

SECTION **EXT**
EXTERIOR

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

CONTENTS

PRECAUTION	2	REAR BUMPER	23
PRECAUTIONS	2	Exploded View	23
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	2	Removal and Installation	23
Service Notice	2	FRONT GRILLE	28
Precaution for Work	2	Exploded View	28
PREPARATION	4	Removal and Installation	28
PREPARATION	4	COWL TOP	30
Special Service Tool	4	Exploded View	30
Commercial Service Tools	4	Removal and Installation	31
CLIP LIST	5	FENDER PROTECTOR	33
Descriptions for Clips	5	Exploded View	33
SYMPTOM DIAGNOSIS	9	Removal and Installation	33
SQUEAK AND RATTLE TROUBLE DIAGNOSES	9	MUDGUARD	35
Work Flow	9	Exploded View	35
Generic Squeak and Rattle Troubleshooting	10	Removal and Installation	36
Diagnostic Worksheet	13	DOOR OUTSIDE MOLDING	37
REMOVAL AND INSTALLATION	15	Exploded View	37
FRONT BUMPER	15	Removal and Installation	37
Exploded View - Front Bumper	15	FRONT UNDER COVER	38
Removal and Installation - Front Bumper	16	Exploded View	38
Exploded View - Upper Front Fascia	19	Removal and Installation	38
Removal and Installation - Upper Front Fascia	19	LICENSE LAMP FINISHER	39
		Exploded View	39
		Removal and Installation	39

PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

INFOID:000000012520404

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 three minutes before performing any service.

Service Notice

INFOID:000000012520405

- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

Precaution for Work

INFOID:000000012520406

- 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:
 - 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.

PRECAUTIONS

< PRECAUTION >

- 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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PREPARATION

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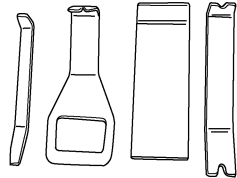
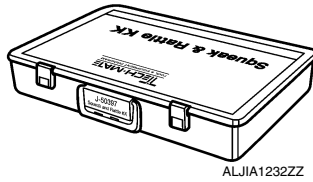
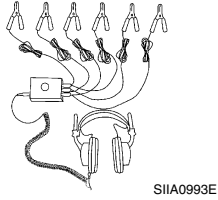
PREPARATION

Special Service Tool

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The actual shape of the tools may differ from those illustrated here.

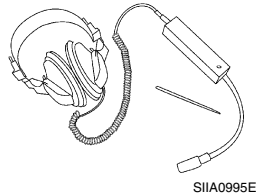
Tool number (TechMate No.) Tool name	Description
— (J-39570) Chassis Ear	Locating the noise
— (J-50397) NISSAN Squeak and Rattle Kit	Repairing the cause of noise
— (J-46534) Trim Tool Set	Removing trim components



Commercial Service Tools

INFOID:000000012520408

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



CLIP LIST


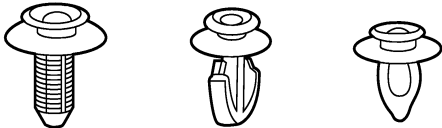


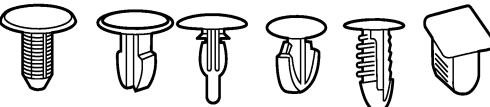
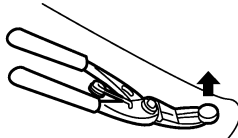

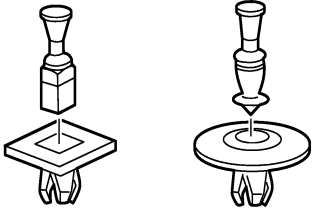
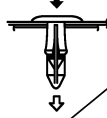
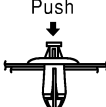

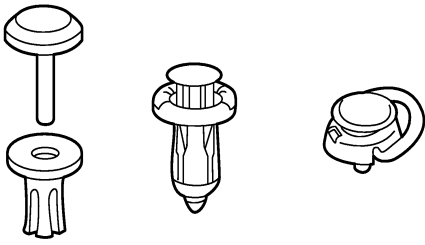
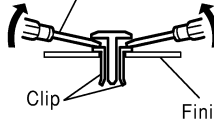

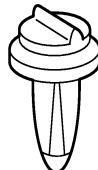
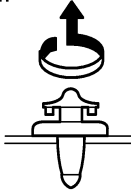
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CLIP LIST

Descriptions for Clips

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Replace any clips which are damaged during removal or installation.


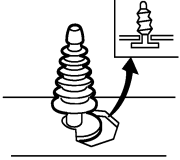
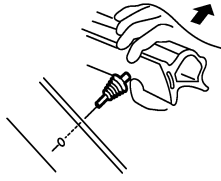

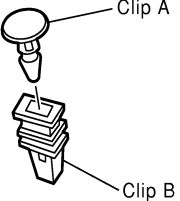
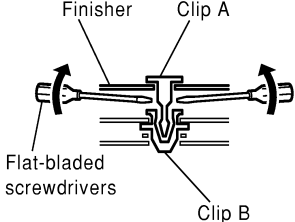

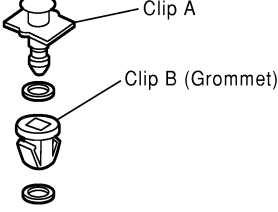
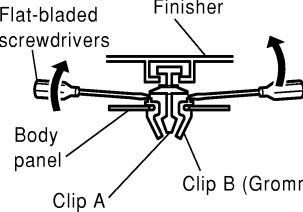
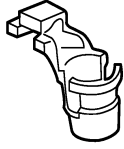
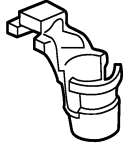
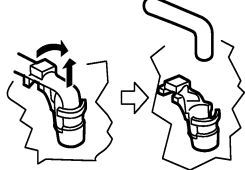

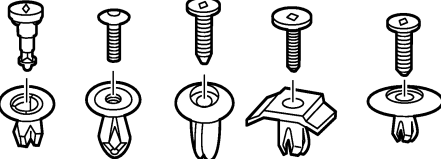

Symbol No.	Shapes	Removal & Installation
C101 		<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p> 
C103 		 <p>Removal: Remove with a clip remover.</p>
C203 		<p>Removal: Push center pin to catching position. (Do not remove center pin by hitting it.)</p> <p>Push</p> 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

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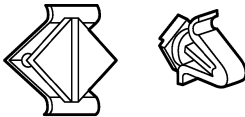

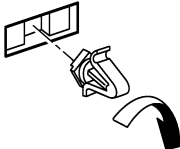

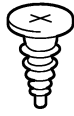



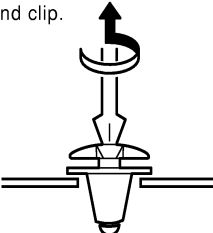


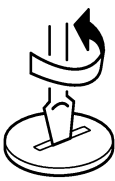
< PREPARATION >

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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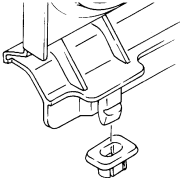
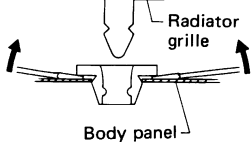

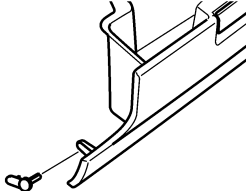
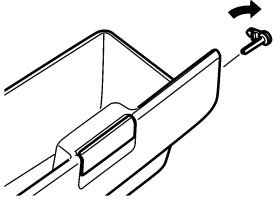

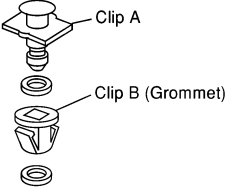
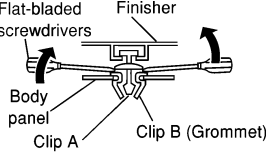
Symbol No.	Shapes	Removal & Installation	
CG101 		Removal:  Rotate 45° to remove	Installation: 
CS102 			
CS113 		Removal: Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip. 	
C111 			

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

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 Finisher</p> 

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

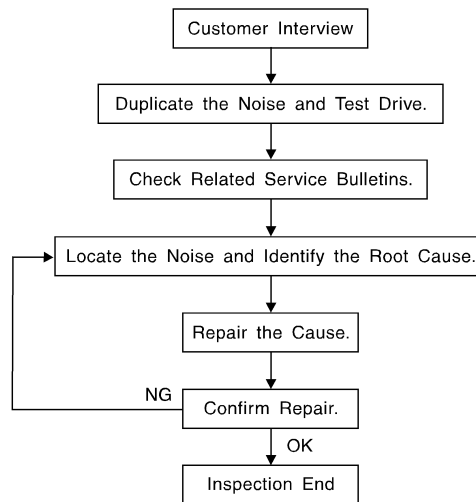
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SYMPTOM DIAGNOSIS

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 [EXT-10. "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-50397) 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.

NOTE:

- Always check with the Parts Department for the latest parts information.
- The materials contained in the NISSAN Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
- The following materials not found in the kit can also be used to repair squeaks and rattles.
 - SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease 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:000000012520411

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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-50397) 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
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:

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G

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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:000000012520412

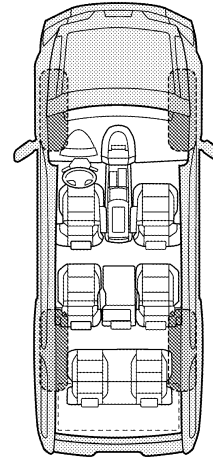
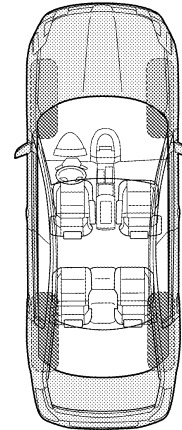
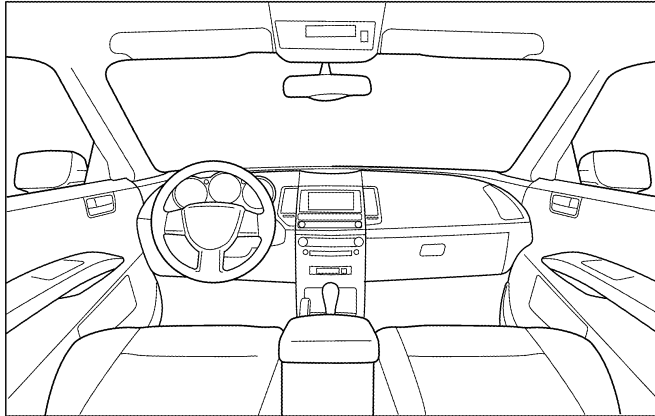
Dear Customer:

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

LAI0071E

FRONT BUMPER

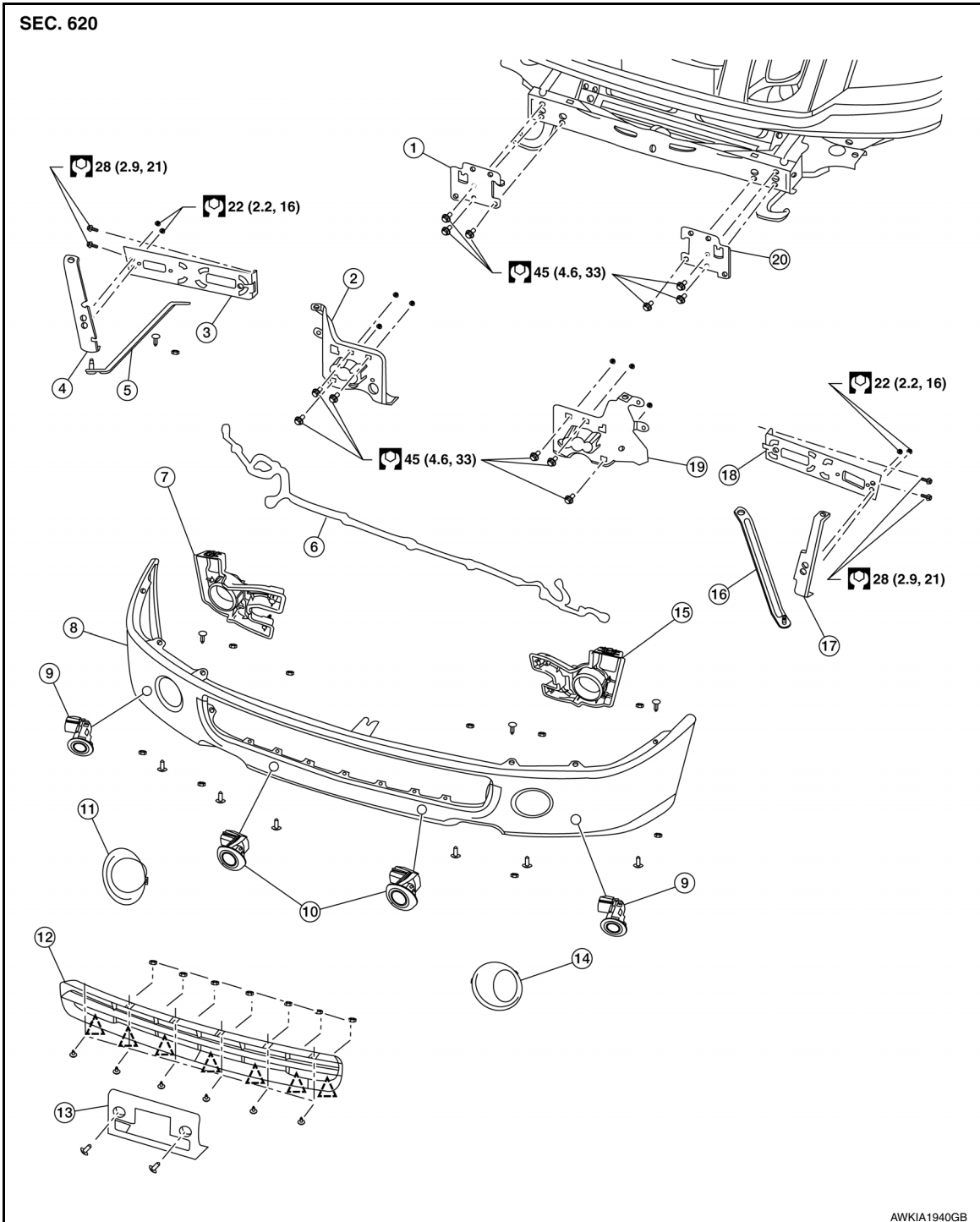
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

FRONT BUMPER

Exploded View - Front Bumper

INFOID:0000000012520413



- | | | |
|--|------------------------------------|--|
| 1. Front bumper reinforcement plate (RH) | 2. Front bumper bracket (inner RH) | 3. Side reinforcement (RH) |
| 4. Front bumper bracket (outer RH) | 5. Front bumper side bracket (RH) | 6. Front sonar sensor harness (if equipped) |
| 7. Front fog lamp (RH) (if equipped) | 8. Front bumper | 9. Front sonar sensors (outer) (if equipped) |

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FRONT BUMPER

< REMOVAL AND INSTALLATION >

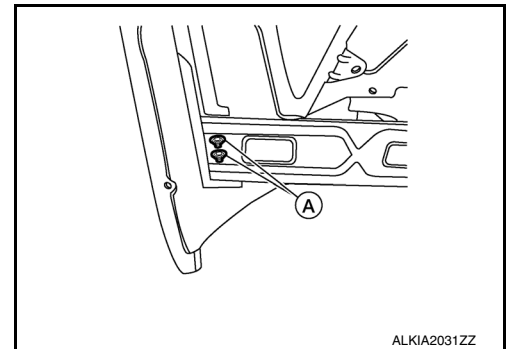
- | | | |
|---|---|---------------------------------------|
| 10. Front sonar sensors (inner) (if equipped) | 11. Front fog lamp bezel (RH) (if equipped) | 12. Front bumper grille |
| 13. License plate bracket | 14. Front fog lamp bezel (LH) (if equipped) | 15. Front fog lamp (LH) (if equipped) |
| 16. Front bumper side bracket (LH) | 17. Front bumper bracket (outer LH) | 18. Side reinforcement (LH) |
| 19. Front bumper bracket (inner LH) | 20. Front bumper reinforcement plate (LH) | |

Removal and Installation - Front Bumper

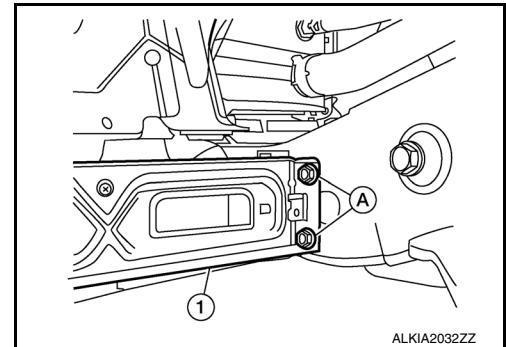
INFOID:0000000012520414

REMOVAL

1. Remove the front fender lower protectors (LH/RH). Refer to [EXT-33. "Removal and Installation"](#).
2. Partially remove the front edge of the fender protectors (LH/RH). Refer to [EXT-33. "Removal and Installation"](#).
3. Disconnect the harness connector from front fog lamp (if equipped).
4. Disconnect the harness connector from sonar sensor (if equipped).
5. Remove the side reinforcement (LH/RH) nuts (A).

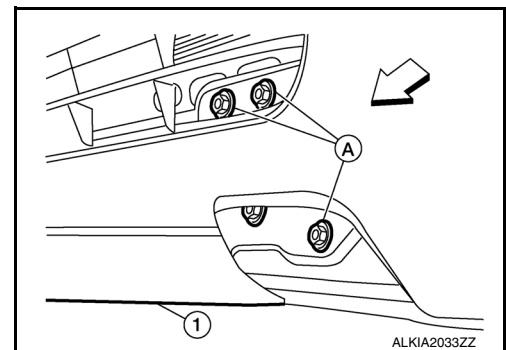


6. Remove the side reinforcement (LH/RH) bolts (A) and the side reinforcements (1) (LH/RH).



7. Remove the front bumper side bracket (LH/RH) nuts and the side brackets (LH/RH).
8. Remove the front bumper bolts (A) and the front bumper (1).

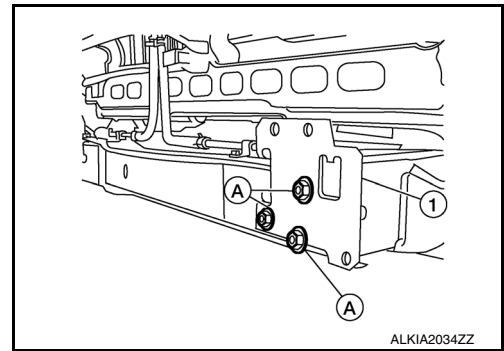
⇐: Front



FRONT BUMPER

< REMOVAL AND INSTALLATION >

9. Remove the front bumper reinforcement plate bolts (LH/RH) (A) and front bumper reinforcement plates (LH/RH) (1).



INSTALLATION

Installation is in the reverse order of removal.

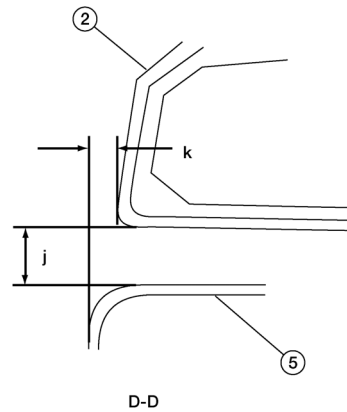
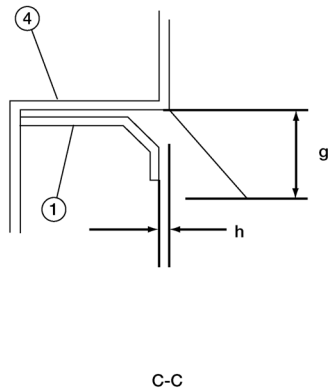
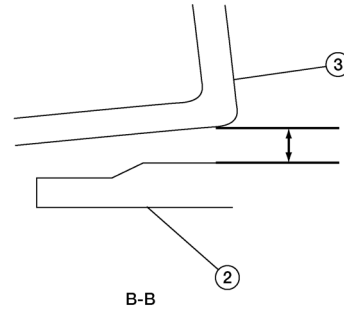
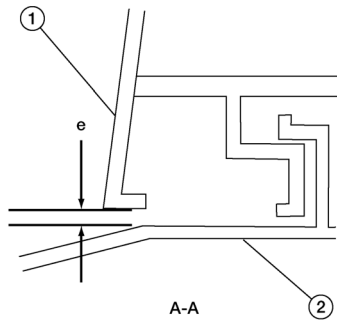
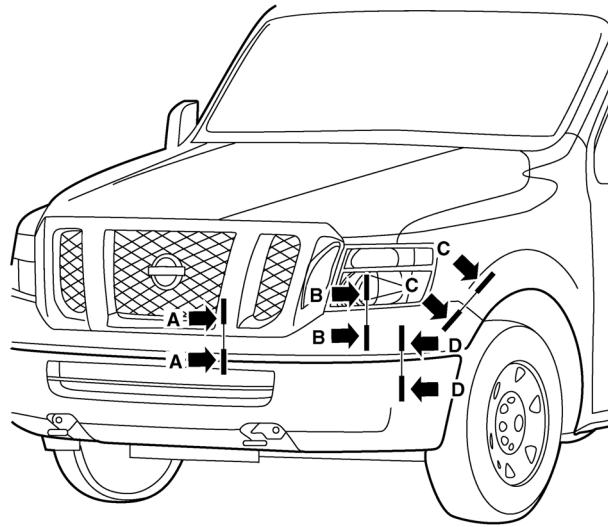
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EXT

FRONT BUMPER

< REMOVAL AND INSTALLATION >

SEC. 620



ALKIA2025ZZ

- | | | |
|-----------------|-----------------------|---------------------------|
| 1. Front grille | 2. Upper front fascia | 3. Front combination lamp |
| 4. Front fender | 5. Front bumper | |

Units: mm (in)

Portion	Measurement	Standard	Difference (MAX)
A-A	e Clearance	3.0 (0.12)	±1.5 (0.06)
B-B	f Clearance	3.0 (0.12)	±1.5 (0.06)

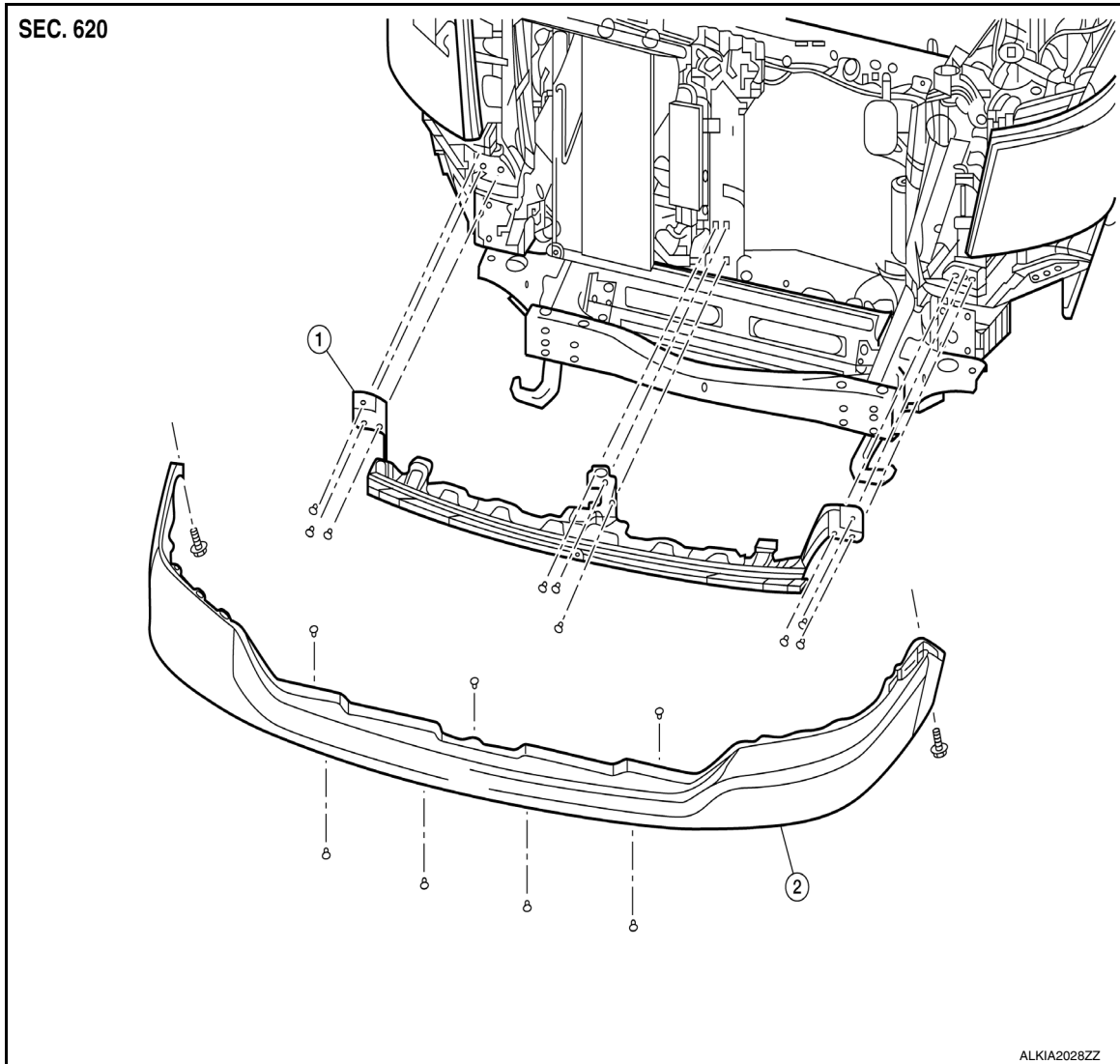
FRONT BUMPER

< REMOVAL AND INSTALLATION >

Portion	Measurement		Standard	Difference (MAX)
C-C	g	Clearance	0.0 (0.00)	+0.8 (0.03)
C-C	h	Surface height	0.8 (0.03)	±1.0 (0.04)
D-D	k	Clearance	20.0 (0.79)	±5.0 (0.20)
D-D	j	Surface height	0.0 (0.00)	±5.0 (0.20)

Exploded View - Upper Front Fascia

INFOID:000000012520415



1. Upper fascia reinforcement 2. Upper front fascia

Removal and Installation - Upper Front Fascia

INFOID:000000012520416

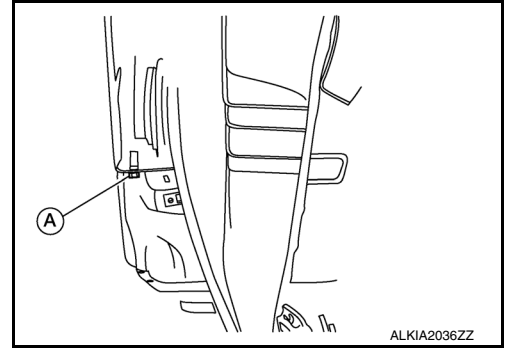
REMOVAL

1. Remove the front grille. Refer to [EXT-28, "Removal and Installation"](#).
2. Remove the front fender lower protectors (LH/RH). Refer to [EXT-33, "Removal and Installation"](#).
3. Partially remove the front edge of the front fender protectors (LH/RH). Refer to [EXT-33, "Removal and Installation"](#).

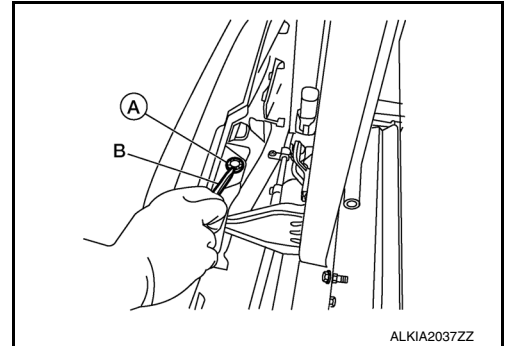
FRONT BUMPER

< REMOVAL AND INSTALLATION >

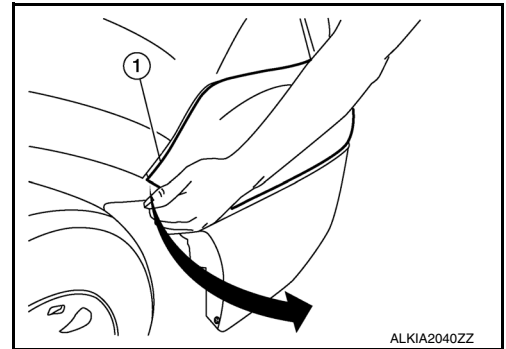
4. Remove the upper front fascia screw (A) (LH/RH).



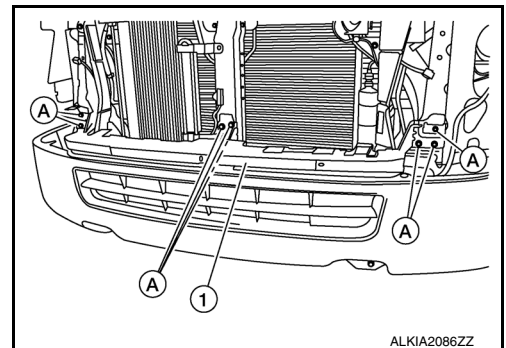
5. Remove the top and lower upper front fascia clips (A), using a suitable tool (B).



6. Remove the upper front fascia (1).



7. Remove the upper front fascia reinforcement bolts (A) at the RH, LH and center of the reinforcement and the upper front fascia reinforcement (1).



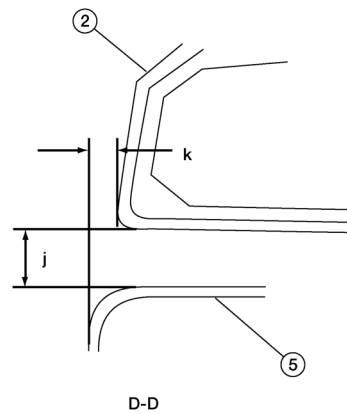
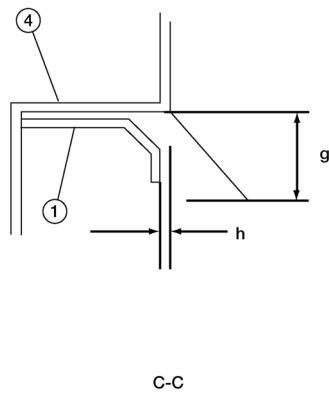
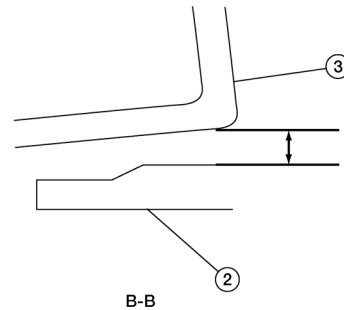
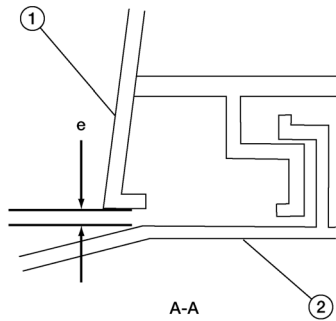
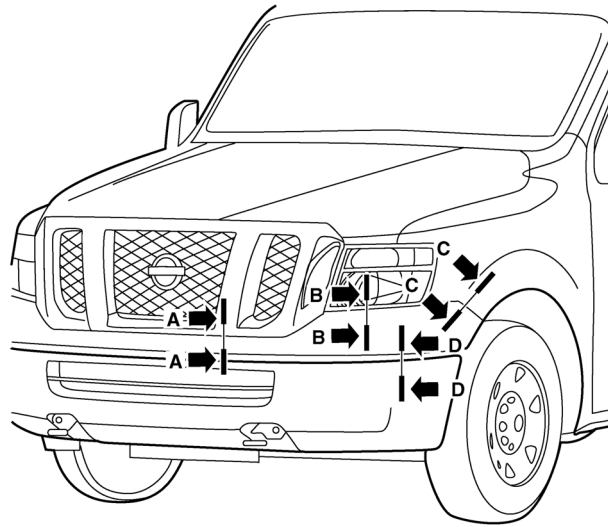
INSTALLATION

Installation is in the reverse order of removal.

FRONT BUMPER

< REMOVAL AND INSTALLATION >

SEC. 620



- 1. Front grille
- 4. Front fender

- 2. Upper front fascia
- 5. Front bumper

- 3. Front combination lamp

ALKIA2025ZZ

Units: mm (in)

Portion	Measurement		Standard	Difference (MAX)
A-A	e	Clearance	3.0 (0.12)	±1.5 (0.06)
B-B	f	Clearance	3.0 (0.12)	±1.5 (0.06)

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FRONT BUMPER

< REMOVAL AND INSTALLATION >

Portion	Measurement		Standard	Difference (MAX)
C-C	g	Clearance	0.0 (0.00)	+0.8 (0.03)
C-C	h	Surface height	0.8 (0.03)	±1.0 (0.04)
D-D	k	Clearance	20.0 (0.79)	±5.0 (0.20)
D-D	j	Surface height	0.0 (0.00)	±5.0 (0.20)

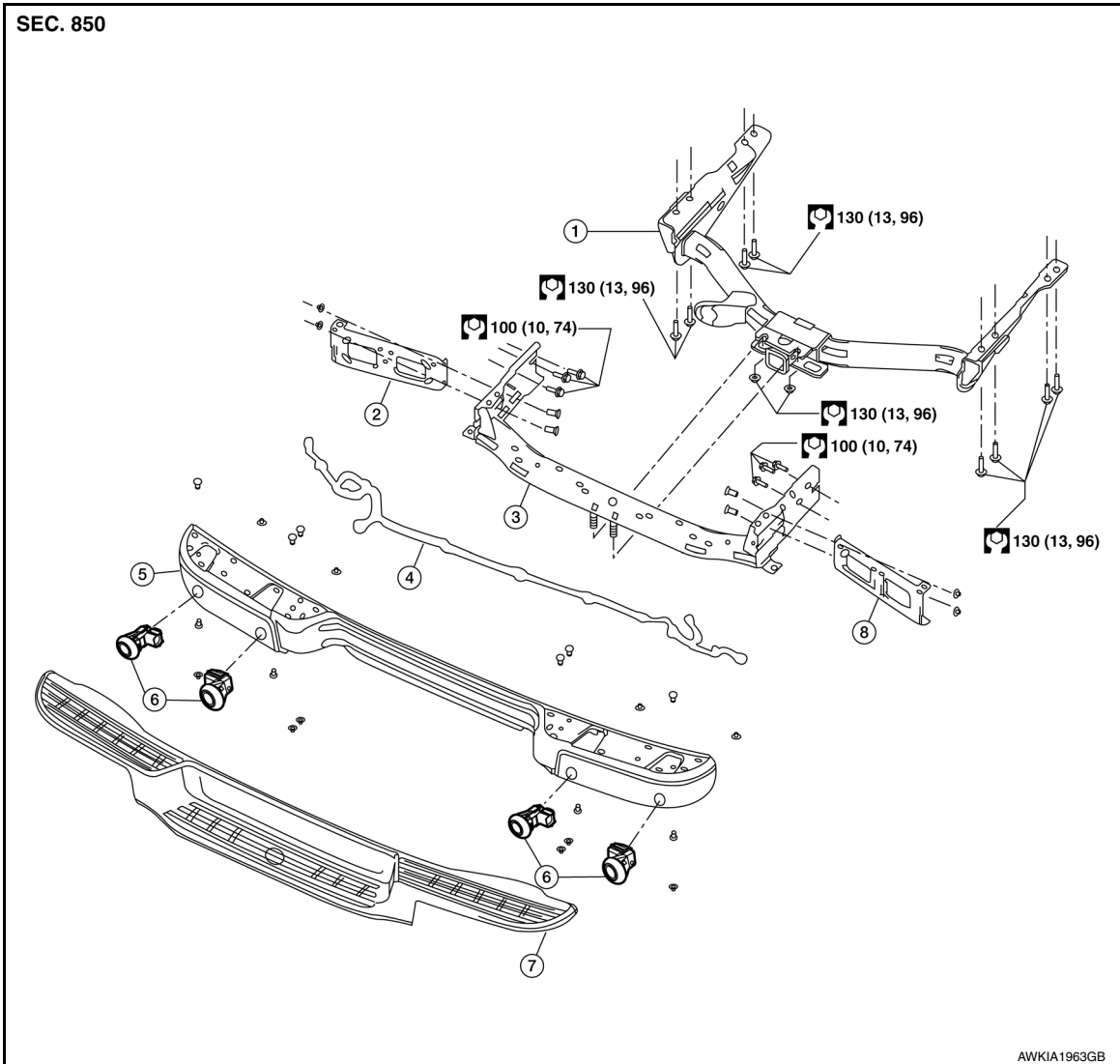
REAR BUMPER

< REMOVAL AND INSTALLATION >

REAR BUMPER

Exploded View

INFOID:000000012520417



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| 1. Tow hitch (if equipped) | 2. Rear bumper side reinforcement bracket (LH) | 3. Rear bumper center reinforcement |
| 4. Rear sonar sensor harness (if equipped) | 5. Rear bumper | 6. Rear sonar sensors (if equipped) |
| 7. Rear bumper step pad | 8. Rear bumper side reinforcement bracket (RH) | |

Removal and Installation

INFOID:000000012520418

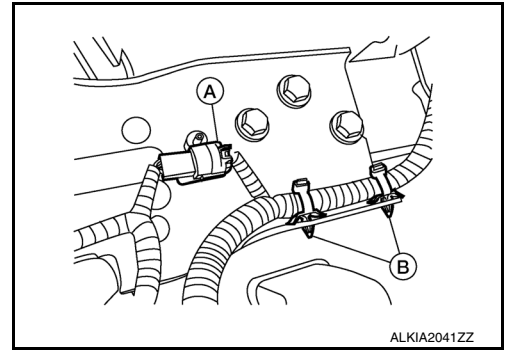
REMOVAL

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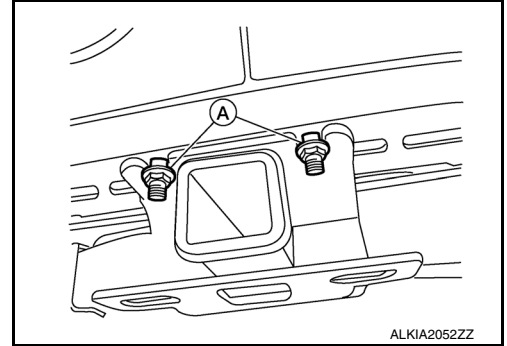
REAR BUMPER

< REMOVAL AND INSTALLATION >

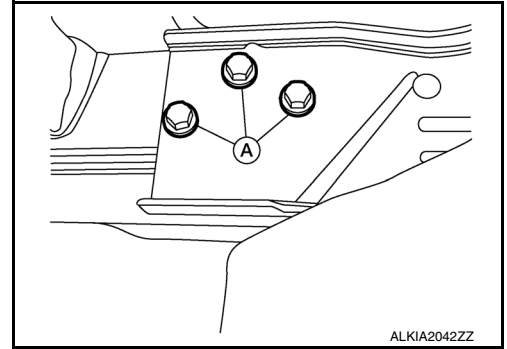
1. Disconnect the harness connector (A) from the rear sonar sensor and release the tow hitch harness clips (B) (if equipped).



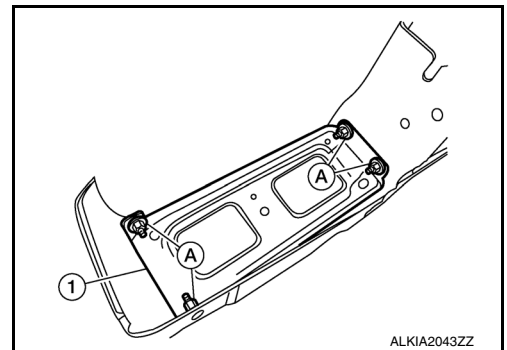
2. Remove the tow hitch nuts (A) (if equipped).



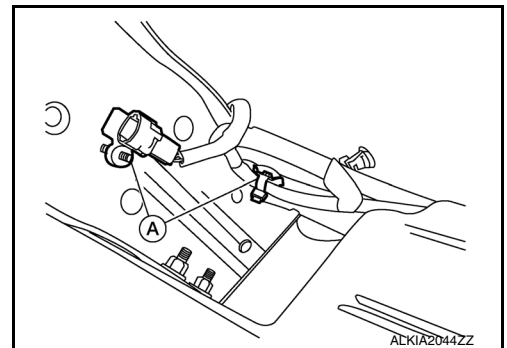
3. Remove the rear bumper center reinforcement (LH/RH) bolts (A) and the rear bumper.



4. Remove the rear bumper side bracket nuts (A) and the side brackets (1) (LH/RH).



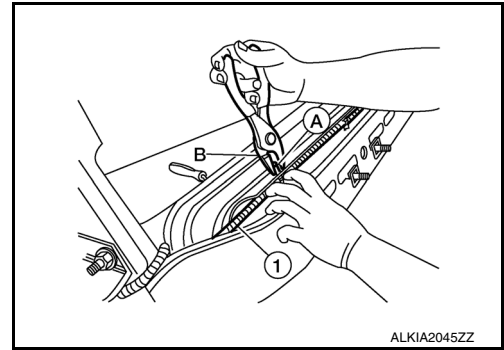
5. Release the rear sonar sensor harness connector and clip (A) (if equipped).



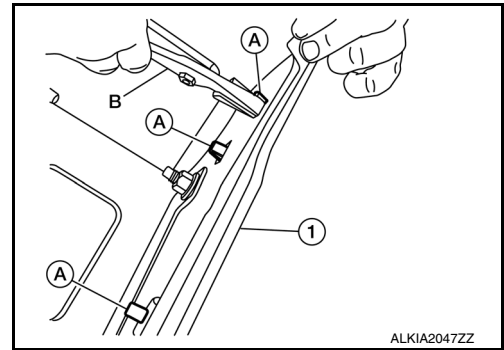
REAR BUMPER

< REMOVAL AND INSTALLATION >

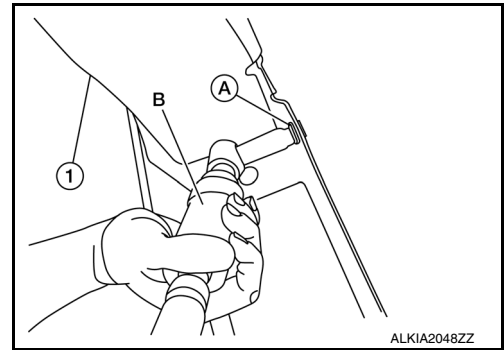
6. Release the rear sonar sensor harness clips (A), using a suitable tool (B) and remove the rear sonar sensor harness (1) (if equipped).



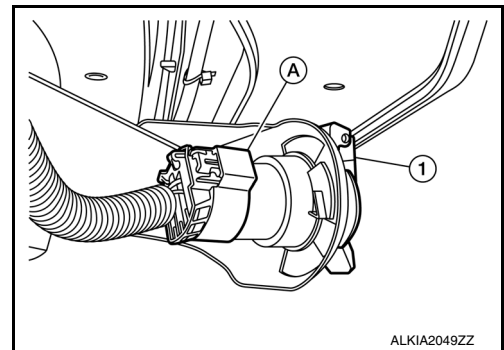
7. Remove the rear sonar sensors (if equipped). Refer to [SN-35. "FRONT SENSOR : Removal and Installation"](#).
8. Release the rear bumper step pad clips (A), using a suitable tool (B) and remove the rear bumper step pad (1).



9. Remove the rear bumper reinforcement nuts (A), using a suitable tool (B) and remove the rear bumper reinforcement (1).



10. Disconnect the harness connector (A) from the tow hitch connector (1) (if equipped).

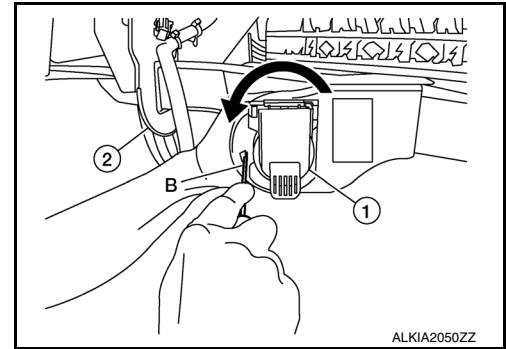


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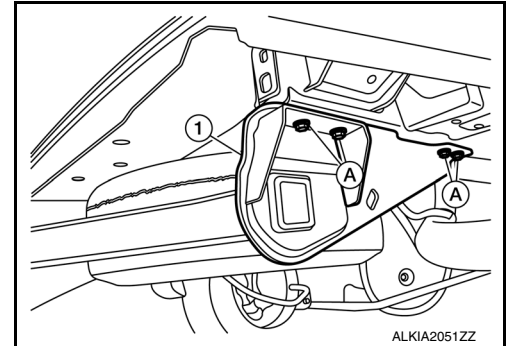
REAR BUMPER

< REMOVAL AND INSTALLATION >

11. Press the tow harness connector tab in, using a suitable tool (B), then rotate the tow harness connector (1) and remove the tow hitch harness connector (1) from the tow hitch (2) (if equipped).



12. Remove the tow hitch bolts (A) and the tow hitch (1) (if equipped).

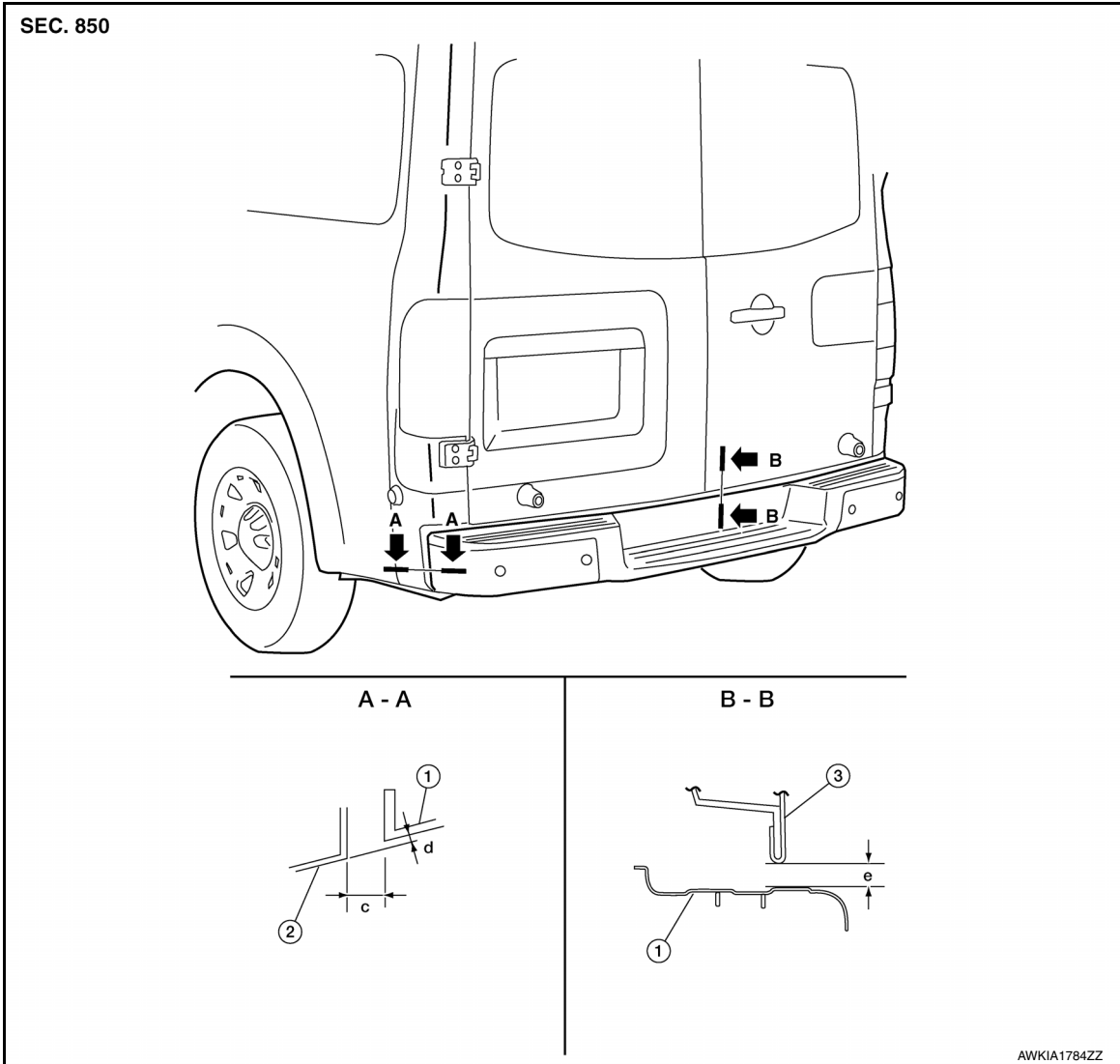


INSTALLATION

Installation is in the reverse order of removal.

REAR BUMPER

< REMOVAL AND INSTALLATION >



1. Rear bumper 2. Body side outer (LH) 3. Back door

Units: mm (in)

Portion	Measurement	Standard	Difference (MAX)
A-A	c Clearance	20.0 (0.79)	±5.0 (0.20)
A-A	d Surface height	0.0 (0.00)	±5.0 (0.20)
B-B	e Clearance	20.0 (0.79)	±5.0 (0.20)

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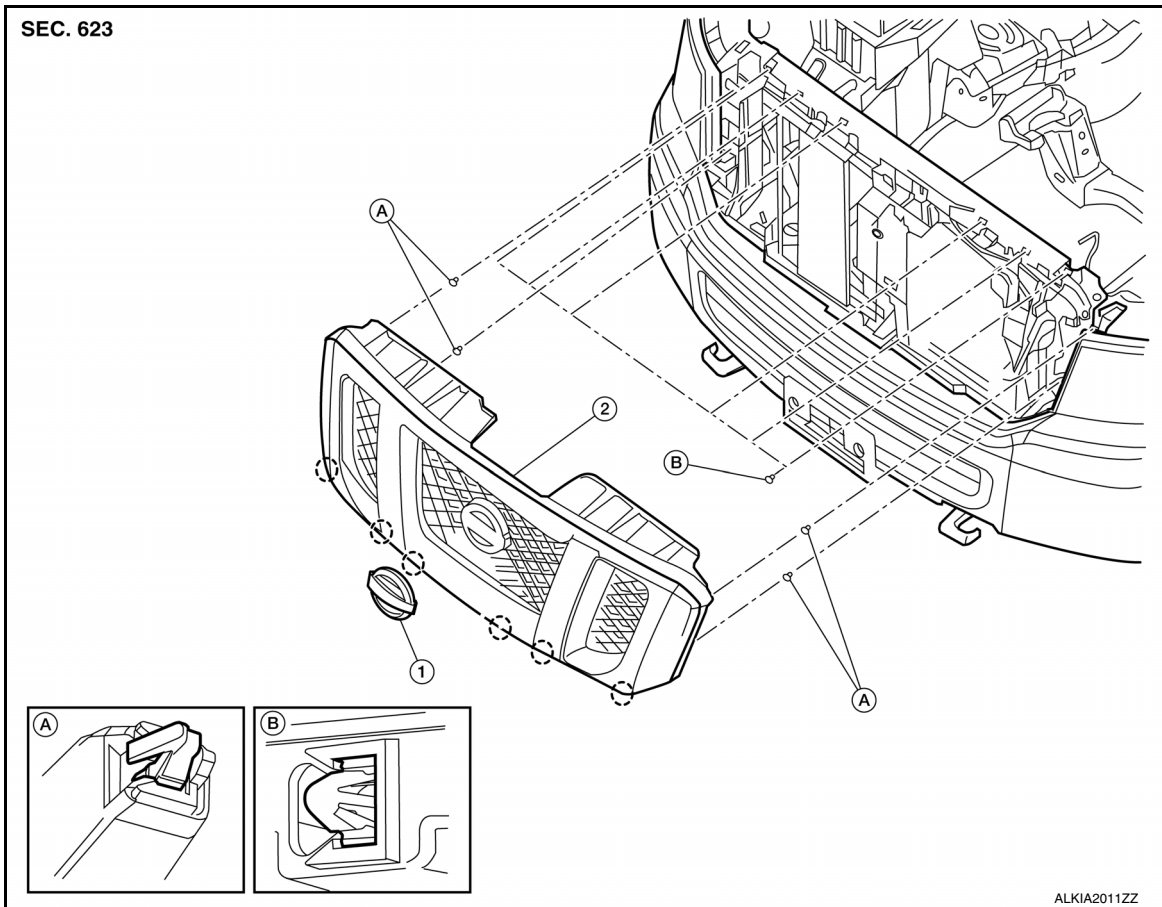
FRONT GRILLE

< REMOVAL AND INSTALLATION >

FRONT GRILLE

Exploded View

INFOID:000000012520419



1. Emblem

2. Front grille

A. Clip (Side)

B. Clip (Top)

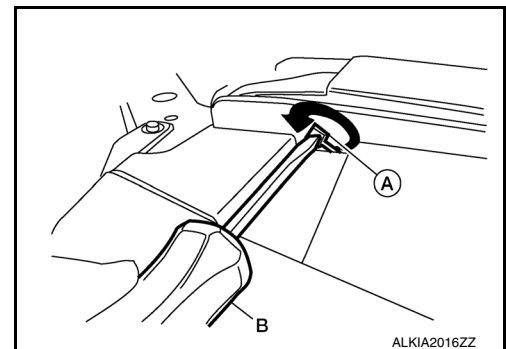
○ Pawl

Removal and Installation

INFOID:000000012520420

REMOVAL

1. Release the front grille top clips (A) using a suitable tool (B).



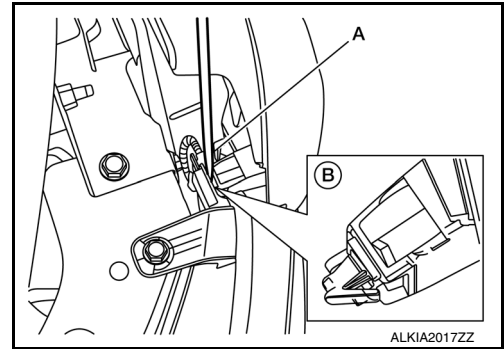
FRONT GRILLE

< REMOVAL AND INSTALLATION >

2. Release the front grille side clips (B) on the LH and RH sides, using a suitable tool (A).

CAUTION:

Use care not to damage the headlamp tabs when releasing the side clips.



3. Release the front grille lower pawls and remove the front grille.
4. Remove the emblem (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

NOTE:

Install clips to the front grille prior to installing.

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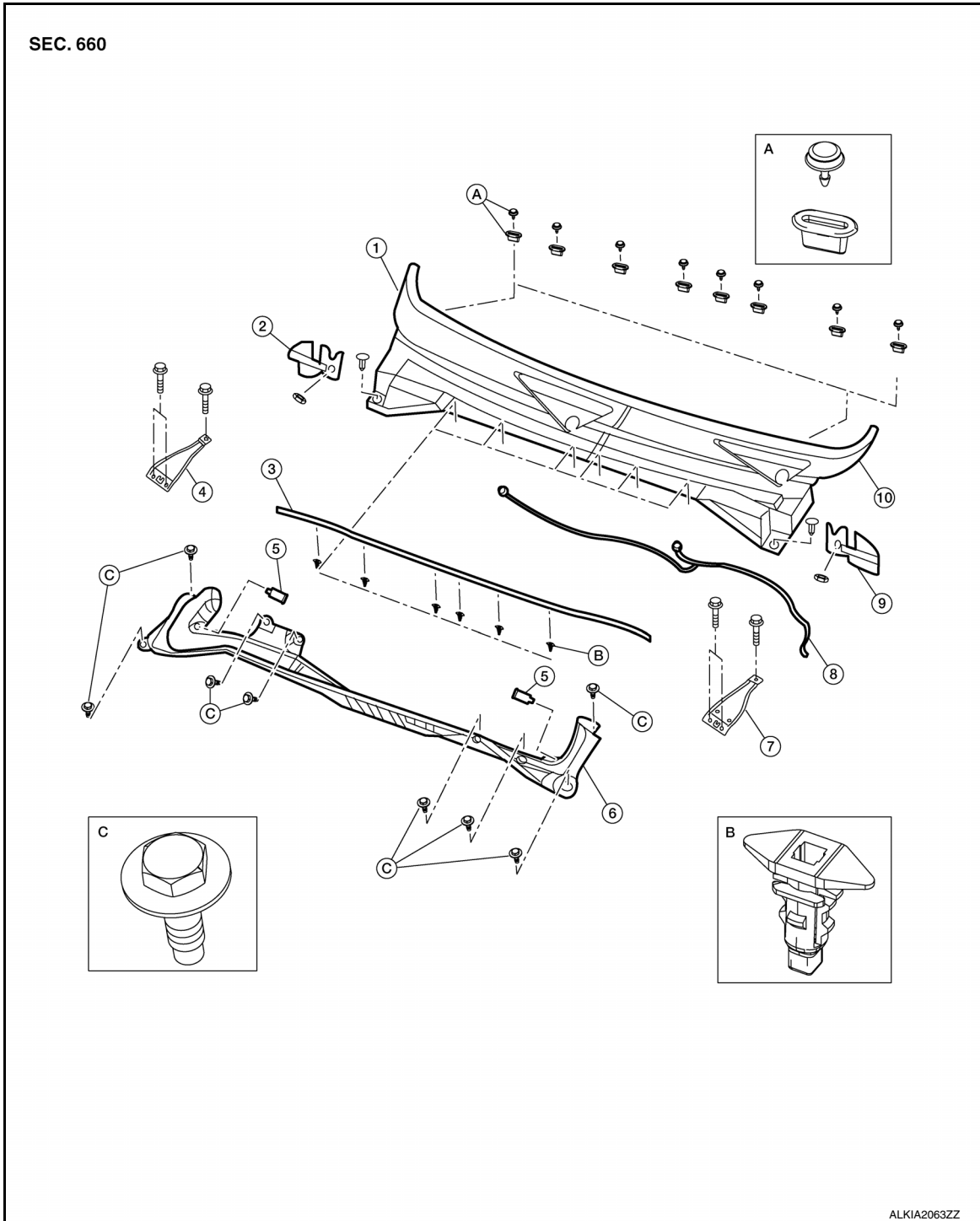
COWL TOP

< REMOVAL AND INSTALLATION >

COWL TOP

Exploded View

INFOID:000000012520421



- | | | |
|------------------------------------|------------------------------------|----------------------------|
| 1. Cowl top cover (RH) | 2. Cowl top side seal (RH) | 3. Cowl top center seal |
| 4. Cowl top extension bracket (RH) | 5. Drain tubes | 6. Cowl top extension |
| 7. Cowl top extension bracket (LH) | 8. Washer nozzle and hose assembly | 9. Cowl top side seal (LH) |
| 10. Cowl top cover (LH) | A. Clip CG104 | B. Clip CF110 |
| C. Bolts | | |

COWL TOP

< REMOVAL AND INSTALLATION >

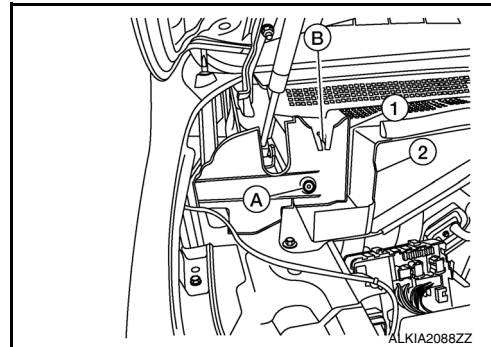
Removal and Installation

INFOID:000000012520422

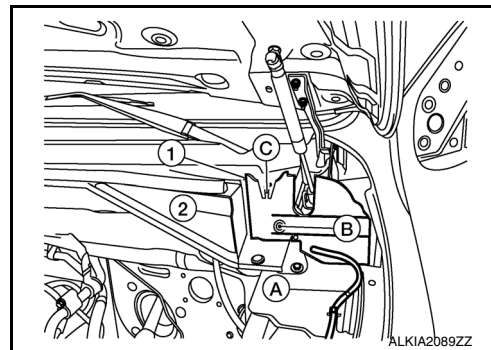
COWL TOP COVERS

Removal

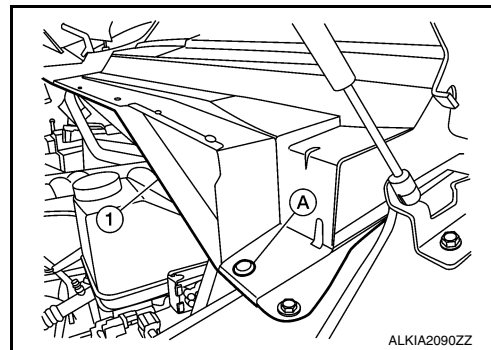
1. Remove the front wiper arms. Refer to [WW-37. "Removal and Installation"](#).
2. Remove cowl top center seal.
 - Release plastic clips on cowl top center seal and remove the seal.
3. Remove the cowl top side seal (RH).
 - a. Remove the cowl top side seal (RH) clip (A).
 - b. Release the pawl (B) from the cowl top cover (RH) (2) while lifting the cowl top side seal (RH) (1) upward to remove it.



4. Remove the cowl top side seal (LH).
 - a. Disconnect the washer nozzle tube from the main washer reservoir tube connector (A).
 - b. Remove the cowl top side seal (LH) clip (B).
 - c. Release the pawl (C) from the cowl top cover LH (2) while lifting the cowl top side seal (LH) (1) upward to remove it.



5. Remove the cowl top covers (LH/RH).
 - a. Remove the cowl top covers LH and RH clips (A).
 - b. Disconnect washer tubes from washer nozzles beneath the cowl top covers (1).
 - c. Remove the cowl top covers (1).



Installation

Installation is in the reverse order of removal.

COWL TOP EXTENSION

Removal

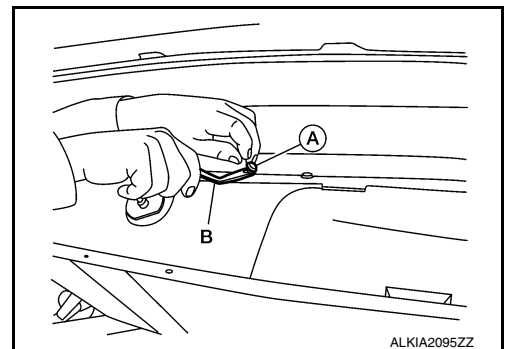
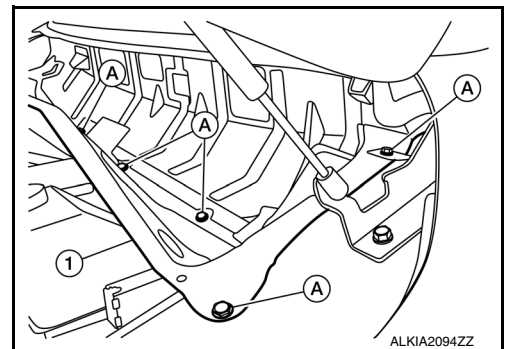
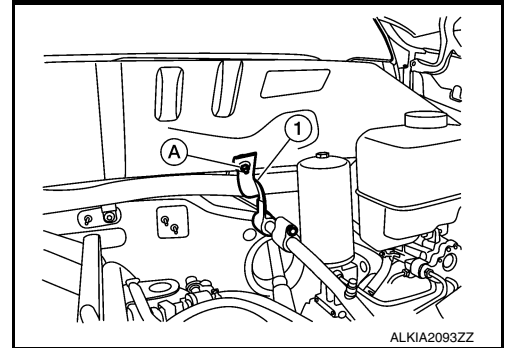
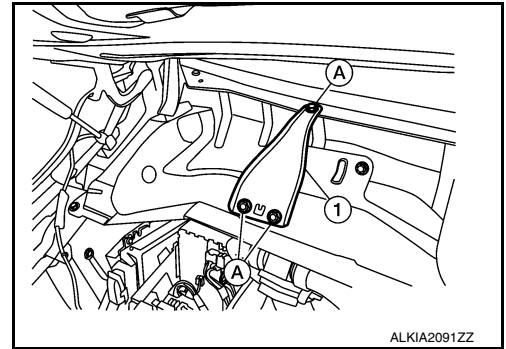
1. Remove the cowl top covers (LH/RH).

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COWL TOP

< REMOVAL AND INSTALLATION >

2. Remove cowl top extension bracket bolts (A) (LH/RH).
3. Disconnect the wiper motor harness from the cowl top extension bracket (LH) and remove the cowl top extension brackets (1) (LH/RH).
4. Remove the wiper motor and connecting rod linkage. Refer to [WW-43. "Exploded View"](#).
5. Remove the drain tube from each side of the cowl top extension.
6. Remove the A/C tube bracket nut (A) and position the A/C tube bracket (1) aside.
7. Remove the cowl top extension bolts (A) and the cowl top extension (1).
8. Remove the cowl top cover LH and RH clips (A), using a suitable tool (B).



Installation

Installation is in the reverse order of removal.

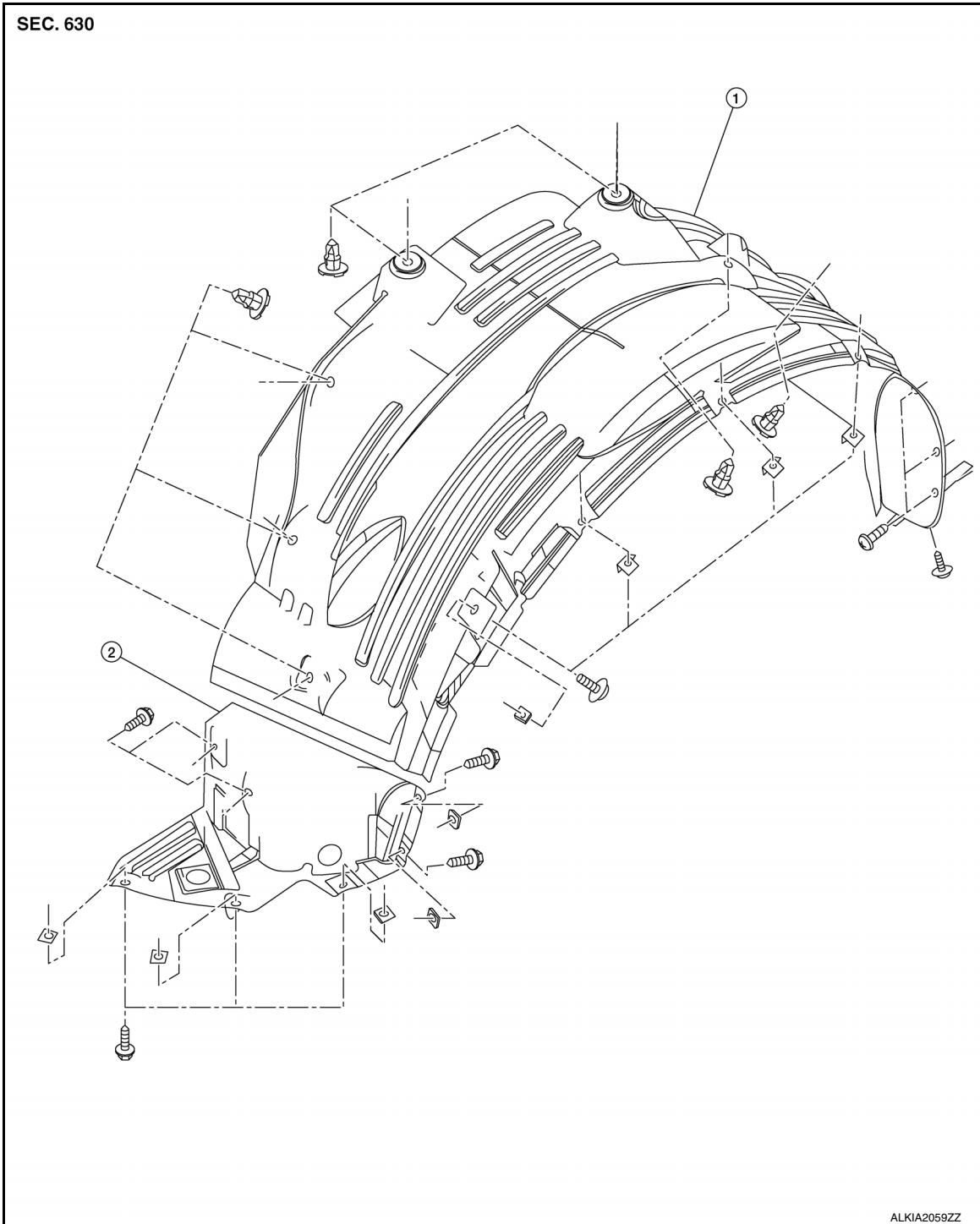
FENDER PROTECTOR

< REMOVAL AND INSTALLATION >

FENDER PROTECTOR

Exploded View

INFOID:000000012520423



1. Front fender protector (LH shown)
2. Front fender lower protector

Removal and Installation

INFOID:000000012520424

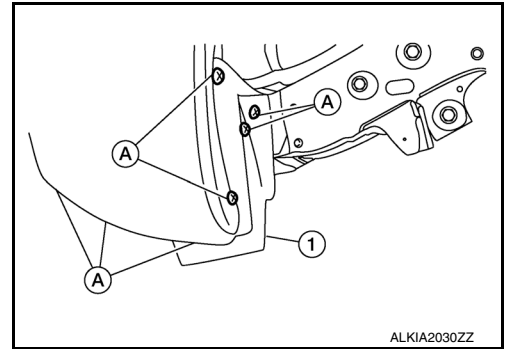
REMOVAL

1. Remove the front mudguard (if equipped). Refer to [EXT-36. "Removal and Installation"](#).

FENDER PROTECTOR

< REMOVAL AND INSTALLATION >

2. Remove the front fender lower protector screws (A) and the front fender lower protector (1).



3. Remove the front fender protector screws and clips and the front fender protector.

INSTALLATION

Installation is in the reverse order of removal.

MUDGUARD

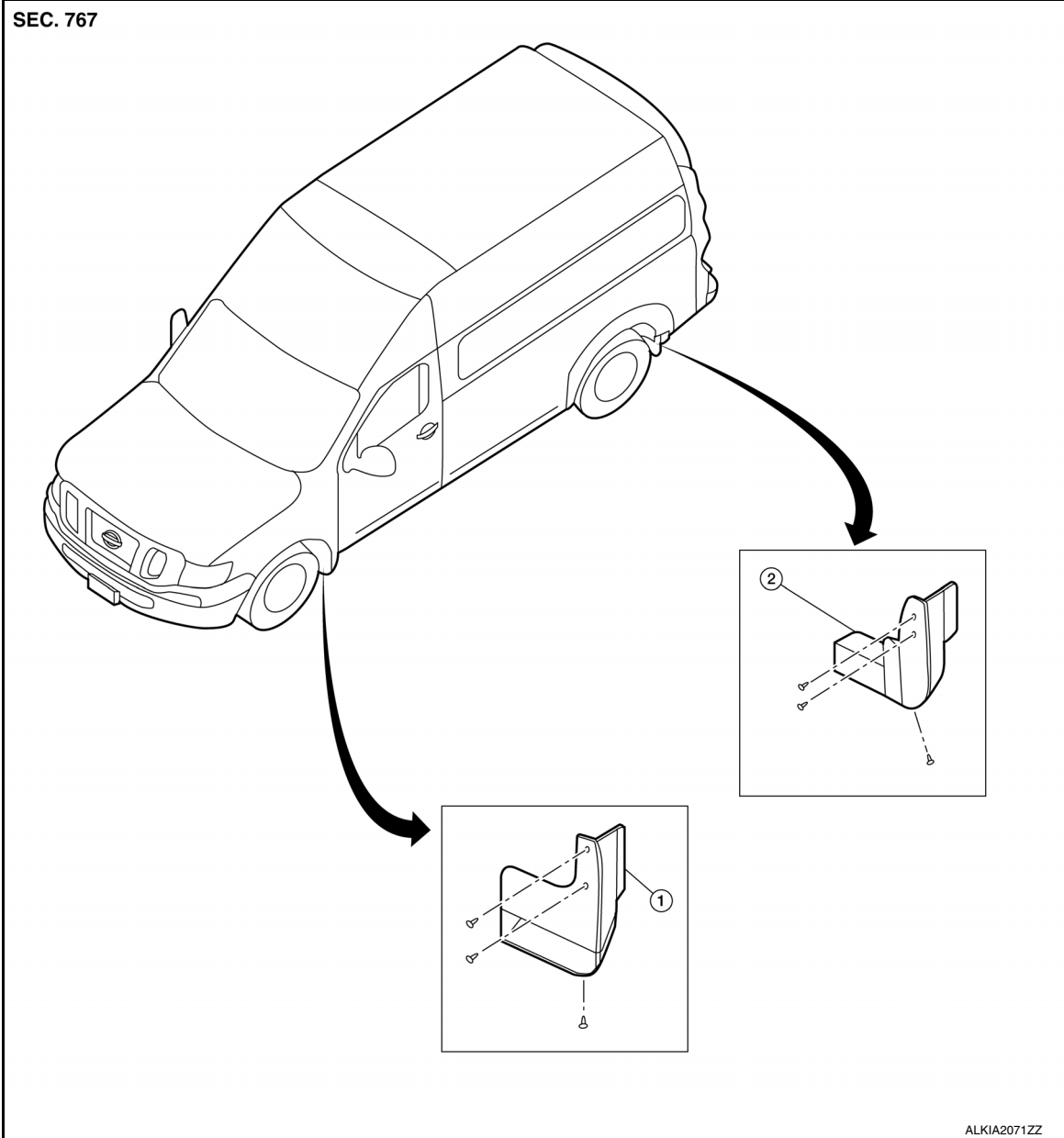
< REMOVAL AND INSTALLATION >

MUDGUARD

Exploded View

INFOID:000000012520425

High Roof Cargo Van



1. Front mudguard

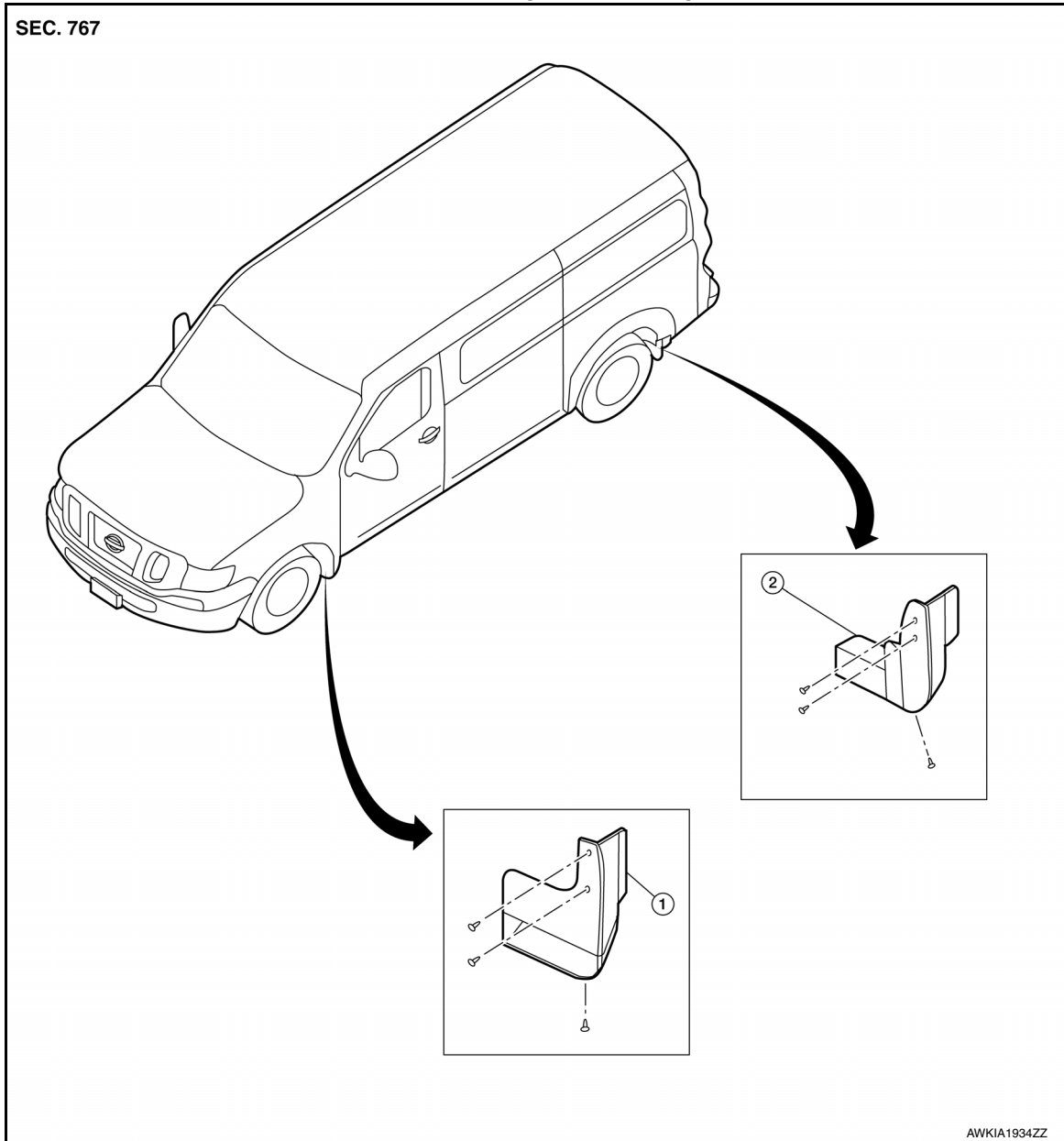
2. Rear mudguard

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MUDGUARD

< REMOVAL AND INSTALLATION >

Standard Roof Cargo or Passenger Van



1. Front mudguard

2. Rear mudguard

Removal and Installation

INFOID:000000012520426

REMOVAL

1. Remove the front mudguard screws and remove the front mudguard.
2. Remove the rear mudguard screws and remove the rear mudguard.

INSTALLATION

Installation is in the reverse order of removal.

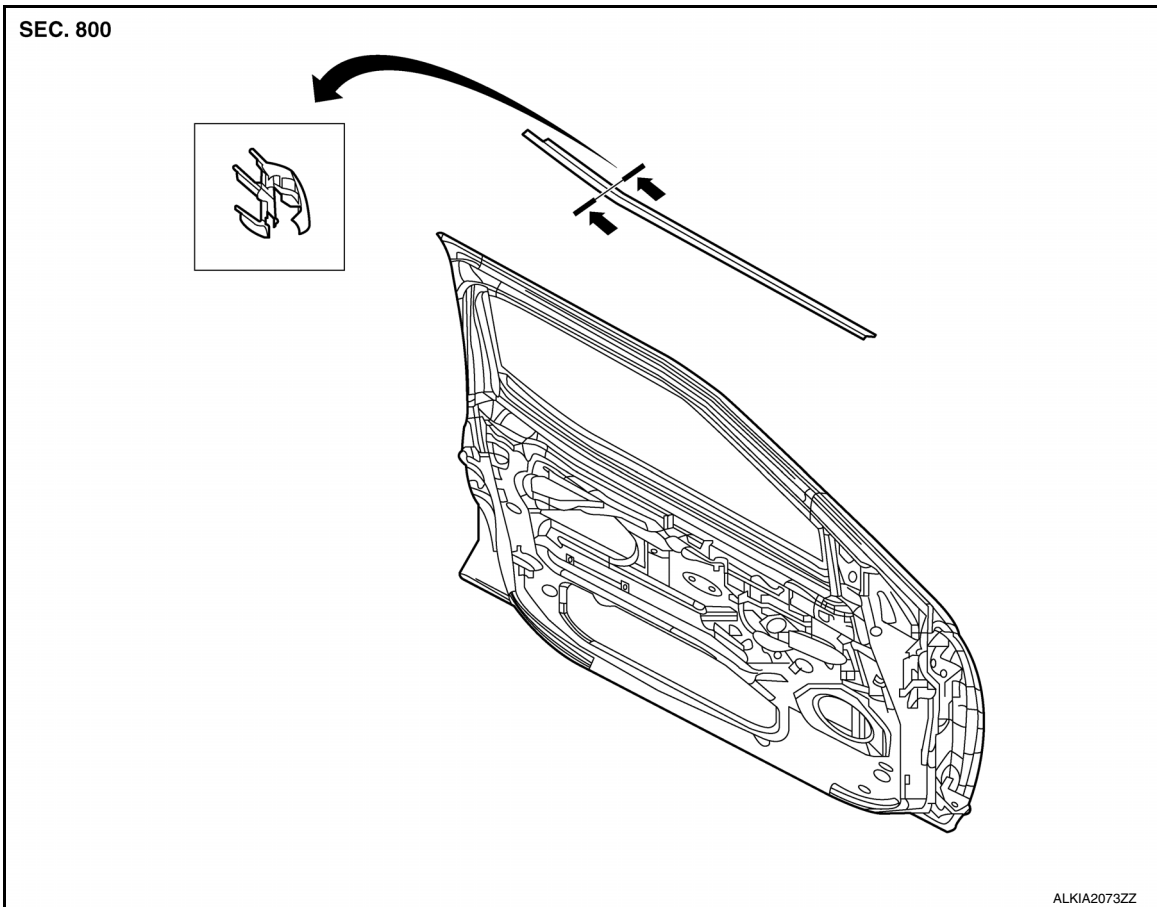
DOOR OUTSIDE MOLDING

< REMOVAL AND INSTALLATION >

DOOR OUTSIDE MOLDING

Exploded View

INFOID:000000012520427



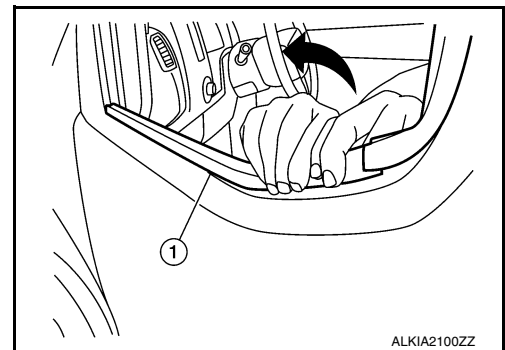
Removal and Installation

INFOID:000000012520428

EXT

REMOVAL

1. Remove the door mirror assembly. Refer to [MIR-21, "DOOR MIRROR ASSEMBLY : Removal and Installation"](#).
2. Remove the front door outside molding.
 - Lift the front door molding (1) from the rear edge first, then roll the molding inward and remove from the door.



INSTALLATION

Installation is in the reverse order of removal.

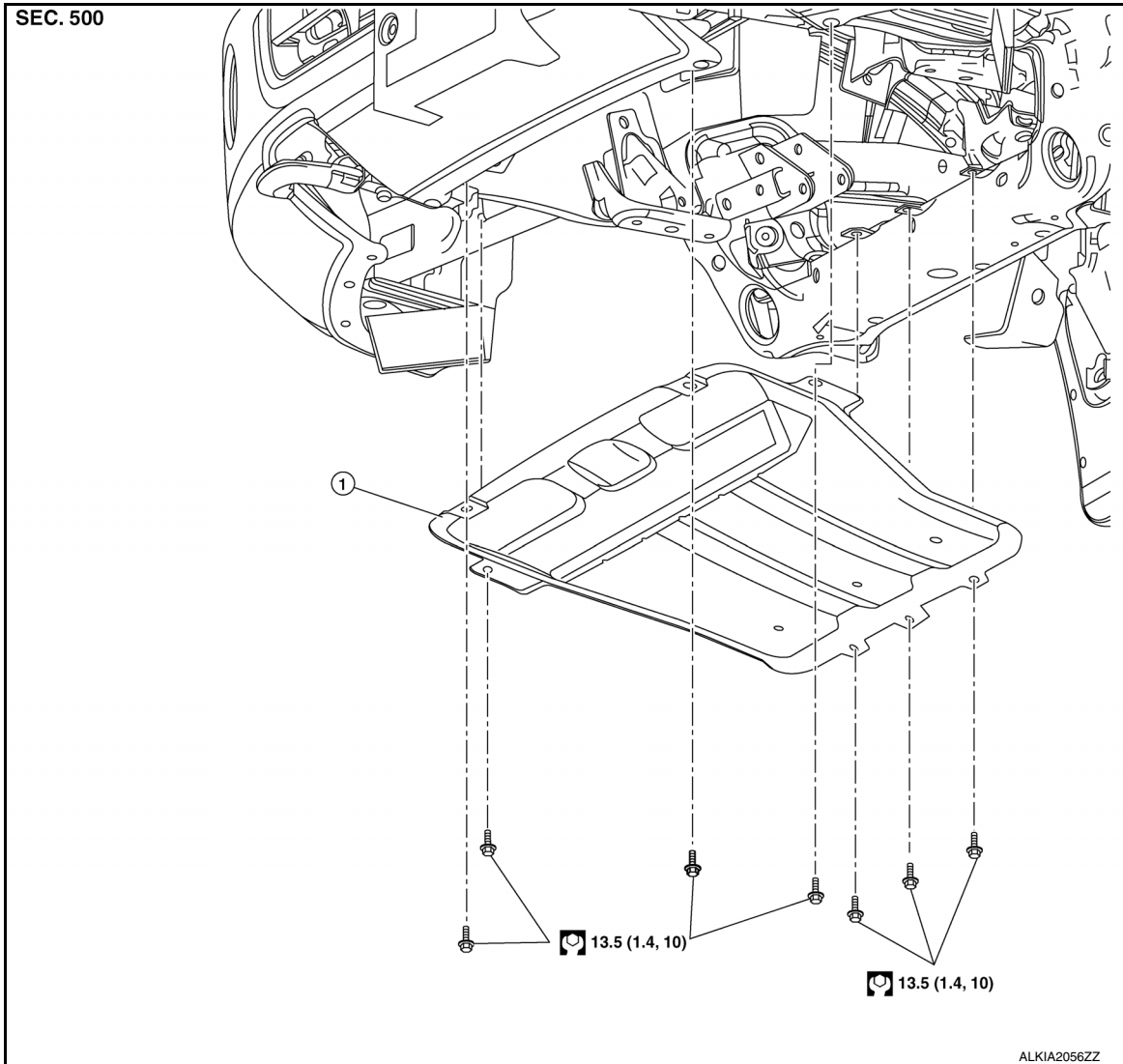
FRONT UNDER COVER

< REMOVAL AND INSTALLATION >

FRONT UNDER COVER

Exploded View

INFOID:000000012520429



1. Front under cover

Removal and Installation

INFOID:000000012520430

REMOVAL

Remove the front under cover bolts and the front under cover.

INSTALLATION

Installation is in the reverse order of removal.

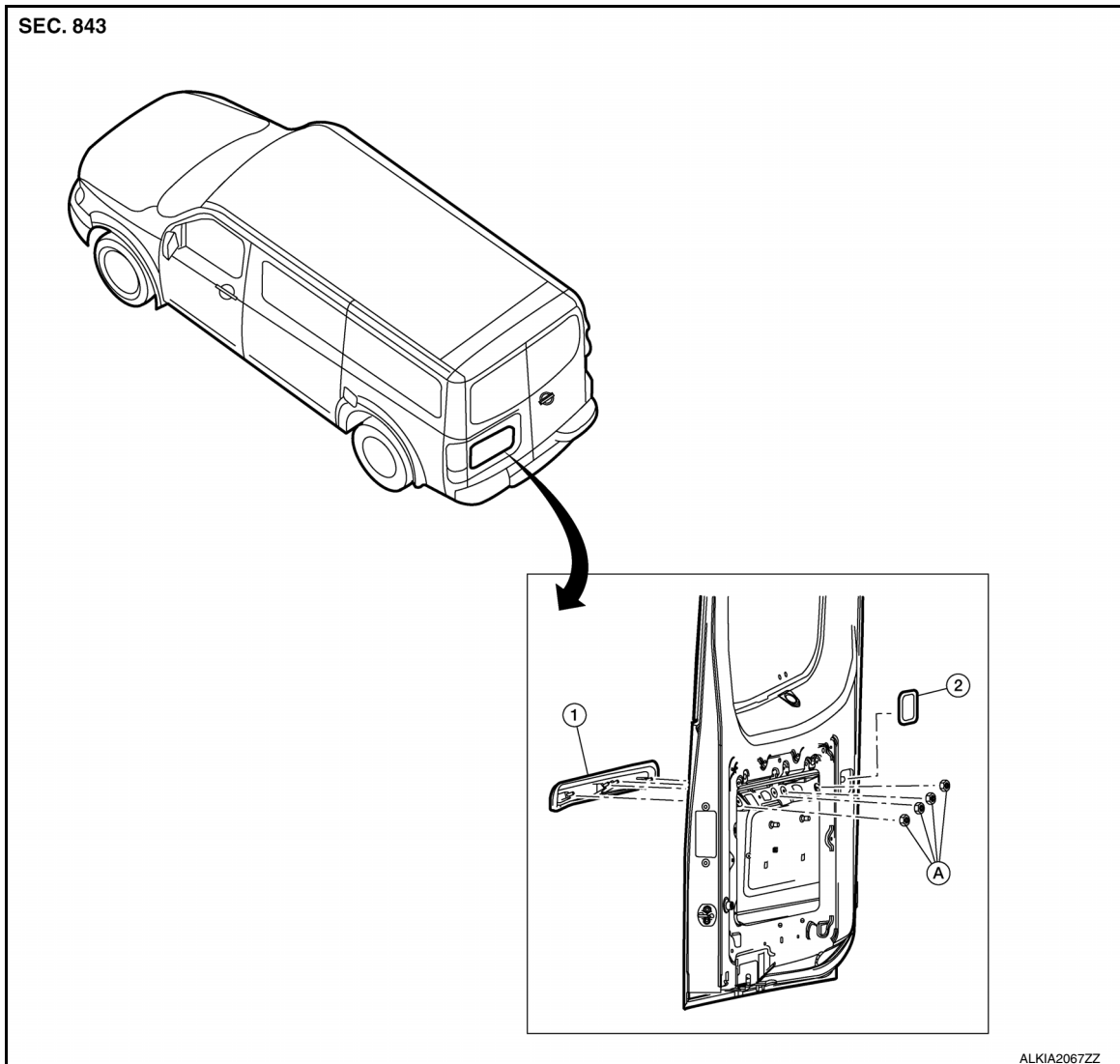
LICENSE LAMP FINISHER

< REMOVAL AND INSTALLATION >

LICENSE LAMP FINISHER

Exploded View

INFOID:000000012520431



1. License lamp finisher

2. Access grommet

A. Nuts

Removal and Installation

INFOID:000000012520432

REMOVAL

1. Remove the back door finisher (LH). Refer to [INT-21, "Removal and Installation"](#).
2. Remove the access grommet.
3. Remove the license lamp finisher nuts.
4. Remove license lamp finisher.

INSTALLATION

Installation is in the reverse order of removal.

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