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EXTERIOR

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PRECAUTION

PRECAUTIONS

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

INFOID:000000006391066

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.

Precautions Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000006931315

NOTE:

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

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

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

If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.

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PRECAUTIONS

[COUPE]

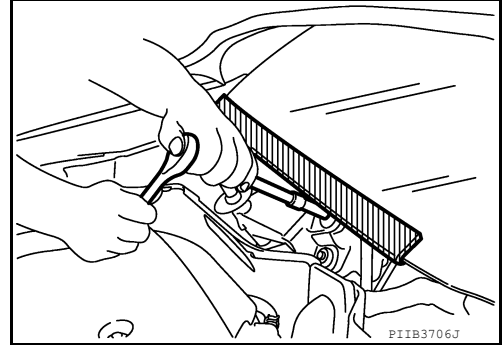
< PRECAUTION >

5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT.

Precaution for Procedure without Cowl Top Cover

INFOID:000000006391068

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



Precaution for Work

INFOID:000000006931318

- 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 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, and wring the water out of the cloth to wipe the dirty area.
Then rub with a soft and 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, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

< PREPARATION >

[COUPE]

PREPARATION

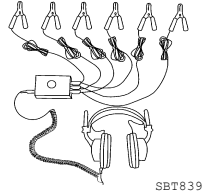
PREPARATION

Special Service Tool

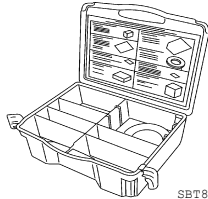
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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

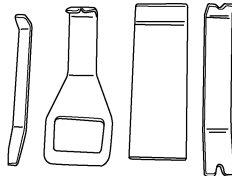
Tool number (Kent-Moore No.) Tool name	Description
— (J-39570) Chassis ear	Locating the noise
— (J-43980) NISSAN Squeak and Rattle kit	Repairing the cause of noise
— (J-46534) Trim Tool Set	Removing trim components



SBT839



SBT840

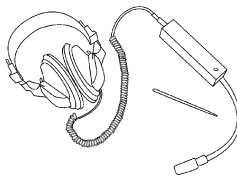


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Commercial Service Tool

INFOID:000000006391071

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



SIIA0995E

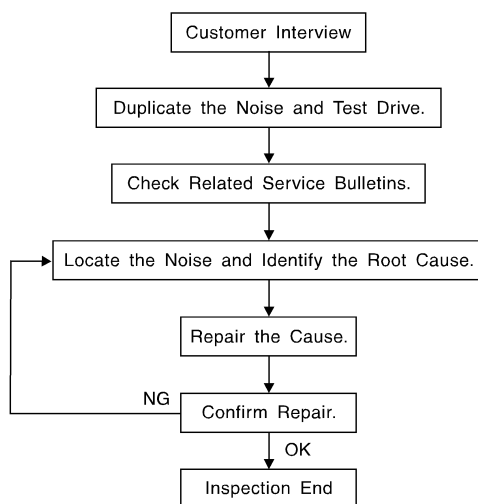
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SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000006931326



SBT842

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-34, "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

[COUPE]

< 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-32. "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

[COUPE]

< SYMPTOM DIAGNOSIS >

UHMW (TEFLON) TAPE

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

SILICONE GREASE

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

Note: Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

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

Generic Squeak and Rattle Troubleshooting

INFOID:000000006931327

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel 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

[COUPE]

< 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.

A

SUNROOF/HEADLINING

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

B

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 headliner and squeaking

C

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.

D

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.

E

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.

F

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.

G

Cause of seat noise include:

H

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

I

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.

J

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.

EXT

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

L

M

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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

[COUPE]

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

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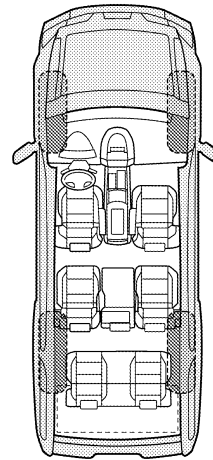
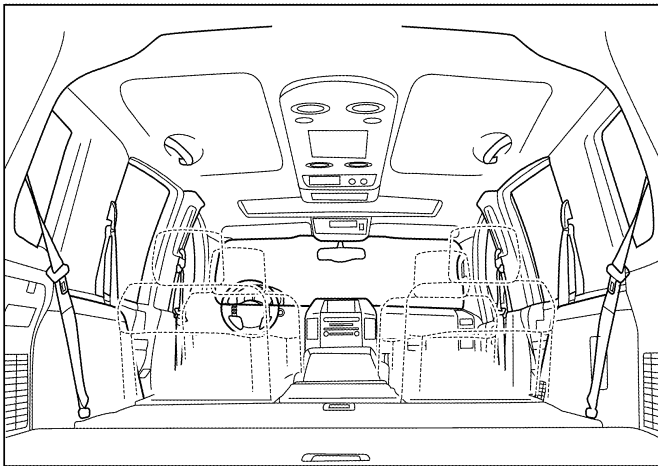
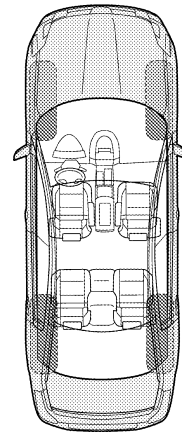
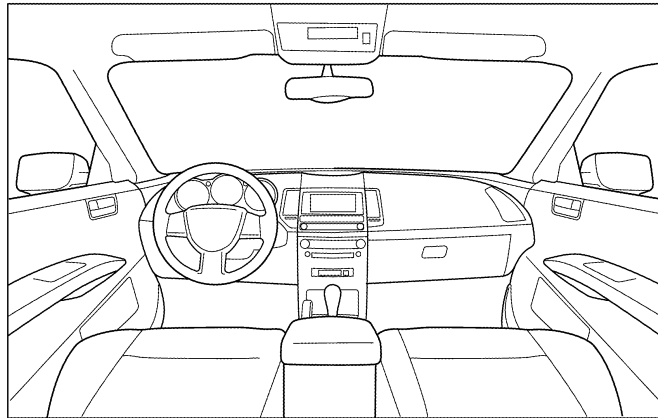
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[COUPE]

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

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EXT

CLIP AND FASTENER

< SYMPTOM DIAGNOSIS >


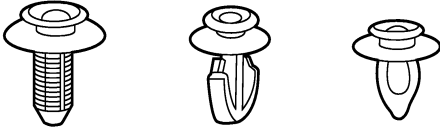


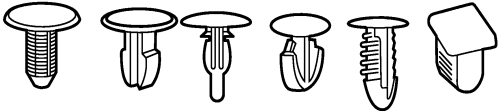
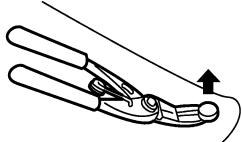

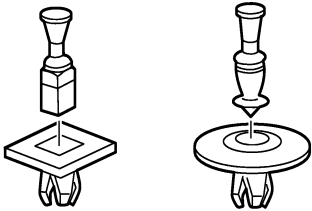
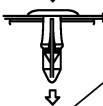
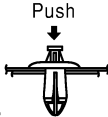

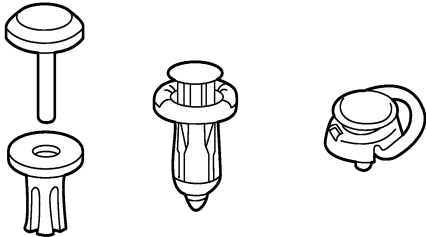
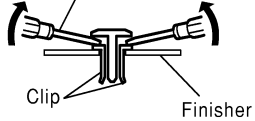

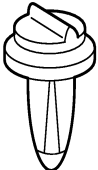
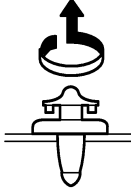
[COUPE]

CLIP AND FASTENER

Descriptions for Clips and Fasteners

INFOID:000000006931329

Replace any clips and fasteners which are damaged during removal or installation.


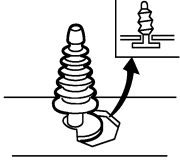
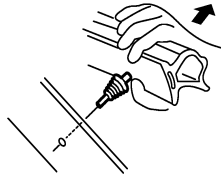

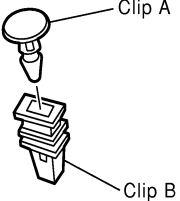
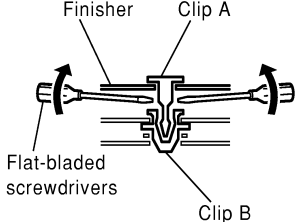

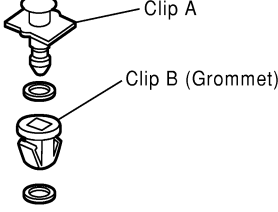
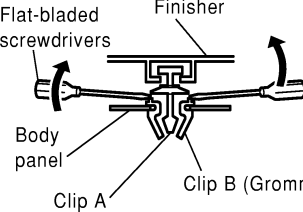


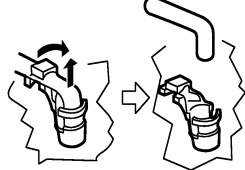

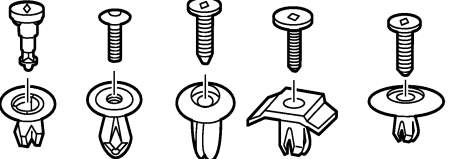

Symbol No.	Shapes	Removal & Installation
<p>C101</p> 		<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p> 
<p>C103</p> 		 <p>Removal: Remove with a clip remover.</p>
<p>C203</p> 		<p>Removal: Push center pin to catching position. (Do not remove center pin by hitting it.)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

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CLIP AND FASTENER

< SYMPTOM DIAGNOSIS >

[COUPE]

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. 


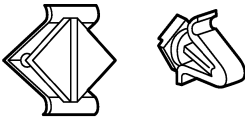

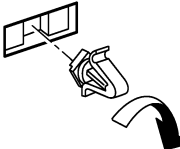

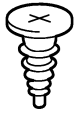



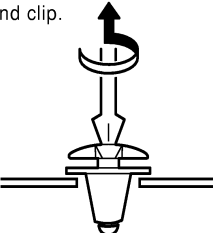


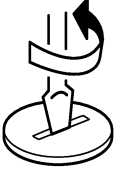
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CLIP AND FASTENER

< SYMPTOM DIAGNOSIS >

[COUPE]


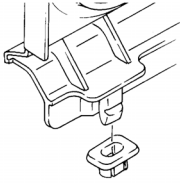
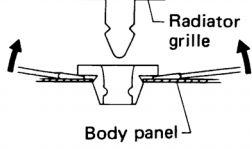

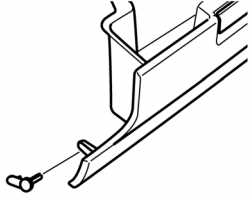
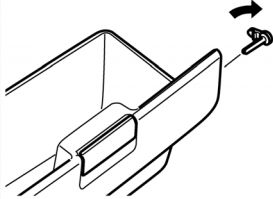

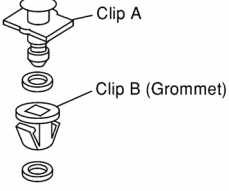
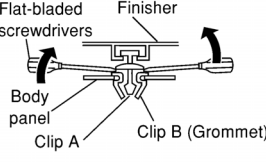
Symbol No.	Shapes	Removal & Installation	
<p>CG101</p> 		<p>Removal:</p>  <p>Rotate 45° to remove</p>	<p>Installation:</p> 
<p>CS102</p> 			
<p>CS113</p> 		<p>Removal: Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between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

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CLIP AND FASTENER

< SYMPTOM DIAGNOSIS >

[COUPE]

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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EXT

FRONT BUMPER

< REMOVAL AND INSTALLATION >

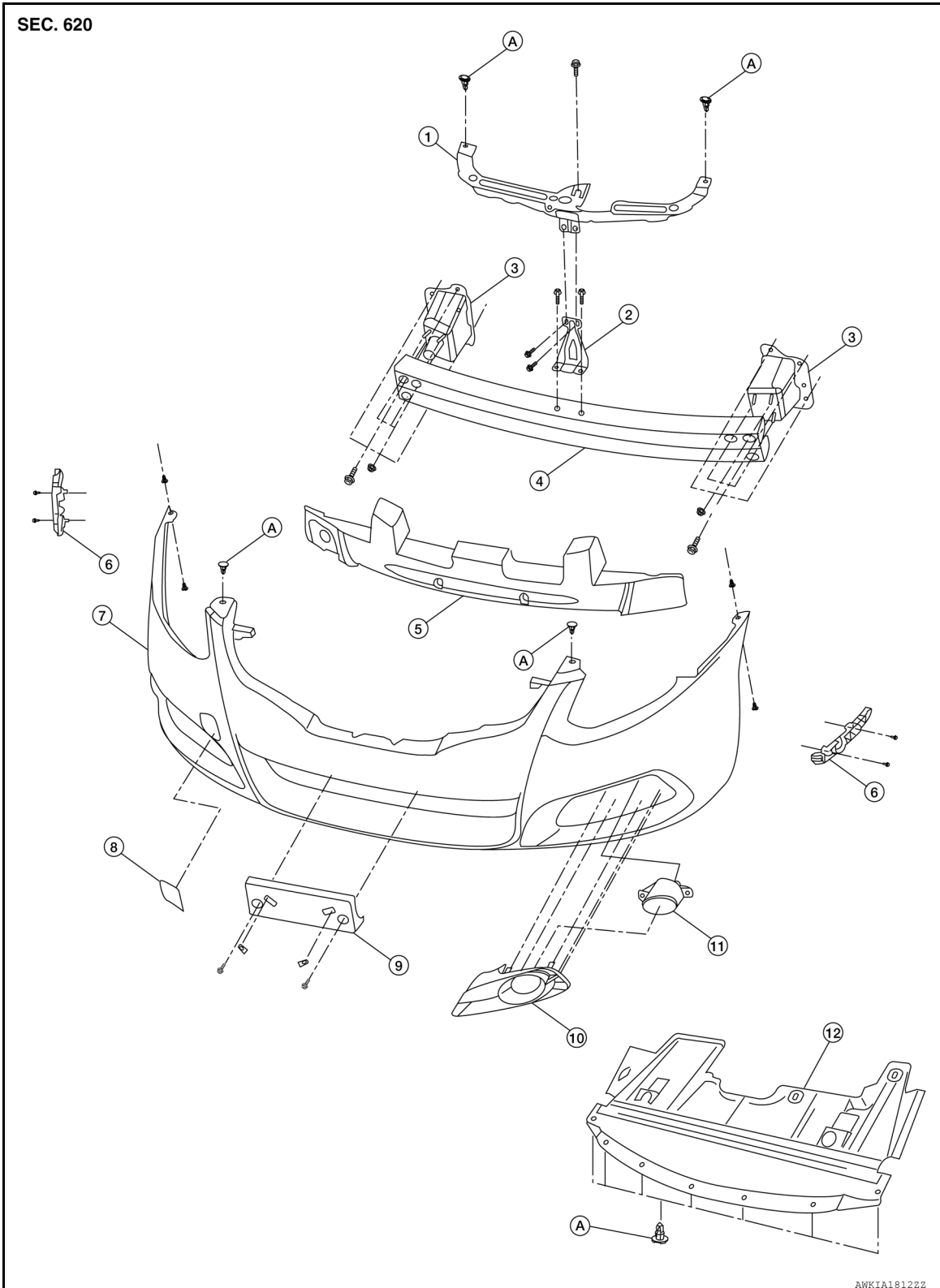
[COUPE]

REMOVAL AND INSTALLATION

FRONT BUMPER

Removal and Installation - Coupe

INFOID:000000006391076



FRONT BUMPER

< REMOVAL AND INSTALLATION >

[COUPE]

- | | | |
|-------------------------------------|---------------------------------------|------------------------------------|
| 1. Front bumper upper reinforcement | 2. Front bumper reinforcement bracket | 3. Front bumper supports RH/LH |
| 4. Front bumper reinforcement | 5. Front energy absorbing foam | 6. Front bumper side bracket RH/LH |
| 7. Front bumper fascia | 8. Tow hook cover | 9. License plate bracket |
| 10. Fog lamp finisher | 11. Fog lamp | 12. Engine under cover |
- A. Clip

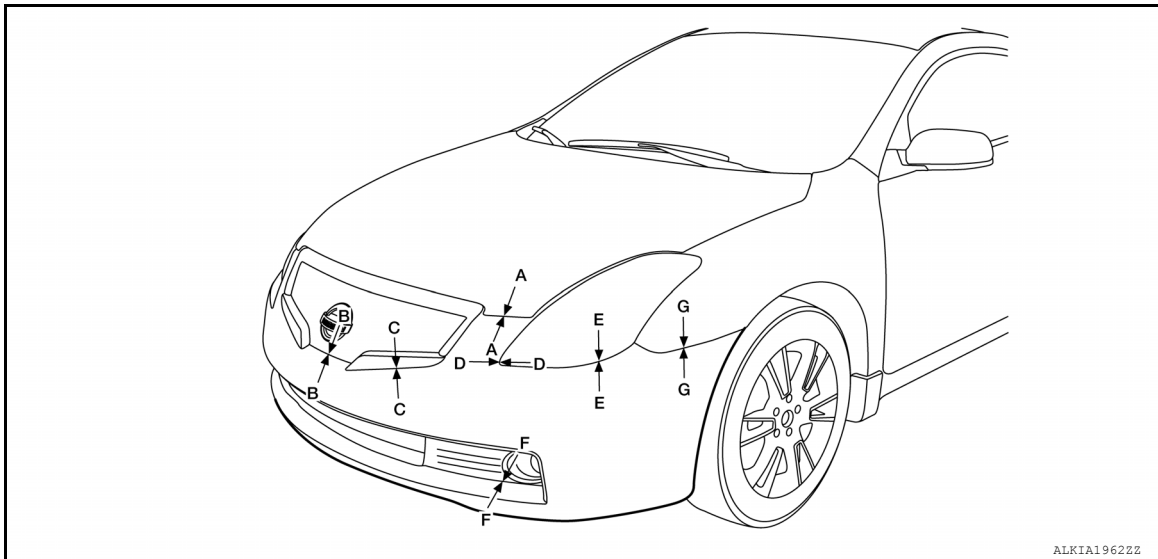
REMOVAL

- Partially remove the front fender protectors (RH/LH). Refer to [EXT-22, "Removal and Installation"](#).
- Remove the clips, then remove the engine under cover.
- Remove the fog lamps. Refer to [EXL-210, "Removal and Installation"](#).
- Remove the front bumper fascia clips and screws, then remove the front bumper fascia.
- Remove the front grille. Refer to [EXT-20, "Removal and Installation"](#).
- Remove the front energy absorbing foam.
- Remove the retainers, then the front bumper upper reinforcement and front bumper reinforcement bracket.
- Remove the retainers, then the front bumper reinforcement.
- Remove the retainers, then the front bumper supports (RH/LH).

INSTALLATION

Installation is in the reverse order of removal.

- Adjust fog lamp aiming. Refer to [EXL-206, "Aiming Adjustment"](#).



mm (in)

Section	Measurement	Minimum	Target Value	Maximum
A-A	Surface height	1.2 (0.047)	3.5 (0.138)	5.8 (0.228)
	Clearance	3.1 (0.122)	5.1 (0.201)	7.1 (0.280)
B-B	Surface height	-1.5 (-0.059)	0.0 (0.000)	1.5 (0.059)
	Clearance	0.5 (0.020)	1.5 (0.059)	2.5 (0.098)
C-C	Surface height	-1.5 (-0.059)	0.0 (0.000)	1.5 (0.059)
	Clearance	0.2 (0.008)	1.5 (0.059)	2.8 (0.110)
D-D	Clearance	2.0 (0.079)	4.0 (0.157)	6.0 (0.236)
E-E	Clearance	0.3 (0.012)	1.5 (0.059)	2.7 (0.106)
F-F	Clearance	2.0 (0.079)	3.0 (0.118)	4.0 (0.157)
G-G	Surface height	-1.7 (-0.067)	-0.7 (-0.028)	0.3 (0.012)
	Clearance	0.0 (0.000)	0.0 (0.000)	0.8 (0.031)

REAR BUMPER

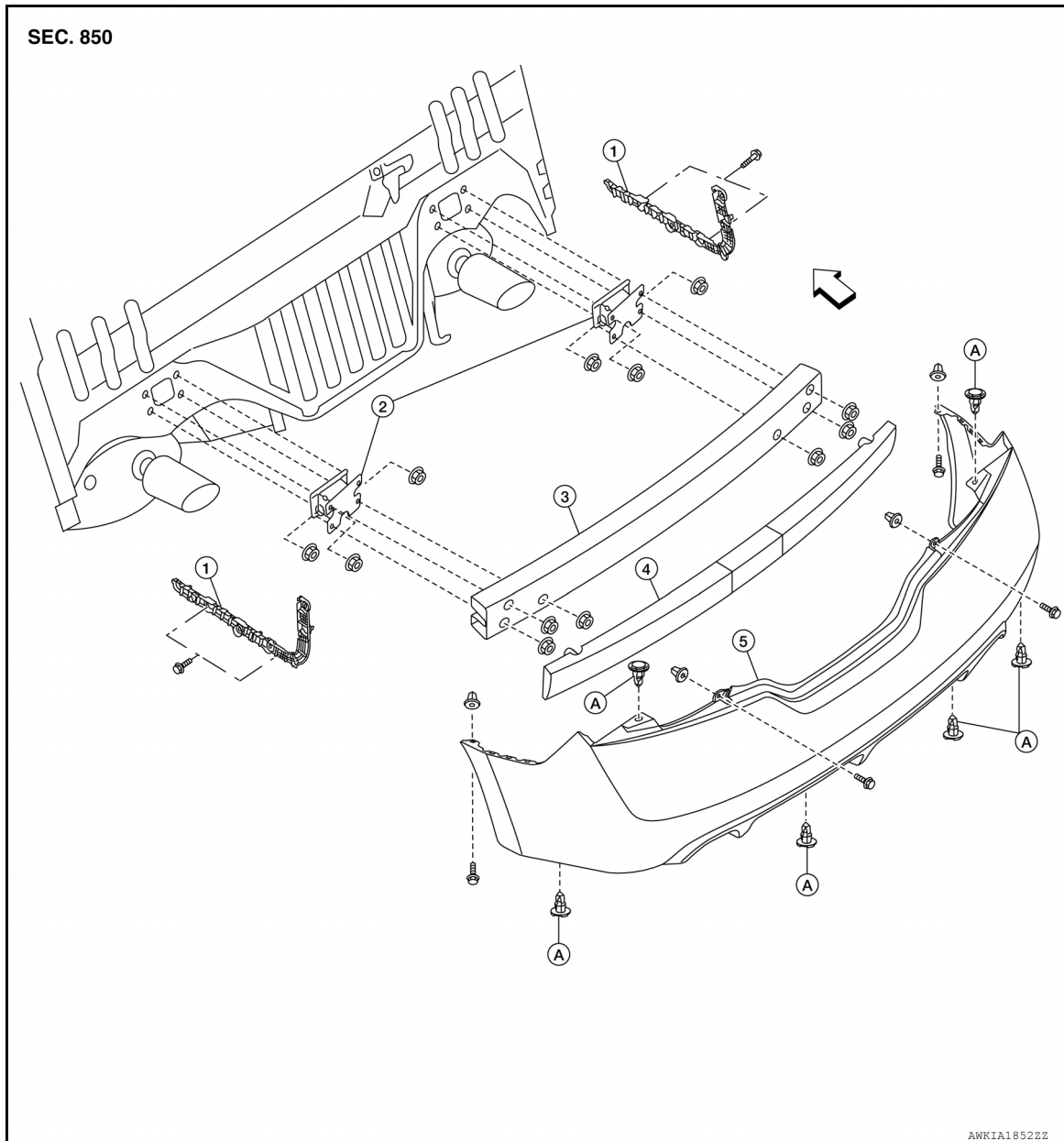
< REMOVAL AND INSTALLATION >

[COUPE]

REAR BUMPER

Removal and Installation

INFOID:00000006391077



- | | | |
|-------------------------------|-------------------------|------------------------------|
| 1. Rear bumper side brackets | 2. Rear bumper supports | 3. Rear bumper reinforcement |
| 4. Rear energy absorbing foam | 5. Rear bumper fascia | A. C205 push pin |
- ← Vehicle front

REMOVAL

1. Remove the rear combination lamps (RH/LH). Refer to [EXL-214, "Removal and Installation"](#).
2. Partially remove the rear fender protectors (RH/LH).
3. Remove the rear bumper fascia clips and screws, then remove the rear bumper fascia.
4. Remove the rear energy absorbing foam.
5. Remove the nuts, then the rear bumper reinforcement.
6. Remove the nuts, then the rear bumper supports.

INSTALLATION

Revision: June 2012

EXT-18

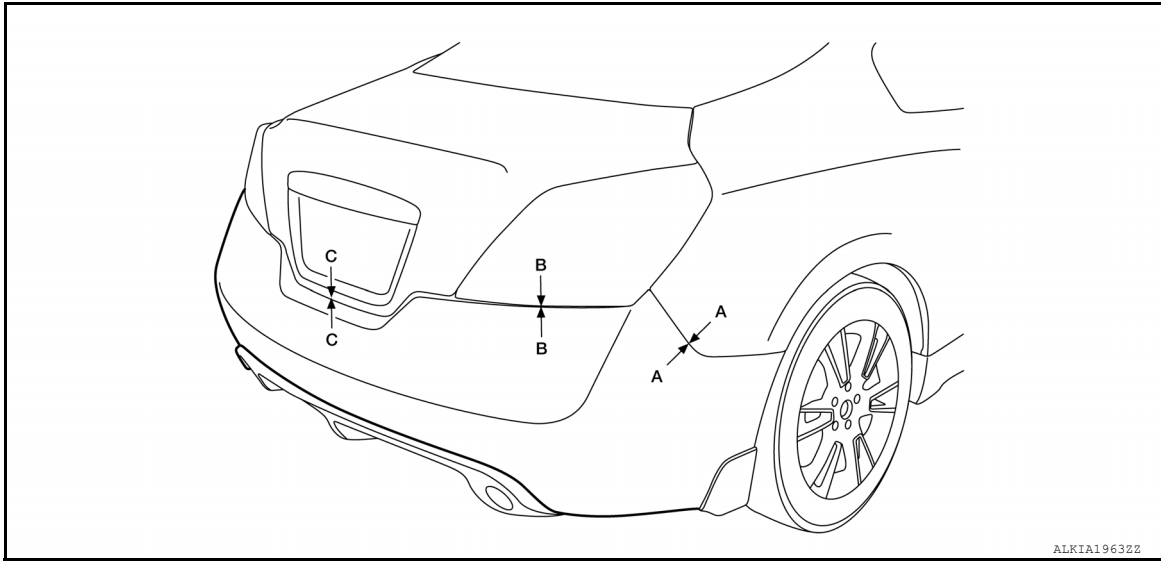
2011 Altima GCC

REAR BUMPER

< REMOVAL AND INSTALLATION >

[COUPE]

Installation is in the reverse order of removal.



mm (in)

Section	Measurement	Minimum	Target Value	Maximum
A-A	Clearance	0.0 (0.000)	0.0 (0.000)	1.0 (0.039)
A-A	Surface height	-0.25 (-0.010)	0.75 (0.030)	1.75 (0.069)
B-B	Clearance	0.0 (0.000)	1.5 (0.059)	3.0 (0.118)
C-C	Clearance	4.2 (0.165)	6.5 (0.256)	8.8 (0.346)

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EXT

FRONT GRILLE

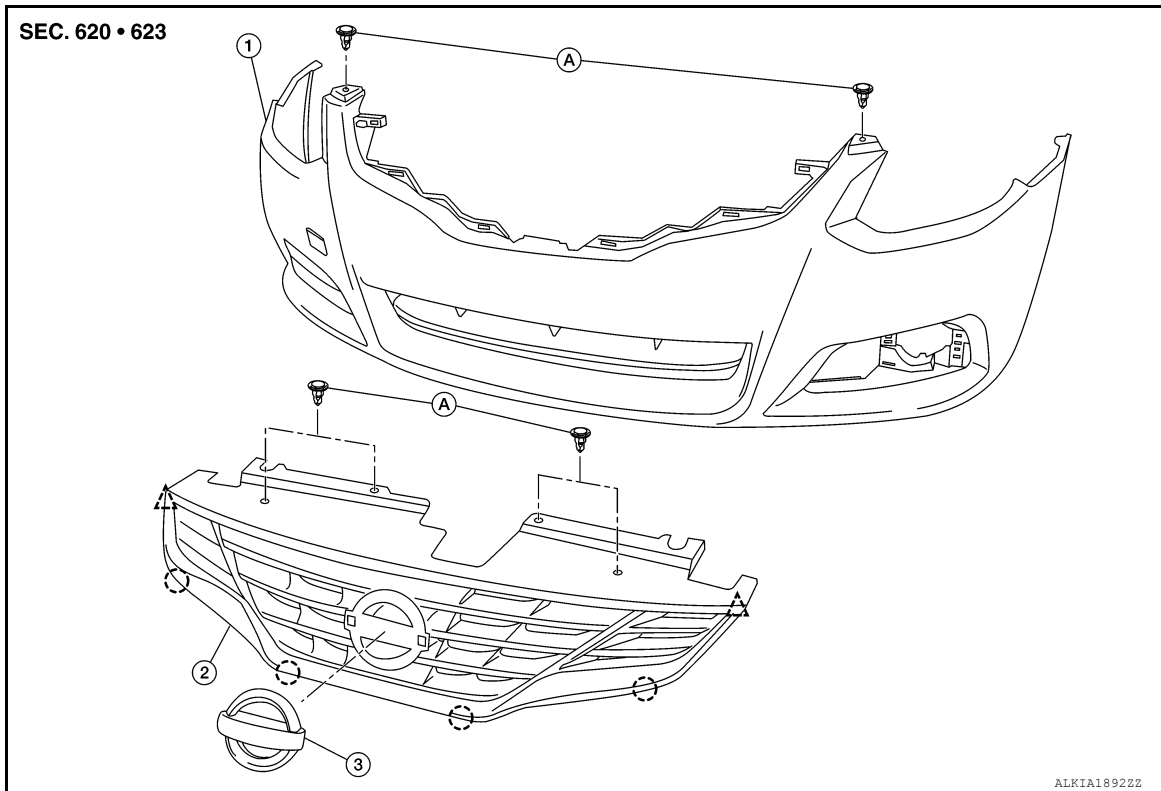
< REMOVAL AND INSTALLATION >

[COUPE]

FRONT GRILLE

Removal and Installation

INFOID:00000006391078



1. Front bumper fascia

2. Front grille

3. Emblem

A. Clip C101

△ Clips

○ Pawl

Removal

1. Partially remove the front fender protectors (RH/LH). Refer to [EXT-22. "Removal and Installation"](#).
2. Remove the clips, then the engine under cover.
3. Disconnect the fog lamps.
4. Remove the front bumper fascia. Refer to [EXT-16. "Removal and Installation - Coupe"](#).
5. Release the grille clips and pawls from the front bumper fascia and remove the front grille.
6. Remove the emblem to transfer to the new grille, if necessary.

Installation

Installation is in the reverse order of removal.

COWL TOP

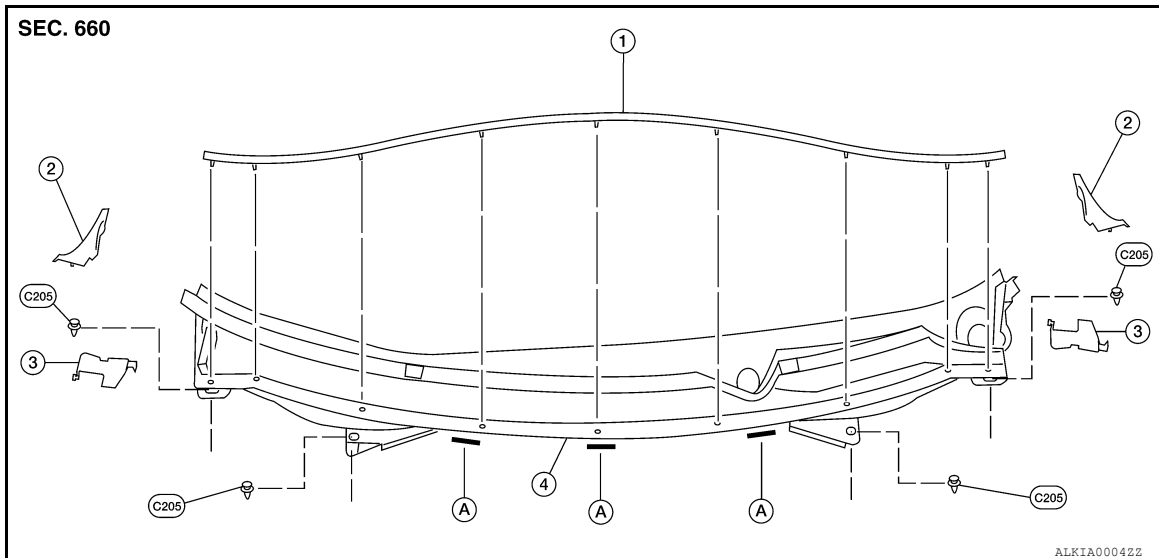
< REMOVAL AND INSTALLATION >

[COUPE]

COWL TOP

Removal and Installation

INFOID:000000006391079



- 1. Cowl top seal
- 2. Cowl top side trim covers
- 3. Cowl top foam blocks
- 4. Cowl top
- A. Clips

REMOVAL

1. Remove the wiper arms (RH/LH). Refer to [WW-84, "FRONT WIPER ARMS : Removal and Installation"](#).
2. Remove the cowl top side trim covers.
3. Remove the cowl top foam blocks.
4. Remove the cowl top seal clips, then remove the cowl top seal.
5. Remove the cowl top clips, disconnect the washer nozzle hoses, then remove the cowl top.
6. Remove the washer nozzles to transfer to the new cowl top, if necessary.

INSTALLATION

Installation is in the reverse order of removal.

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FENDER PROTECTOR

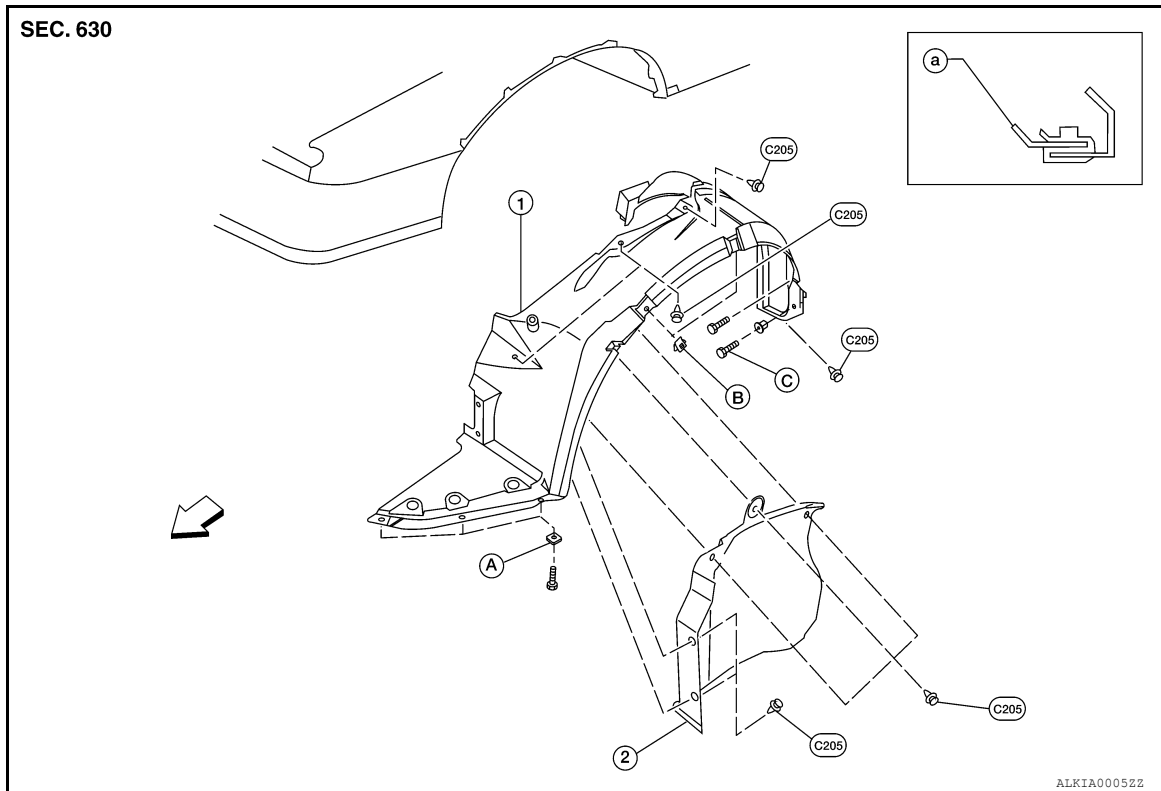
< REMOVAL AND INSTALLATION >

[COUPE]

FENDER PROTECTOR

Removal and Installation

INFOID:000000006391080



- | | | |
|---------------------|--------------------------------|-----------------|
| 1. Fender protector | 2. Fender protector side cover | A. J-clips |
| B. Clips | C. Center mudguard screw | ← Vehicle front |
| a. Sheet metal | | |

REMOVAL

NOTE:

Position the front tires as necessary to access the front fender protector screws.

1. Remove the fender protector side covers (RH/LH).
2. Remove the screw from center mudguard.
3. Remove the fender protector screws and clips.
4. Remove the fender protector.

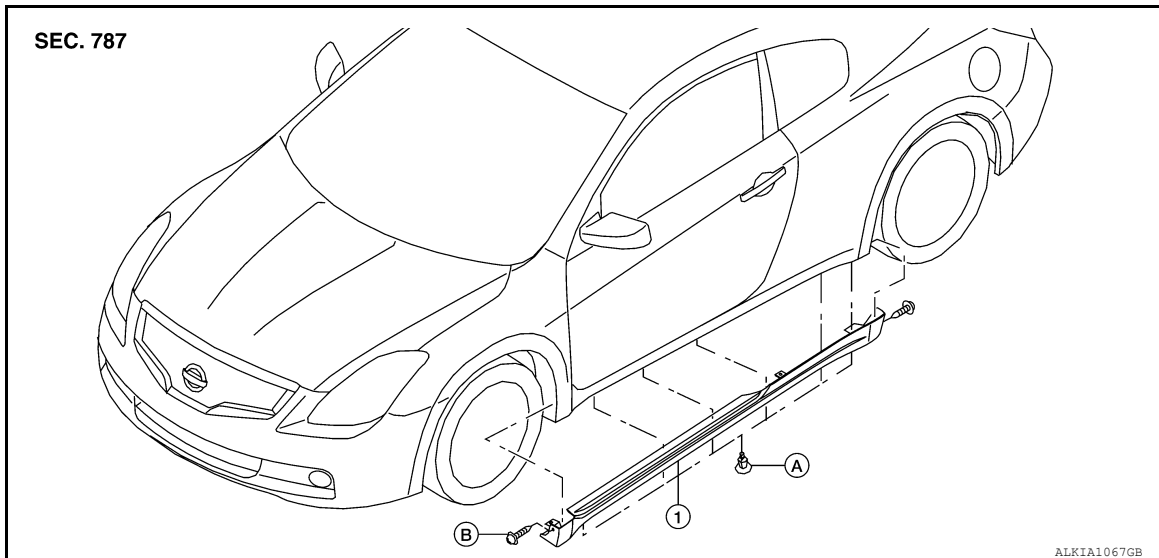
INSTALLATION

Installation is in the reverse order of removal.

MUDGUARD

Removal and Installation

INFOID:00000006391081



1. Center mudguard

A. C205 push pin

B. Splash guard screw

REMOVAL

NOTE:

Position the front tires as necessary to access the mudguard screws.

1. Remove the rear tire. Refer to [WT-65. "Adjustment"](#).
2. Remove the C205 push-pins located on the under body.
3. Remove splash guard screws.
4. Remove the center mudguard screws, then remove the center mudguard.

INSTALLATION

Installation is in the reverse order of removal.

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DOOR OUTSIDE MOLDING

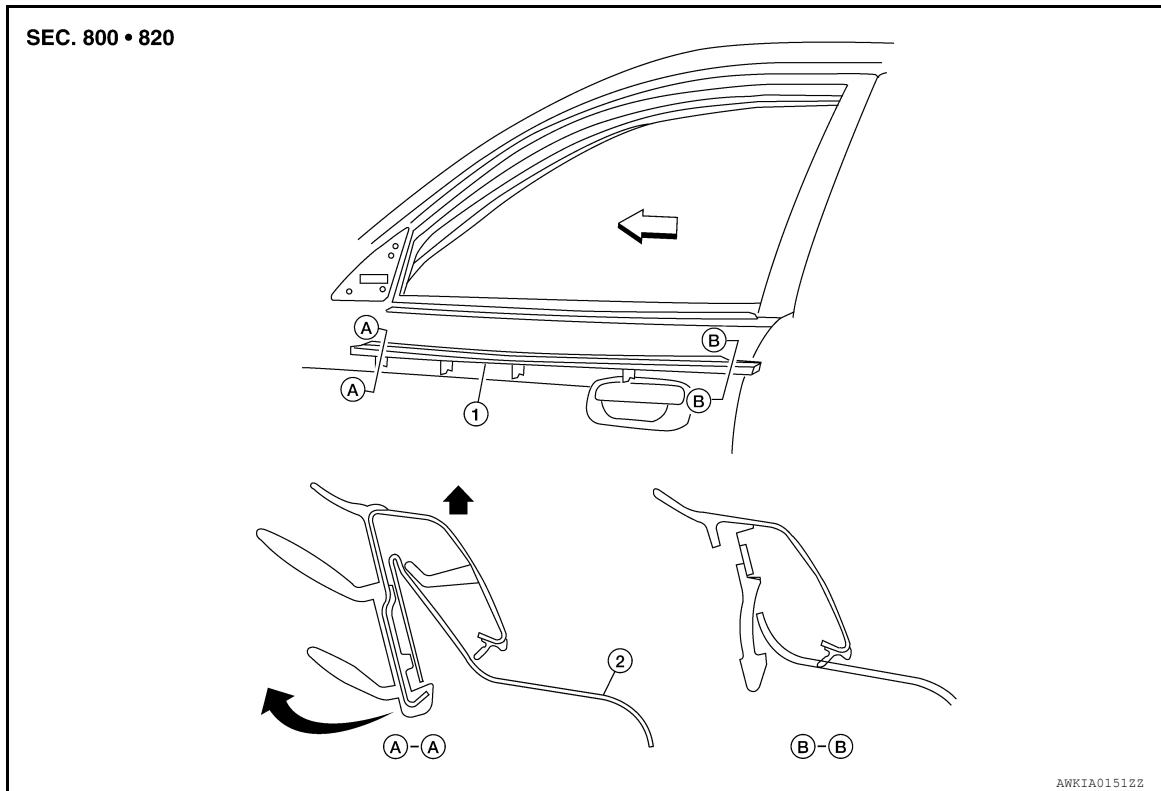
< REMOVAL AND INSTALLATION >

[COUPE]

DOOR OUTSIDE MOLDING

Removal and Installation

INFOID:000000006391082



1. Front door outside molding

2. Front door

← Vehicle front

Door Outside Molding

Removal

1. Remove the door mirror assembly. Refer to [MIR-22. "Removal and Installation"](#).
2. Lift and twist front door outside molding from rear end, disconnect clips from flange and pull the front door outside molding out backward.

Installation

Installation is in the reverse order of removal.

ROOF SIDE MOLDING

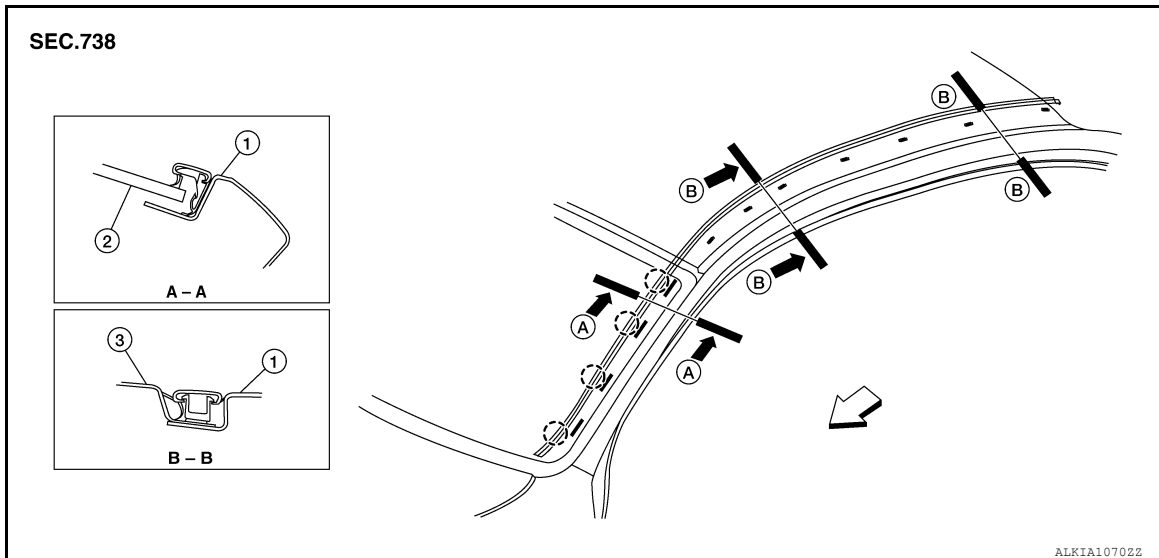
< REMOVAL AND INSTALLATION >

[COUPE]

ROOF SIDE MOLDING

Removal and Installation

INFOID:00000006391083



1. Body side outer panel

2. Windshield

3. Roof

↔ Vehicle front

○ Pawl

REMOVAL

1. Lift and twist the roof side molding up from the rear edge.
2. Disconnect the roof side molding from the pawls, and remove the roof side molding.

INSTALLATION

Installation is in the reverse order of removal.

- Engage the roof molding into the clips starting at the rear.

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LICENSE LAMP FINISHER

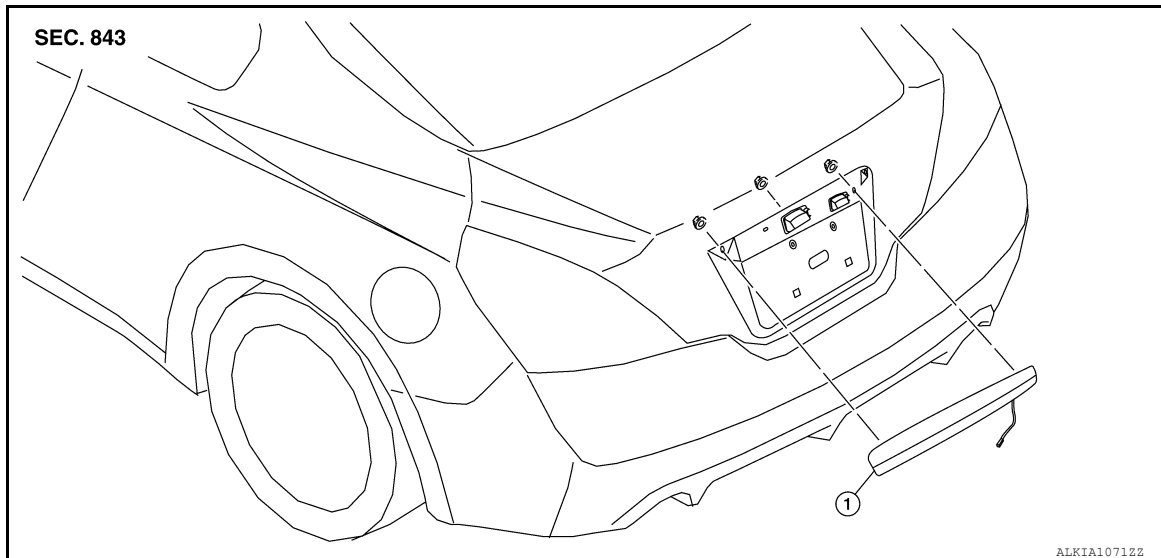
< REMOVAL AND INSTALLATION >

[COUPE]

LICENSE LAMP FINISHER

Removal and Installation

INFOID:000000006391084



1. License lamp finisher

REMOVAL

1. Remove the trunk lid finisher (if equipped). Refer to [INT-54, "Removal and Installation"](#).
2. Remove the license lamp finisher nuts.
3. Remove license lamp finisher by pulling toward the rear, then disconnect the trunk request switch connector.

INSTALLATION

Installation is in the reverse order of removal.

PRECAUTION

PRECAUTIONS

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

INFOID:000000006391085

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.

Precautions Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000006931316

EXT

NOTE:

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

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

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

If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.

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PRECAUTIONS

[SEDAN]

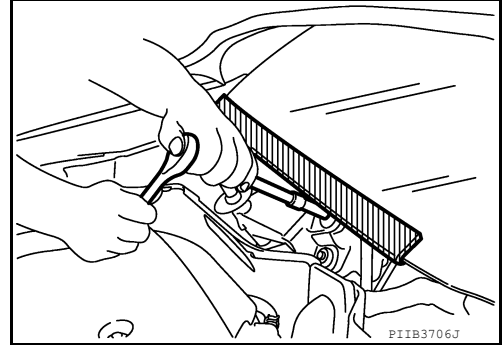
< PRECAUTION >

5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT.

Precaution for Procedure without Cowl Top Cover

INFOID:000000006391087

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



Precaution for Work

INFOID:000000006931317

- 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 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, and wring the water out of the cloth to wipe the dirty area.
Then rub with a soft and 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, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

< PREPARATION >

[SEDAN]

PREPARATION

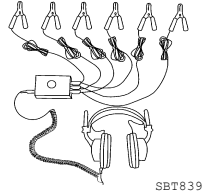
PREPARATION

Special Service Tool

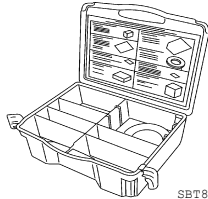
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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

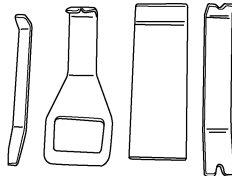
Tool number (Kent-Moore No.) Tool name	Description
— (J-39570) Chassis ear	Locating the noise
— (J-43980) NISSAN Squeak and Rattle kit	Repairing the cause of noise
— (J-46534) Trim Tool Set	Removing trim components



SBT839



SBT840

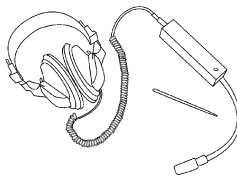


AWJIA0483ZZ

Commercial Service Tool

INFOID:000000006391090

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



SIIA0995E

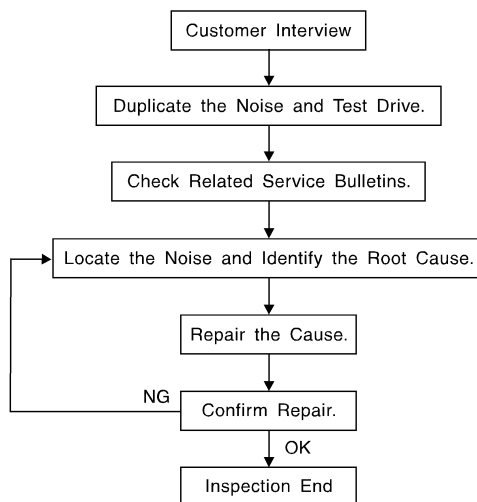
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SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000006931332



SBT842

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-34, "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

[SEDAN]

< 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-32. "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

[SEDAN]

< SYMPTOM DIAGNOSIS >

UHMW (TEFLON) TAPE

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

SILICONE GREASE

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

Note: Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

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

Generic Squeak and Rattle Troubleshooting

INFOID:000000006931333

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel 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

[SEDAN]

< 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.

A

SUNROOF/HEADLINING

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

B

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 headliner and squeaking

C

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.

D

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.

E

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.

F

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.

G

Cause of seat noise include:

H

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

I

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.

J

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.

EXT

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

L

M

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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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Diagnostic Worksheet

INFOID:000000006931334

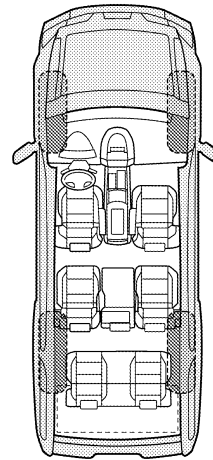
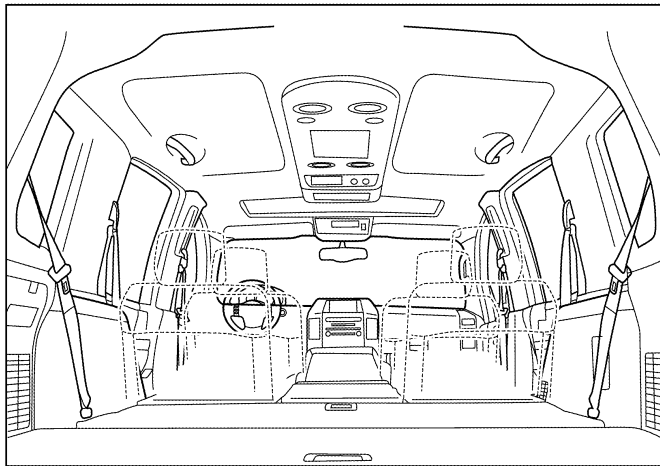
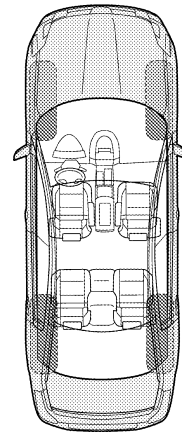
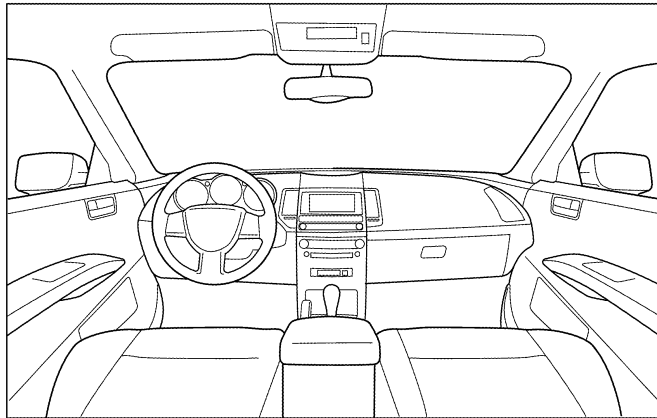
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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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

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EXT

CLIP AND FASTENER

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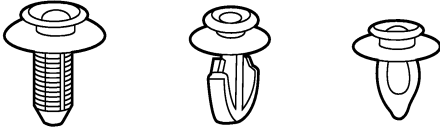


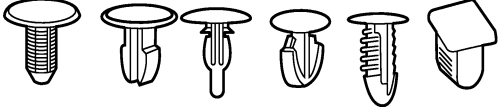
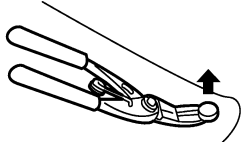

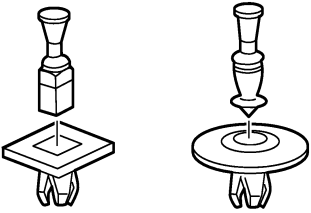
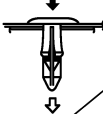
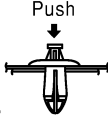

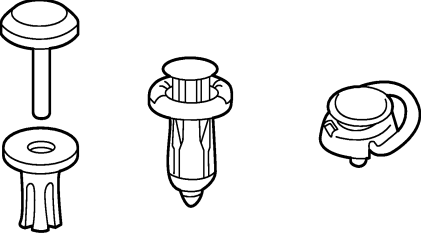
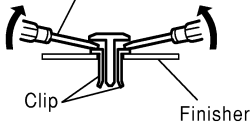

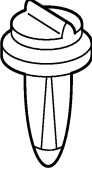
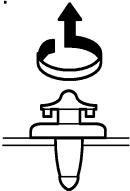
< SYMPTOM DIAGNOSIS >

CLIP AND FASTENER

Descriptions for Clips and Fasteners

INFOID:000000006931335

Replace any clips and fasteners which are damaged during removal or installation.


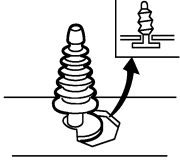
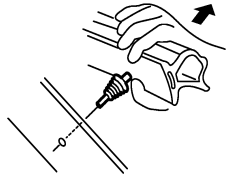

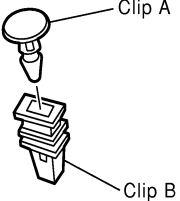
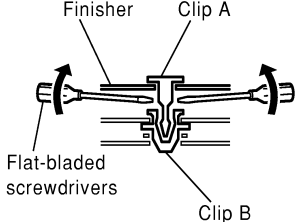

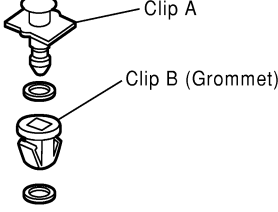
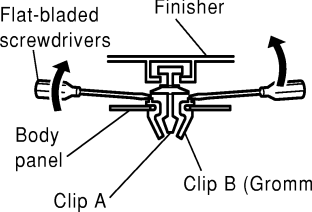


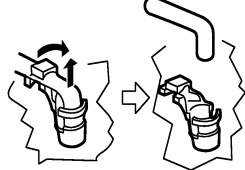

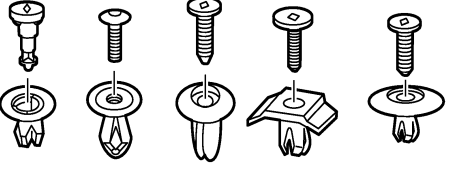

Symbol No.	Shapes	Removal & Installation
C101 		<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p> 
C103 		 <p>Removal: Remove with a clip remover.</p>
C203 		<p>Removal: Push center pin to catching position. (Do not remove center pin by hitting it.)</p> <p>Push</p> 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

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CLIP AND FASTENER

< SYMPTOM DIAGNOSIS >

[SEDAN]

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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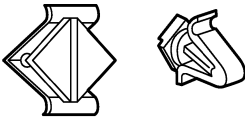

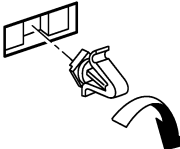

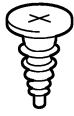



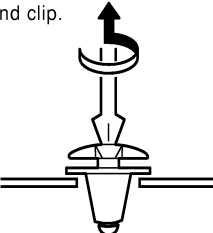


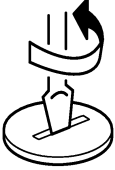
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CLIP AND FASTENER

< SYMPTOM DIAGNOSIS >

[SEDAN]


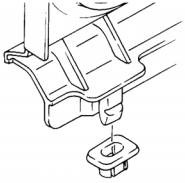
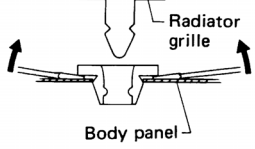
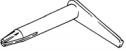
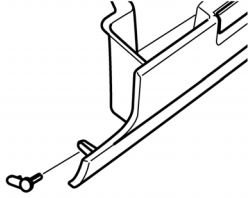
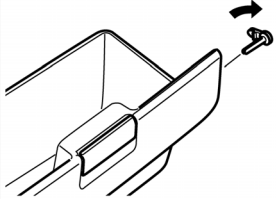

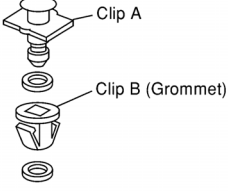
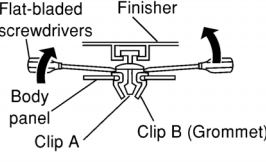
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<p>CG101</p> 		<p>Removal:</p>  <p>Rotate 45° to remove</p>	<p>Installation:</p> 
<p>CS102</p> 			
<p>CS113</p> 		<p>Removal: Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip.</p> 	
<p>C111</p> 			

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CLIP AND FASTENER

< SYMPTOM DIAGNOSIS >

[SEDAN]

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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EXT

FRONT BUMPER

< REMOVAL AND INSTALLATION >

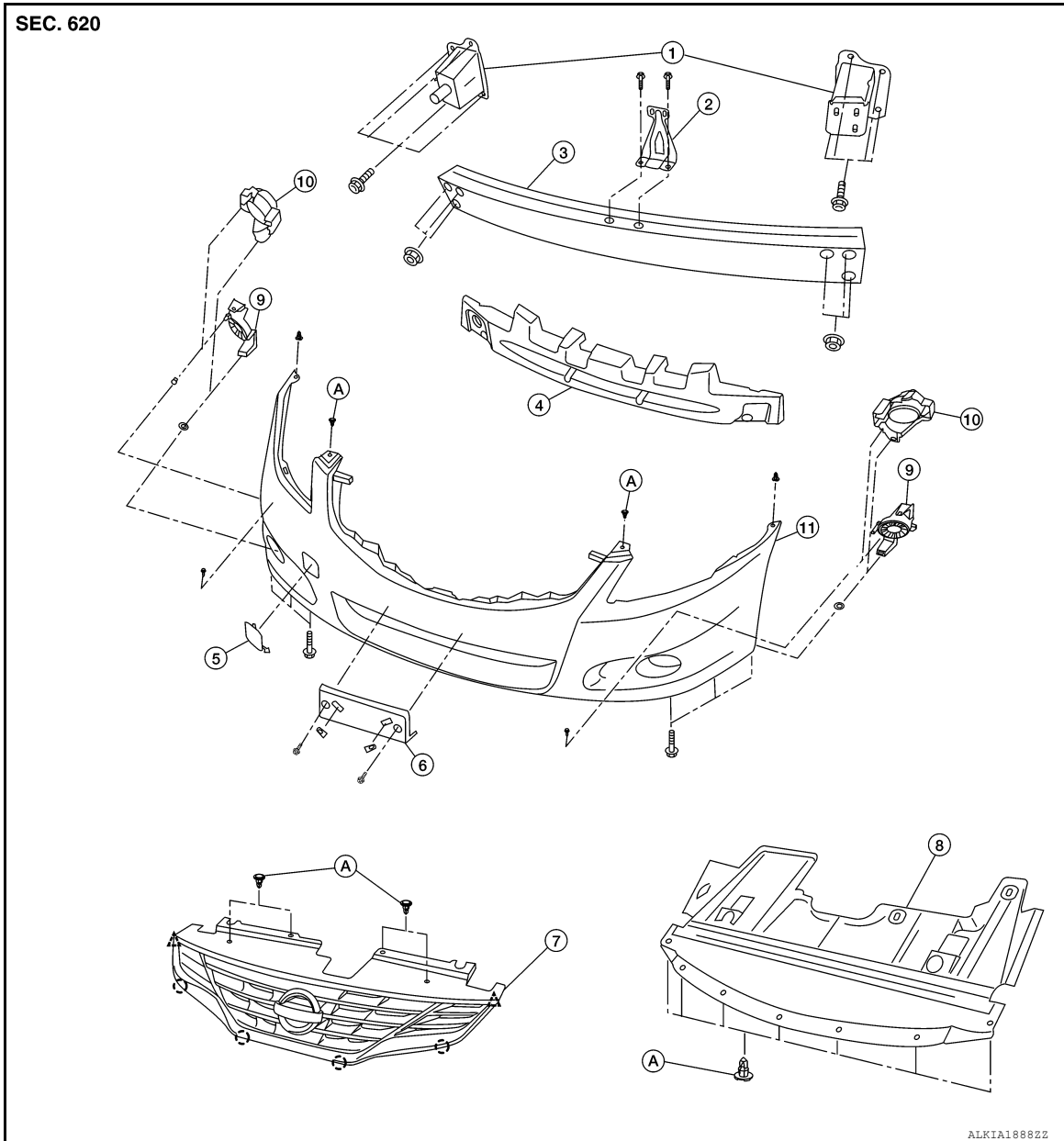
[SEDAN]

REMOVAL AND INSTALLATION

FRONT BUMPER

Removal and Installation

INFOID:000000006391095



- | | | |
|----------------------------|---------------------------------------|------------------------------------|
| 1. Front bumper supports | 2. Front bumper reinforcement bracket | 3. Front bumper reinforcement |
| 4. Energy absorbing foam | 5. Tow cover | 6. License plate bracket |
| 7. Front grille | 8. Engine under cover | 9. Fog lamp finisher (if equipped) |
| 10. Fog lamp (if equipped) | 11. Front bumper fascia | Clips C101 |

○ Pawls

REMOVAL

1. Partially remove the front fender protectors (RH/LH). Refer to [EXT-46, "Removal and Installation"](#).
2. Remove the clips, then the engine under cover.
3. Remove the front grille. Refer to [EXT-44, "Removal and Installation"](#).

FRONT BUMPER

[SEDAN]

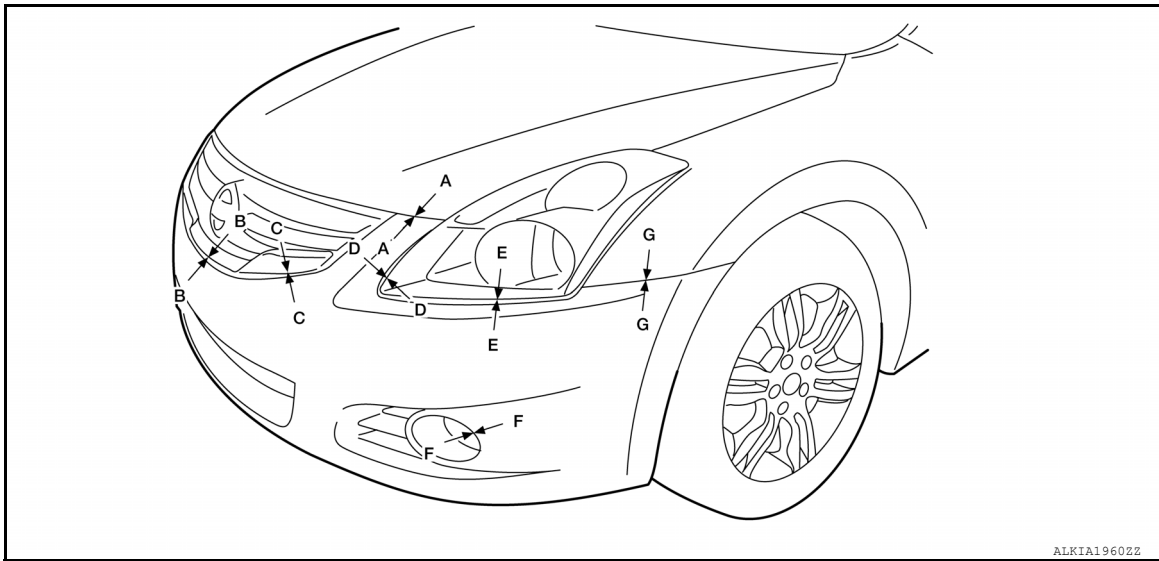
< REMOVAL AND INSTALLATION >

4. Disconnect the harness connectors from the fog lamps (if equipped).
5. Remove the fog lamp (if equipped). Refer to [EXL-210, "Removal and Installation"](#).
6. Remove the front bumper fascia clips and screws, then remove the front bumper fascia.
7. Remove the front energy absorbing foam.
8. Remove the retainers, then the front bumper upper reinforcement and front bumper reinforcement bracket.
9. Remove the nuts, then the front bumper reinforcement.
10. Remove the retainers, then the front bumper supports (RH/LH).

INSTALLATION

Installation is in the reverse order of removal.

- Adjust fog lamp aiming, if equipped. Refer to [EXL-206, "Aiming Adjustment"](#).



ALKIA19602Z

mm (in)

Section	Measurement	Minimum	Target Value	Maximum
A-A	Surface height	1.0 (0.039)	3.1 (0.122)	5.2 (0.205)
	Clearance	3.1 (0.122)	5.1 (0.201)	7.1 (0.280)
B-B	Surface height	-1.5 (-0.059)	0.0 (0.000)	1.5 (0.059)
	Clearance	0.5 (0.020)	1.5 (0.059)	2.5 (0.098)
C-C	Surface height	-1.5 (-0.059)	0.0 (0.000)	1.5 (0.059)
	Clearance	0.2 (0.008)	1.5 (0.059)	2.8 (0.110)
D-D	Clearance	1.5 (0.059)	3.5 (0.138)	5.5 (0.217)
E-E	Clearance	0.3 (0.012)	1.5 (0.059)	2.7 (0.106)
F-F	Clearance	2.0 (0.079)	3.0 (0.118)	4.0 (0.157)
G-G	Surface height	-0.3 (-0.012)	0.7 (0.028)	1.7 (0.067)
	Clearance	0.0 (0.000)	0.0 (0.000)	0.8 (0.031)

REAR BUMPER

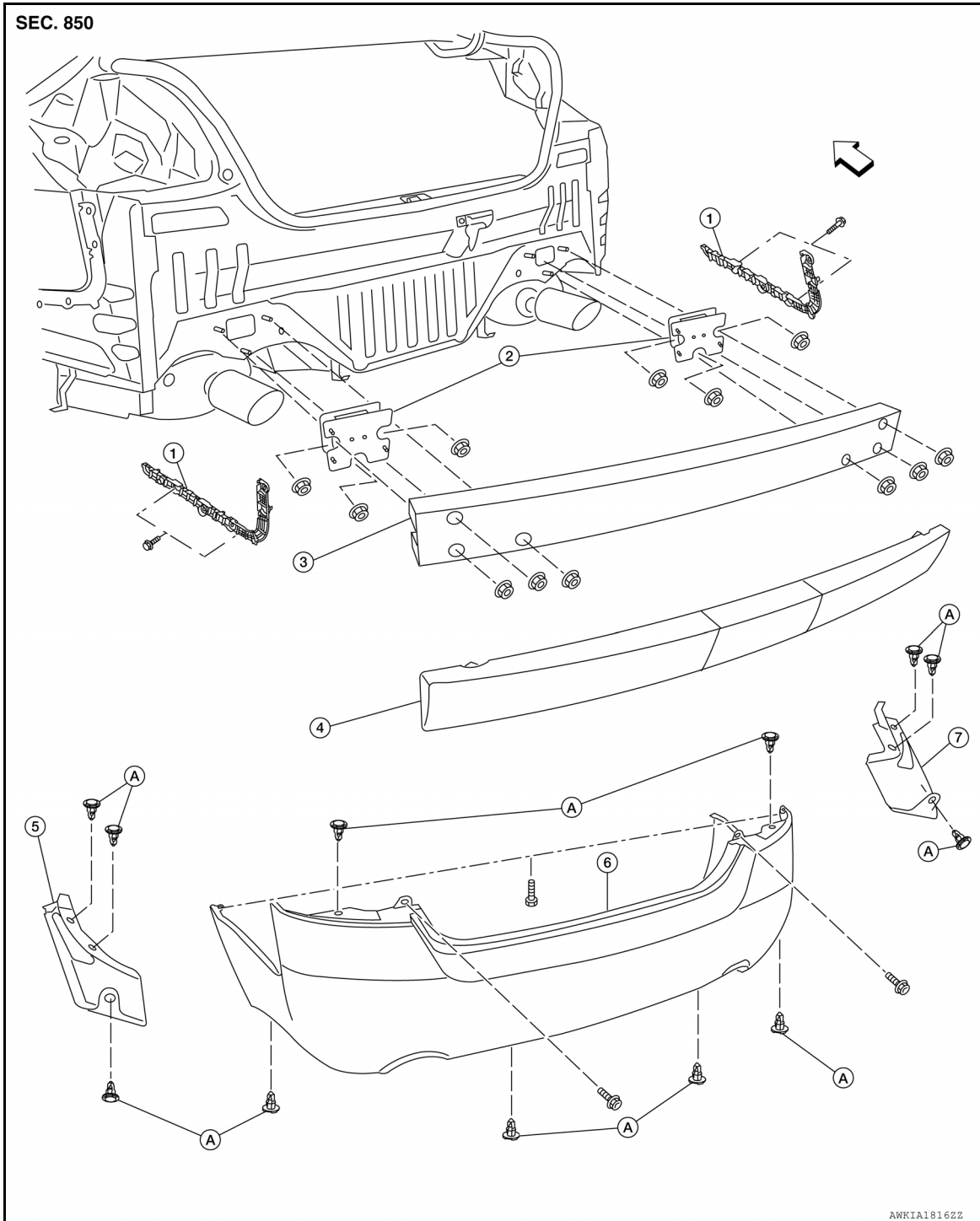
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[SEDAN]

REAR BUMPER

Removal and Installation

INFOID:00000006391096



- | | | |
|------------------------------------|-------------------------|------------------------------|
| 1. Rear bumper side brackets RH/LH | 2. Rear bumper supports | 3. Rear bumper reinforcement |
| 4. Energy absorbing foam | 5. Splash shield LH | 6. Rear bumper fascia |
| 7. Splash shield RH | A. Clips | ⇐ Vehicle front |

REMOVAL

1. Remove the rear combination lamps (RH/LH). Refer to [EXL-214, "Removal and Installation"](#).
2. Remove both the rear wheels and tires (RH/LH). Refer to [WT-65, "Adjustment"](#).

REAR BUMPER

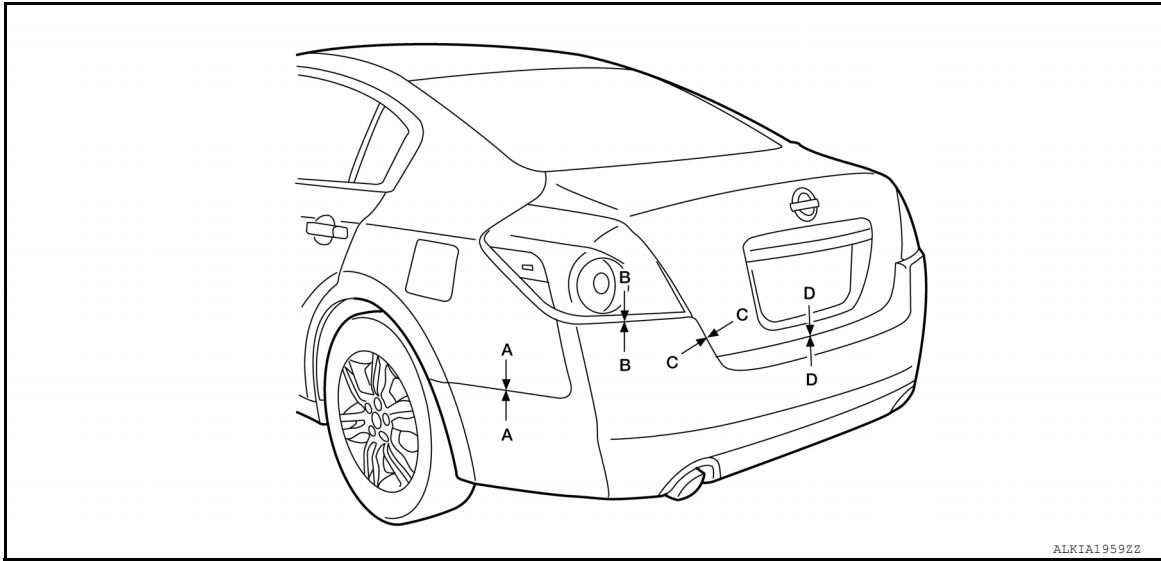
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< REMOVAL AND INSTALLATION >

3. Remove the splash shields (RH/LH).
4. Disconnect the sonar sensors from the sonar sensor retainers (if equipped).
5. Remove the rear bumper fascia clips and screws, then remove the rear bumper fascia.
6. Remove the rear energy absorbing foam.
7. Remove the nuts, then the rear bumper reinforcement.
8. Remove the nuts, then the rear bumper supports (RH/LH).
9. Remove the sonar sensors and harness, if necessary from the rear bumper fascia (if equipped).
 - Disconnect the sonar sensors from the harness.
 - Remove the sonar sensor retainers from the rear bumper fascia.

INSTALLATION

Installation is in the reverse order of removal.



mm (in)

Section	Measurement	Minimum	Target Value	Maximum
A-A	Clearance	0.0 (0.000)	0.0 (0.000)	0.8 (0.031)
	Surface height	-0.25 (-0.010)	0.75 (0.028)	1.75 (0.069)
B-B	Clearance	0.5 (0.020)	2.0 (0.079)	3.5 (0.138)
	Surface height	-1.5 (-0.059)	0.0 (0.000)	1.5 (0.059)
C-C	Clearance	2.0 (0.079)	4.0 (0.157)	6.0 (0.236)
D-D	Clearance	3.9 (0.154)	5.9 (0.232)	7.9 (0.311)

FRONT GRILLE

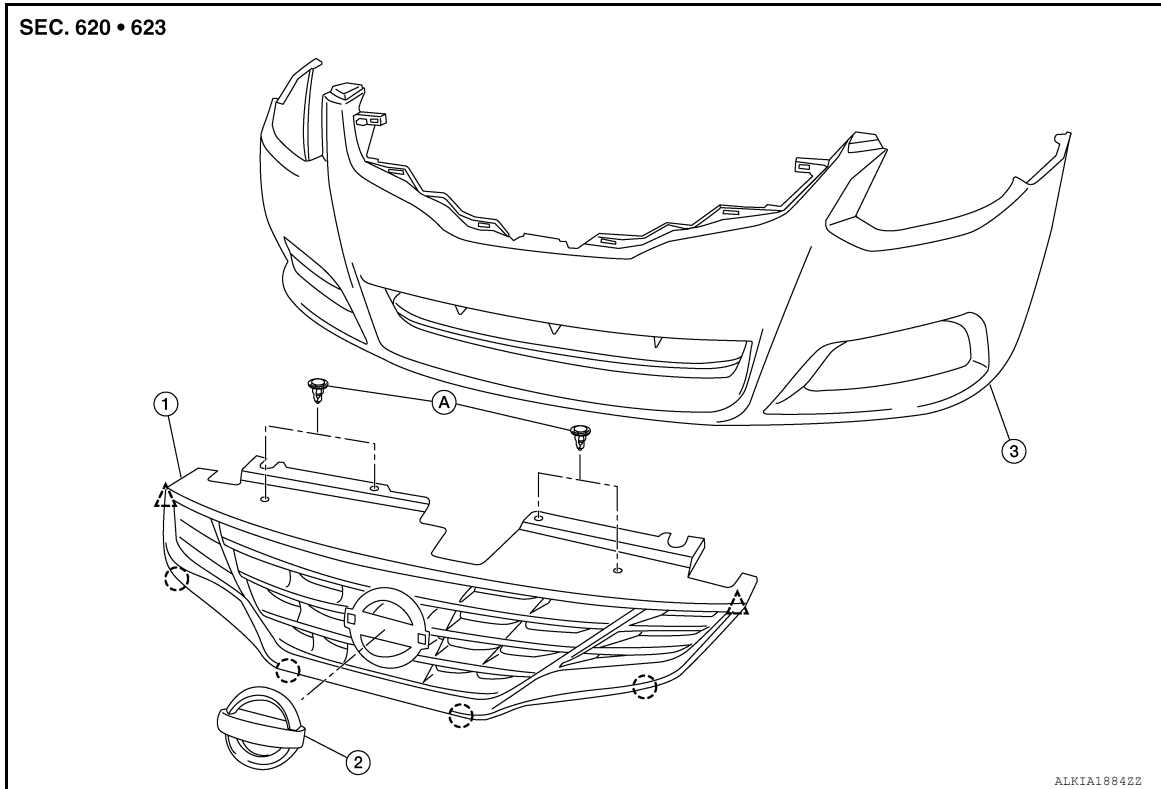
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FRONT GRILLE

Removal and Installation

INFOID:000000006391097



1. Front grille

2. Emblem

3. Bumper fascia

A. Clip C205

△ Clips

○ Pawls

FRONT GRILLE

Removal

1. Remove the front grille clips.
2. Release the grille pawls and clips from the front bumper fascia, then remove the front grille.
3. Remove the emblem to transfer to the new grille, if necessary.

Installation

Installation is in the reverse order of removal.

COWL TOP

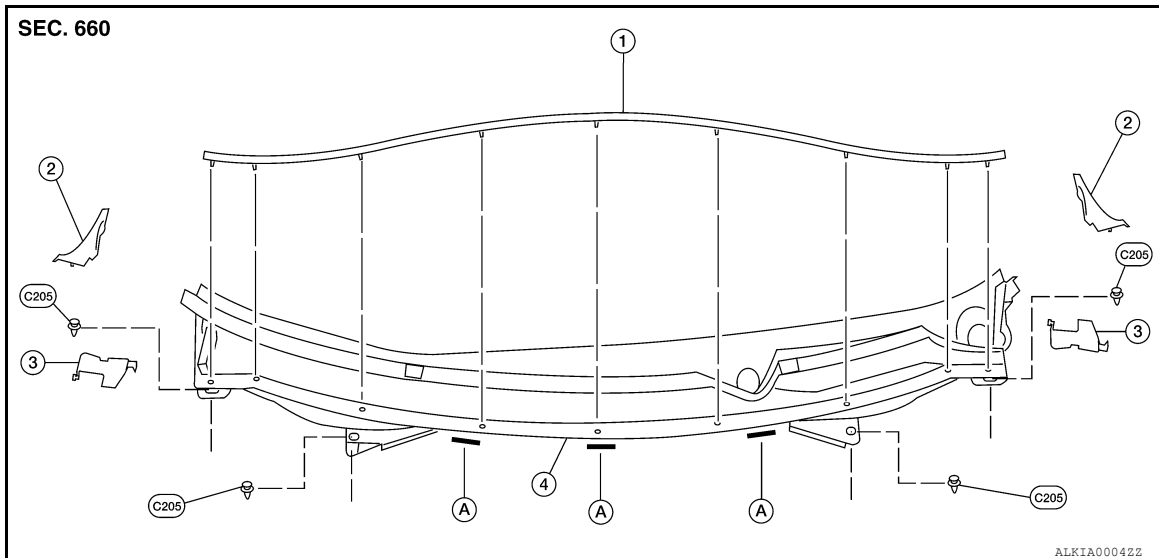
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COWL TOP

Removal and Installation

INFOID:000000006391098



- | | | |
|------------------|------------------------------|-------------------------|
| 1. Cowl top seal | 2. Cowl top side trim covers | 3. Cowl top foam blocks |
| 4. Cowl top | A Clips | |

REMOVAL

1. Remove the wiper arms (RH/LH). Refer to [WW-84, "FRONT WIPER ARMS : Removal and Installation"](#).
2. Remove the cowl top side trim covers.
3. Remove the cowl top foam blocks.
4. Remove the cowl top seal clips, then remove the cowl top seal.
5. Remove the cowl top clips, disconnect the washer nozzle hoses, then remove the cowl top.
6. Remove the washer nozzles to transfer to the new cowl top, if necessary.

INSTALLATION

Installation is in the reverse order of removal.

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FENDER PROTECTOR

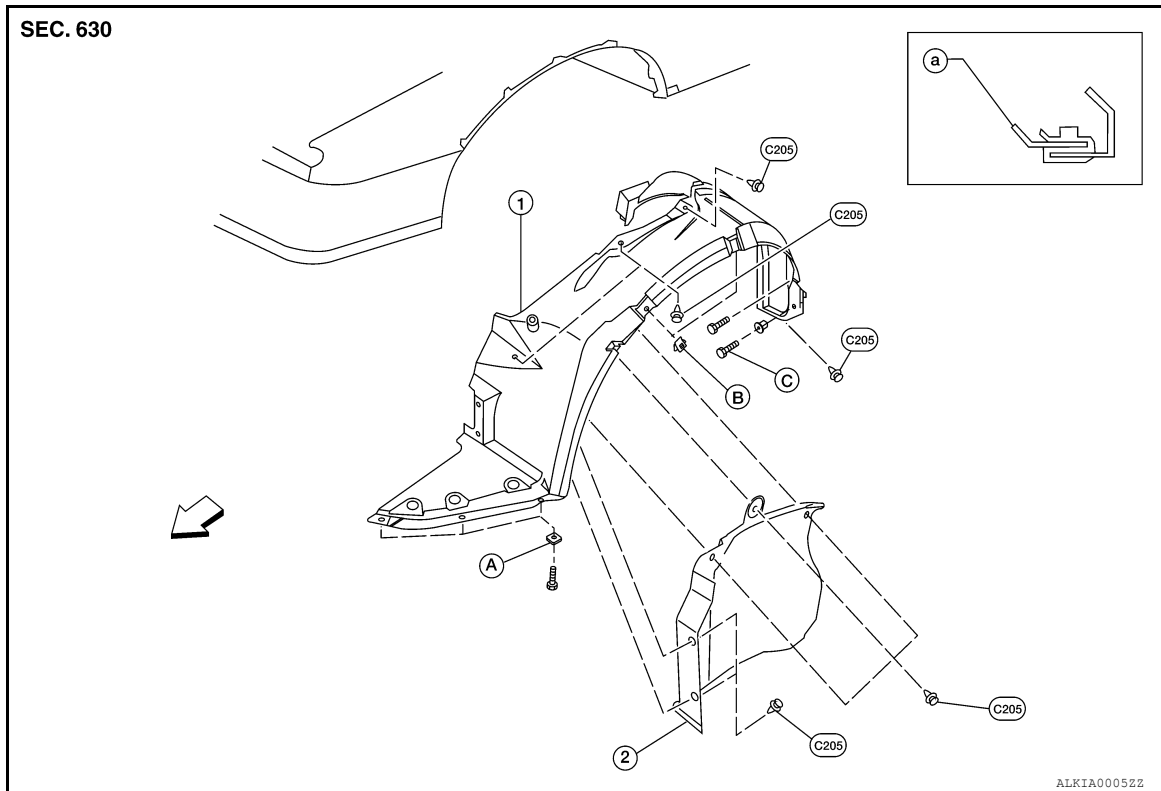
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FENDER PROTECTOR

Removal and Installation

INFOID:000000006391099



1. Fender protector

2. Fender protector side cover

A. J-clips

B. Clips

C. Center mudguard screw

a. Sheet metal

← Vehicle front

REMOVAL

NOTE:

Position the front tires as necessary to access the front fender protector screws.

1. Remove the fender protector side covers (RH/LH).
2. Remove the screw from center mudguard.
3. Remove the fender protector screws and clips.
4. Remove the fender protector.

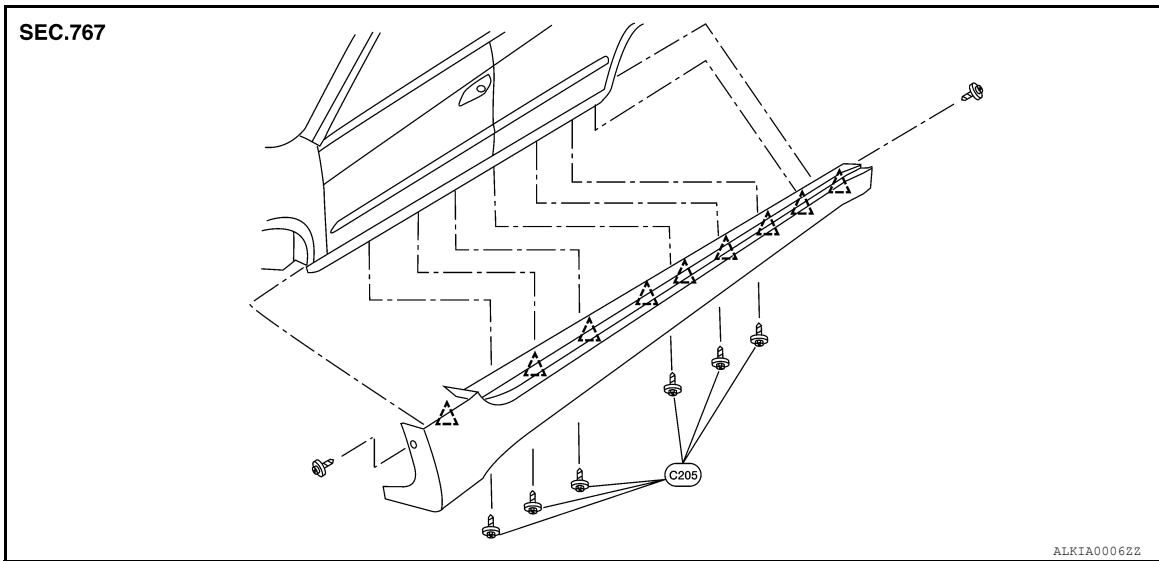
INSTALLATION

Installation is in the reverse order of removal.

MUDGUARD

Removal and Installation

INFOID:000000006391100



 Clips

REMOVAL

1. Remove the C205 push-pins located on the under body.
2. Remove the center mudguard screws, then remove the center mudguard.

INSTALLATION

Installation is in the reverse order of removal.

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EXT

SIDE GUARD MOLDING

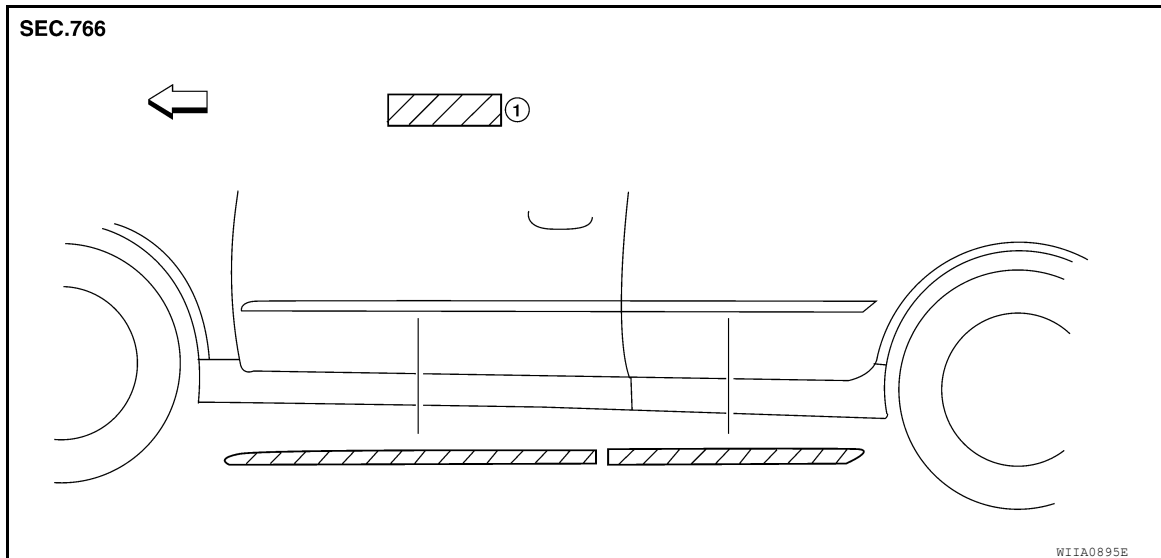
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SIDE GUARD MOLDING

Removal and Installation

INFOID:000000006391101



1. Double-faced adhesive tape ↶ Vehicle front

Removal

CAUTION:

Never apply tack-paper adhesive remover to body panel surface finished with lacquer-based paints.

- Original side guard molding is affixed to body panel with double-faced adhesive tape.
1. Heat molding to between 30° and 40°C (86° to 104°F) with a heat gun.
 2. Using a suitable tool, gently lift an end of the molding and cut away tape to remove molding.
 3. Remove all remaining traces of tape and adhesive.

Installation

- On vehicles coated with Hard Clear Coat, use double-faced 3M® adhesive tape Product No. 4210 or equivalent, after priming with 3M primer Product No. N200 or C-100 or equivalent.
 - The repair parts are also attached with double-faced adhesive tape.
 - To re-use existing molding, clean all traces of double sided tape from the molding and apply new double-faced tape to the molding.
1. Clean the panel surface with isopropyl alcohol or equivalent to degrease the surface.
 2. Using a heat gun, heat the panel and molding tape surface to 30° to 40°C (86° to 104°F).
 3. Remove the backing sheet from the tape surface.
 4. Press ends by hand and use a roller to apply 49N (5 kg-f 11 lb-f) to press molding to door surface.

CAUTION:

For maximum adhesion, allow vehicle to set without washing for 24 hours after installation.

DOOR OUTSIDE MOLDING

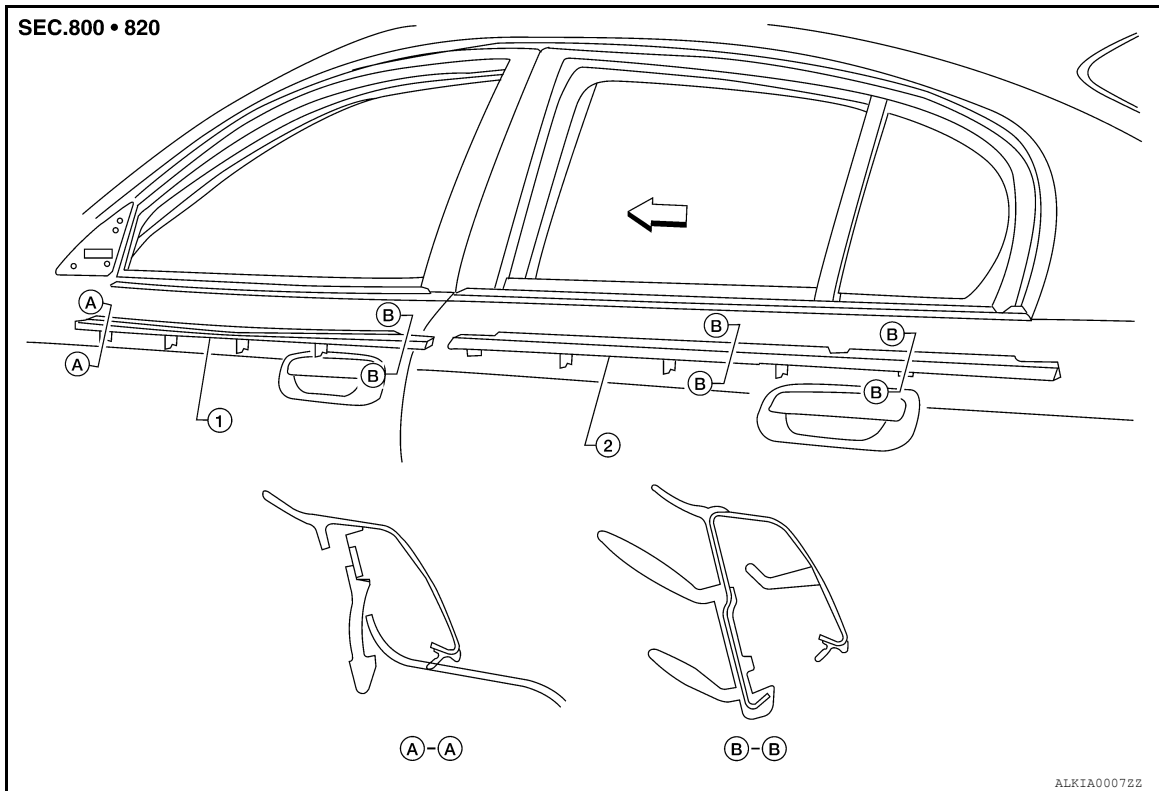
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< REMOVAL AND INSTALLATION >

DOOR OUTSIDE MOLDING

Removal and Installation

INFOID:000000006391102



1. Front door outside molding 2. Rear door outside molding ← Vehicle front

FRONT DOOR OUTSIDE MOLDING

Removal

1. Remove the door mirror assembly. Refer to [MIR-22. "Removal and Installation"](#).
2. Lift and twist from rear side, disconnect clips from flange and pull the front door outside molding out toward rear of the vehicle.

Installation

Installation is in the reverse order of removal.

REAR DOOR OUTSIDE MOLDING

Removal

- Lift and twist from rear side, then disconnect clips from flange and pull the rear door molding out.

Installation

Installation is in the reverse order of removal.

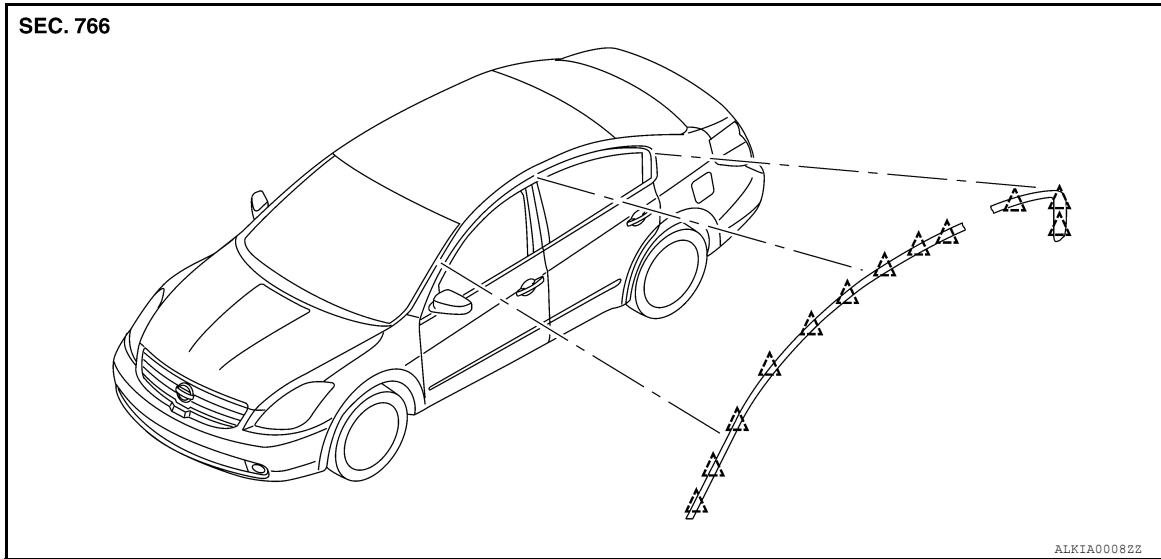
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
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DRIP MOLDING

Removal and Installation

INFOID:000000006391103



 Clips

REMOVAL

1. Using a suitable tool, release the drip molding clips starting at the front, working rearward.
2. Remove the drip moldings.

INSTALLATION

Installation is in the reverse order of removal.

- Insert drip moldings onto vehicle starting at the rear, working forward.

ROOF SIDE MOLDING

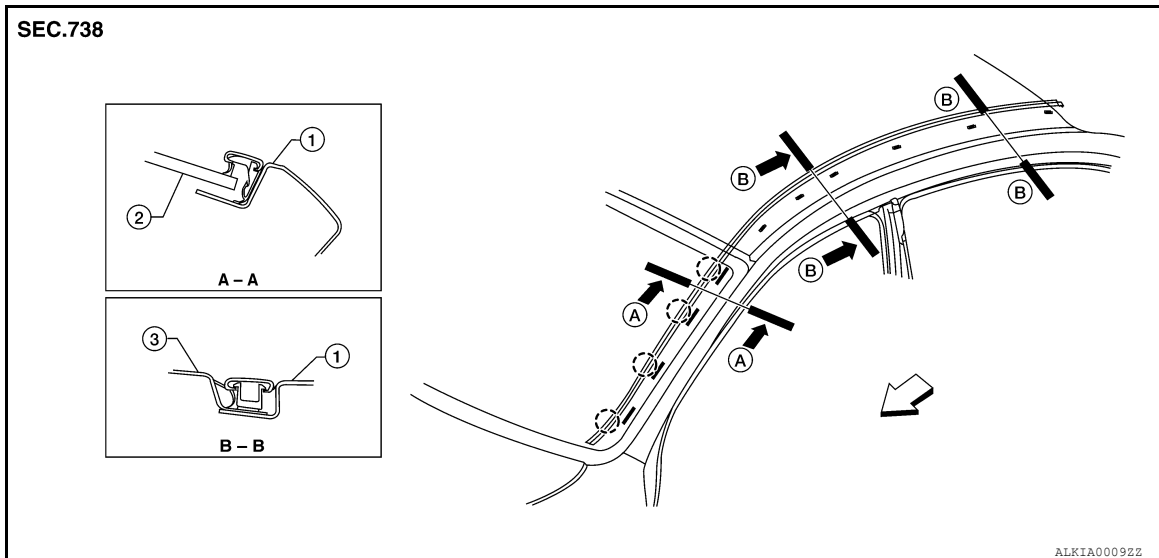
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ROOF SIDE MOLDING

Removal and Installation

INFOID:000000006391104



1. Body side outer panel

2. Windshield

3. Roof

← Vehicle front

○ Pawls

REMOVAL

1. Lift and twist the roof side molding up from the rear edge.
2. Disconnect the roof side molding from the pawls, and remove the roof side molding.

INSTALLATION

Installation is in the reverse order of removal.

- Engage the roof molding into the pawls starting at the rear.

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LICENSE LAMP FINISHER

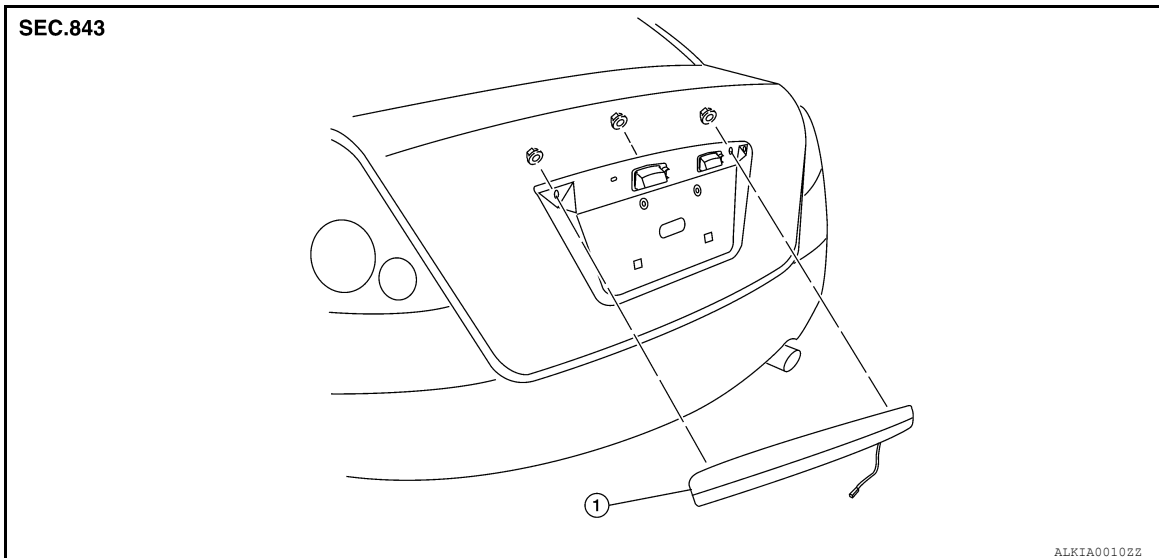
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[SEDAN]

LICENSE LAMP FINISHER

Removal and Installation

INFOID:000000006391105



1. License lamp finisher

REMOVAL

1. Remove the trunk lid finisher (if equipped). Refer to [INT-31, "Removal and Installation"](#).
2. Remove the license lamp finisher nuts.
3. Remove license lamp finisher by pulling toward the rear, then disconnect the trunk request switch connector.

INSTALLATION

Installation is in the reverse order of removal.

REAR SPOILER

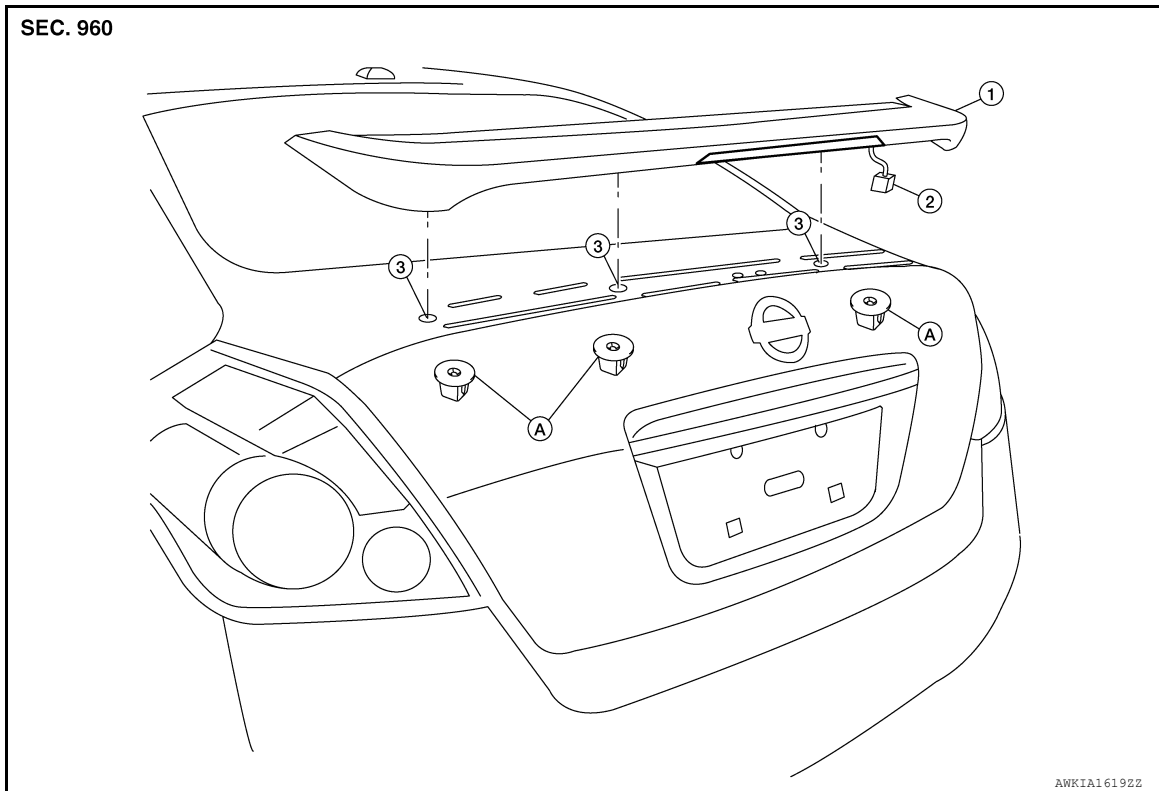
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[SEDAN]

REAR SPOILER

Removal and Installation

INFOID:000000006391106



1. Rear spoiler assembly
2. High mounted stop lamp harness
3. Gasket
- A. Nuts

Removal

1. Remove trunk lid finisher (if equipped). Refer to [INT-31. "Removal and Installation"](#).
2. Disconnect high mounted stop lamp connector.
3. Using suitable tool, carefully release the clips and pry foam tape free from trunk lid surface.
CAUTION:
Use care not to damage painted surfaces during removal of, or releasing adhesive backed foam tapes.
4. Release the high mounted stop lamp harness grommet from trunk lid, then remove rear spoiler.

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

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