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PRECAUTIONS

SERVICE INFORMATION

PRECAUTIONS

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

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.

Service Notice

- When removing or installing various parts, place a cloth or padding on the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to soil or damage them.
- 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.

PREPARATION

< SERVICE INFORMATION >

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	
	Repairing the cause of noise	
(J-43980) NISSAN Squeak and Rattle kit		
	SBT840	

Commercial Service Tool

INFOID:0000000003788375

(Kent-Moore No.) Tool name		Description
(J-39565) Engine ear	SIIA0995E	Locating the noise

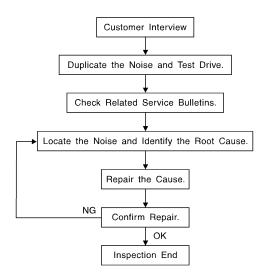
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ON-VEHICLE MAINTENANCE

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow (INFOID:000000003788376



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-8. "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

< ON-VEHICLE MAINTENANCE >

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.
- 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 A/T model).
- 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 tem-
- · feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks.

Refer to EXT-6, "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.

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< ON-VEHICLE MAINTENANCE >

68370-4B000: 15×25 mm (0.59×0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll. The following materials not found in the kit can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

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

SILICONE GREASE

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

Note: Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

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

Generic Squeak and Rattle Troubleshooting

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- 5. Instrument panel mounting pins
- 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. Shifter assembly cover to finisher
- 2. A/C control unit and cluster lid C
- 3. Wiring harnesses behind audio and A/C control unit

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

DOORS

Pay attention to the:

- 1. Finisher and inner panel making a slapping noise
- 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

< ON-VEHICLE MAINTENANCE >

- 2. Trunk lid striker out of adjustment
- 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
- Front or rear windshield touching headliner 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:

- 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:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

- 1. Any component mounted to the engine wall
- Components that pass through the engine wall
- Engine wall mounts and connectors
- Loose radiator mounting pins
- 5. Hood bumpers out of adjustment
- 6. Hood striker out of adjustment

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

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Diagnostic Worksheet

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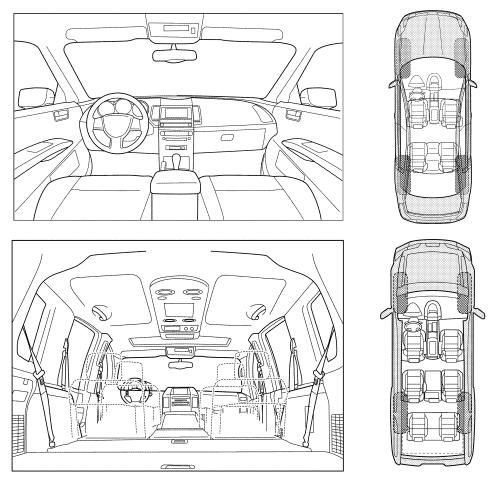
Dear Customer:

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.

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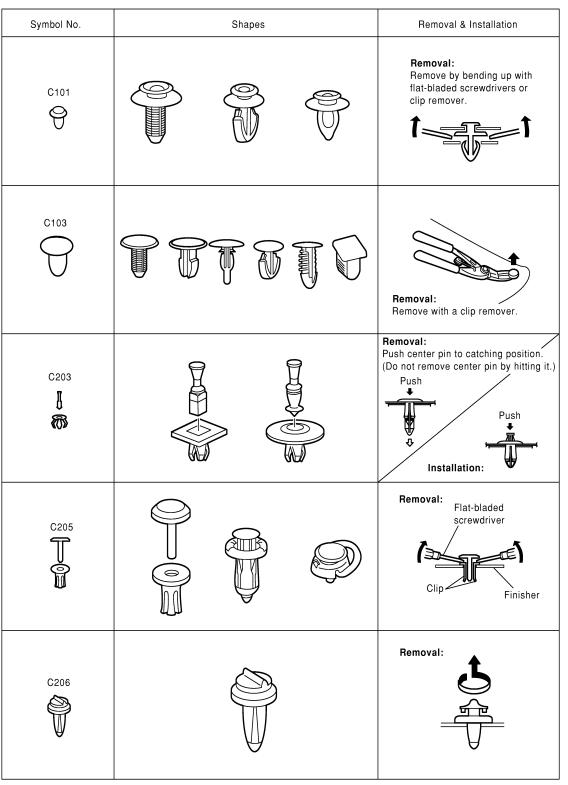
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	oise occurs:	
II. WHEN DOES IT OCCUR? (please ch	neck the boxes that apply)	
☐ Anytime	☐ After sitting out in the rain	
☐ 1st time in the morning	☐ When it is raining or wet	
Only when it is cold outside	☐ Dry or dusty conditions	
Only when it is hot outside	☐ Other:	
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
☐ Through driveways	☐ Squeak (like tennis shoes on a clean floor)	
Over rough roads	☐ Creak (like walking on an old wooden floor)	
Over speed bumps	Rattle (like shaking a baby rattle)	
Only about mph	☐ Knock (like a knock at the door)	
On acceleration	☐ Tick (like a clock second hand)	
Coming to a stop	☐ Thump (heavy muffled knock noise)	
☐ On turns: left, right or either (circle)☐ With passengers or cargo	☐ Buzz (like a bumble bee)	
Willi passengers of cargo		
Other:	nutes	
Other:	nutes	_
Other: miles or mir		_
Other: miles or mir After driving miles or mir TO BE COMPLETED BY DEALERSHIP		_
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Other: miles or mir After driving miles or mir TO BE COMPLETED BY DEALERSHIP		-
Other:	PERSONNEL YES NO Initials of person	-
Other: miles or mir After driving miles or mir TO BE COMPLETED BY DEALERSHIP Test Drive Notes:	PERSONNEL	-
Other: miles or mir After driving miles or mir TO BE COMPLETED BY DEALERSHIP Test Drive Notes: Vehicle test driven with customer	PERSONNEL YES NO Initials of person	-
Other: miles or mir After driving miles or mir TO BE COMPLETED BY DEALERSHIP Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive	PERSONNEL YES NO Initials of person performing	
Other: miles or mir After driving miles or mir TO BE COMPLETED BY DEALERSHIP Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired	PERSONNEL YES NO Initials of person performing \[\begin{array}{c ccccccccccccccccccccccccccccccccccc	
Other: miles or mir After driving miles or mir TO BE COMPLETED BY DEALERSHIP Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive	PERSONNEL YES NO Initials of person performing \[\begin{array}{c ccccccccccccccccccccccccccccccccccc	
Other: miles or mir After driving miles or mir TO BE COMPLETED BY DEALERSHIP Test Drive Notes: Vehicle test drive notes drive - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confine	YES NO Initials of person performing	

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Clip and Fastener

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Symbol No.	Shapes	Removal & Installation
CE103		Removal:
CF110	Clip A	Removal: Finisher Clip A Flat-bladed screwdrivers Clip B
CF118	Clip A Clip B (Grommet)	Removal: Flat-bladed Finisher screwdrivers Body panel Clip B (Grommet)
CR103		Removal: Holder portion of clip must be spread out to remove rod.
CS101		Removal: 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver.

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Symbol No.	Shapes	Remova	al & Installation
CG101		Removal: Rotate 45° to remove Removal:	Installation:
CS102	(X)		
CS113		with a flat-blade	while inserting a wdriver between
C1111			

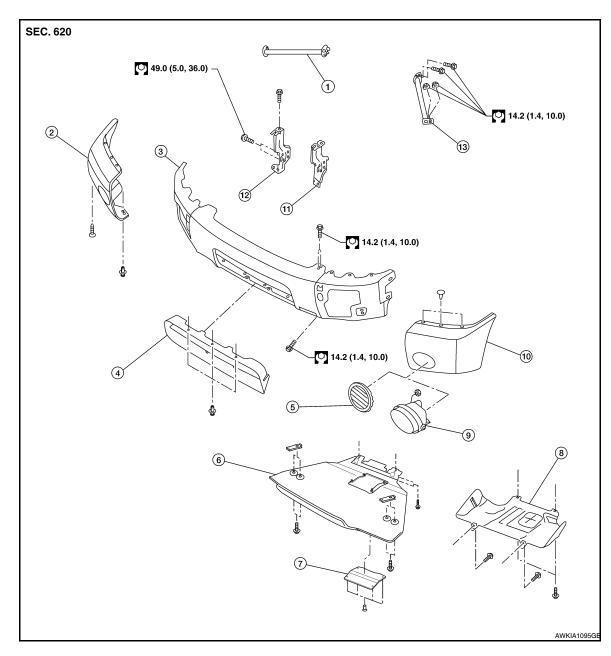
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ON-VEHICLE REPAIR

FRONT BUMPER

Removal and Installation

STEEL BUMPER



- 1. Front bumper bracket RH
- 4. Front bumper opening finisher
- 7. Access cover
- 10. Front fascia finisher LH
- 13. Front bumper bracket LH
- 2. Front fascia finisher RH
- 5. Fog lamp opening finisher (if equipped)
- 8. Engine under cover (without off-road package) 9.
- 11. Front bumper bracket stay LH
- 3. Front bumper assembly
- 6. Skid plate (with off-road package)

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- 9. Fog lamp assembly (if equipped)
- 12. Front bumper bracket stay RH

Removal

- Remove the front grille. Refer to <u>EXT-18</u>.
- 2. Remove the engine under cover or skid plate.

FRONT BUMPER

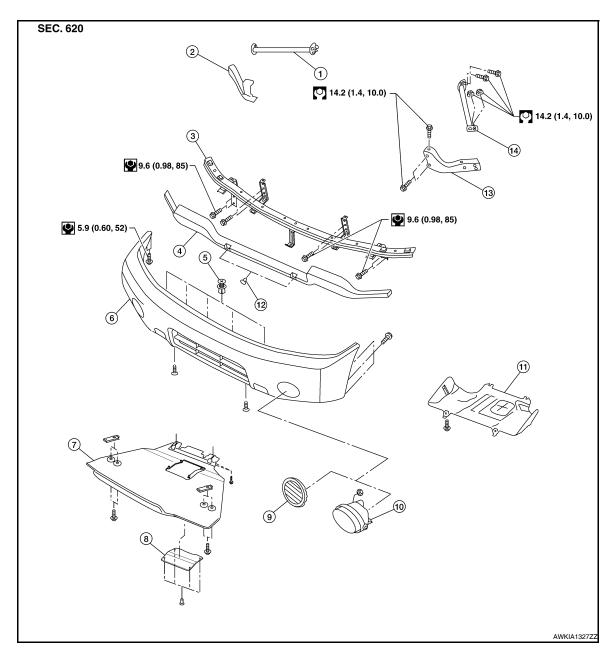
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- 3. Remove the fog lamp (if equipped). Refer to EXL-141, "Removal and Installation".
- 4. Remove the front bumper side bracket nuts.
- 5. Remove the front bumper assembly.
- 6. Remove the front bumper opening finisher clips C103 and remove the front bumper opening finisher.
- 7. Remove the front bumper RH and LH side finishers.
- 8. Remove the front bumper brackets LH and RH.
- 9. Remove the front bumper stays LH and RH.

Installation

Installation is in the reverse order of removal.

PLASTIC BUMPER



- 1. Front bumper bracket RH
- 4. Energy absorber
- 7. Skid plate (with off-road package)
- 2. Front bumper stay RH
- 5. Fastener CS101
- 8. Access cover

- 3. Retainer bracket
- 6. Plastic fascia assembly
- 9. Fog lamp opening finisher (if equipped)

FRONT BUMPER

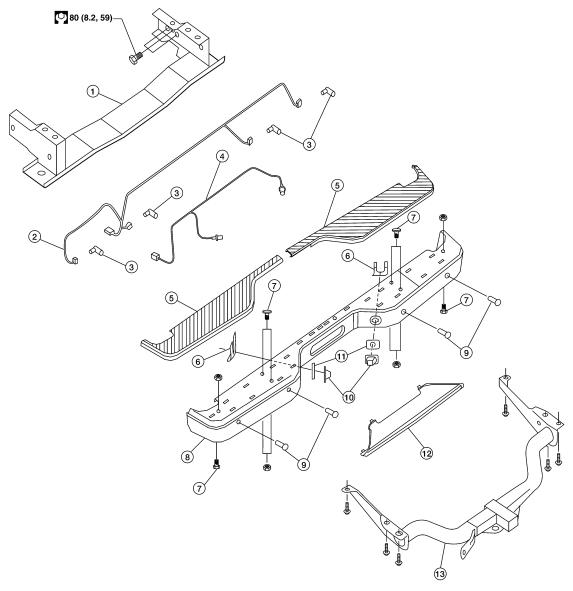
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10. Fog lamp assembly (if equipped) 11. Front under cover (without off-road 12. Plastic clip package)	A
13. Front bumper stay LH 14. Front bumper bracket LH	
Removal	В
Remove the front grille. Refer to <u>EXT-18</u> .	Б
Remove the skid plate or front under cover.	
3. Remove the fog lamp, if equipped. Refer to EXL-141, "Removal and Installation".	С
 4. Remove the screws and fasteners and remove the plastic fascia assembly. Remove the fog lamp opening finisher, if equipped, from the plastic fascia assembly. 	5
5. Remove the clips and energy absorber from the retainer bracket.	D
6. Remove the retainer bracket.	
7. Remove the front bumper brackets LH and RH.	Е
8. Remove the front bumper stays LH and RH.	
Installation Installation is in the reverse order of removal.	F
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REAR BUMPER

Removal and Installation

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- 1. Rear bumper reinforcement
- 4. License lamp harness
- 7. Carriage bolt
- 10. License lamp
- 13. Tow hitch (if equipped)
- 2. Sonar sensor harness (if equipped)
- 5. Upper step pad
- 8. Rear bumper
- 11. License lamp washer
- 3. Sonar sensor (if equipped)
- 6. License lamp clip
- 9. Sonar sensor retainer (if equipped)
- 12. Lower step pad

REMOVAL

NOTE:

It is not necessary to remove the tow hitch to service the rear bumper.

- 1. Disconnect the harness from tow hitch, if equipped.
- 2. Remove the bolts on each side of tow hitch and remove the tow hitch, if equipped.
- 3. Disconnect the sonar sensor harness connector, if equipped.
 - Disconnect the sonar sensors from retainers.

REAR BUMPER

< 0	N-VEHICLE REPAIR >
4.	Disconnect the license lamp harness.
5.	Remove the clips from the license lamps and remove lamps.
6.	Release the clips and remove the upper step pads.
7.	Remove the rear bumper.
8.	Disconnect the harness clips from the black steel bumper.
9.	Remove the rear bumper reinforcement.
10.	Remove the sonar sensor retainers from the rear bumper, if equipped.
11.	Remove the sonar sensors and harness from the rear bumper, if equipped. • Disconnect the sonar sensors from harness.
12.	Remove the license lamp harness from the rear bumper.
INS	TALLATION
	allation is in the reverse order of removal.
• Ap	oply sealant to clips securing upper step pad during installation.

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FRONT GRILLE

Removal and Installation

- 1. Plastic clip CG101
- 4. Front bumper filler panel RH
- 2. Plastic clip CG101
- 5. Front grille

- 3. Grommet
- 6. Front bumper filler panel LH

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REMOVAL

- 1. Release the plastic clips and remove the front grille.
- 2. Remove the LH and RH front bumper filler panels.

INSTALLATION

Installation is in the reverse order of removal.

COWL TOP

Removal and Installation

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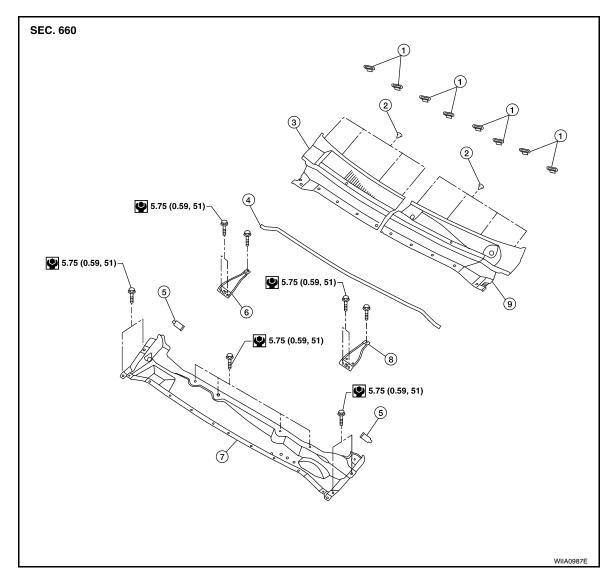
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- 1. Grommet
- 4. Cowl top seal
- 7. Cowl top extension
- 2. Plastic clip C103
- 5. Drain tube
- 8. Cowl top extension bracket LH
- 3. Cowl top RH
- 6. Cowl top extension bracket RH
- 9. Cowl top LH

REMOVAL

- 1. Remove the right and left wiper arms. Refer to <a href="https://www.59."/www.59."/www.59."/www.59."/www.59."/www.59."/www.59."/www.59."/www.59."/www.59."/www.59."/www.59."/www.59."/www.69."/ww.69."/
- Remove the cowl top seal.
 - Release the plastics clips on the cowl top seal which go through the cowl tops LH and RH and cowl top extension.
- 3. Remove the cowl top covers LH and RH.
 - Release the plastic clips under cowl top covers attaching to grommets on hoodledge.
 - · Disconnect the washer tubes from washer nozzles.
- 4. Remove the cowl top extension brackets LH and RH.
 - Disconnect the wiper motor harness from cowl top extension bracket LH.
 - Cowl top extension bracket LH must be removed prior to removal of the wiper motor and connecting rod assembly.
- Remove the wiper motor and connecting rod linkage. Refer to <u>WW-60, "Wiper Motor and Linkage"</u>.

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COWL TOP

< ON-VEHICLE REPAIR >

- 6. Disconnect the windshield washer tube. Refer to WW-62, "Washer Tube Layout".
- 7. Remove the A/C low-pressure pipe bracket from cowl top extension. Refer to <u>HA-39</u>, "Removal and Installation for Low-Pressure Pipe".
- 8. Remove the drain tube from each side of cowl top extension.
- 9. Remove the cowl top extension.

INSTALLATION

Installation is in the reverse order of removal.

FRONT FENDER

Removal and Installation

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15.7 (0.58, 50)

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- 1. Front fender LH shown
- 2. Front fender wheel opening finisher (if equipped) A. Clip C205

B. Screws

REMOVAL

- Remove the front mudguards (if equipped). Refer to <u>EXT-25</u>.
- 2. Remove the headlamps. Refer to EXL-137, "Removal and Installation".
- 3. Remove the fender protector. Refer to EXT-22.
- 4. Remove the hood stay. Refer to <u>DLK-116</u>, "Removal and Installation of Hood Lock Control".
- Remove the front fender.
- 6. Remove the front fender wheel opening finisher screws, then remove the front fender wheel opening finisher, using a suitable tool (if equipped).

INSTALLATION

Installation is in the reverse order of removal.

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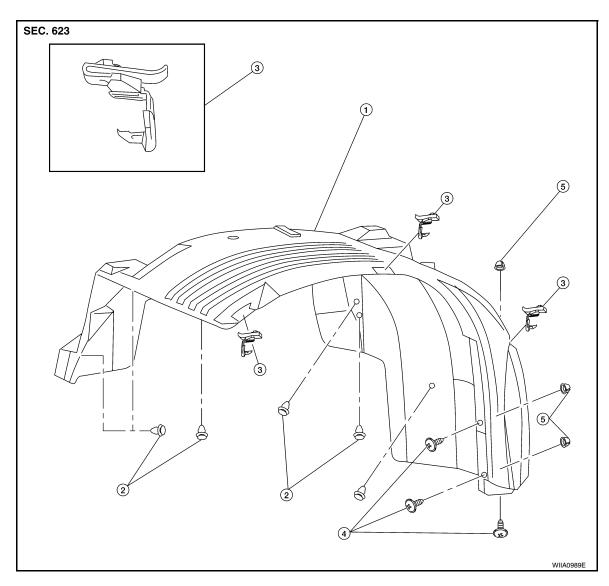
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FENDER PROTECTOR

Removal and Installation



1. Fender protector LH

Screws

- 2. Pushpins CS101
- 5. Grommets

Plastic clips

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REMOVAL

- 1. Remove the front mudguard, if equipped. Refer to EXT-25.
- 2. Remove the screws.
- 3. Remove the plastic clips.
- 4. Remove the pushpins.
- 5. Remove the fender protector.

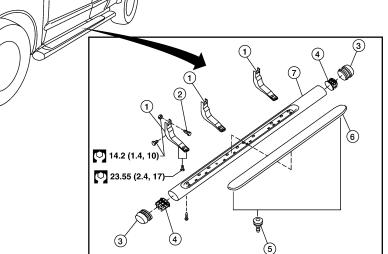
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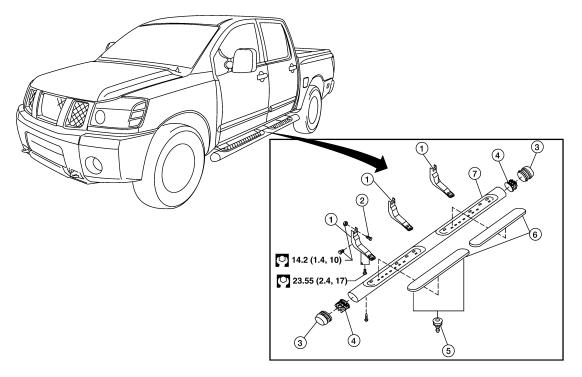
Installation is in the reverse order of removal.

RUNNING BOARDS

Removal and Installation

SEC. 767





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- 1. Running board bracket
- 4. End cap reinforcement
- 7. Running board

- 2. Weld stud
- 5. Plastic clip

- 3. End cap
- 6. Step pad

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RUNNING BOARDS

< ON-VEHICLE REPAIR >

REMOVAL

- 1. Remove the bolts and remove the running board from running board brackets.
- 2. Remove the screw and remove the end cap.
 - Remove the reinforcement from end cap.
- 3. Release the clips and remove the step pad from the running board.
- 4. Remove the nuts and bolts and remove the running board brackets.

INSTALLATION

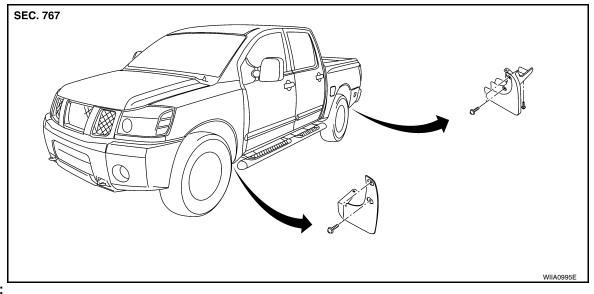
Installation is in the reverse order of removal.

MUDGUARD

< ON-VEHICLE REPAIR >

MUDGUARD

Removal and Installation



NOTE:

Crew Cab shown King Cab similar.

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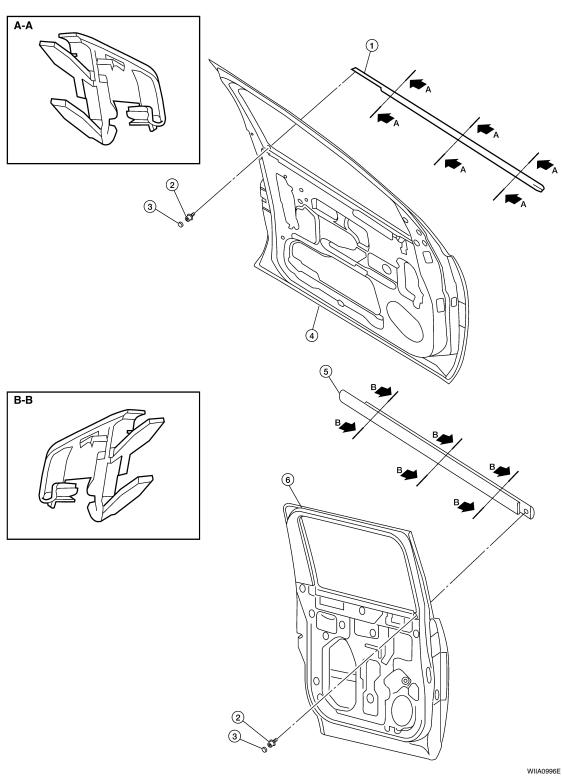
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DOOR OUTSIDE MOLDING

Removal and Installation

SEC. 800 • 820



- 1. Front door outside molding LH
- 4. Front door LH

- 2. Screw
- 5. Rear door outside molding LH
- 3. Hole cover
- 6. Rear door-Crew cab

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DOOR OUTSIDE MOLDING

< ON-VEHICLE REPAIR >

FRONT DOOR OUTSIDE MOLDING Removal 1. Open the window fully. 2. Remove the door mirror. Refer to MIR-14, "Door Mirror Assembly". 3. Remove the molding 1. Remove the hole cover and screw. 2. Lift the molding from the rear side. Disconnect the clips from flange. Installation Installation is in the reverse order of removal. REAR DOOR OUTSIDE MOLDING Removal 1. Open the window fully. 2. Remove the molding. 1. Remove the hole cover and screw. Lift the molding from the rear side. 3. Disconnect the clips from flange. Installation Installation is in the reverse order of removal.

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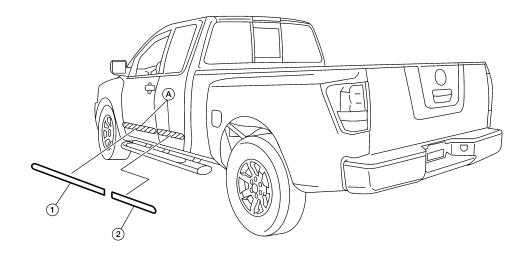
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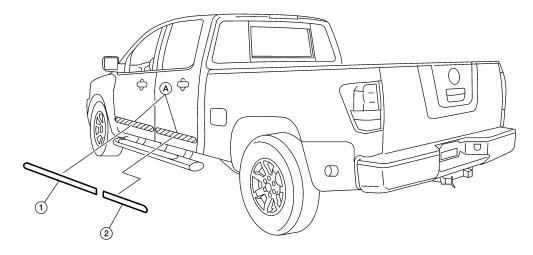
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SIDE GUARD MOLDING

Removal and Installation

SEC. 766





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1. Front door side guard molding 2. Rear door side guard molding A. Double-faced adhesive tape application locations

Removal

CAUTION:

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

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

Installation

- On the 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, C-100 or equivalent.
- The repair parts are also affixed with double-faced adhesive tape.

SIDE GUARD MOLDING

< ON-VEHICLE REPAIR >

- 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. 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.
 - Align the locating pin into the hole in the outer door.
 - Continue aligning the pins into their corresponding holes in the outer door during installation.
- 4. Press ends by hand and use a roller to apply 5 kg-f (11 lbs-f) to press molding to door surface.
 - Apply even pressure along molding to insure proper wet out.

CAUTION:

To secure contact, do not wash vehicle for 24 hours after installation.

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BED RAILS AND TRIM

Removal and Installation

SEC. 932 • 935 • 937 28 (2.9, 21) 28 (2.9, 21) (8)

- 1. Header top trim
- 4. Tie down cleat
- 7. Bed side front tie down rail LH
- 2. Header tie down rail
- 5. Floor rail cover LH
- 8. Top side rail trim LH
- 3. Rope hook
- 6. Floor rail LH
- 9. Bed side rear tie down rail LH

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BED RAILS AND TRIM

< ON-VEHICLE REPAIR >		
10. Floor rail RH	11. Floor rail cover RH14. Bed side front tie down rail RH	12. Bed side rear tie down rail RH
13. Top side rail trim RH16. Washer	17 Spacer	15. Bolt18. Weld nut
19. Plastic keeper	20. Rail	To. Word Hut
REMOVAL		
Remove floor rail covers.		
2. Remove tie down cleats.		
3. Remove floor rails LH/RH.4. Remove bed side front and rear	tio down rollo LU/DU	
4. Remove bed side front and rear5. Remove rope hooks.	tie down raiis LH/RH.	
Remove header tie down rail.		
7. Release clips and remove heade	er top trim.	
8. Release clips and remove top si	-	
INSTALLATION Installation is in the reverse order of NOTE: Tighten rail bolts in numerical order.	removal.	
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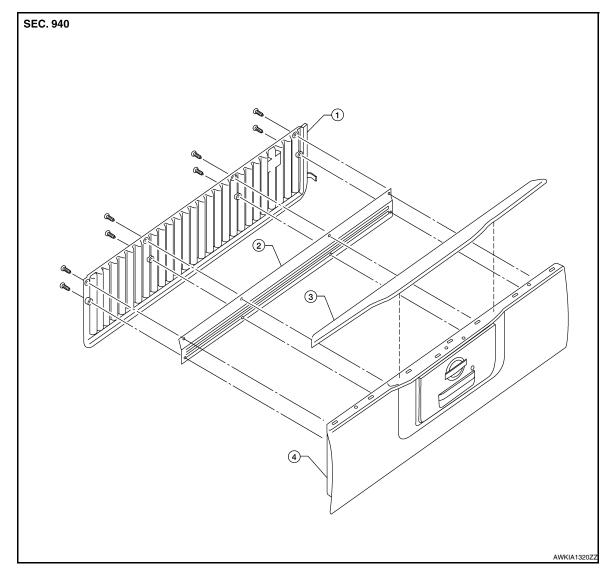
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TAIL GATE FINISHER

Removal and Installation

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- 1. Tailgate protector (if equipped)
- 2. Tailgate cover plate
- 3. Tailgate top protector

4. Tailgate assembly

REMOVAL

- 1. Release clips and remove tailgate top protector.
- 2. Remove screws and remove tailgate protector (if equipped) and tailgate cover plate.

INSTALLATION

Installation is in the reverse order of removal.

STORAGE BOX

Removal and Installation

SEC. 935 22 (2.2, 16) 6.8 (0.69, 60) 6.8 (0.69, 60) 22 (2.2, 16) 9 N·m (kg-m, in-lb) N·m (kg-m, ft-lb)

- 1. Surround assembly
- Door stay assembly 4.
- 7. Key cylinder lid assembly
- 10. Key cylinder retainer
- 13. Striker
- 16. Shelf bin mat

- 2. Front outer bracket
- 5. Bulb seal
- 8. Key cylinder
- 11. Latch assembly
- 14. Door seal
- 17. Rear outer bracket

- 3. Storage box
- 6. Outer seal
- 9. Storage box door
- 12. Inner door cover
- 15. Shelf bin
- 18. Back stop

REMOVAL

- 1. Remove rear mudguard (if equipped). Refer to EXT-25, "Removal and Installation".
- 2. Remove bolts, release clips and remove storage box assembly.
- 3. Remove shelf bin and mat from storage box.
- Remove storage box door from hinge.
 - Remove door stay assembly.

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STORAGE BOX

< ON-VEHICLE REPAIR >

- 5. Remove inner door cover.
- 6. Remove nuts and remove latch assembly from door.
 - Remove key cylinder.
- 7. Remove outer seal and key cylinder lid assembly from door.
- 8. Remove bulb seal and door seal from storage box.
- 9. Remove storage box from surround assembly.

INSTALLATION

Installation is in the reverse order of removal.