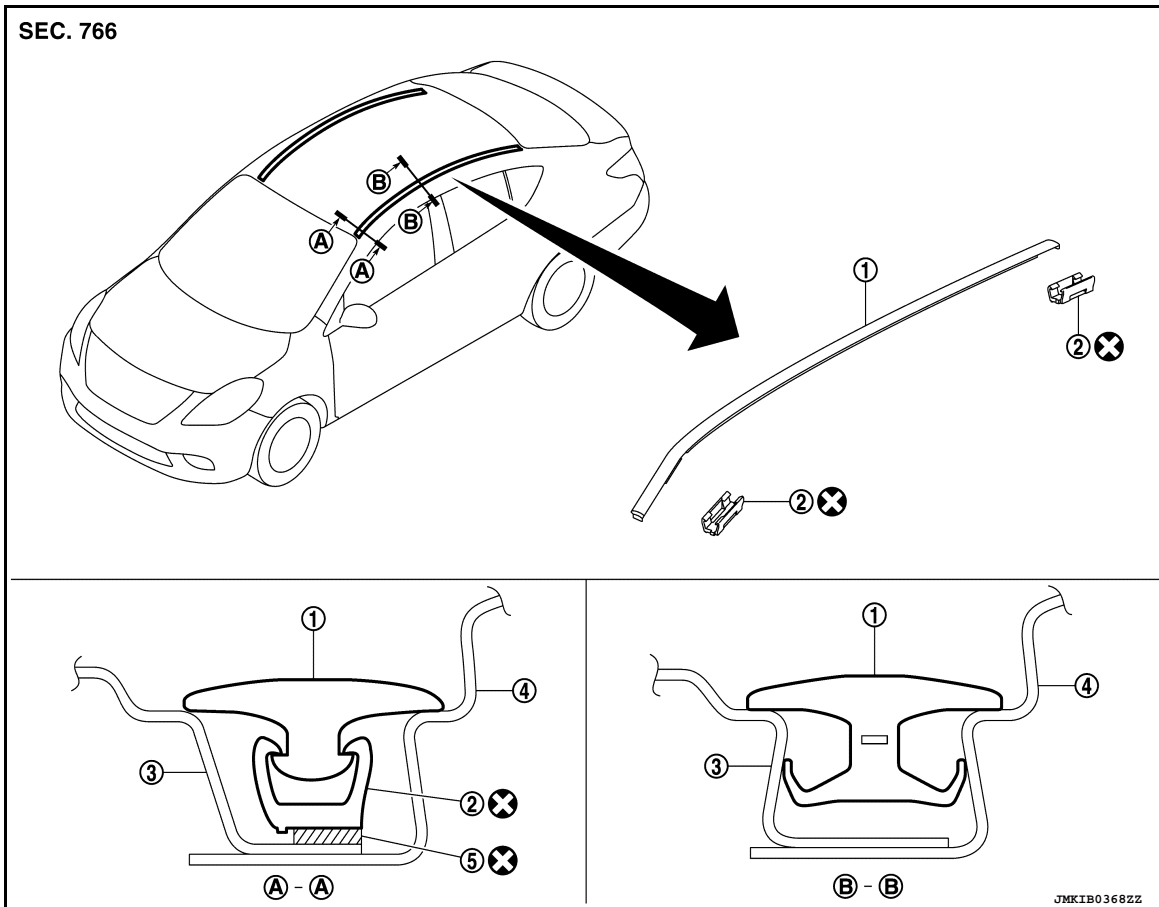
ROOF SIDE MOLDING

< REMOVAL AND INSTALLATION >

ROOF SIDE MOLDING

Exploded View

INFOID:000000008765578



- | | | |
|--------------------------|---------------------------|---------------|
| 1. Roof side molding | 2. Roof side molding clip | 3. Roof panel |
| 4. Body side outer panel | 5. Adhesive tape | |

Removal and Installation

INFOID:000000008765579

REMOVAL

ROOF SIDE MOLDING

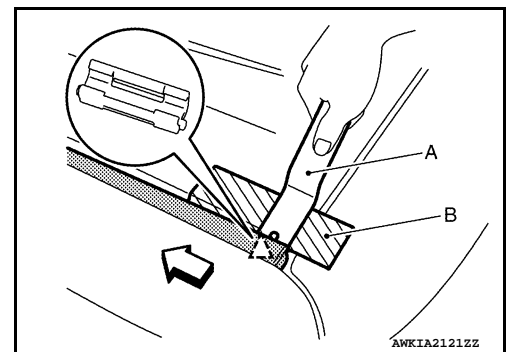
1. Release roof side molding rear side clip, using a suitable tool (A).

△: Clip

⇐: Front

CAUTION:

Apply protective tape (B) on body to protect the painted surface from damage.



ROOF SIDE MOLDING

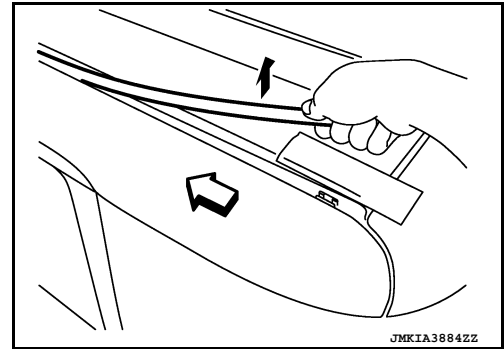
< REMOVAL AND INSTALLATION >

2. Pull up roof side molding from rear end to front end.

⇐: Front

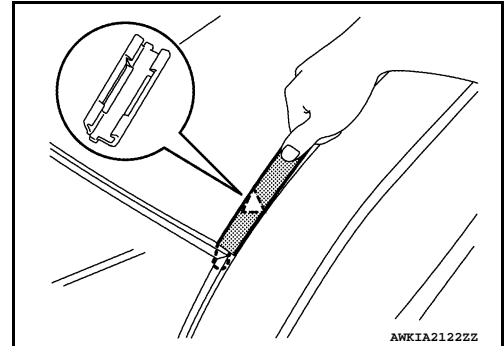
CAUTION:

Use care when pulling the roof side molding to avoid damaging.



3. Release windshield molding and clip at the front end of roof side molding, then remove while pulling toward vehicle rear.

△: Clip



REMOVAL OF ROOF SIDE MOLDING CLIPS

Heat adhesive tape using a heat gun and peel roof side molding clips (body side) using a suitable tool.

CAUTION:

Be careful not to damage the body.

INSTALLATION

1. Clean tape removed surface with isopropyl alcohol or equivalent.
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 roof side molding 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

CAUTION:

- Use double-sided tape after hardening for roof side molding clips.
- Securely insert molding rear end cap onto roof rear end cutout (installation standard).
- When installing roof side molding of windshield glass portion, check that body side molding fastener is securely inserted and then press in.
- Do not wash the vehicle within 24 hours so as to keep adhesive dry.

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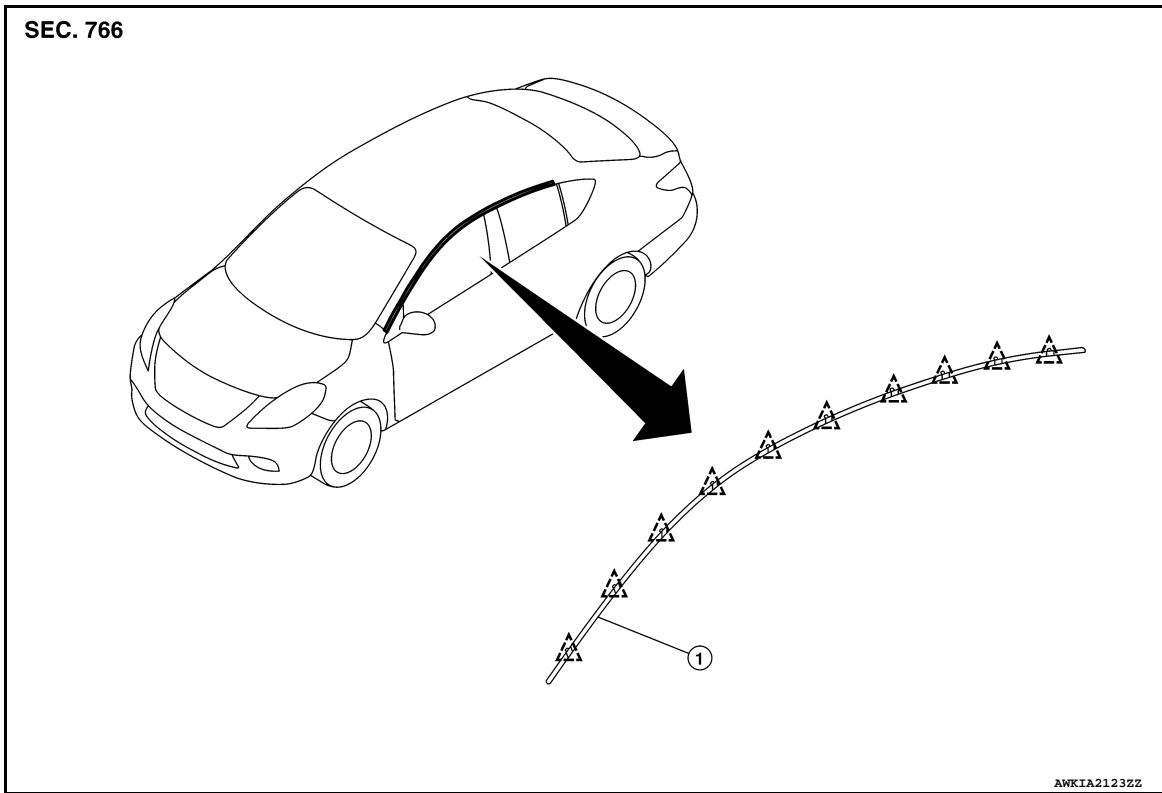
DRIP MOLDING

< REMOVAL AND INSTALLATION >

DRIP MOLDING

Exploded View

INFOID:000000008765580



1. Drip molding

 Clip

Removal and Installation

INFOID:000000008765581

REMOVAL

Release drip molding clips, then remove drip molding.

INSTALLATION

Installation is in the reverse order of removal.

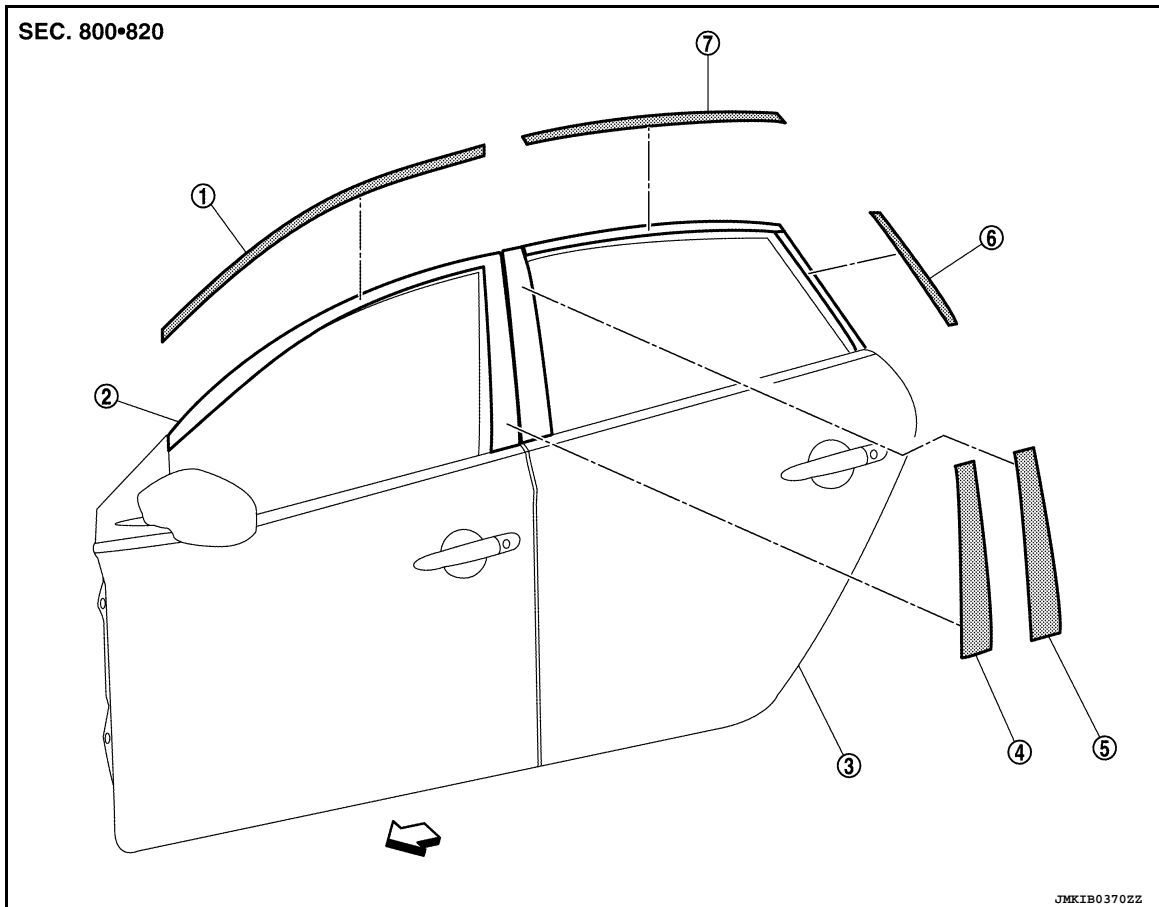
DOOR SASH TAPE

< REMOVAL AND INSTALLATION >

DOOR SASH TAPE

Exploded View

INFOID:000000008765582



- | | | |
|-------------------------------|------------------------------|-----------------------------|
| 1. Front door sash upper tape | 2. Front door assembly | 3. Rear door assembly |
| 4. Front door sash rear tape | 5. Rear door sash front tape | 6. Rear door sash rear tape |
| 7. Rear door sash upper tape | | |

FRONT DOOR SASH TAPE

FRONT DOOR SASH TAPE : Removal and Installation

INFOID:000000008765583

REMOVAL

Heat door sash tape surface using a heat gun and peel door sash tape.

CAUTION:

Do not damage painted surface of door.

INSTALLATION

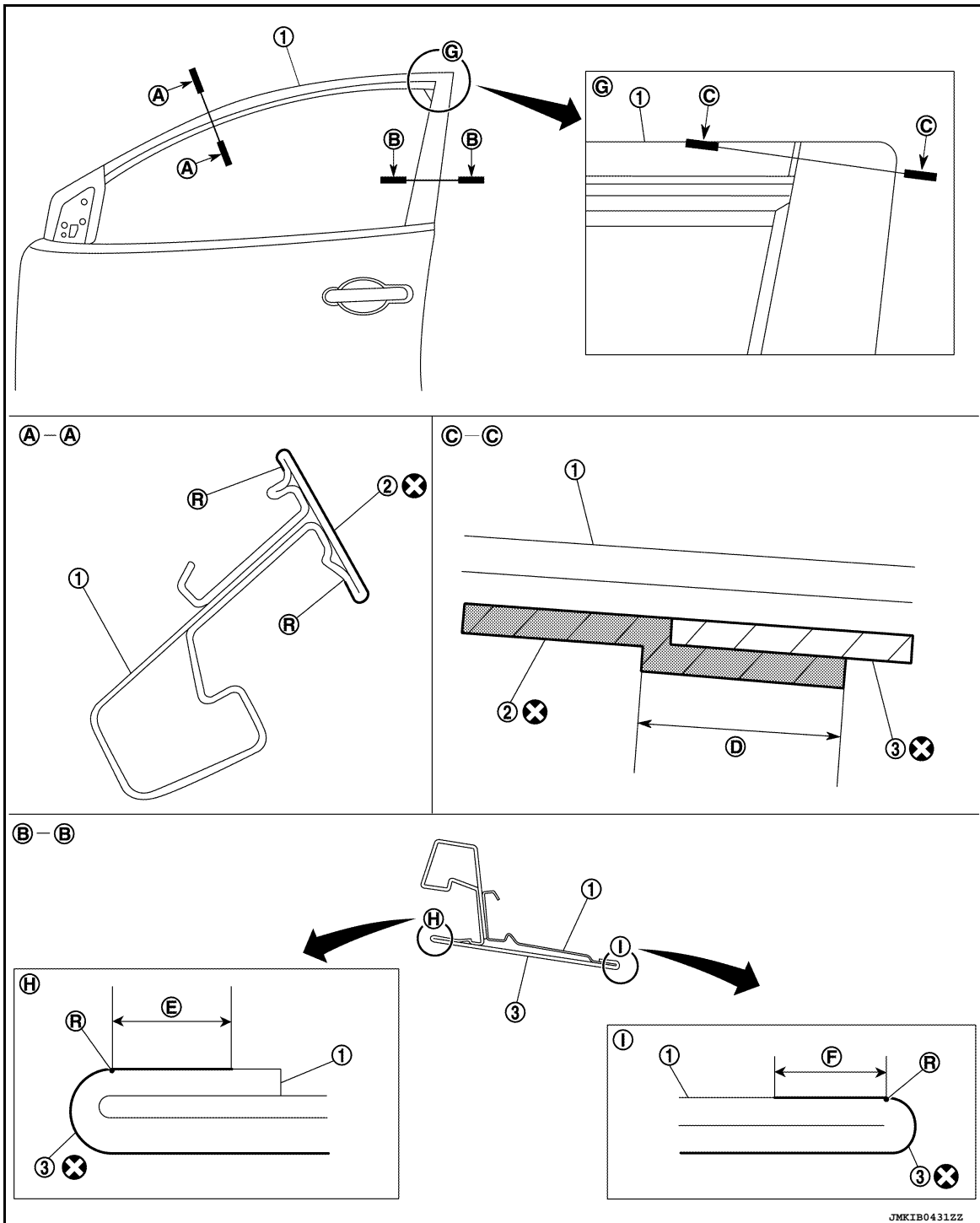
NOTE:

For installation position of door sash tape, refer to the position as shown.

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DOOR SASH TAPE

< REMOVAL AND INSTALLATION >



1. Front door assembly

2. Front door sash tape

3. Front door sash rear tape

R. R end

D : 1.0 – 3.0 mm (0.04 – 0.12 in)

E : 3.5 mm (0.14 in)

F : 3.5 mm (0.14 in)

CAUTION:

- Degrease front door assembly surface for sash tape.
- Grit or dust on surface of sash tape may spoil exterior appearance if not removed. Clean the surface and check that no grit or dust remains before starting the operation.
- Do not reuse blackout tape.

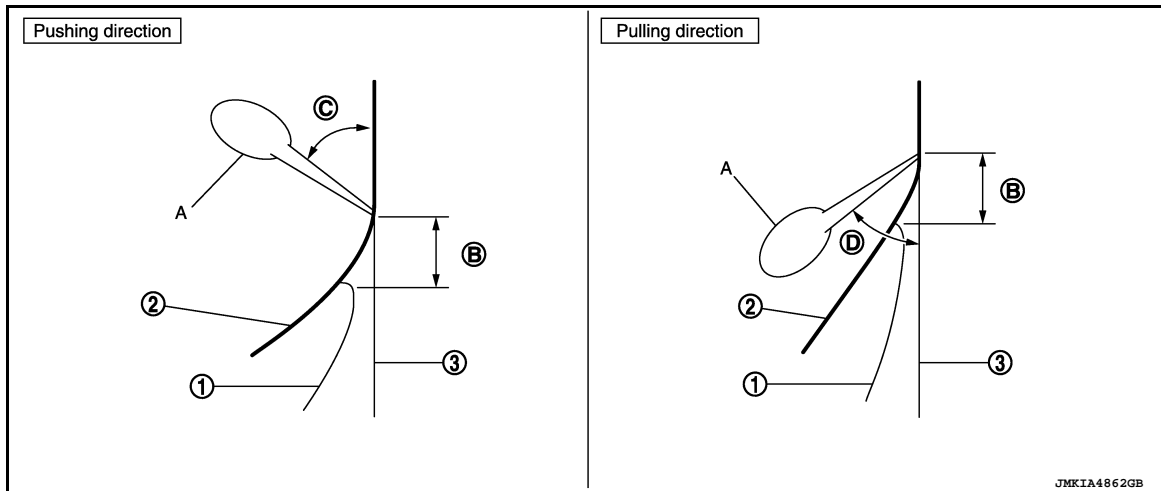
DOOR SASH TAPE

< REMOVAL AND INSTALLATION >

1. Affix door sash tape align blackout tape upper portion to rear door outer upper end.
2. Affix door sash tape (2) to door panel (3) by applying pressure using a squeegee (A) while peeling off release coated paper (1).

NOTE:

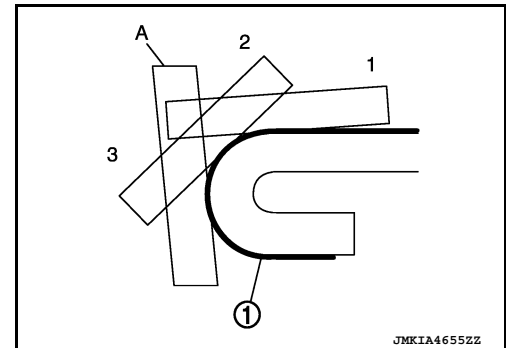
- Peel release coated paper at distance of 10 – 20 mm (0.39 – 0.79 in) ahead (B) of squeegee and affix blackout paper.
- To prevent any bubbles from forming, slightly lift the portion not yet affixed using a squeegee, so that portion does not contact with panel surface. Apply pressure and affix at a low and constant speed using squeegee tilted at 40 – 50° angle (pushing direction) (C) 30 – 45° angle (pulling direction) (D).



3. For small radius portion of hemming part, gradually apply pressure and affix door sash tape ① using squeegee (A) in 1 → 3 steps.

CAUTION:

Do not wash the vehicle with in 24 hours so as to keep adhesive dry.



REAR DOOR SASH TAPE

REAR DOOR SASH TAPE : Removal and Installation

INFOID:000000008765584

REMOVAL

Heat door sash tape surface using a heat gun and peel door sash tape.

CAUTION:

Do not damage painted surface of door.

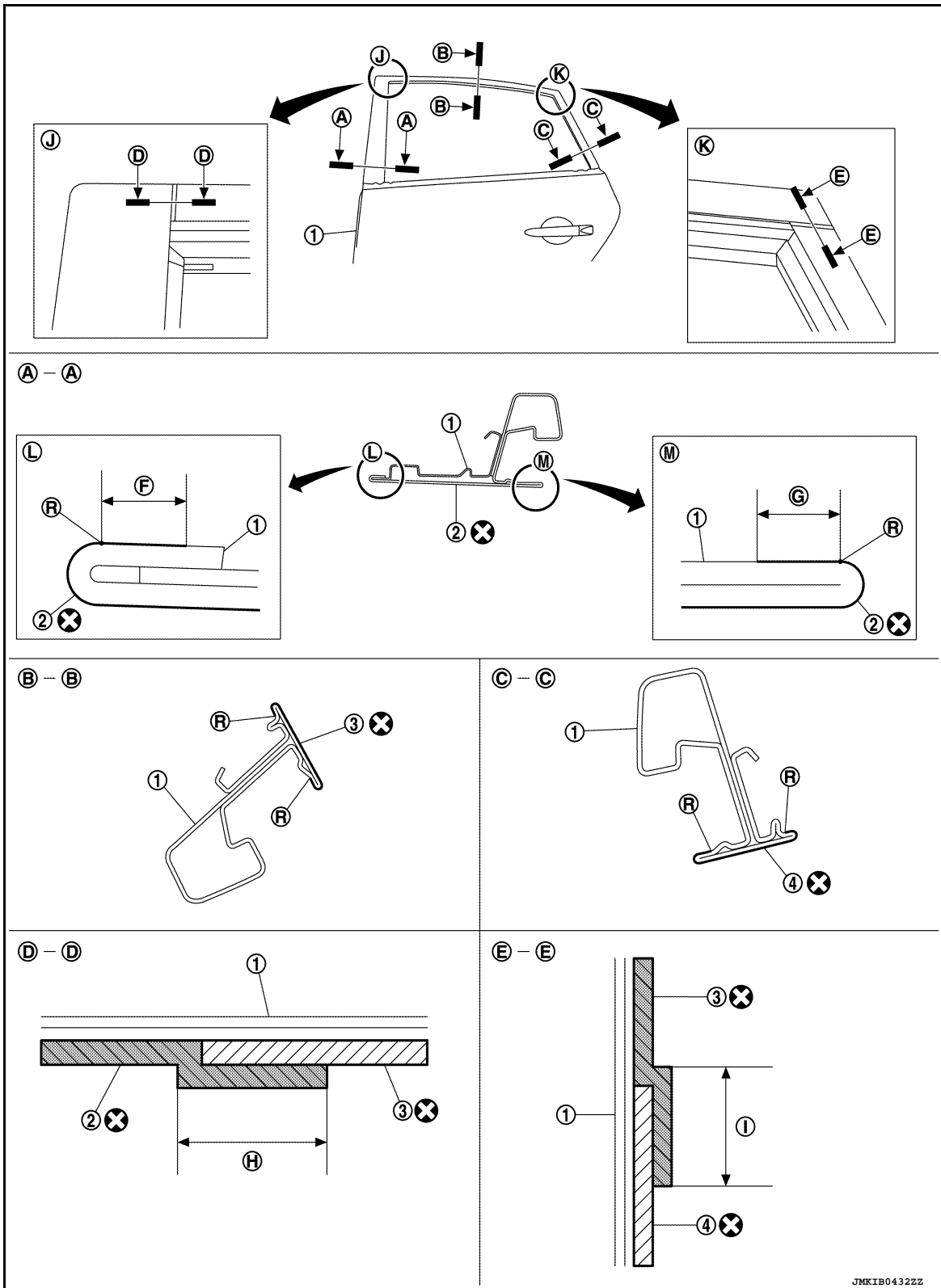
INSTALLATION

NOTE:

For installation position of door sash tape, refer to the position as shown.

DOOR SASH TAPE

< REMOVAL AND INSTALLATION >



JMKIB0432ZZ

- 1. Rear door assembly
- 2. Rear door sash rear tape
- 3. Rear door sash tape
- 4. Rear door sash rear tape
- R. R end

- F 3.0 mm (0.12 in)
- G 3.5 mm (0.14 in)
- H 1.0 – 3.0 mm (0.04 – 0.12 in)
- I 1.0 – 3.0 mm (0.04 – 0.12 in)

DOOR SASH TAPE

< REMOVAL AND INSTALLATION >

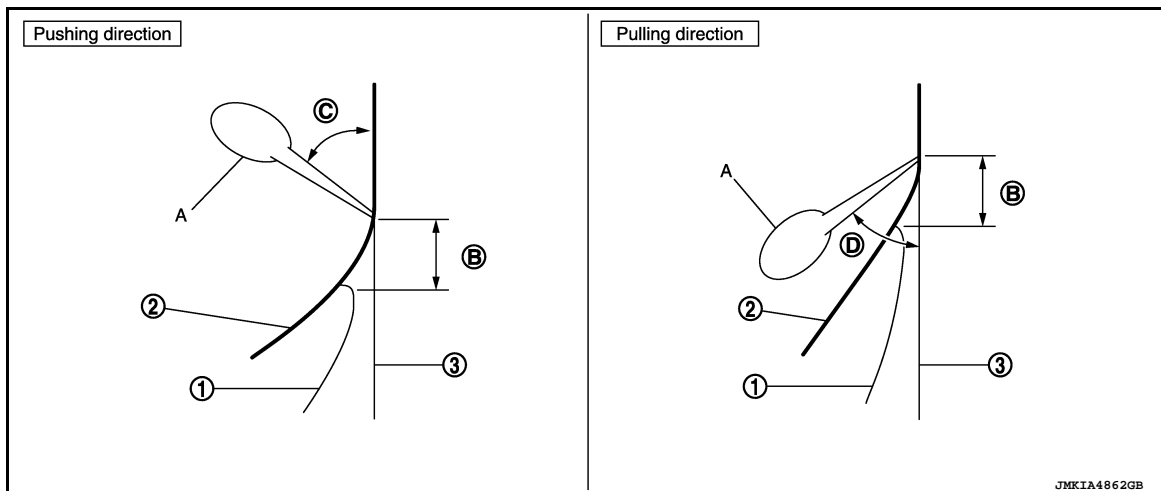
CAUTION:

- Degrease rear door assembly surface for door sash tape.
- Grit or dust on surface of door sash tape may spoil exterior appearance if not removed. Clean the surface and check that no grit or dust remains before starting the operation.
- Do not reuse door sash tape.

1. Affix door sash tape align door sash tape upper portion to rear door outer upper end.
2. Affix door sash tape (2) to door panel (3) by applying pressure using a squeegee (A) while peeling off release coated paper (1).

NOTE:

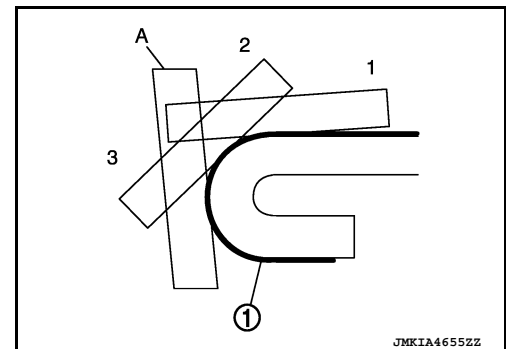
- Peel release coated paper at distance of 10 – 20 mm (0.39 – 0.79 in) ahead (B) of squeegee and affix blackout paper.
- To prevent any bubbles from forming, slightly lift the portion, not yet affixed using squeegee, so that portion does not contact with panel surface. Apply pressure and affix at a low and constant speed using squeegee tilted at 40 – 50° angle (pushing direction) (C) 30 – 45° angle (pulling direction) (D).



3. For small radius portion of hemming part, gradually apply pressure and affix door sash tape (1) using squeegee (A) in 1 → 3 steps.

CAUTION:

Do not wash the vehicle with in 24 hours so as to keep adhesive dry.



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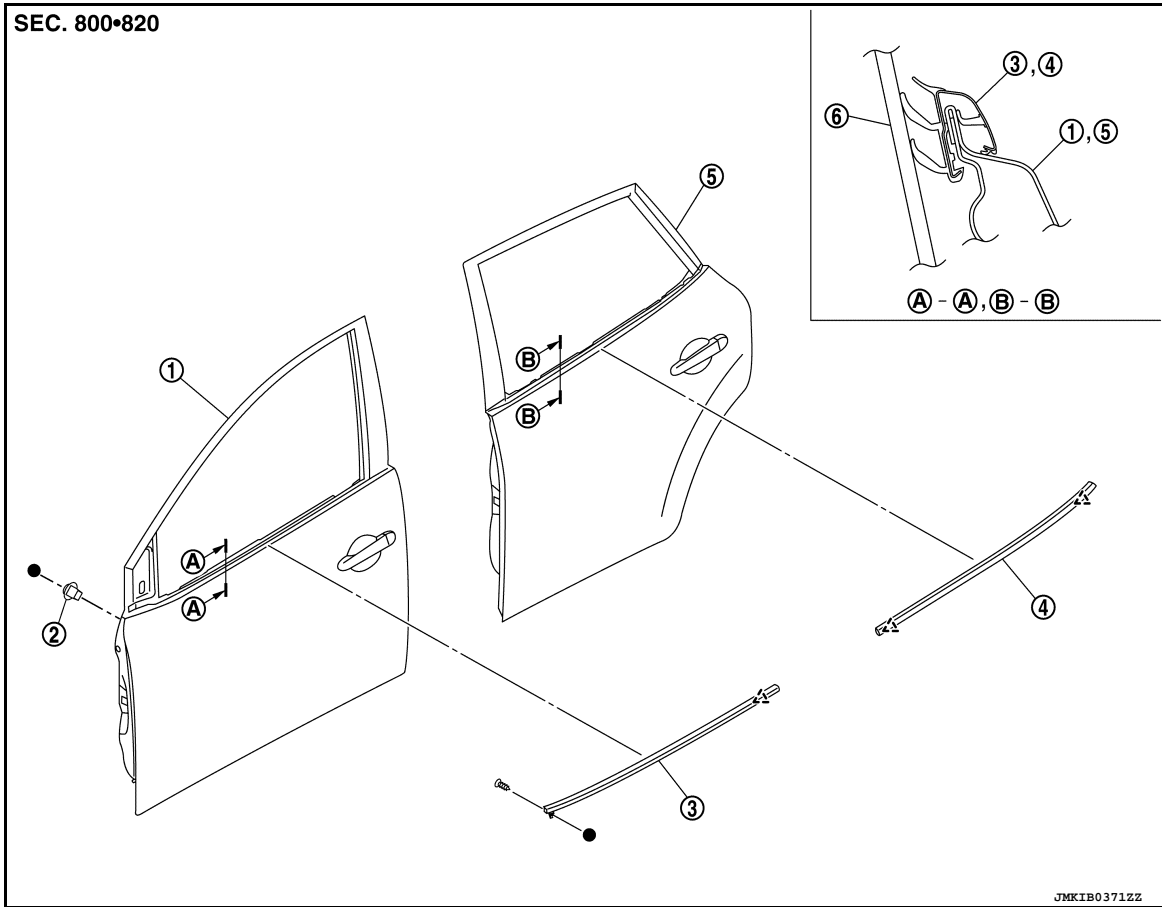
DOOR OUTSIDE MOLDING

< REMOVAL AND INSTALLATION >


DOOR OUTSIDE MOLDING

Exploded View

INFOID:000000008765585



- | | | |
|------------------------------|-----------------------|-------------------------------|
| 1. Front door assembly | 2. Grommet | 3. Front door outside molding |
| 4. Rear door outside molding | 5. Rear door assembly | 6. Door glass |

 Clip

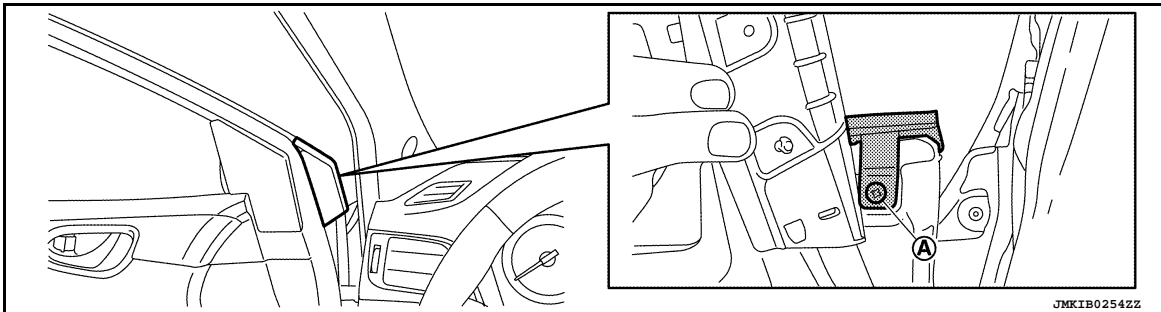
FRONT DOOR OUTSIDE MOLDING

FRONT DOOR OUTSIDE MOLDING : Removal and Installation

INFOID:000000008765586

REMOVAL

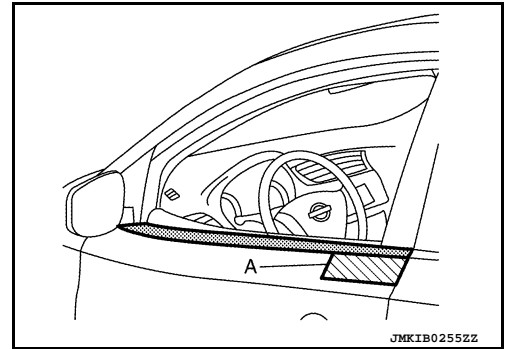
1. Open front door glass.
2. Remove front door mirror. Refer to [MIR-18. "DOOR MIRROR ASSEMBLY : Removal and Installation"](#).
3. Remove front door outside molding screw (A).



DOOR OUTSIDE MOLDING

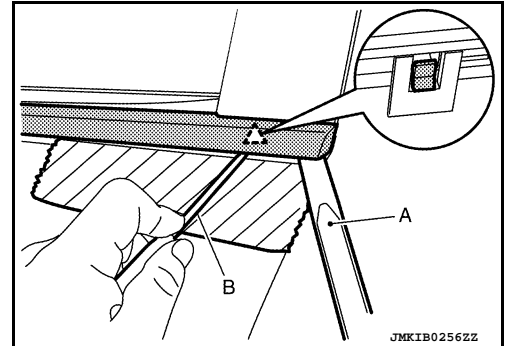
< REMOVAL AND INSTALLATION >

4. Apply protective tape (A) to protect the component from damage.

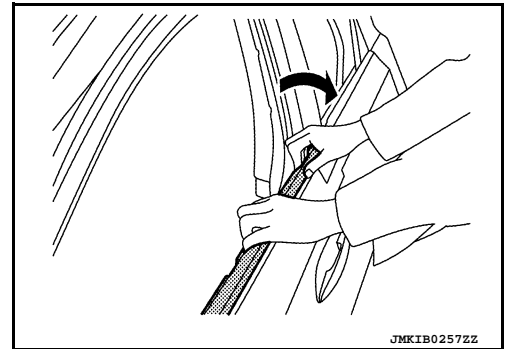


5. Release rear end of front door outside molding clip using suitable tools (A,B).

△: Clip



6. Rotate and lift as shown to remove the front door outside molding.



INSTALLATION

Installation is in the reverse order of removal.

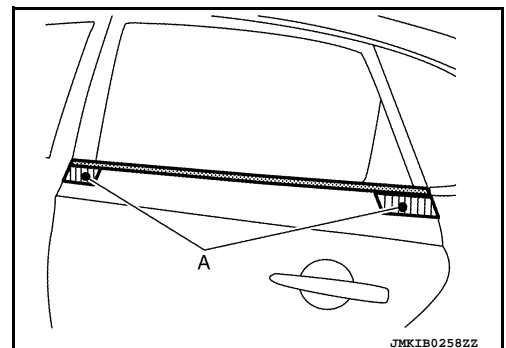
REAR DOOR OUTSIDE MOLDING

REAR DOOR OUTSIDE MOLDING : Removal and Installation

INFOID:000000008765587

REMOVAL

1. Open rear door glass.
2. Apply protective tape (A) to protect the component from damage.



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DOOR OUTSIDE MOLDING

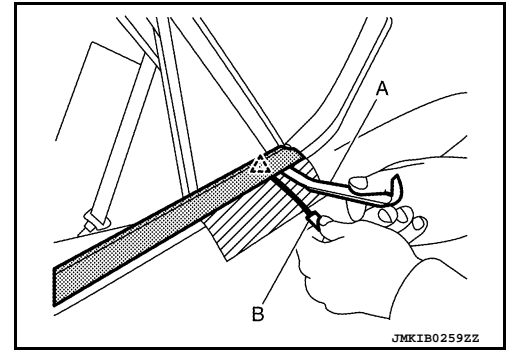
< REMOVAL AND INSTALLATION >

3. Release clip of rear door outside molding front and rear end, using suitable tools (A, B).

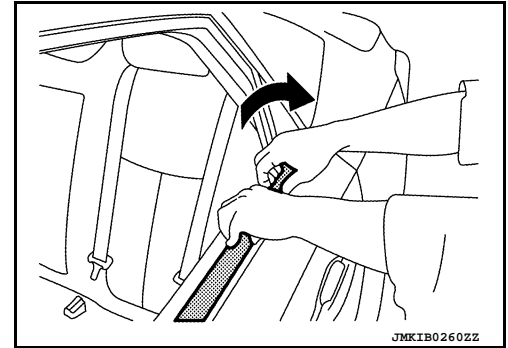
△: Clip

CAUTION:

Use care when lifting rear door outside molding to prevent damage.



4. Rotate and lift as shown to remove the rear door outside molding.



INSTALLATION

Installation is in the reverse order of removal.

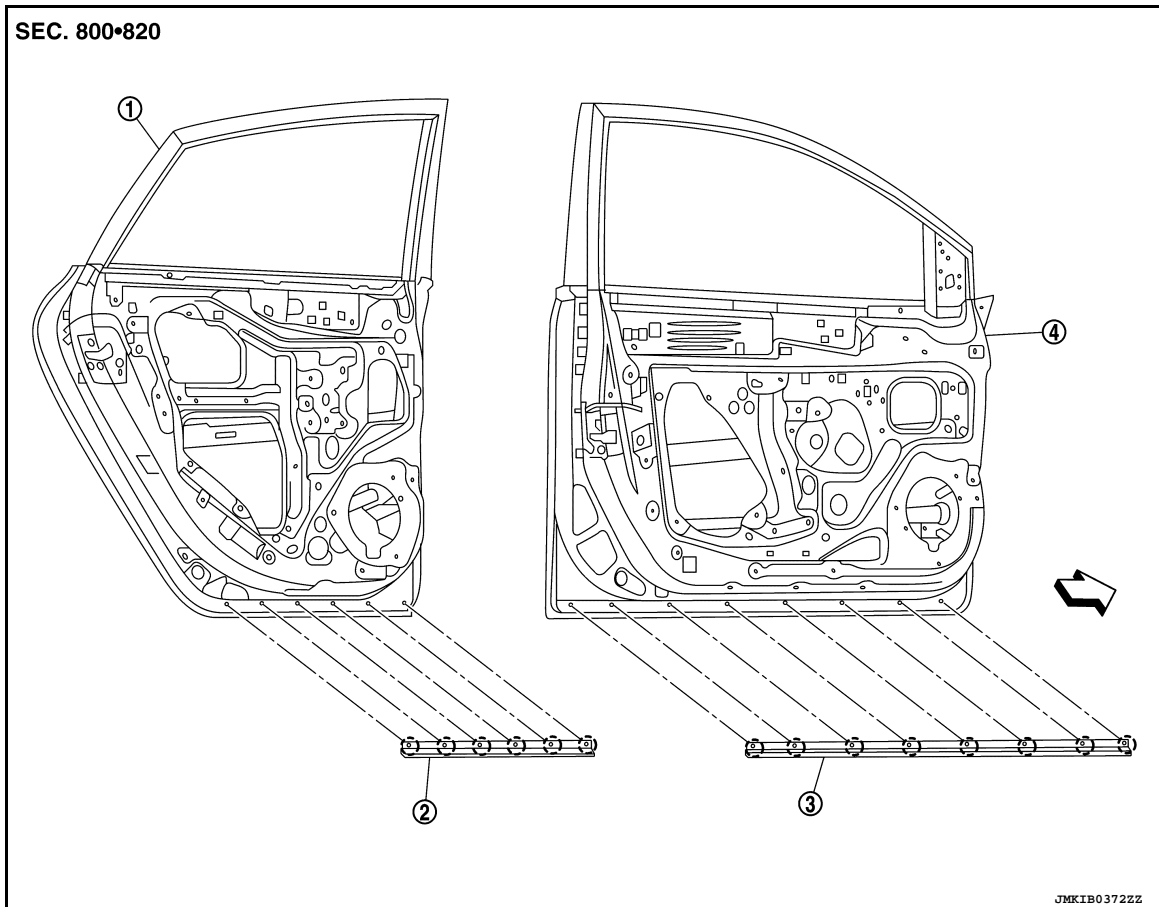
DOOR PARTING SEAL

< REMOVAL AND INSTALLATION >

DOOR PARTING SEAL

Exploded View

INFOID:000000008765588



- 1. Rear door panel
 - 2. Rear door parting seal
 - 3. Front door parting seal
 - 4. Front door panel
- Pawl ← Front

Removal and Installation

INFOID:000000008765589

REMOVAL

1. Open door.
2. Release parting seal pawls, then remove parting seal.

INSTALLATION

Installation is in the reverse order of removal.

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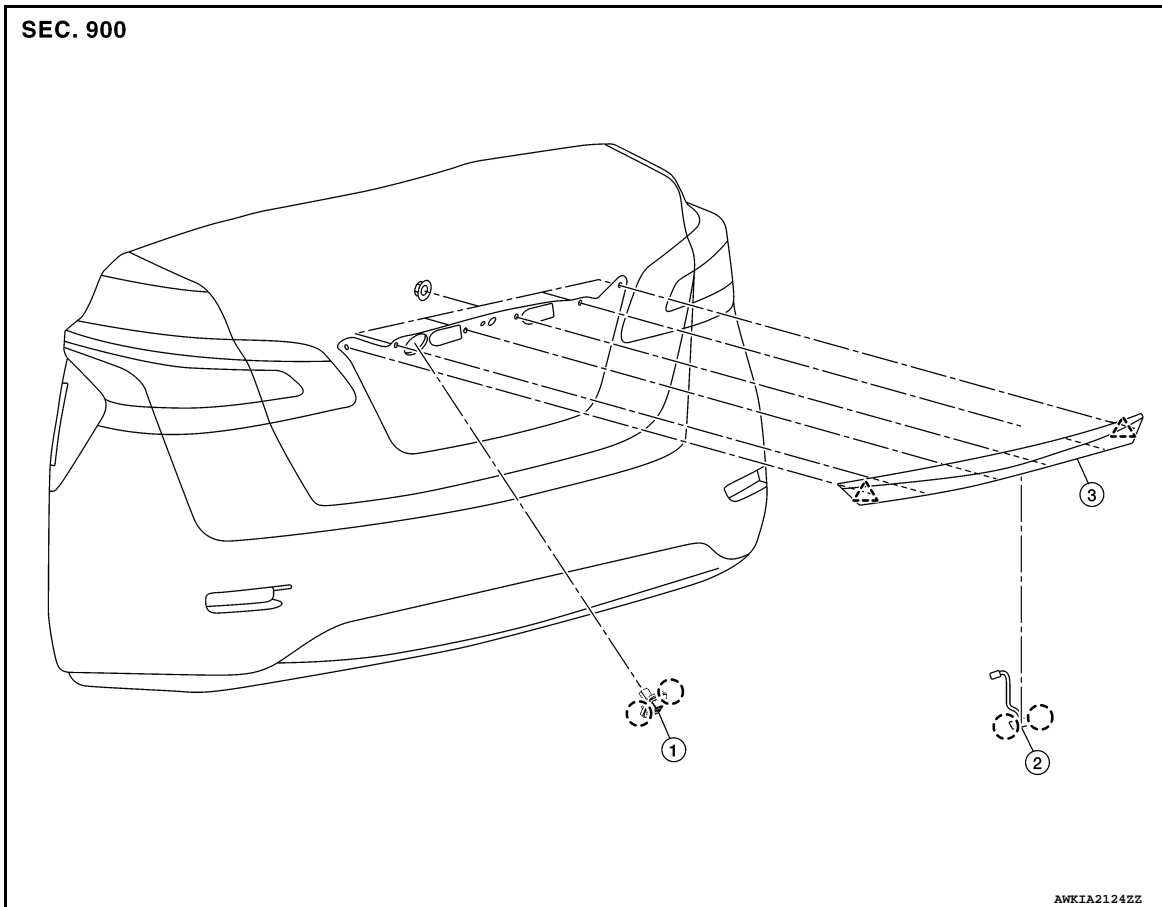
LICENSE LAMP FINISHER

< REMOVAL AND INSTALLATION >

LICENSE LAMP FINISHER

Exploded View

INFOID:000000008765590



1. Rear view camera

2. Trunk lid opener request switch

3. License lamp finisher

△ Clip

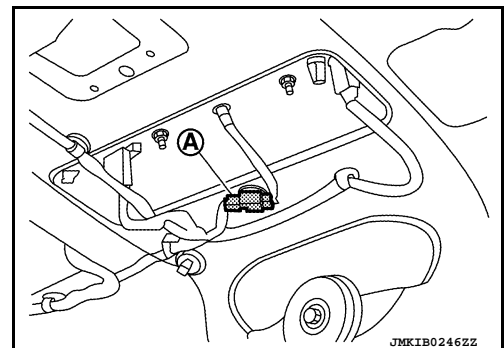
○ Pawl

Removal and Installation

INFOID:000000008765591

REMOVAL

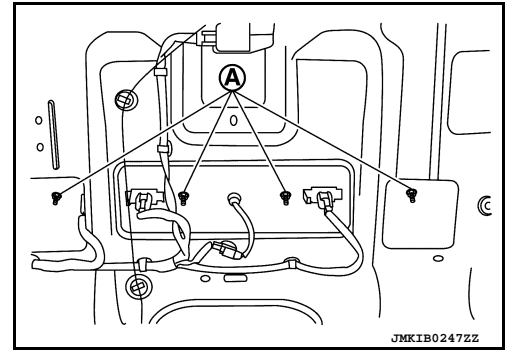
1. Remove trunk lid trim. Refer to [INT-45. "Removal and Installation"](#).
2. Disconnect the harness connector (A) from trunk lid opener request switch.



LICENSE LAMP FINISHER

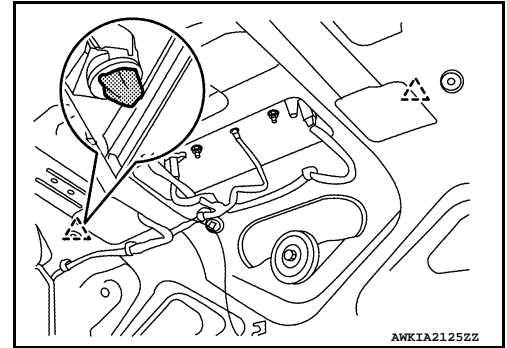
< REMOVAL AND INSTALLATION >

3. Remove license lamp finisher nuts (A).



4. Release clips of license lamp finisher from inside of trunk lid, and then remove.

△: Clip



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

When installing license lamp finisher, check that clips are placed in body panel holes, then press them in.

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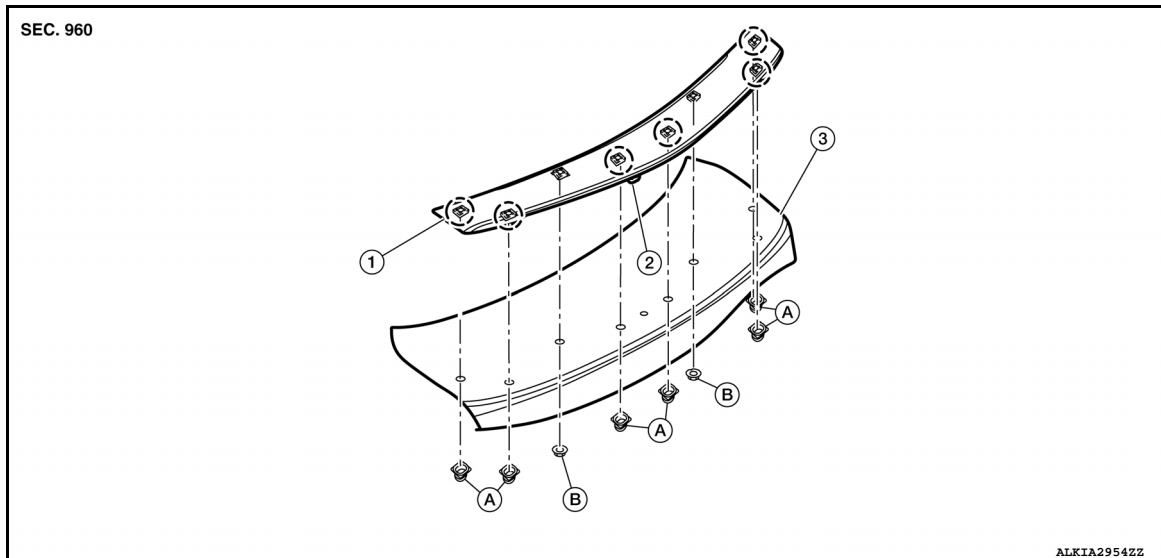
REAR AIR SPOILER

< REMOVAL AND INSTALLATION >

REAR AIR SPOILER

Removal and Installation

INFOID:000000009000647



- | | | |
|---------------------|---|--------------|
| 1. Rear air spoiler | 2. High mounted stop lamp connector (if equipped) | 3. Trunk lid |
| A. Grommet | B. Nut | ← Front |

Removal

1. Remove trunk lid finisher. Refer to [INT-45, "Removal and Installation"](#).
2. Disconnect the harness connector from the high mounted stop lamp (if equipped).
3. Remove the rear air spoiler nuts.
4. Carefully release and lift the rear air spoiler from the gaskets using a suitable tool.
5. Carefully pry upward to release the foam tape (gasket) from trunk lid surface, using a suitable tool.

CAUTION:

Use care not to damage painted surfaces during removal or releasing of adhesive backed foam tapes.

6. Release the high mounted stop lamp connector and grommet (if equipped) from trunk lid, then remove rear air spoiler.

Installation

Installation is in the reverse order of removal.

NOTE:

- Before installing, be sure there are no gaps or waves in the foam tape (gasket) where the surfaces meet.
- During installation, be sure grommet of high mounted stop lamp harness is fully seated into trunk lid opening prior to final rear air spoiler placement.
- Before installing rear air spoiler, clean the surface where it will be mounted with isopropyl alcohol or equivalent to degrease the surface.

CAUTION:

Some plastic surfaces may become damaged if contacted by alcohol. Cover and protect the rear combination lamp assemblies. If alcohol does come into contact with the lenses, immediately wash the surface with water.