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PRECAUTIONS

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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 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

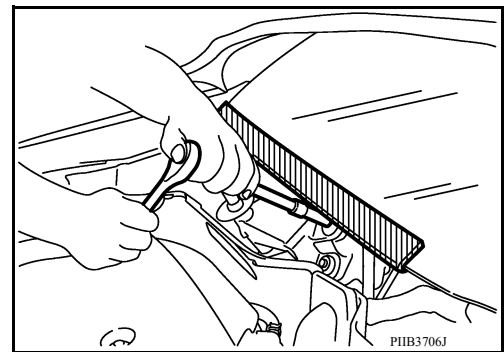
WARNING:

- 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:

PRECAUTIONS

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- 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:
 - 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.

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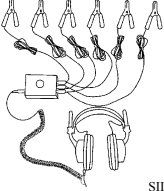
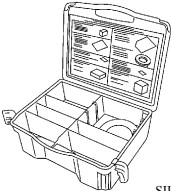
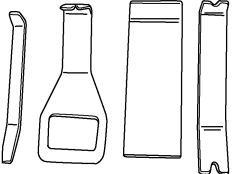
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PREPARATION

Special Service Tools

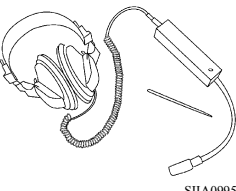

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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
<p>— (J-39570) Chassis Ear</p>  <p style="text-align: center;">S1A0993E</p>	Locating the noise
<p>— (J-43980) NISSAN Squeak and Rattle Kit</p>  <p style="text-align: center;">S1A0994E</p>	Repairing the cause of noise
<p>— (J-46534) Trim Tool Set</p>  <p style="text-align: center;">AWJIA0483ZZ</p>	Removing trim components

Commercial Service Tools

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(Kent-Moore No.) Tool name	Description
<p>(J-39565) Engine Ear</p>  <p style="text-align: center;">S1A0995E</p>	Locating the noise
<p>(—) Power tool</p>  <p style="text-align: center;">PIIB1407E</p>	Loosening nuts, screws and bolts

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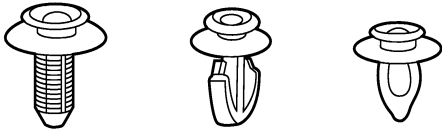


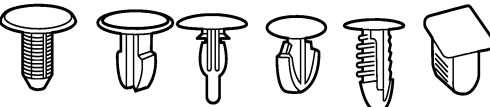
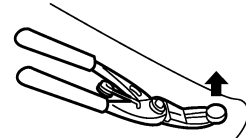

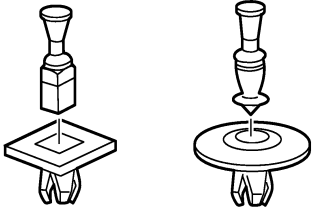
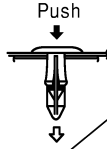
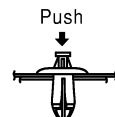

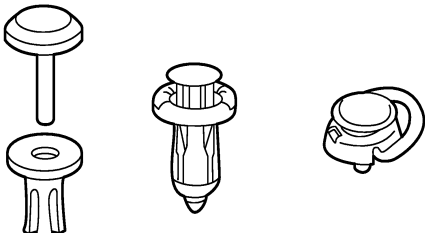
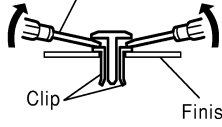

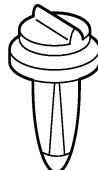
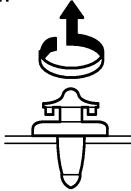
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CLIP LIST

Descriptions for Clips

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Replace any clips which are damaged during removal or installation.


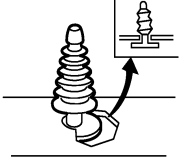
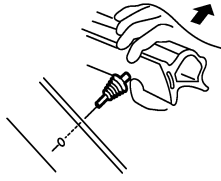

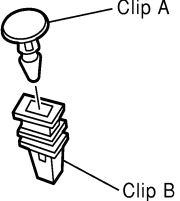
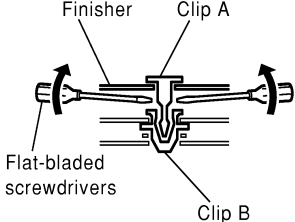

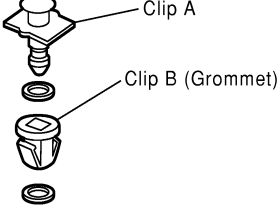
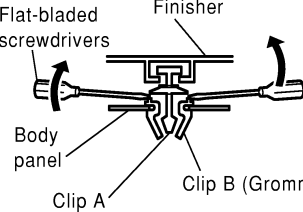
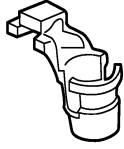
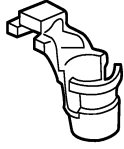
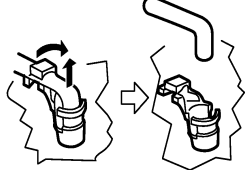

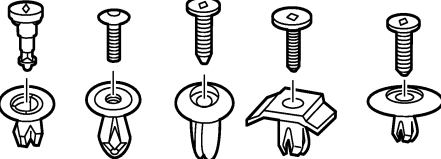

Symbol No.	Shapes	Removal & Installation
<p>C101</p> 		<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p> 
<p>C103</p> 		<p>Removal: Remove with a clip remover.</p> 
<p>C203</p> 		<p>Removal: Push center pin to catching position. (Do not remove center pin by hitting it.)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

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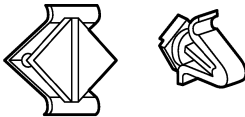

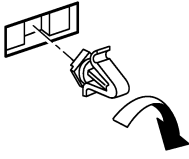

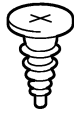



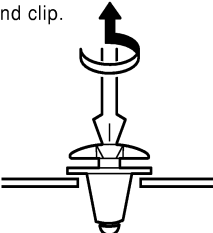


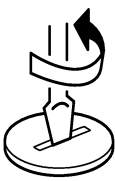
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Symbol No.	Shapes	Removal & Installation
<p>CE103</p> 		<p>Removal:</p> 
<p>CF110</p> 		<p>Removal:</p> 
<p>CF118</p> 		<p>Removal:</p> 
<p>CR103</p> 		<p>Removal: Holder portion of clip must be spread out to remove rod.</p> 
<p>CS101</p> 		<p>Removal:</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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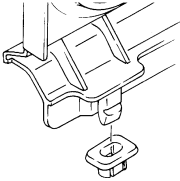
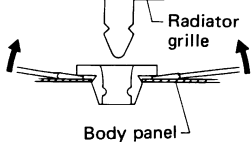

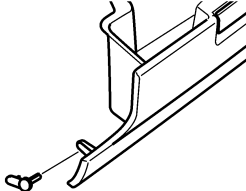
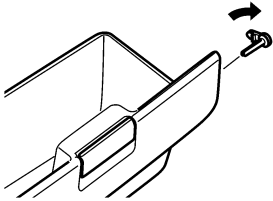

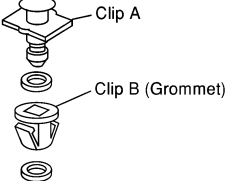
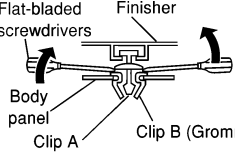
Symbol No.	Shapes	Removal & Installation	
CG101 		Removal:  Rotate 45° to remove	Installation: 
CS102 			
CS113 		Removal: Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip. 	
C111 			

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Symbol No.	Shapes	Removal & Installation
<p>CG104</p> 		<p>Removal: Remove by bending up with flat-bladed screwdrivers.</p>  <p>Radiator grille Body panel</p>
<p>CE114</p> 		
<p>CF118</p> 	 <p>Clip A Clip B (Grommet)</p>	<p>Removal: Flat-bladed screwdrivers Finisher</p>  <p>Body panel Clip A Clip B (Grommet)</p>

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

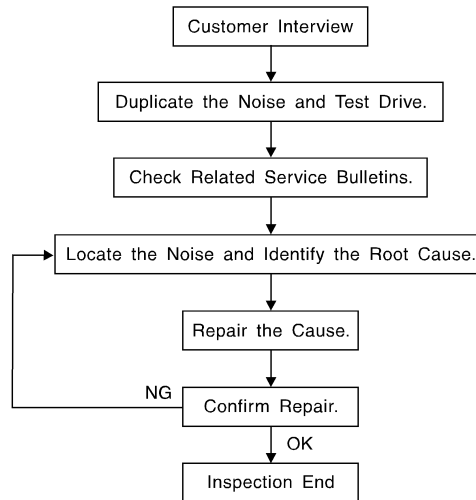
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SYMPTOM DIAGNOSIS

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-13, "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 [GW-11, "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

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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. 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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

INFOID:00000009268549

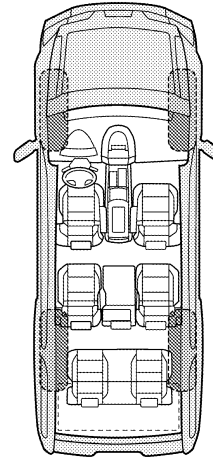
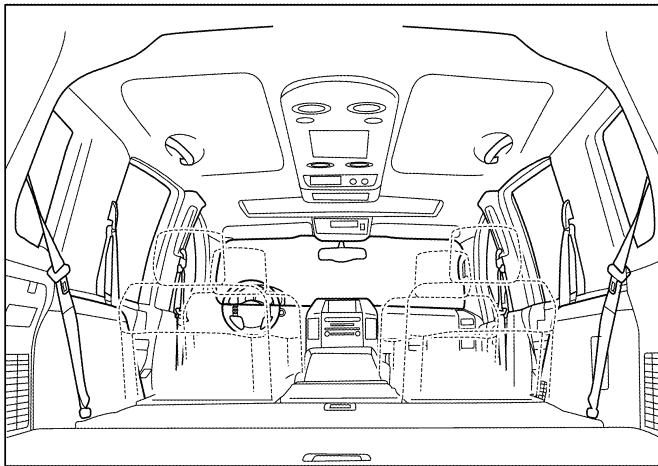
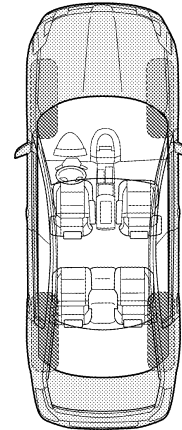
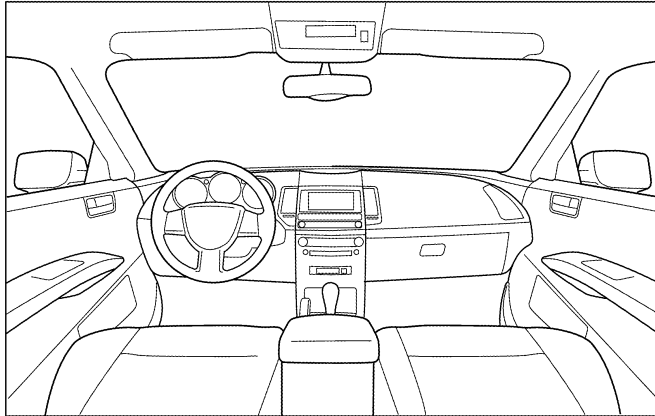
Dear Customer:

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.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

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

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

III. WHEN DRIVING:

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

IV. WHAT TYPE OF NOISE

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

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

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

VIN: _____ Customer Name _____

W.O.# _____ Date: _____

This form must be attached to Work Order

LAIA0071E

FRONT BUMPER

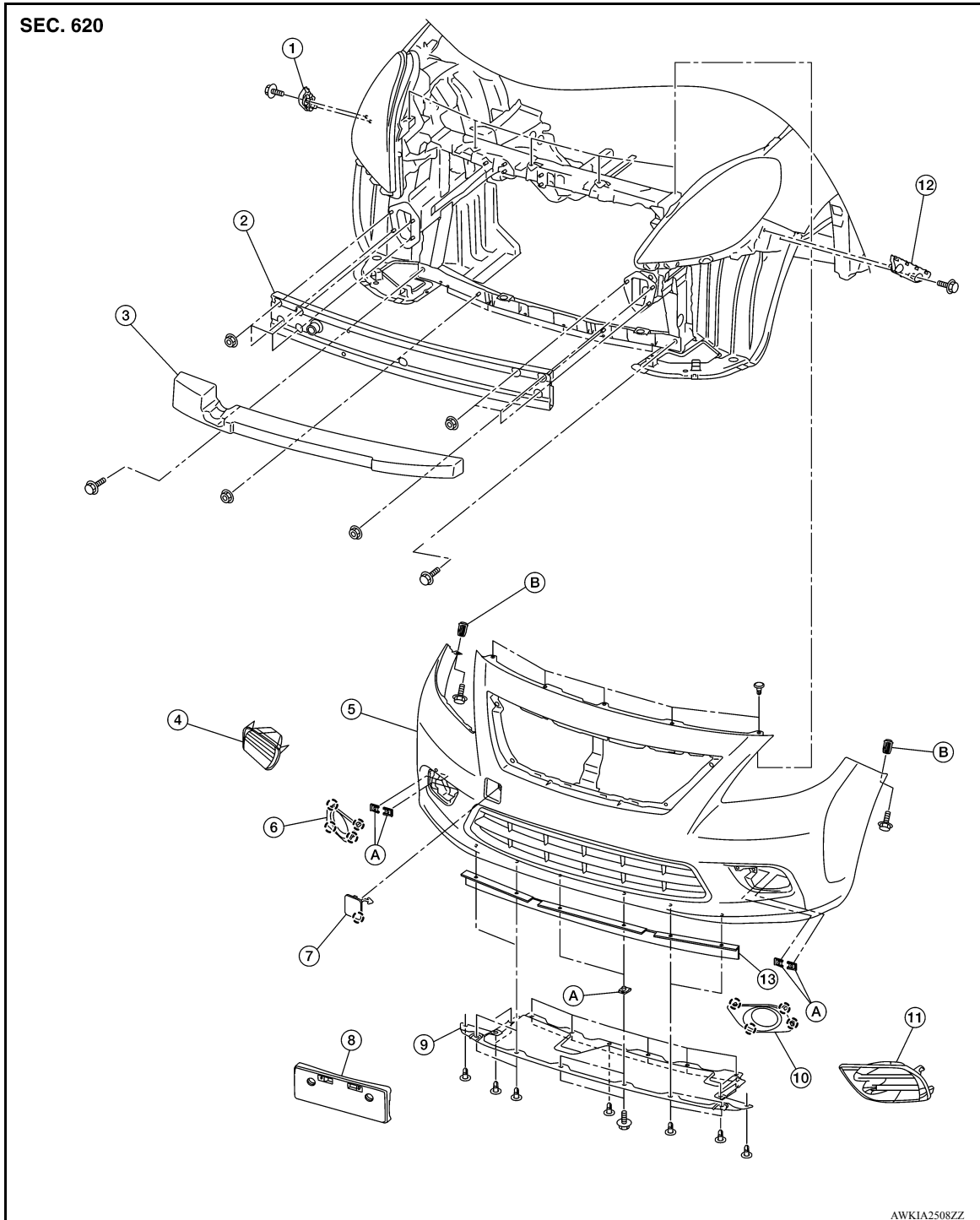
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

FRONT BUMPER

Exploded View

INFOID:000000009268550



- | | | |
|--|-------------------------------|---|
| 1. Front bumper side bracket (RH) | 2. Front bumper reinforcement | 3. Front bumper energy absorber |
| 4. Front bumper fascia finisher (RH) (If equipped) | 5. Front bumper fascia | 6. Fog lamp finisher (RH) (if equipped) |
| 7. Tow cover | 8. License plate bracket | 9. Under cover |

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FRONT BUMPER

< REMOVAL AND INSTALLATION >

- | | | |
|--|---|------------------------------------|
| 10. Fog lamp finisher (LH) (if equipped) | 11. Front bumper fascia finisher (LH) (if equipped) | 12. Front bumper side bracket (LH) |
| 13. Front spoiler | A. Spring nut | B. Screw grommet |
| ○: Pawl | | |

Removal and Installation

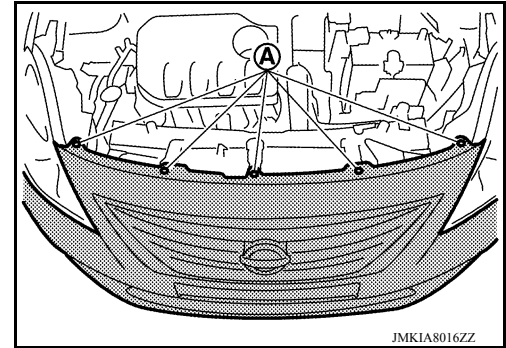
INFOID:000000009268551

REMOVAL

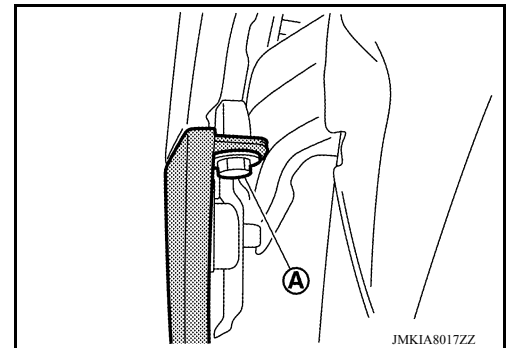
CAUTION:

Bumper fascia is made of resin. Do not apply strong force to it, and be careful to prevent contact with oil.

1. Open hood.
2. Remove front bumper fascia upper side clips (A).



3. Remove under cover. Refer to [EXT-19. "Removal and Installation"](#).
4. Remove fender protector clips and screws to access bumper fascia screw. Refer to [EXT-26. "Removal and Installation"](#).
5. Remove front bumper fascia screws (A) (LH/RH).

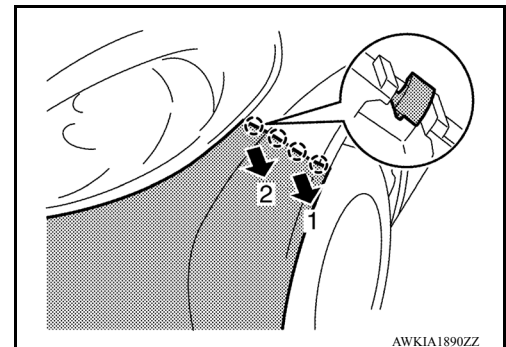


6. Remove front bumper fascia lower side clips and screws.
7. Pull front bumper fascia away as shown by the arrows in the illustration and then disengage front bumper fascia from front bumper side brackets (LH/RH).

○: Pawl

CAUTION:

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



8. Disconnect the harness connectors from the front fog lamps (LH/RH) (If equipped).
9. Remove front bumper fascia.
10. Remove the following parts after removing front bumper fascia.
 - Front bumper side brackets (LH/RH)
 - Fog lamp finishers (LH/RH) (If equipped)

FRONT BUMPER

< REMOVAL AND INSTALLATION >

- Fog lamps (LH/RH) (If equipped). Refer to [EXL-105, "Removal and Installation"](#).
- Front grille. Refer to [EXT-23, "Removal and Installation"](#).
- License plate bracket

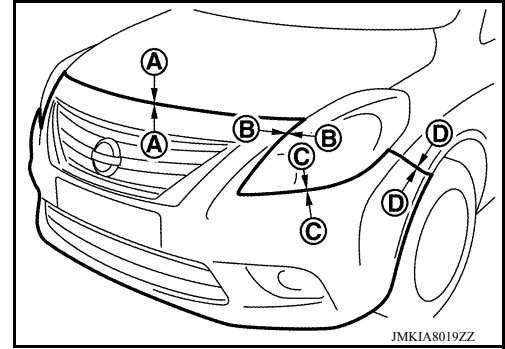
11. Remove front bumper energy absorber.
12. Remove nuts and front bumper reinforcement.

INSTALLATION

Installation is in the reverse order of removal.

NOTE:

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



Portion		Clearance	Surface height difference
Front bumper – Hood	A – A	2.5 – 6.3 mm (0.10 – 0.25 in)	(-1.45) – (+2.45) mm [(-0.057) – (+0.096) in]
Front bumper – Headlamp	B – B	0.1 – 4.2 mm (0.004 – 0.17 in)	—
	C – C	0.1 – 3.9 mm (0.004 – 0.15 in)	0.1 – 3.9 mm (0.004 – 0.15 in)
Front bumper – Front fender	D – D	0.0 – 1.0 mm (0.000 – 0.04 in)	(-0.3) – (+1.7) mm [(-0.01) – (+0.07) in]

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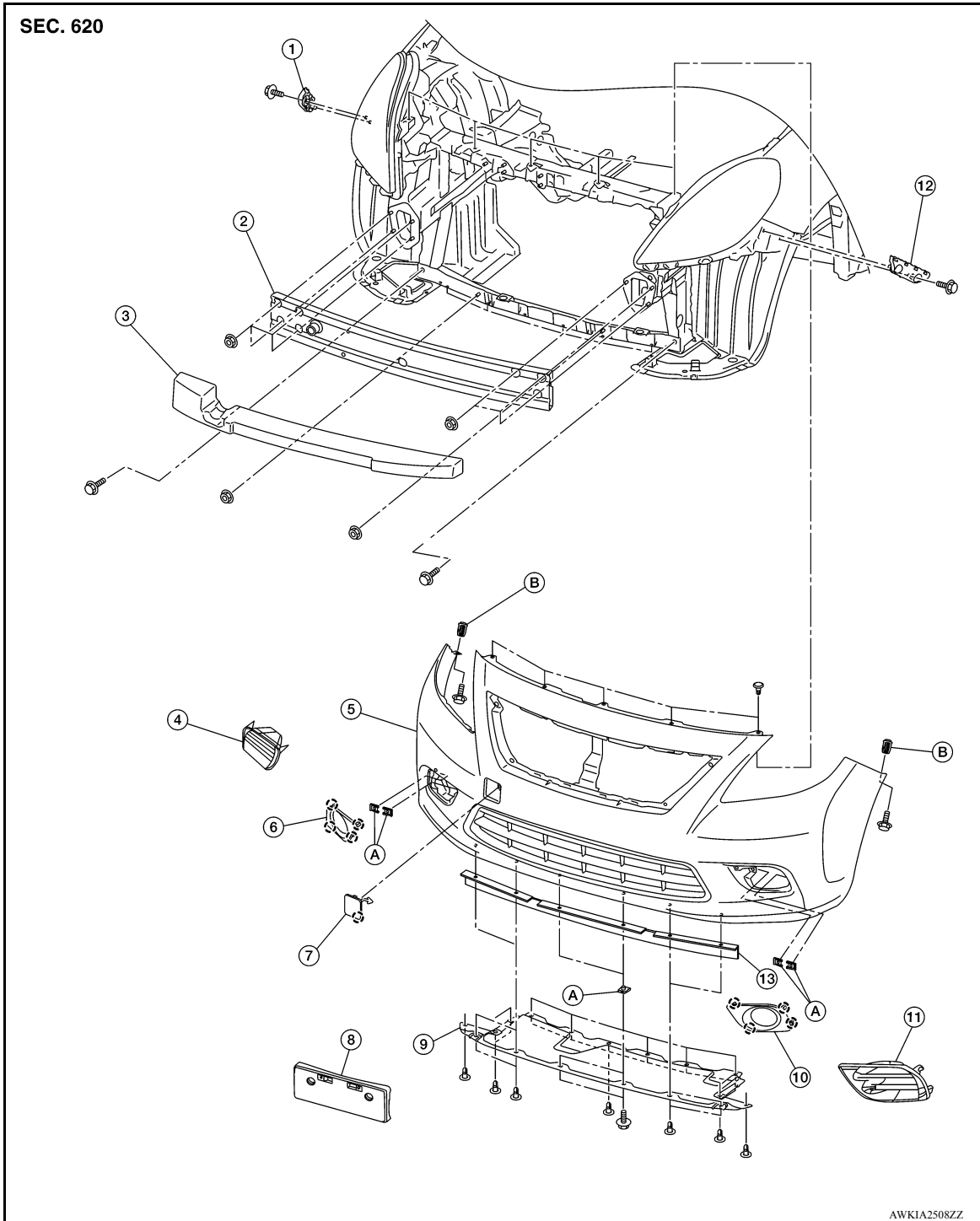
UNDER COVER

< REMOVAL AND INSTALLATION >

UNDER COVER

Exploded View

INFOID:00000009268552



- | | | |
|--|---|---|
| 1. Front bumper side bracket (RH) | 2. Front bumper reinforcement | 3. Front bumper energy absorber |
| 4. Front bumper fascia finisher (RH) (If equipped) | 5. Front bumper fascia | 6. Fog lamp finisher (RH) (if equipped) |
| 7. Tow cover | 8. License plate bracket | 9. Under cover |
| 10. Fog lamp finisher (LH) (if equipped) | 11. Front bumper fascia finisher (LH) (if equipped) | 12. Front bumper side bracket (LH) |


UNDER COVER

< REMOVAL AND INSTALLATION >

13. Front spoiler

A. Spring nut

B. Screw grommet

 Pawl

A

Removal and Installation

INFOID:000000009268553

B

REMOVAL

1. Remove air spoiler clips and air spoiler.
2. Remove under cover screws and clips.
3. Remove under cover.

C

INSTALLATION

Installation is in the reverse order of removal.

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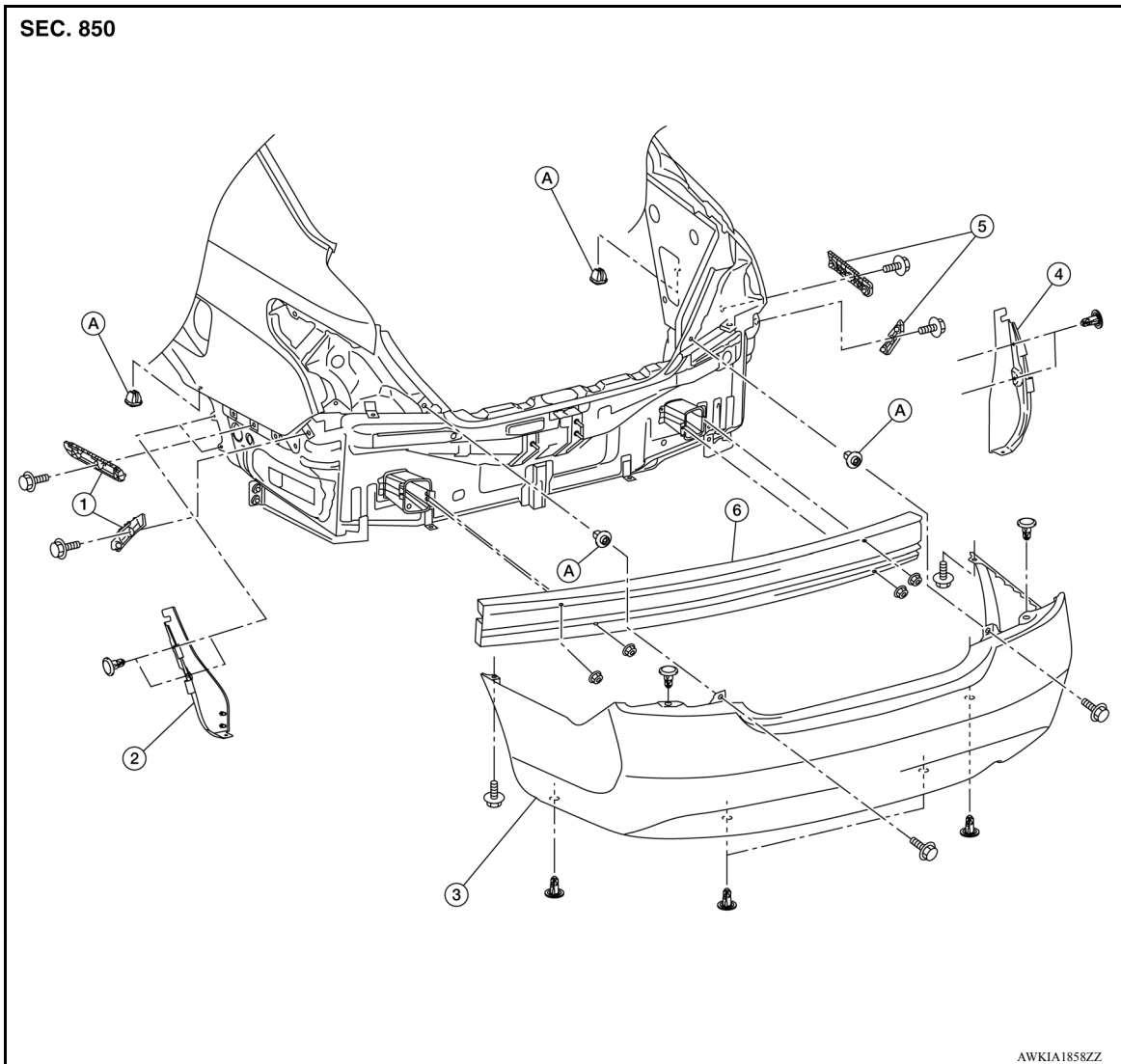
REAR BUMPER

< REMOVAL AND INSTALLATION >

REAR BUMPER

Exploded View

INFOID:000000009268554



- | | | |
|-----------------------------------|-----------------------------------|------------------------------|
| 1. Rear bumper side brackets (LH) | 2. Rear bumper closing (LH) | 3. Rear bumper fascia |
| 4. Rear bumper closing (RH) | 5. Rear bumper side brackets (RH) | 6. Rear bumper reinforcement |
| A. Screw grommet | | |

Removal and Installation

INFOID:000000009268555

REMOVAL

CAUTION:

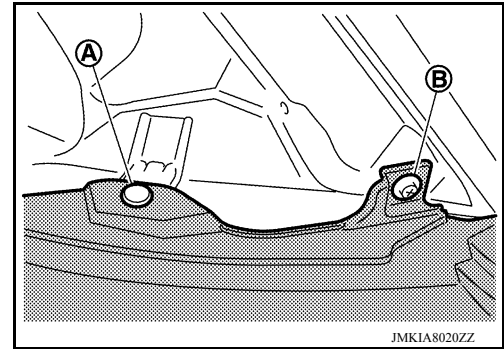
Bumper fascia is made of resin. Do not apply strong force to it, and be careful to prevent contact with oil.

1. Remove rear combination lamps (LH/RH). Refer to [EXL-109. "Removal and Installation"](#).

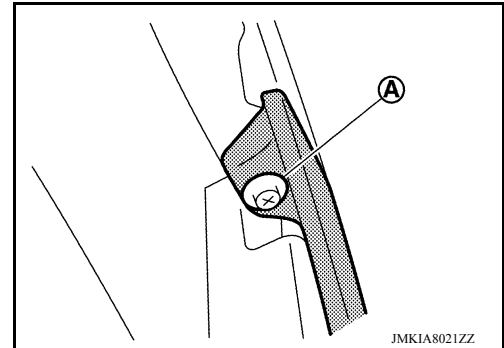
REAR BUMPER

< REMOVAL AND INSTALLATION >

2. Remove clips (A) and screws (B) (LH/RH).

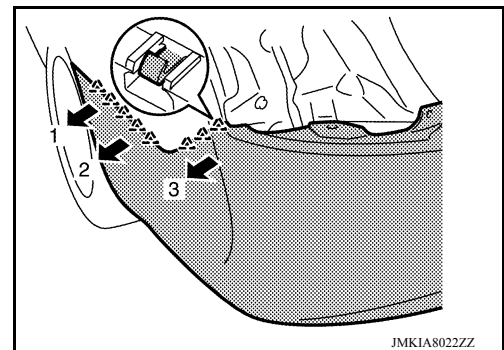


3. Remove rear bumper fascia lower clips.
4. Remove rear bumper fascia end screws (A).



5. Pull rear bumper fascia away as shown by the arrows in the illustration and then disengage the rear bumper fascia from rear bumper side brackets (LH/RH).

△: Pawl



6. Remove rear bumper fascia.
CAUTION:
When removing bumper fascia assembly, two people are required to avoid damaging.
7. Remove the following parts after removing rear bumper fascia.
 - Rear bumper side brackets (LH/RH)
8. Remove rear bumper reinforcement nuts and rear bumper reinforcement.
9. Remove rear bumper closing clips and rear bumper closings (LH/RH).

INSTALLATION

Installation is in the reverse order of removal.

NOTE:

- The following table shows the specified values for checking normal installation specifications.

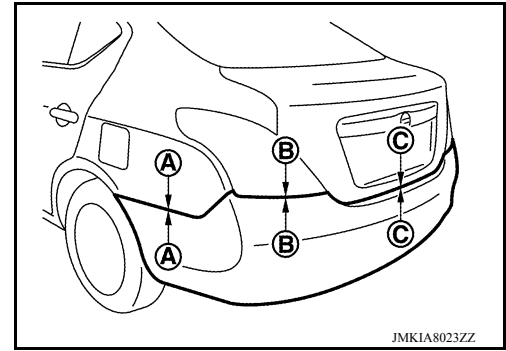
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EXT

REAR BUMPER

< REMOVAL AND INSTALLATION >

- Fitting adjustment cannot be performed.



Portion		Clearance	Surface height difference
Rear bumper – Rear fender	A – A	0.0 – 1.0 mm (0.000 – 0.04 in)	(–1.7) – (+0.3) mm [(–0.07) – (+0.01) in]
Rear bumper – Rear combination lamp	B – B	0.0 – 3.5 mm (0.000 – 0.14) in	0.1 – 3.9 mm (0.004 – 0.15 in)
Rear bumper – Trunk lid	C – C	5.0 – 9.0 mm (0.20 – 0.35 in)	—

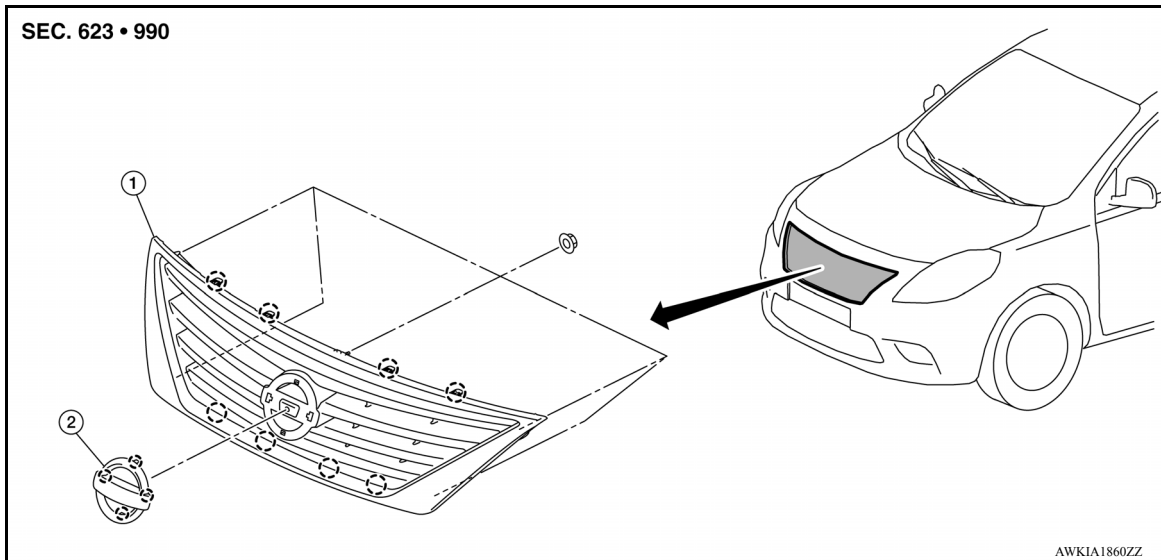
FRONT GRILLE

< REMOVAL AND INSTALLATION >

FRONT GRILLE

Exploded View

INFOID:00000009268556



1. Front grille

2. Front emblem

○● Pawl

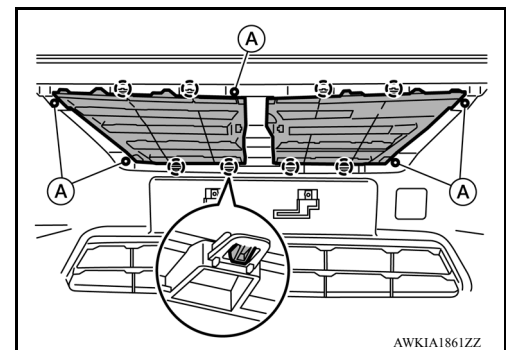
Removal and Installation

INFOID:00000009268557

REMOVAL

1. Remove front bumper fascia. Refer to [EXT-16, "Removal and Installation"](#).
2. Remove front grille nuts (A).
3. Pull front grille out away from vehicle to disengage pawls and then remove front grille.

○●: Pawl



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

INSTALLATION

Installation is in the reverse order of removal.

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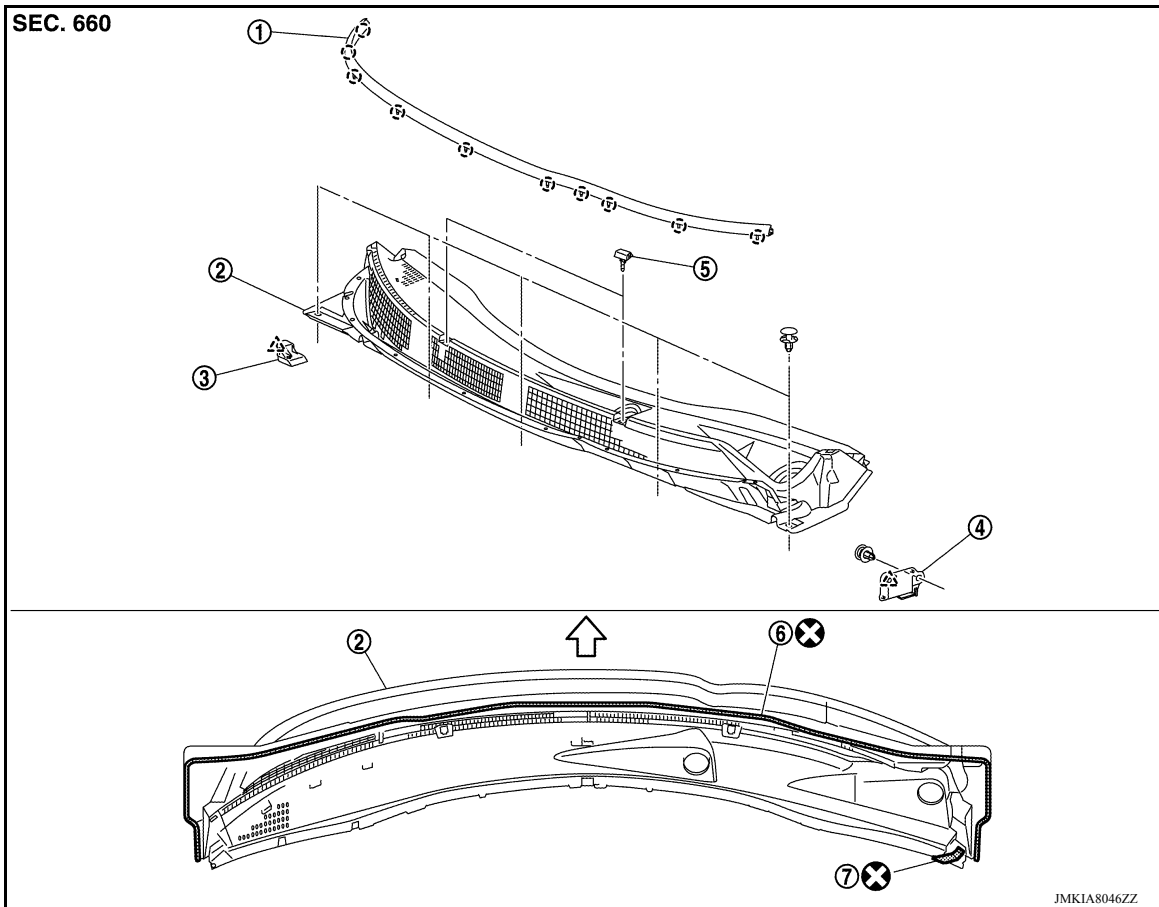
COWL TOP

< REMOVAL AND INSTALLATION >

COWL TOP

Exploded View

INFOID:000000009268558



- | | | |
|-----------------------------------|-------------------|-----------------------------------|
| 1. Cowl top cover seal | 2. Cowl top cover | 3. Air intake cover |
| 4. Cowl cover one-way valve | 5. Washer nozzle | 6. EPT sealer [3.0 mm (0.118 in)] |
| 7. EPT sealer [3.0 mm (0.118 in)] | ○ Clip | △ Pawl |
- ← Front

Removal and Installation

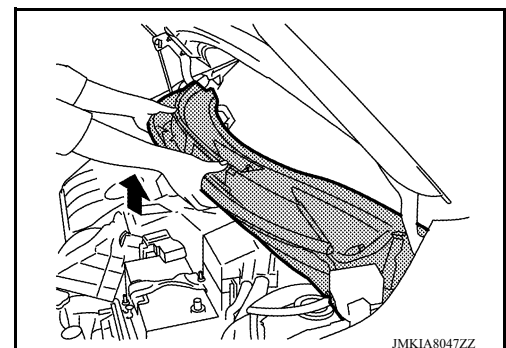
INFOID:000000009268559

REMOVAL

1. Remove front wiper arms (LH/RH). Refer to [WW-44, "WIPER ARM : Removal and Installation"](#).
2. Remove front fender covers (LH/RH). Refer to [DLK-282, "FENDER COVER : Removal and Installation"](#).
3. Remove cowl top cover clips.
4. Pull forward to release cowl top cover from windshield glass.

CAUTION:

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



JMK1A8047ZZ

COWL TOP

< REMOVAL AND INSTALLATION >

5. Disconnect the washer tube connector.
6. Remove cowl top cover. A
7. Remove the following parts after removing cowl top cover.
 - EPT sealer
 - Cowl top cover seal B
 - Washer tube
 - Washer nozzles (LH/RH). Refer to [WW-52, "WASHER NOZZLE : Removal and Installation"](#). C

INSTALLATION

Installation is 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.** D
- **After installing wiper arms, perform adjustment. Refer to [WW-45, "WIPER ARM : Adjustment"](#).** E

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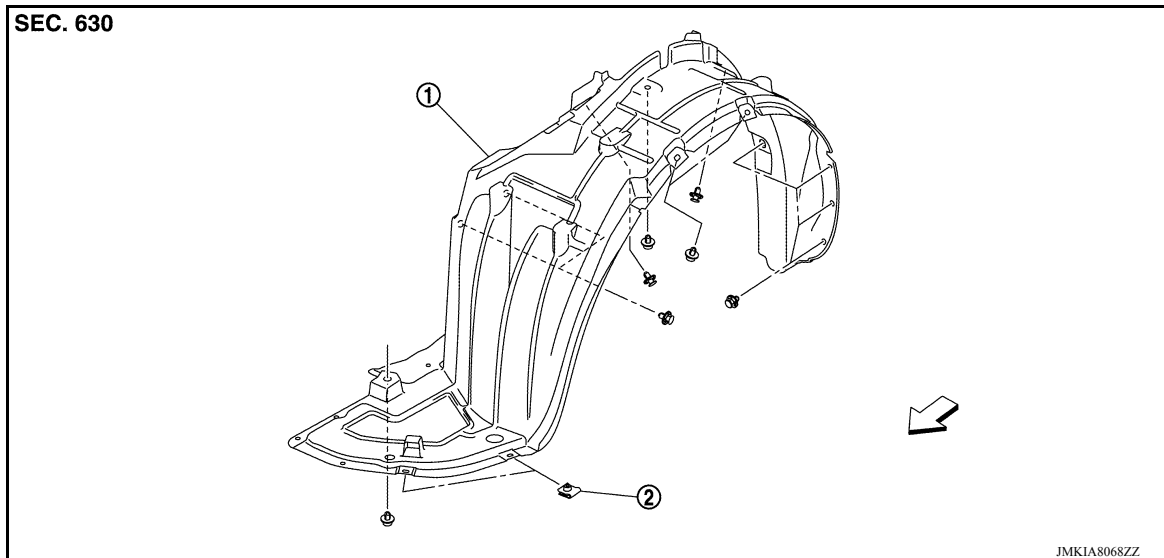
FENDER PROTECTOR

< REMOVAL AND INSTALLATION >

FENDER PROTECTOR

Exploded View

INFOID:000000009268560



1. Fender protector

2. J-nut

← Front

Removal and Installation

INFOID:000000009268561

REMOVAL

1. Remove under cover. Refer to [EXT-19, "Removal and Installation"](#).
2. Remove fender protector screws and clips.
3. Remove fender protector.

INSTALLATION

Installation is in the reverse order of removal.

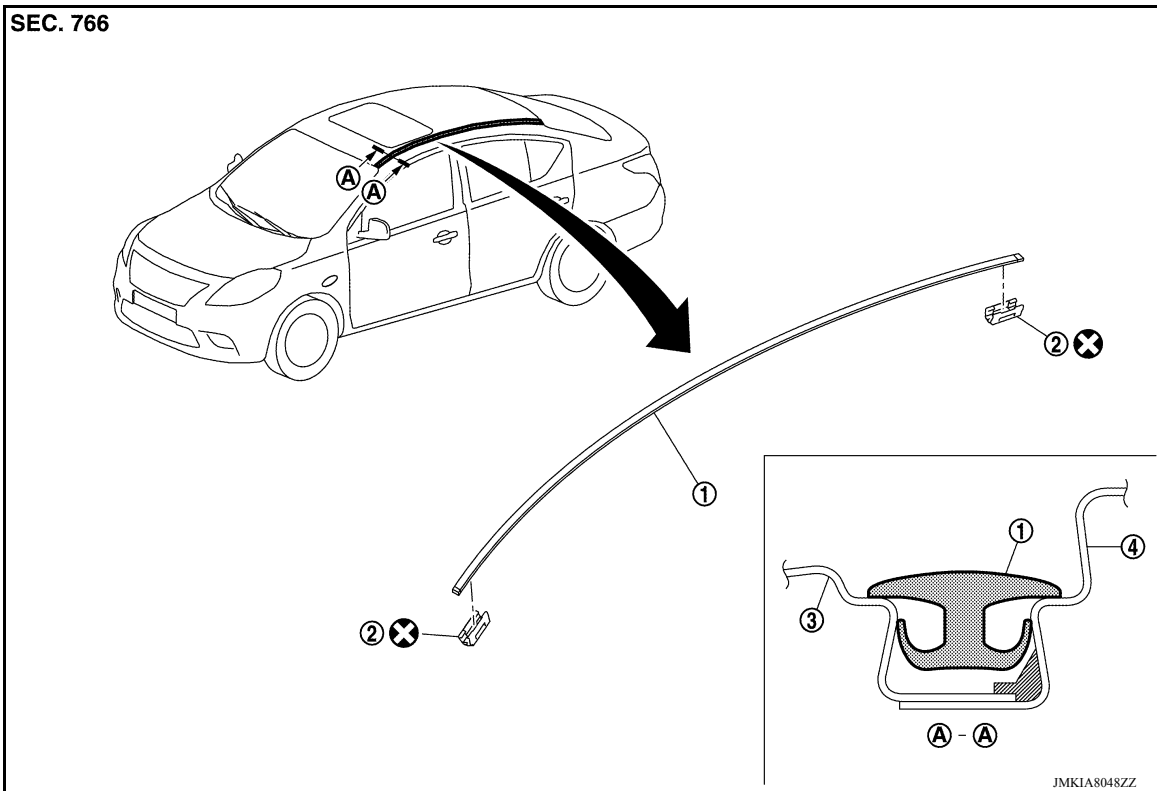
ROOF SIDE MOLDING

< REMOVAL AND INSTALLATION >

ROOF SIDE MOLDING

Exploded View

INFOID:000000009268562



- 1. Roof side molding
- 2. Roof side molding clip
- 3. Roof panel
- 4. Body side outer panel

Removal and Installation

INFOID:000000009268563

EXT

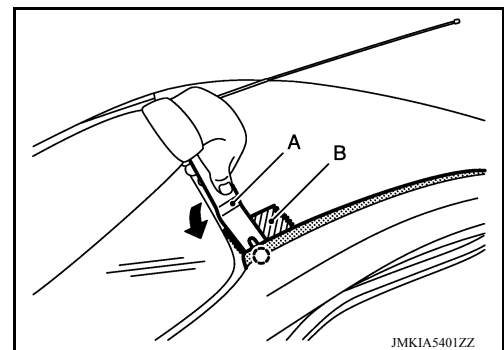
REMOVAL

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

○: Clip

CAUTION:

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



2. Remove roof side molding, starting from the front of vehicle and moving toward the rear.

CAUTION:

Do not pull the roof side molding with too much force.

INSTALLATION

Installation is in the reverse order of removal.

REMOVAL AND INSTALLATION OF ROOF SIDE MOLDING CLIP

Removal

ROOF SIDE MOLDING

< REMOVAL AND INSTALLATION >

1. Remove roof side molding.
2. Heat adhesive tape interface using a dryer and then 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 a shop cloth soaked in white gasoline or IPA.
2. Use two-part epoxy adhesive.

Adhesive : 3M-weld DP-100 or equivalent

3. Apply adhesive evenly to clip tape surface.

Thickness : Approximately 0.5 mm (0.020 in)

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

Press-fit limit : 19.6 N (2.0 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 roof side molding from rear of vehicle to front, in this order after temporarily holding.

CAUTION:

- Use double-sided 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.
- Do not wash the vehicle within 24 hours so as to keep adhesive dry.

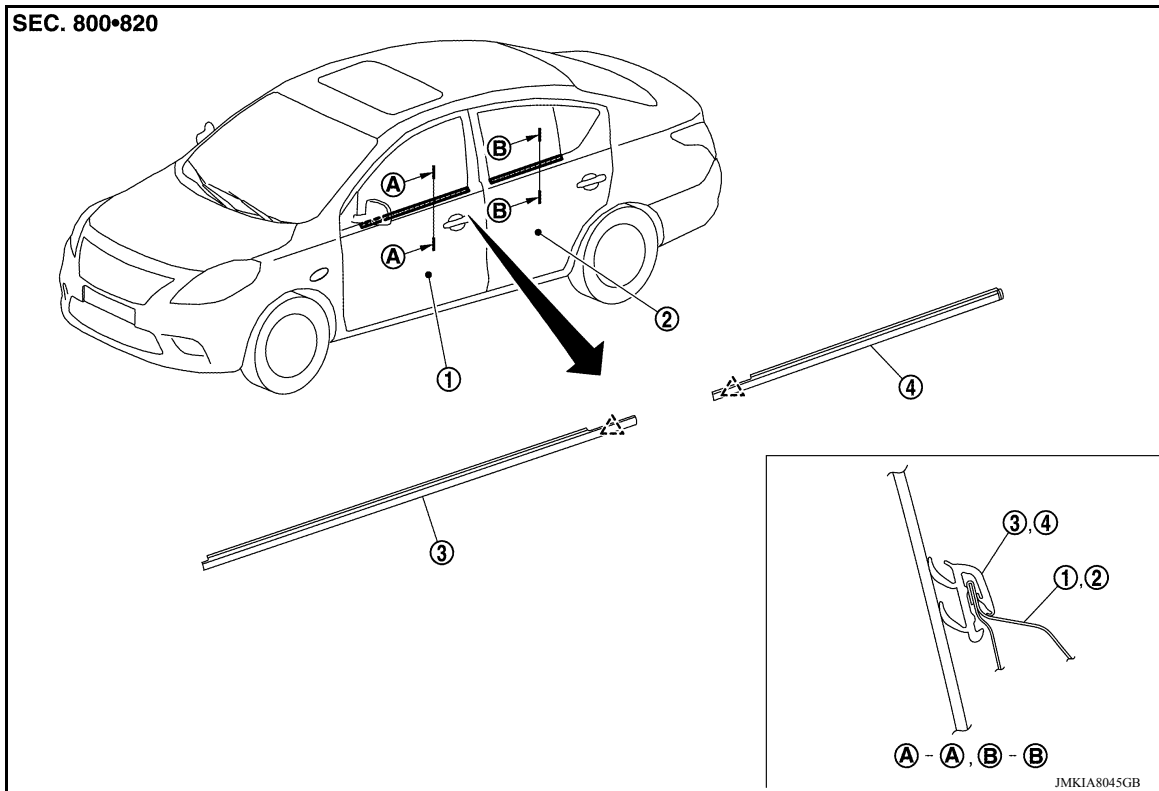
DOOR OUTSIDE MOLDING


< REMOVAL AND INSTALLATION >

DOOR OUTSIDE MOLDING

Exploded View

INFOID:000000009268564



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

Removal and Installation

INFOID:000000009268565

EXT

FRONT DOOR OUTSIDE MOLDING

Removal

1. Open front door glass.
2. Release pawl, twist front door outside molding toward the outside of the vehicle and lift up and remove.

Installation

Installation is in the reverse order of removal.

REAR DOOR OUTSIDE MOLDING

Removal

1. Open door glass.
2. Release pawl, twist door outside molding toward the outside of the vehicle and lift up and remove.

Installation

Installation is in the reverse order of removal.

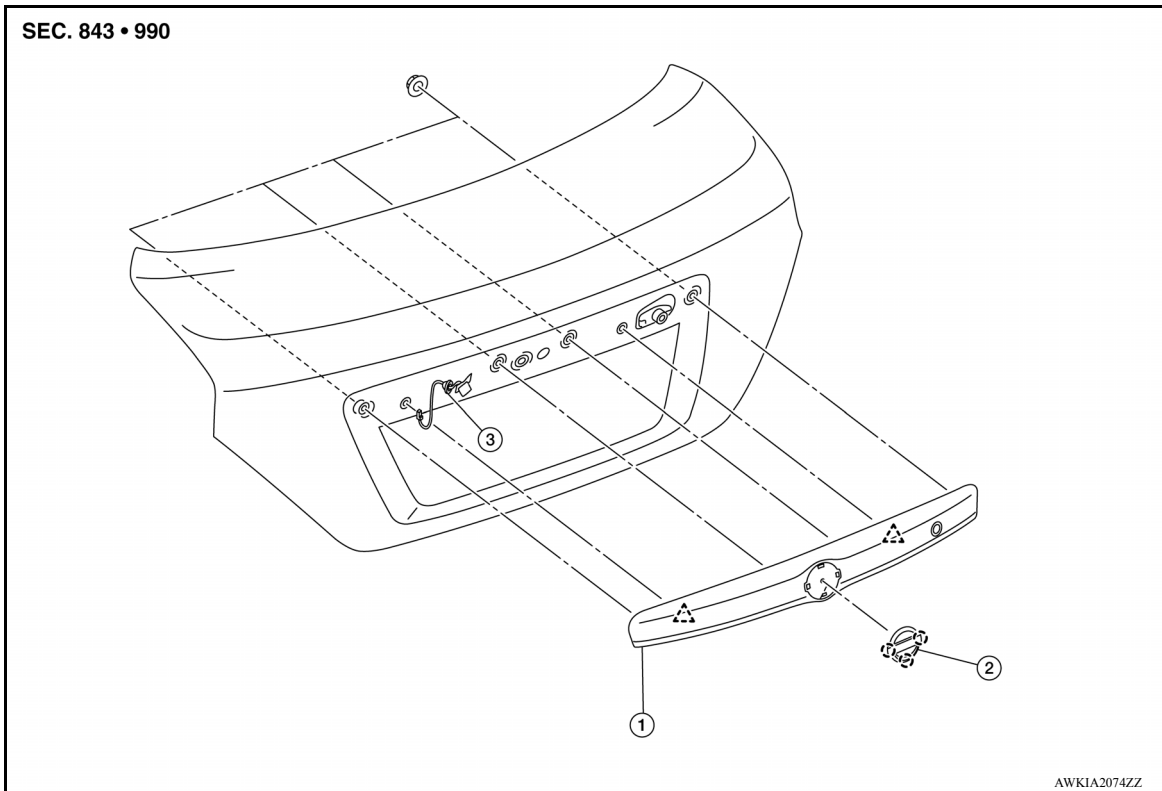
TRUNK LID FINISHER

< REMOVAL AND INSTALLATION >

TRUNK LID FINISHER

Exploded View

INFOID:000000009268566



- 1. Trunk lid finisher
 - 2. Emblem
 - 3. Rear view camera (if equipped)
- Pawl
△ Clip

Removal and Installation

INFOID:000000009268567

REMOVAL

1. Remove trunk lid finisher inner. Refer to [INT-35, "Removal and Installation"](#).
2. Remove trunk lid finisher nuts.
3. Disconnect the harness connectors from the license lamp.
4. Remove harness grommet.
5. Release clips and remove trunk lid finisher.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

When installing trunk lid finisher, check that clips are securely placed in body panel holes and press them into position.

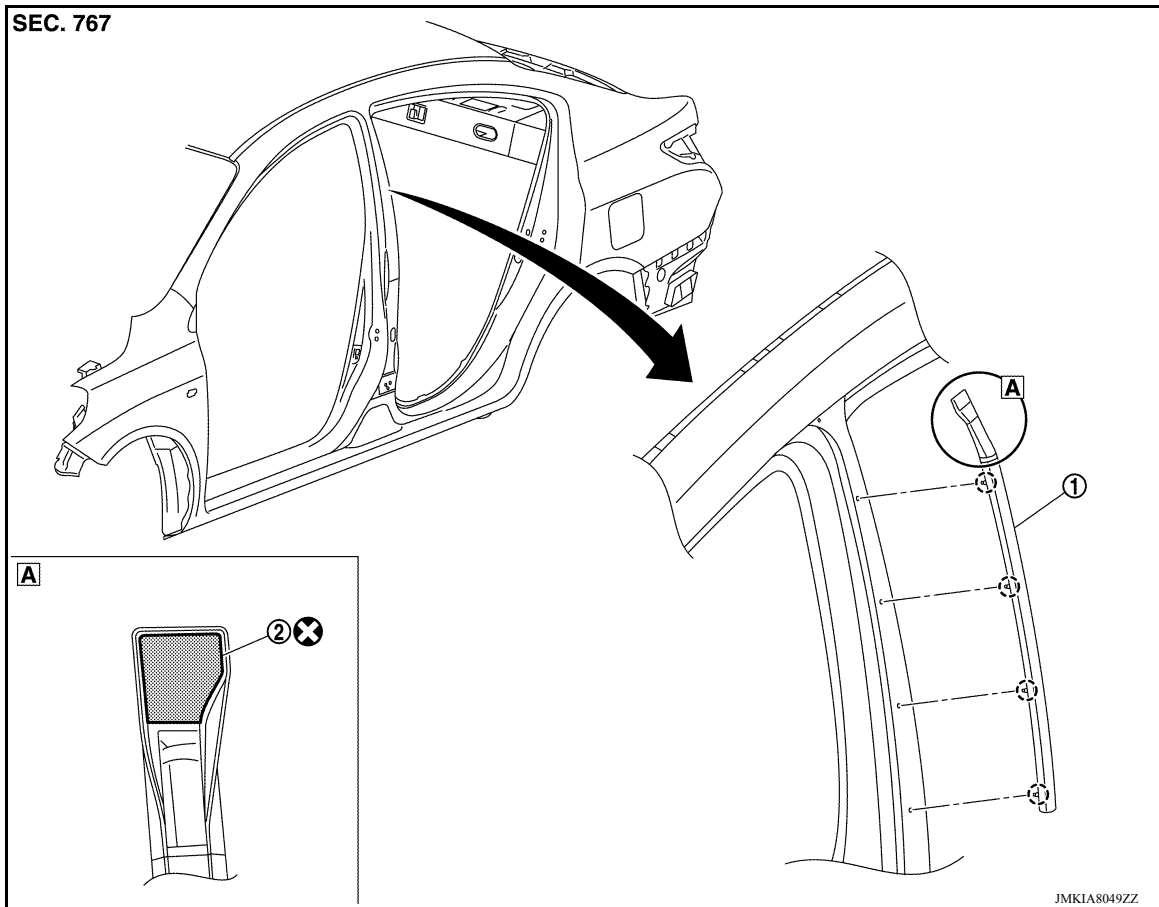
DOOR PARTING SEAL

< REMOVAL AND INSTALLATION >

DOOR PARTING SEAL

Exploded View

INFOID:00000009268568



1. Door parting seal

2. Double-sided tape [t: 1.6 mm (0.065 in)]

4. Clip

Removal and Installation

INFOID:00000009268569

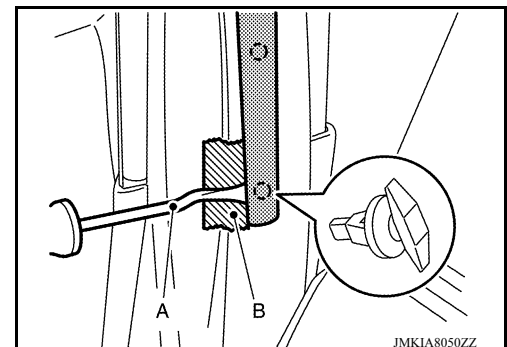
REMOVAL

1. Open front door and rear door.
2. Release door parting seal clips using a suitable tool (A).

4. Clip

CAUTION:

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



3. Remove door parting seal.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Always replace double-sided tape with a new tape if door parting seal is reused.

A
B
C
D
E
F
G
H
I
J

EXT

L
M
N
O
P

DOOR PARTING SEAL

< REMOVAL AND INSTALLATION >

- Do not wash the vehicle within 24 hours after installing so as to keep adhesive dry.

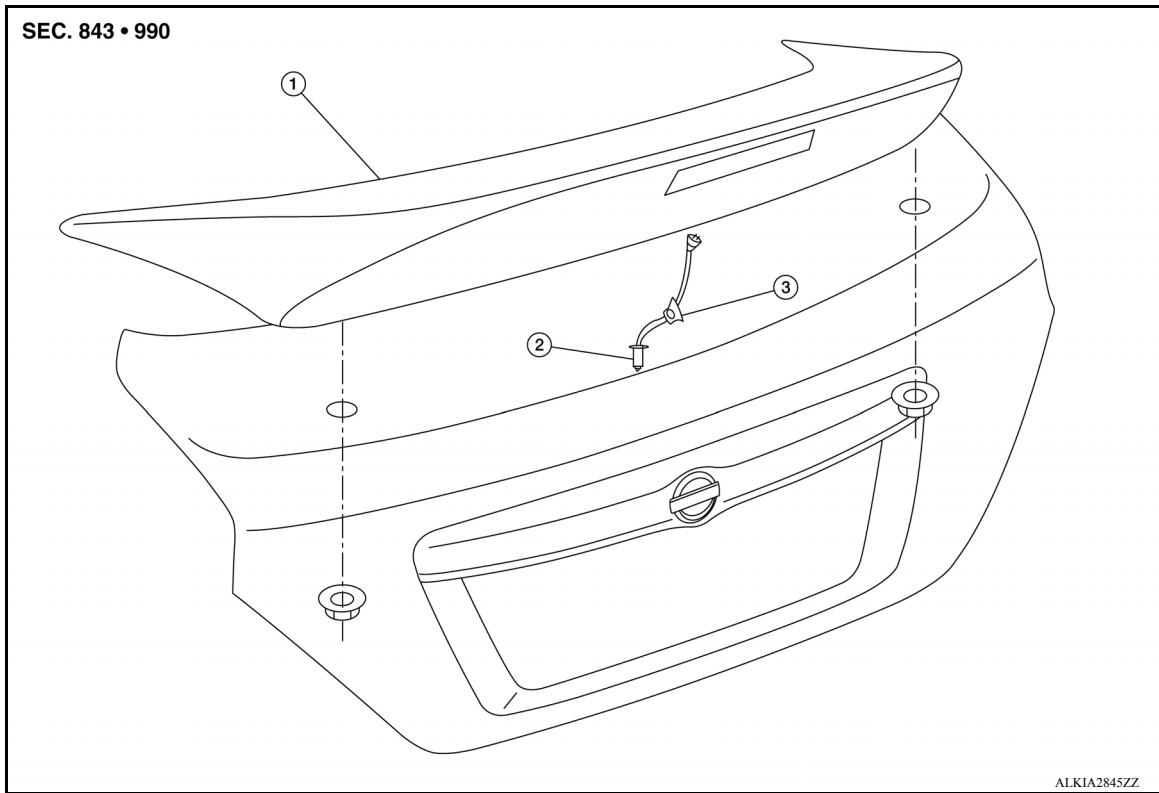
REAR SPOILER

< REMOVAL AND INSTALLATION >

REAR SPOILER

Exploded View

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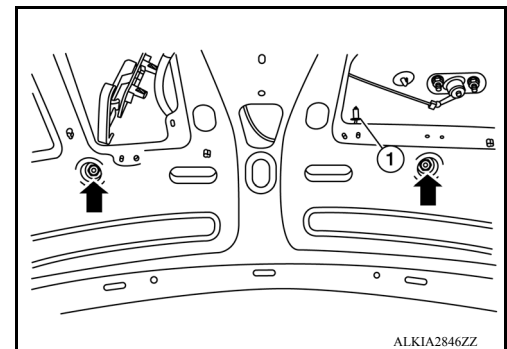
1. Rear spoiler 2. High-mounted stop lamp harness connector 3. Harness grommet

Removal and Installation

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Removal

1. Remove trunk lid finisher (if equipped). Refer to [EXT-30. "Removal and Installation"](#).
2. Disconnect high-mounted stop lamp harness connector (1).
3. Remove the rear spoiler nuts.



4. Using a suitable heating tool may also be necessary to evenly heat the rear spoiler contact surface while releasing the tape with a suitable tool.
5. Loosen the harness grommet and gently lift the rear spoiler upward off of trunk lid.

Installation

Installation is in the reverse order of removal.

NOTE:

- Before installing rear spoiler, clean the surface where it will be mounted with isopropyl alcohol or equivalent to degrease the surface.

REAR SPOILER

< REMOVAL AND INSTALLATION >

- Before installing, be sure there are no gaps or waves in the adhesive-backed foam tape where the surfaces meet.
- During installation, be sure harness grommet of high-mounted stop lamp is fully seated into trunk lid opening prior to final rear spoiler placement.