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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

Precaution for Technicians Using Medical Electric

INFOID:000000007071860

OPERATION PROHIBITION

WARNING:

- Parts with strong magnet is used in this vehicle.
- Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts.

NORMAL CHARGE PRECAUTION

WARNING:

- If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.
- As radiated electromagnetic wave generated by on board charger at normal charge operation may effect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not enter the vehicle compartment (including luggage room) during normal charge operation.

Precaution at telematics system operation

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator(ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use.

Precaution at intelligent key system operation

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of intelligent key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch operation, or at engine starting.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of intelligent key might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before intelligent key use.

Point to Be Checked Before Starting Maintenance Work

INFOID:000000007079446

The high voltage system may starts automatically. It is required to check that the timer air conditioner and timer charge (during EVSE connection) are not set before starting maintenance work.

NOTE:

If the timer air conditioner or timer charge (during EVSE connection) is set, the high voltage system starts automatically even when the power switch is in OFF state.

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

INFOID:000000007034983

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

PRECAUTIONS

< PRECAUTION >

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 "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".**
- **Never 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:

Always observe the following items for preventing accidental activation.

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the power switch ON, never 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 power switch OFF, disconnect the 12V battery, and wait at least 3 minutes before performing any service.**

Precaution for Removing 12V Battery

INFOID:000000006956462

When removing the 12V battery, turn ON/OFF the power switch and check that the charging status indicator does not blink. The 12V battery must be removed within one hour after checking the indicator lamp.

NOTE:

- The automatic 12V battery charge control may start even when the power switch is in OFF state.
- The automatic 12V battery charge control does not start within approximately one hour when the power switch is turned ON/OFF.

Service Notice

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

Precaution for Work

INFOID:000000006956464

- 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 keep them.
- 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 re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.
 - Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
Then rub with a soft and dry cloth.

PRECAUTIONS

< PRECAUTION >

- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled 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.
- Never use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.
- When checking SRS air bag and seat belt pre-tensioner circuits or the components of each system, never use an electric tester such as a circuit tester. (This is to prevent accidental triggering caused by the weak electric of a tester.)
- Never solder the harness of side air bag for repairs. Make sure that harness is not pinched and there is no contact with other components.
- Never insert foreign materials, such as a screwdriver, into air bag module connector. (This is to prevent accidental activation caused by static electricity.)
- Place air bag module as a unit with side air bag deployment surface facing upward (stud bolts facing downward). (This is to prevent accidental deployment.)
- Never disassemble and check inflator. side air bag module must never be disassembled.

PREPARATION

< PREPARATION >

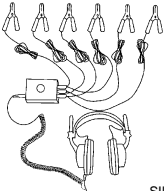
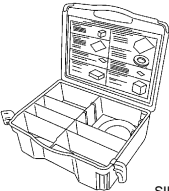
PREPARATION

PREPARATION

Special Service Tool

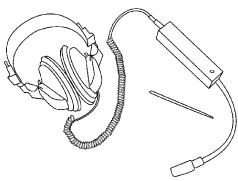
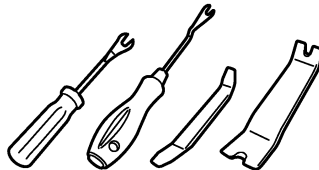
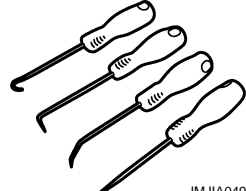
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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
<p>(J39570) Chassis ear</p>  <p>SIIA0993E</p>	<p>Locates the noise</p>
<p>(J43980) NISSAN Squeak and Rattle Kit</p>  <p>SIIA0994E</p>	<p>Repairs the cause of noise</p>

Commercial Service Tool

INFOID:0000000006956465

Tool name	Description
<p>Engine ear</p>  <p>SIIA0995E</p>	<p>Locates the noise</p>
<p>Remover tool</p>  <p>JMKIA3050ZZ</p>	<p>Removes the clips, pawls and metal clips</p>
<p>Hook and pick tool</p>  <p>JMJA0490ZZ</p>	<p>Removes the snap pins</p>

CLIP LIST

< PREPARATION >

CLIP LIST

Clip List

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Shapes	Removal & Installation	Shapes	Removal & Installation
	<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p>		<p>Removal:</p>
	<p>Removal: Remove with a clip remover.</p>		<p>Removal:</p>
	<p>Removal: Push center pin to catching position. (Do not remove center pin by hitting it.)</p> <p>Installation:</p>		<p>Removal: Holder portion of clip must be spread out to remove rod.</p>
	<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p>		<p>Removal:</p> <ol style="list-style-type: none"> Screw out with a Phillips screwdriver. Remove female portion with flat-bladed screwdriver.
	<p>Removal:</p>		<p>Removal:</p> <p>Rotate 45° to remove.</p> <p>Installation:</p>
	<p>Removal:</p>		<p>Removal:</p>

JMJIA3734GB

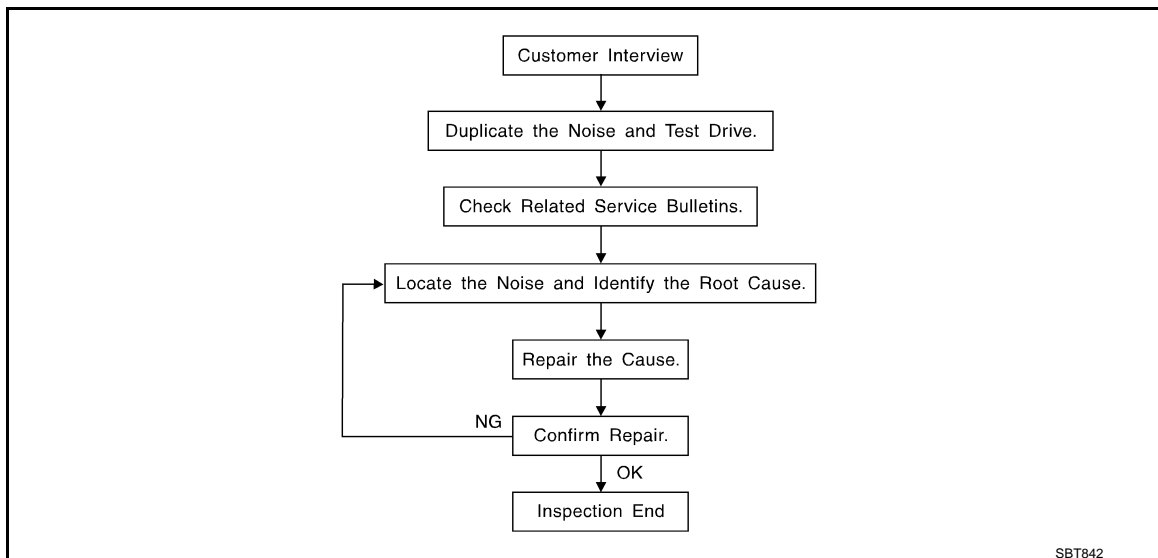
SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



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 comments. Refer to [SE-11, "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, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a test drive with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so that the customer, service adviser, and technician use the same language when describing 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 = high-pitched noise / softer surfaces = low-pitched 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 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 sounds / 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 / dull sounds often brought on by activity.
- Buzz – (Like a bumblebee)
Buzz characteristics include high frequency rattle / firm contact.
- Often the degree of acceptable noise level varies depending upon the person. A noise that a technician may judge as acceptable may be very irritating to a customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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

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 items:

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the motor.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply motor load (electrical load, half-clutch on M/T models, drive position on 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 the 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, and mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - Removing the component(s) in the area that is / are suspected to be the cause of the noise.
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(s) that is / are suspected to be the cause of the noise.
Do not tap or push/pull the component(s) with excessive force, otherwise the noise is eliminated only temporarily.
 - Feeling for a vibration by hand by touching the component(s) that is / are suspected to be the cause of the noise.
 - Placing a piece of paper between components that are suspected to be the cause of the noise.
 - Looking for loose components and contact marks.
Refer to [SE-9. "Inspection Procedure"](#).

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 components, 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 the authorized NISSAN Parts Department.

CAUTION:

Never use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

Always check with the Parts Department for the latest parts information.

The 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 (3.937 × 5.315 in)
- 76884-71L01: 60 × 85 mm (2.362 × 3.346 in)
- 76884-71L02: 15 × 25 mm (0.591 × 0.984 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

- 73982-9E000: 45 mm (1.772 in) thick, 50 × 50 mm (1.969 × 1.969 in)
- 73982-50Y00: 10 mm (0.394 in) thick, 50 × 50 mm (1.969 × 1.969 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.181 in) thick, 30 × 50 mm (1.181 × 1.969 in)

FELT CLOTHTAPE

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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

- 68370-4B000: 15 × 25 mm (0.591 × 0.984 in) pad
- 68239-13E00: 5 mm (0.197 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 in place of UHMW tape that is visible or does not fit. Only lasts a few months.

SILICONE SPRAY

Used when grease cannot be applied.

DUCT TAPE

Used to eliminate movement.

CONFIRM THE REPAIR

After repair is complete, test drive the vehicle to confirm that the cause of 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.

Inspection Procedure

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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
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting 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 silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to check 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

Check the following items:

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

Tapping, moving the components, or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated 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 customer.

In addition check for the following items:

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. 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 items:

1. Sunroof lid, rail, linkage, or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

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

Causes of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

1. Any component mounted to the motor wall
2. Components that pass through the motor wall
3. Motor wall mounts and connectors
4. 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, motor RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

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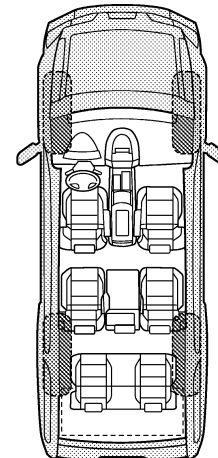
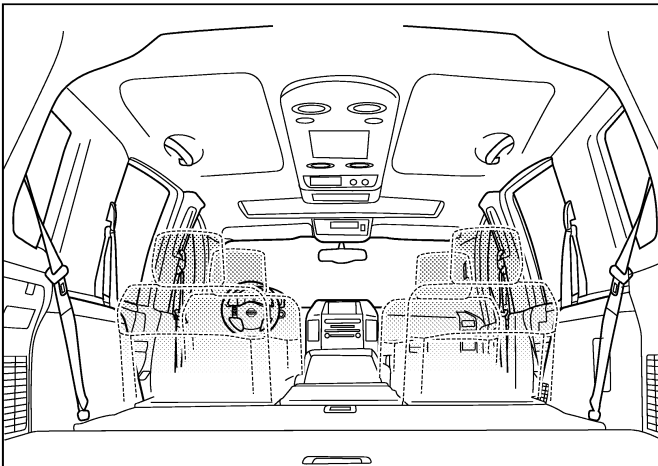
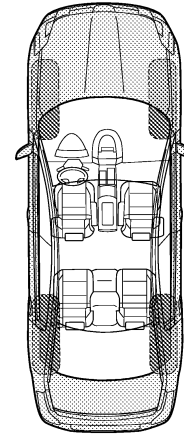
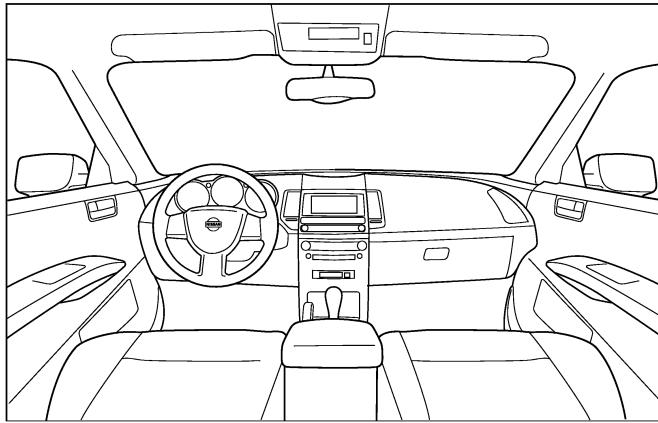
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

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

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

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



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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

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

- | | |
|---|--|
| <input type="checkbox"/> anytime | <input type="checkbox"/> after sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> when it is raining or wet |
| <input type="checkbox"/> only when it is cold outside | <input type="checkbox"/> dry or dusty conditions |
| <input type="checkbox"/> only when it is hot outside | <input type="checkbox"/> other: |

III. WHEN DRIVING:

- through driveways
- over rough roads
- over speed bumps
- only about ____ mph
- on acceleration
- coming to a stop
- on turns: left, right or either (circle)
- with passengers or cargo
- other: _____
- after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- squeak (like tennis shoes on a clean floor)
- creak (like walking on an old wooden floor)
- rattle (like shaking a baby rattle)
- knock (like a knock at the door)
- tick (like a clock second hand)
- thump (heavy, muffled knock noise)
- buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

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

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

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FRONT SEAT

< REMOVAL AND INSTALLATION >

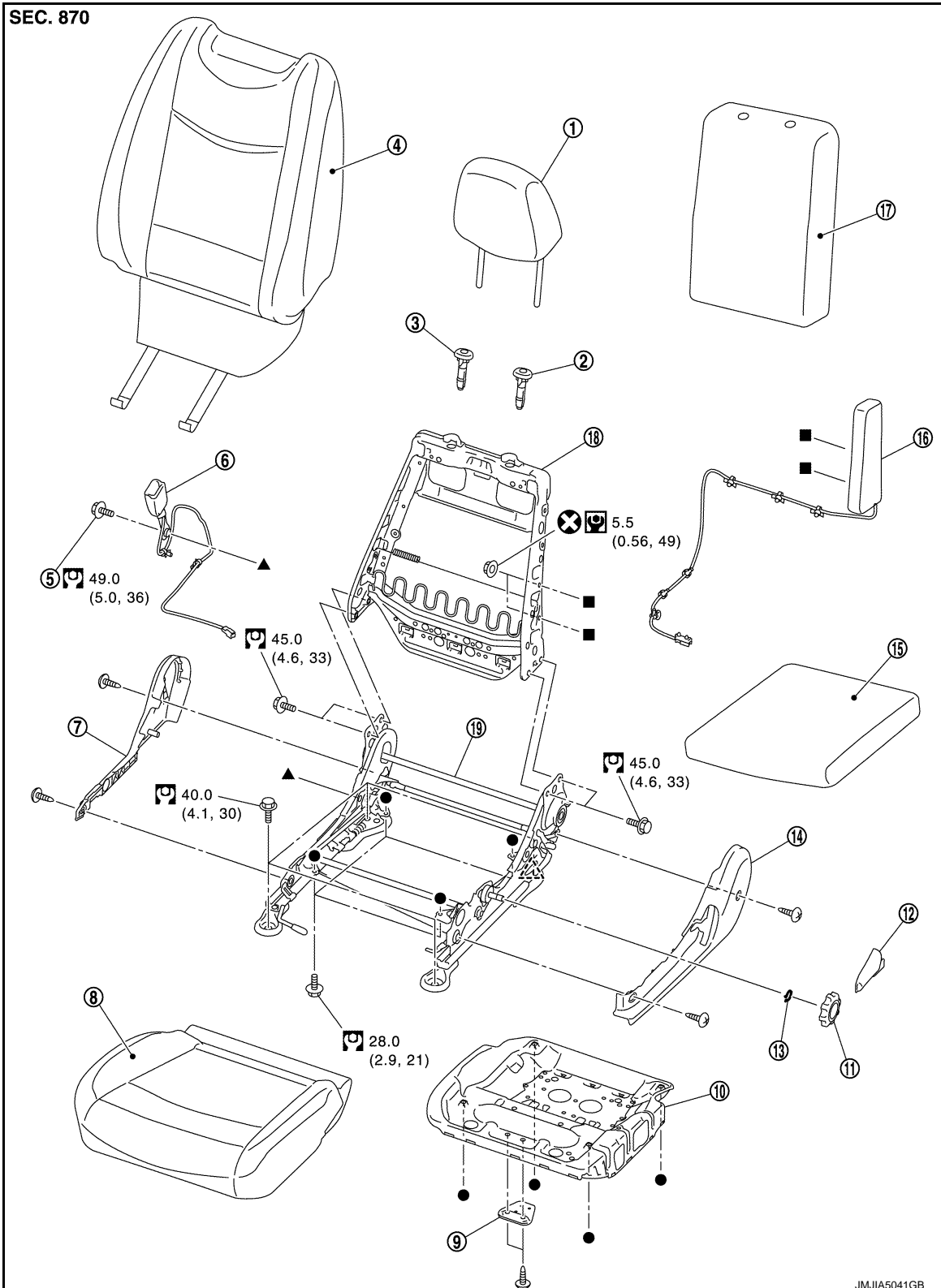
REMOVAL AND INSTALLATION

FRONT SEAT

Exploded View

DRIVER SEAT

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FRONT SEAT

< REMOVAL AND INSTALLATION >

- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| 1. Headrest | 2. Headrest holder (locked) | 3. Headrest holder (free) |
| 4. Seatback assembly | 5. Anchor bolt | 6. Seat belt buckle |
| 7. Seat cushion inner finisher | 8. Seat cushion assembly | 9. Seat cushion frame bracket |
| 10. Seat cushion frame assembly | 11. Lifter lever knob | 12. Reclining device lever knob |
| 13. Snap ring | 14. Seat cushion outer finisher | 15. Seat cushion silencer |
| 16. Side air bag module | 17. Seatback silencer | 18. Seatback frame assembly |
| 19. Seat adjuster assembly | | |

 : Always replace after every disassembly.

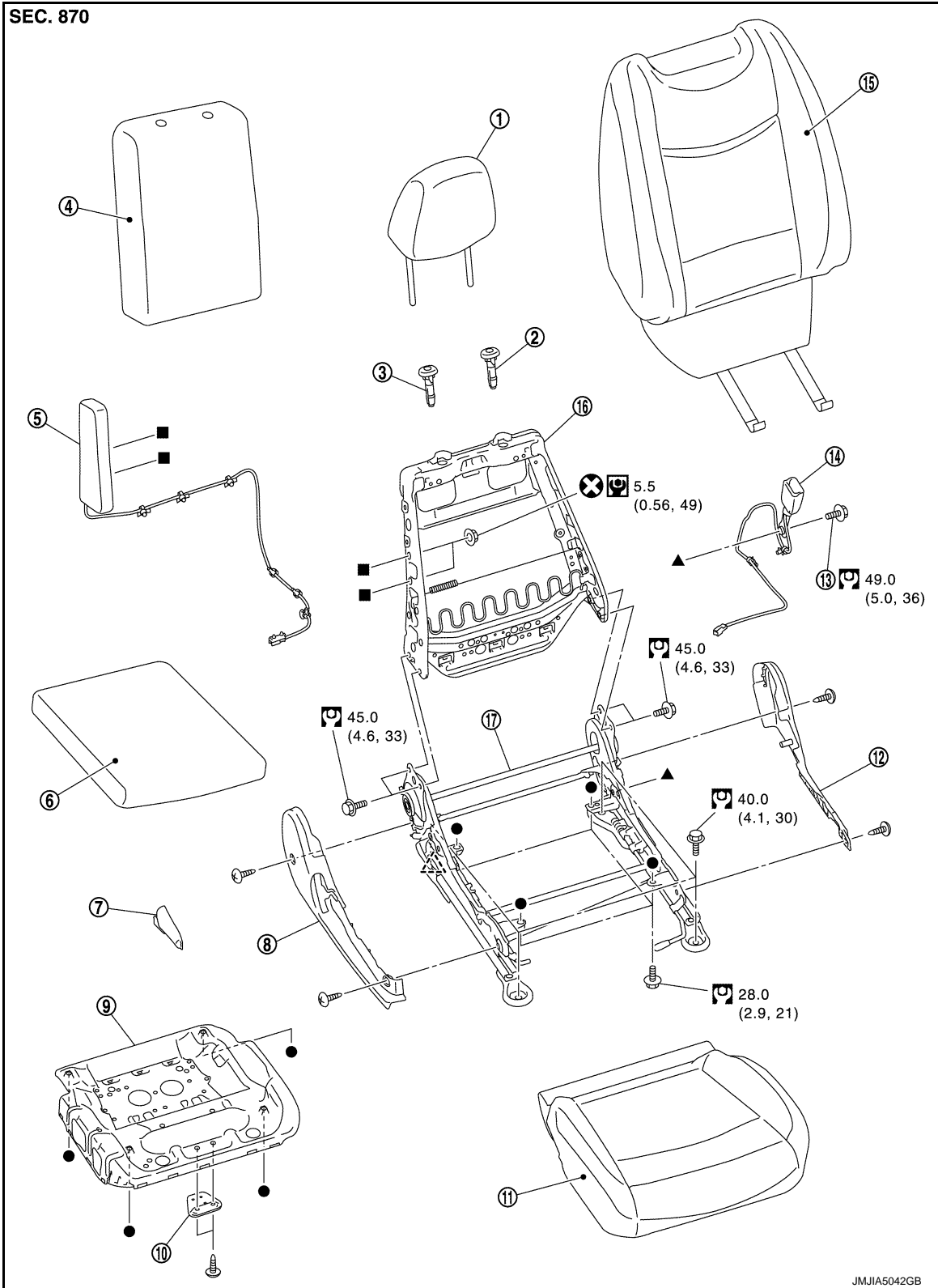
 : N·m (kg-m, in-lb)

 : N·m (kg-m, ft-lb)

PASSENGER SEAT

FRONT SEAT


< REMOVAL AND INSTALLATION >





- | | | |
|--------------------------------|--------------------------------|---------------------------------|
| 1. Headrest | 2. Headrest holder (locked) | 3. Headrest holder (free) |
| 4. Seatback silencer | 5. Side air bag module | 6. Seat cushion silencer |
| 7. Reclining device lever knob | 8. Seat cushion outer finisher | 9. Seat cushion frame assembly |
| 10. Seat cushion frame bracket | 11. Seat cushion assembly | 12. Seat cushion inner finisher |
| 13. Anchor bolt | 14. Seat belt buckle | 15. Seatback assembly |
| 16. Seatback frame assembly | 17. Seat adjuster assembly | |

FRONT SEAT

< REMOVAL AND INSTALLATION >

 : Always replace after every disassembly.

 : N·m (kg-m, in-lb)

 : N·m (kg-m, ft-lb)

Removal and Installation

INFOID:000000006956471

REMOVAL

CAUTION:

- To prevent accidental explosion, before servicing, push power switch OFF, disconnect 12V battery terminal and wait 3 minutes or more.
- To prevent accidental explosion, always work from the side of seatback. Never work in front of it.
- Never use the air tools or electric tools for servicing.

1. Remove headrest.
2. Set the seatback vertically.
3. Slide seat to the frontmost position.
4. Remove rear inner mounting bolt.
5. Remove rear outer mounting bolt.
6. Slide seat to the rearmost position.
7. Remove front outer mounting bolt.
8. Remove front inner mounting bolt.
9. Disconnect seat cushion lower harness connectors, and then remove harness fixing clamps.

CAUTION:

Before performing removal operation, check the installation position of harness connectors and harness fixing clamps.

10. Remove seat from the vehicle.

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

INSTALLATION

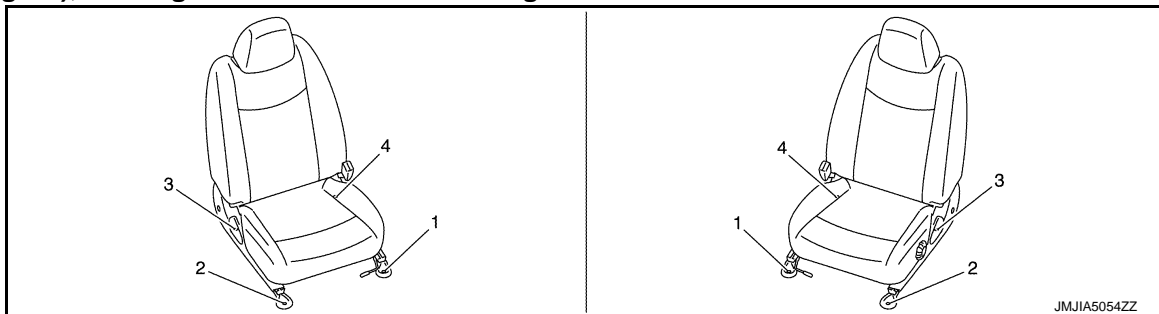
Note the following items, and install in the reverse order of removal.

CAUTION:

- When removing and installing, use shop cloths to protect parts from damage.
- Never leave any foreign objects (screwdriver, etc.) into the seatback. It can lead to personal injury when deployed.
- Never allow oil, grease, detergent, or water to come in contact with the front side air bag module.
- Always fix the harness fixing clamp in position.
- Install connector with lock raised, and push lock into connector.

After installing the connector, check that the lock is pushed securely into it.

- When installing, tighten mounting bolts according to the numerical order (1, 2, 3, and 4 as shown in the figure), starting from front inner mounting bolt.



Passenger seat

Driver seat

SEATBACK

FRONT SEAT

< REMOVAL AND INSTALLATION >

SEATBACK : Disassembly and Assembly

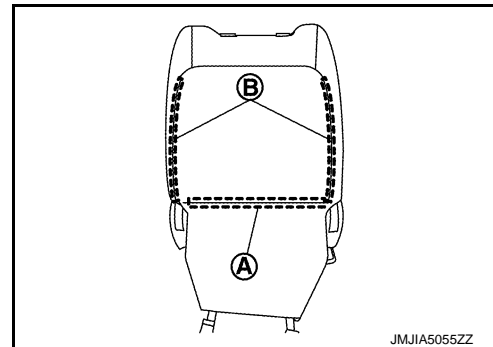
INFOID:000000006956472

DISASSEMBLY

CAUTION:

- To prevent accidental explosion, always work from the side of seatback. Never work in front of it.
- Never use the air tools or electric tools for servicing.
- Never damage the trim cover and chutes.
- To prevent accidental explosion, never insert any foreign material (screwdriver, etc.) into the side air bag module and the air bag module connector.

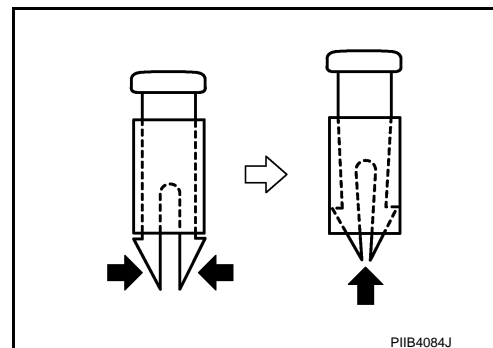
1. Remove seatback retainer installed in the lower portion of seat cushion.
2. Remove side air bag module harness and seat belt buckle harness installed in the lower portion of seat cushion.
3. Remove seatback retainer (A) and open seatback fastener (B).



4. Use pincers, etc., to press up pawls as shown by the arrows in the figure, and remove headrest holder from seatback.

CAUTION:

Before installing headrest holder check its orientation. (front/rear and right/left)




FRONT SEAT

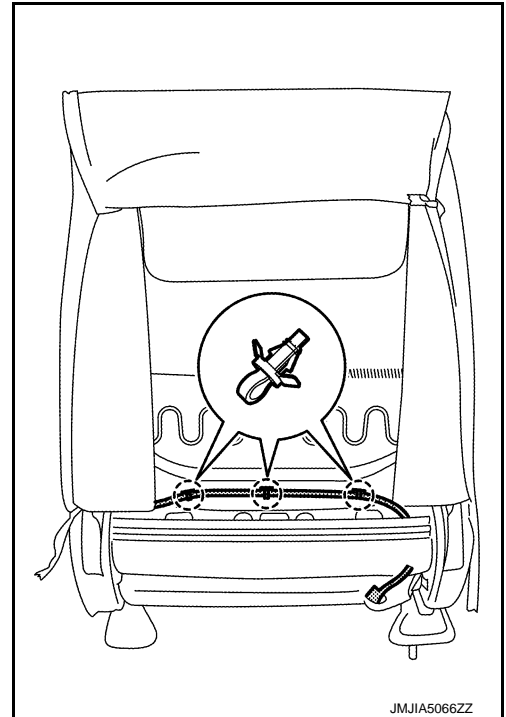
< REMOVAL AND INSTALLATION >

5. Remove side air bag module harness clamps.

CAUTION:

Never damage the side air bag module, harness, connector, and clips.

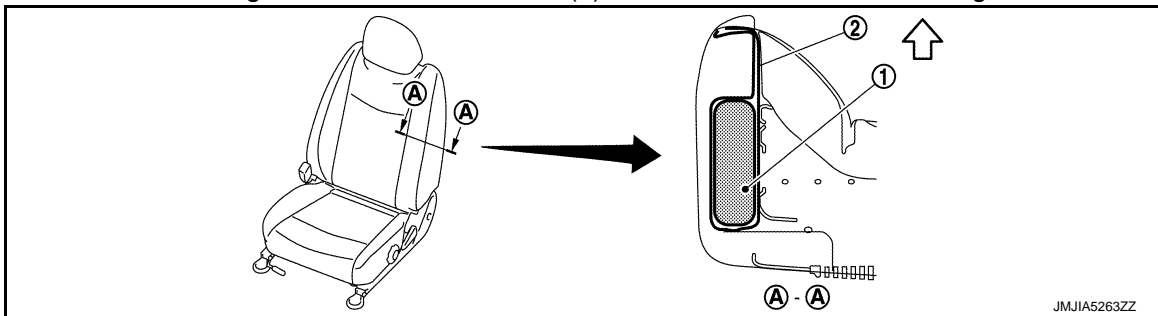
 : clip



6. Remove side air bag module mounting nuts.

7. Remove side air bag module.

1. Remove side air bag module (1) from seatback frame assembly.
2. Pull out side air bag module from inner cloth (2), and then remove, side air bag module.



 : Vehicle front

CAUTION:

- Check for direction of side air bag module.
- Never disassemble the front side air bag module.
- To prevent accidental explosion, place air bag module as a unit with side air bag deployment surface facing upward (stud bolts facing downward).
- Never expose the front side air bag module to temperature more than 90°C (194°F).

8. Remove seatback assembly from seatback frame assembly.

CAUTION:

Never subject side air bag module to impact by dropping or hitting.

9. Remove seatback silencer from seatback frame assembly.

10. Remove mounting bolts of seatback frame assembly, and then remove seatback frame assembly from seat adjuster assembly.

ASSEMBLY

Note the following, and assemble in the reverse order of disassembly.


CAUTION:

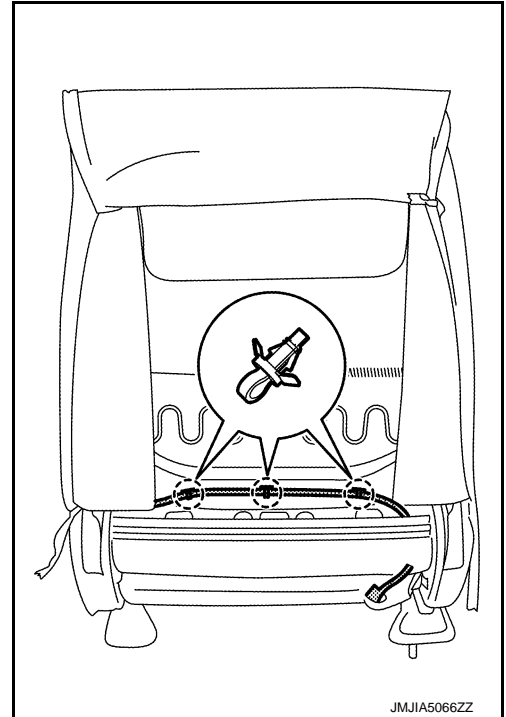
- Never damage the harness while installing.
- Be sure to tighten nuts to the specified torque.
- Never damage the side air bag module, harness, connector, and clips.

FRONT SEAT

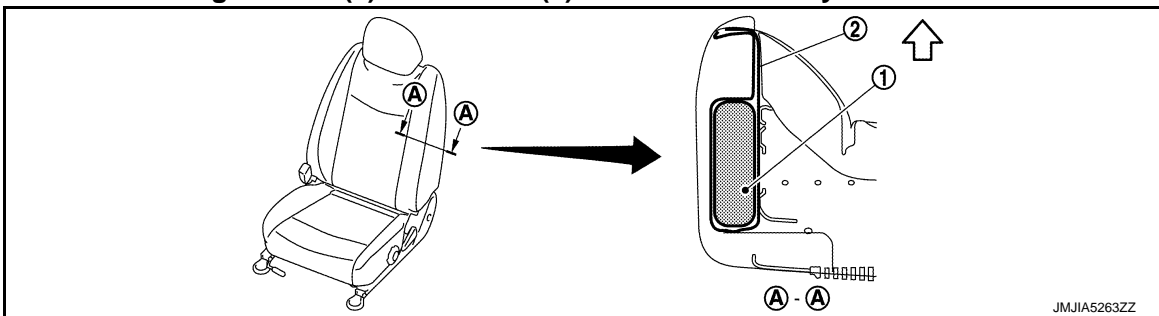
< REMOVAL AND INSTALLATION >

- Never reuse nut for installing side air bag module.
- Never leave any foreign objects (screwdriver, etc.) into the seatback. It can lead to personal injury when deployed.
- For installing / removing front side air bag harness connector, insert thin screwdriver wrapped in tape into notch, lift lock and remove connector.
- Never allow oil, grease, detergent, or water to come in contact with the front side air bag module.
- Check that there is no breakage on pad, trim cover, and chutes. If damaged, please replace them.
- Replace a deformed or damaged clips. Mark the location and orientation of existing clips and replace them to new same clips.
- Always clamp the side air bag module harness to the right place and right route.

 : Clip



- Check that all notch joints are connected and cushion of module is not exposed.
- Check direction of side air bag module.
- Never damage the trim cover and chutes.
- Check the side air bag module (1) and chutes (2) are locate normally.



 : Vehicle front

- Insert inner cloth fixing rod into inner cloth loop portion.
- Never reuse the module when notch joint is broken.
- Check that there are no wrinkle and over-lap on chute.
- Check that chute is not pinched.
- Check that trim cover end is fixed normally.
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.
- If malfunction is detected, by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to [SRC-13. "Description"](#).

SEAT CUSHION

FRONT SEAT


< REMOVAL AND INSTALLATION >

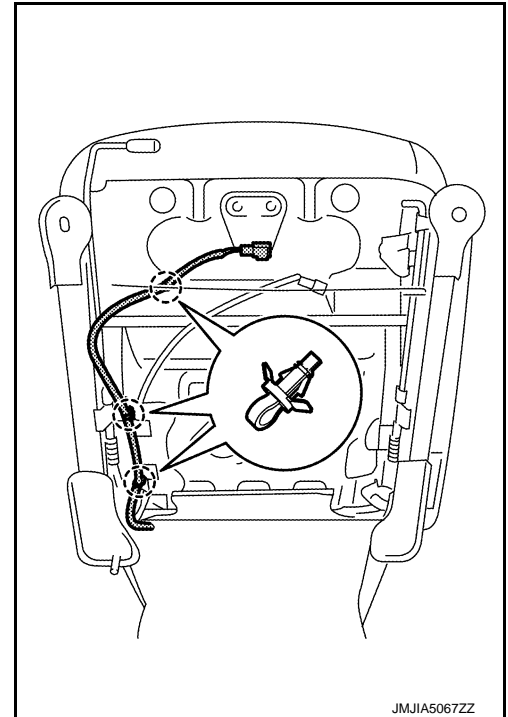
SEAT CUSHION : Disassembly and Assembly

INFOID:00000006956473

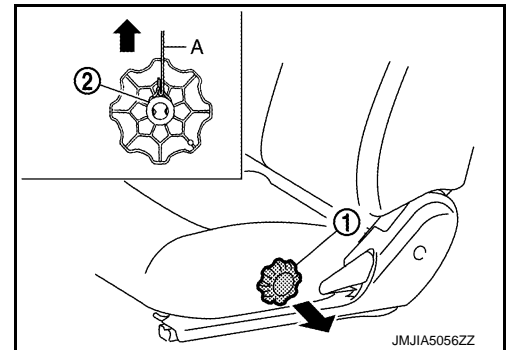
DISASSEMBLY

1. Remove seat belt buckle harness installed in the lower portion of seat cushion.
2. Remove side air bag harness installed in the lower portion of seat cushion.


 : Clip

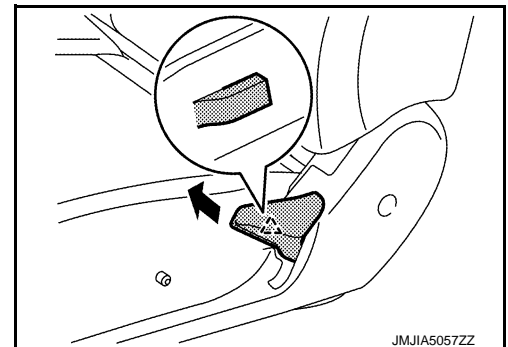


3. Remove lifter lever knob.
Pull snap ring (2) upward, and remove lifter lever knob (1) from seat frame assembly with hook and picktool (A).



4. Disengage pawl using a remove tool while pulling reclining device lever knob. Slide reclining device lever knob toward seat front and remove it.

 : Pawl



5. Remove mounting bolts and then remove seat cushion frame assembly from seat adjuster assembly.
6. Remove seat cushion assembly retainer from seat cushion frame assembly. Remove seat cushion assembly.
7. Remove seat cushion silencer from seat cushion frame assembly.

FRONT SEAT

< REMOVAL AND INSTALLATION >


8. Remove fixing screws, and then remove seat cushion frame bracket from seat cushion frame assembly.
9. Remove fixing screws and then remove seat cushion outer finisher from seat adjuster assembly.
10. Remove fixing screws and then remove seat cushion inner finisher from seat adjuster assembly.
11. Remove seat adjuster assembly from seatback frame assembly.
Refer to [SE-17, "SEATBACK : Disassembly and Assembly"](#).

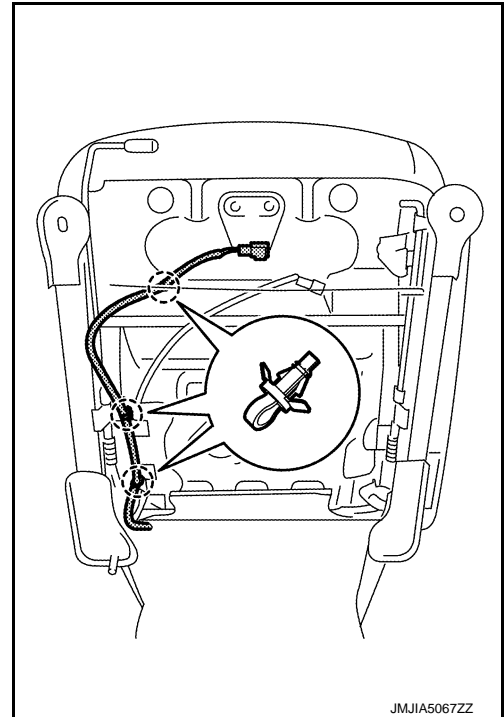
ASSEMBLY

Note the following, and assemble in the reverse order of disassembly.

CAUTION:

- Replace a deformed or damaged clips.
- Always clamp the side air bag module harness to the right place and right route.

 : Clip



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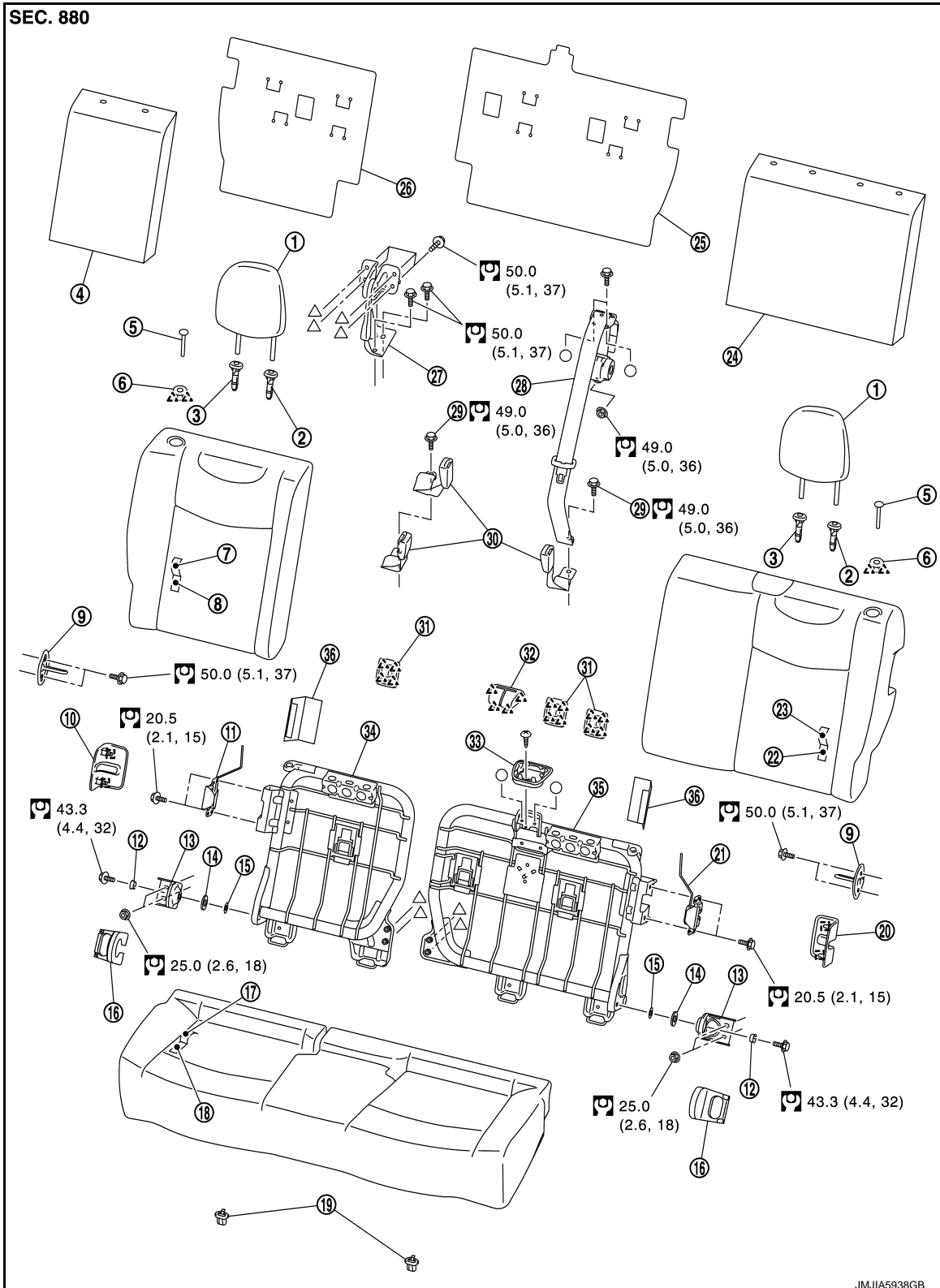
REAR SEAT

< REMOVAL AND INSTALLATION >

REAR SEAT

Exploded View

INFOID:000000006956474




JMJIA5938GB

- | | | |
|-------------------------|-----------------------------|----------------------------|
| 1. Headrest | 2. Headrest holder (locked) | 3. Headrest holder (free) |
| 4. Seatback silencer RH | 5. Seatback lock knob | 6. Seat lock knob finisher |
| 7. Seatback trim | 8. Seatback pad | 9. Striker assembly |


REAR SEAT

< REMOVAL AND INSTALLATION >

- | | | |
|----------------------------------|--------------------------------|-----------------------------------|
| 10. Seatback lock cover RH | 11. Seatback lock assembly RH | 12. Bush |
| 13. Seatback side hinge assembly | 14. Spacer | 15. Lock washer |
| 16. Seat hinge cover | 17. Seat cushion trim | 18. Seat cushion pad |
| 19. Seat cushion hook | 20. Seatback lock cover LH | 21. Seatback lock assembly LH |
| 22. Seatback pad LH | 23. Seatback trim LH | 24. Seatback silencer LH |
| 25. Seatback support LH | 26. Seatback support RH | 27. Seatback center hinge |
| 28. Center seat belt assembly | 29. Anchor bolt | 30. Seat belt buckle |
| 31. ISO FIX tether cover | 32. Center seat belt finisher | 33. Center seat belt cover |
| 34. Seatback frame assembly RH | 35. Seatback frame assembly LH | 36. Seatback lock assembly carpet |

 : Pawl

 : Metal clip

 : N·m (kg-m, ft-lb)

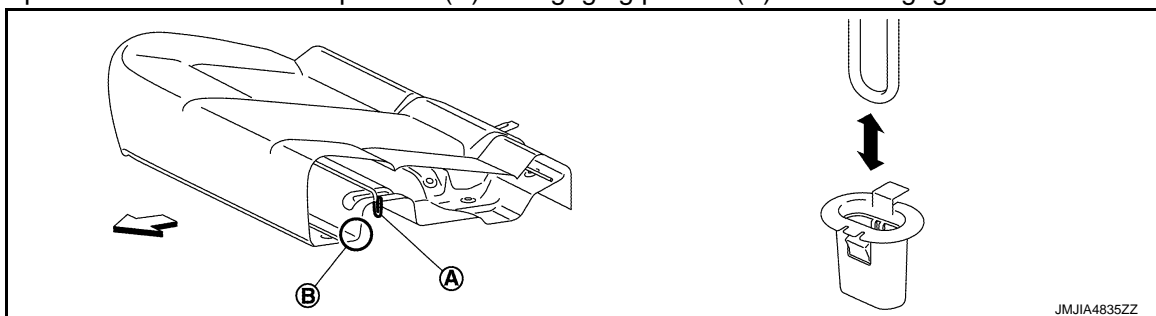
SEAT CUSHION

SEAT CUSHION : Removal and Installation

INFOID:000000006956475

REMOVAL

1. Lift up seat cushion at a close position (B) of engaging portion (A) and disengage seat cushion hook.



 : Vehicle front

CAUTION:

Seat cushion wire close to engaging portion deforms, if excessive force is applied to seat cushion front end when removing seat cushion.

To avoid the deformation, be careful to remove seat cushion while applying force to close position, as much as possible, of engaging portion.

2. Pull out seat belt buckle from seat cushion.
3. Remove seat cushion from the vehicle.

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

INSTALLATION

Note the following item, and install in the reverse order of removal.

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

SEAT CUSHION : Disassembly and Assembly

INFOID:000000006956476

DISASSEMBLY

Remove hog rings, and separate the seat cushion trim and seat cushion pad.

CAUTION:

Before performing separating operation, check the installation position of hog rings.

ASSEMBLY

Note the following item, and assemble in the reverse order of disassembly.

CAUTION:

Always install the hog ring in position.

REAR SEAT

< REMOVAL AND INSTALLATION >

SEATBACK

SEATBACK : Removal and Installation

INFOID:000000006956477

LH SIDE SEATBACK

Removal

CAUTION:

Remove seatback with seat cushion installed.

1. Temporarily move seat cushion to the position where center anchor of center seat belts can be removed.
2. Remove center anchor mounting bolt of center seat belt. Remove center anchor.
3. Return seat cushion to the normal position.
4. Unlock seatback lock assembly. Tilt seatback toward vehicle front. Remove headrests.
5. Fold seatback toward vehicle front.
6. Pull up seatback carpet. Remove mounting bolts of seatback center hinge portion.
7. Remove mounting nuts of seatback side hinge portion.
8. Remove seatback from the vehicle.

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

Installation

Note the following items, and install in the reverse order of removal.

CAUTION:

- **When removing and installing, use shop cloths to protect parts from damage.**
- **Install seat cushion to the vehicle, and then install seatback.**
- **Temporarily tighten bolts, fold up seatback, check that lock and striker do not interfere, and then tighten bolts.**

RH SIDE SEATBACK

Removal

CAUTION:

Remove seatback with seat cushion installed.

1. Unlock seatback lock assembly. Tilt seatback toward vehicle front. Remove headrests.
2. Fold seatback toward vehicle front.
3. Pull up seatback carpet. Remove mounting bolts of seatback center hinge portion.
4. Remove mounting nuts of seatback side hinge portion.
5. Remove seatback from the vehicle.

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

Installation

Note the following items, and install in the reverse order of removal.

CAUTION:

- **When removing and installing, use shop cloths to protect parts from damage.**
- **Install seat cushion to the vehicle, and then install seatback.**
- **Temporarily tighten bolts, fold up seatback, check that lock and striker do not interfere, and then tighten bolts.**

SEATBACK : Disassembly and Assembly

INFOID:000000006956478

DISASSEMBLY


LH side seatback

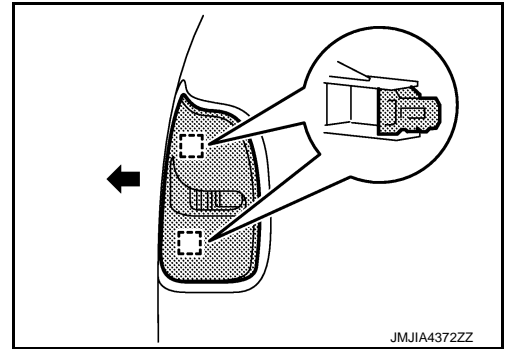
1. Remove headrest holder.

REAR SEAT


< REMOVAL AND INSTALLATION >

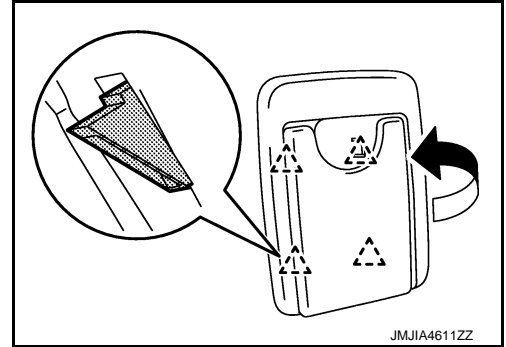
1. Pull seatback lock cover in direction indicated by the arrow as shown in the figure and then remove seatback lock cover.

 : Metal clip

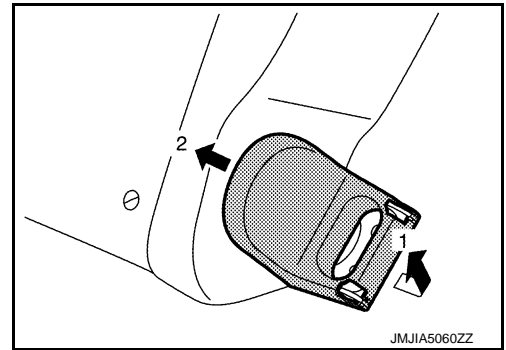


2. Pull ISO FIX tether cover in direction indicated by the arrow as shown in the figure and then remove tether cover.

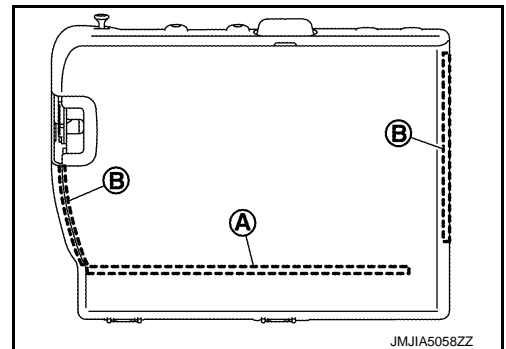
 : Pawl



3. Pull side hinge cover in direction indicated by the arrow as shown in the figure and then remove side hinge cover.



4. Remove seatback retainer (A) and open seatback fastener (B).



5. Remove seatback support.

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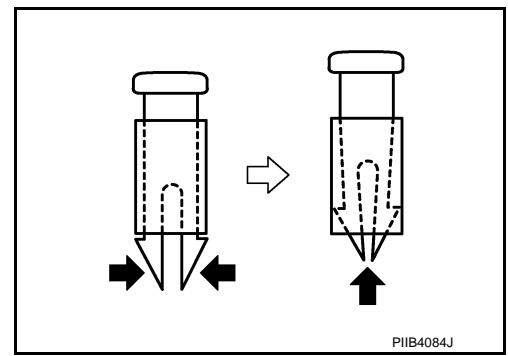
REAR SEAT

< REMOVAL AND INSTALLATION >

6. Use pincers, etc., to press up pawls as shown by the arrows in the figure, and remove headrest holder from seatback.

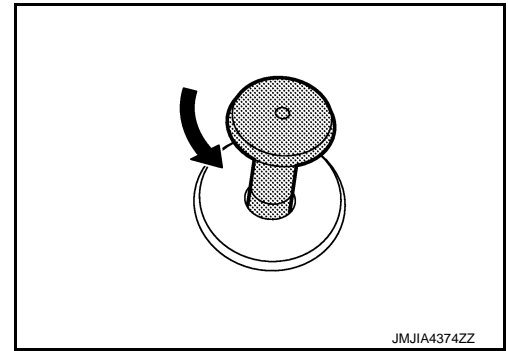
CAUTION:

Before installing headrest holder check its orientation. (front/rear and right/left)



2. Remove seatback lock knob finisher.

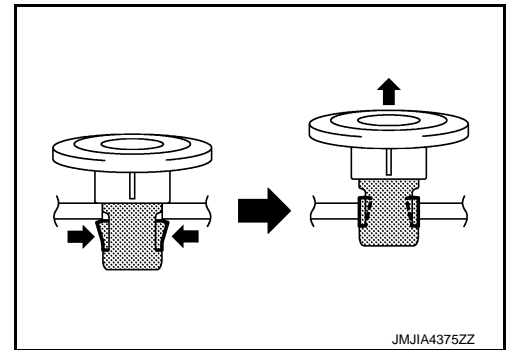
1. Rotate seatback lock knob counterclockwise. Remove seatback lock knob.



2. Push up seatback lock knob finisher while pressing pawls indicated by arrows as shown in the figure. Remove seatback lock finisher from seatback.


CAUTION:

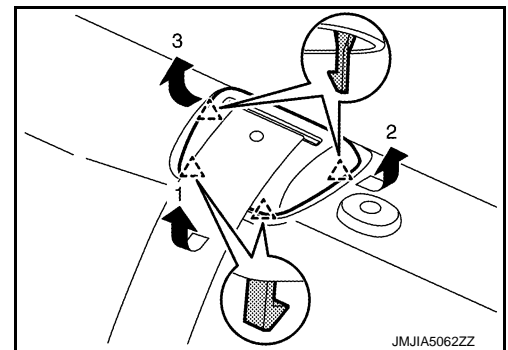
When installing seatback lock knob finisher, check front and rear orientation and be careful to install it normally.



3. Remove center seat belt finisher from seatback.

1. Lift up front of center seat belt finisher. Disengage front pawls.
2. Pull center seat belt finisher toward seat front. Disengage rear pawls.

 : Pawl



4. Remove seatback trim and seatback pad from seatback frame.
5. Remove hog rings, and separate the seatback trim and seatback pad.

CAUTION:

Before performing separating operation, check the installation position of hog rings.

6. Remove seatback silencer from seatback frame.
7. Remove seatback lock assembly mounting bolts, and then remove seatback lock assembly from seatback frame.


REAR SEAT

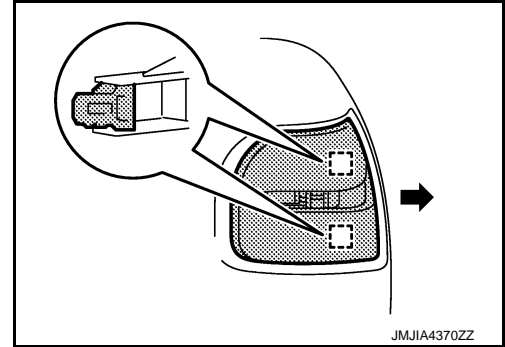
< REMOVAL AND INSTALLATION >

8. Remove center seat belt retractor mounting bolts, and then remove center seat belt retractor from seat-back frame.


RH side seatback

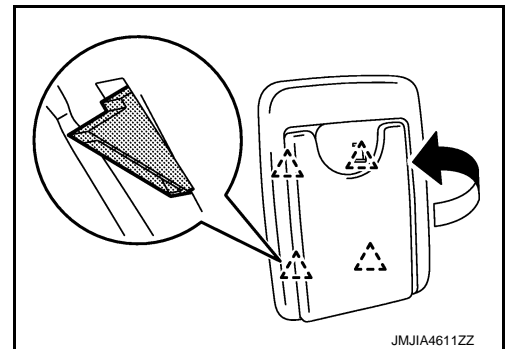
1. Remove headrest holder.
 1. Pull seat lock cover in direction indicated by the arrow as shown in the figure. Remove seat lock cover.

 : Metal clip

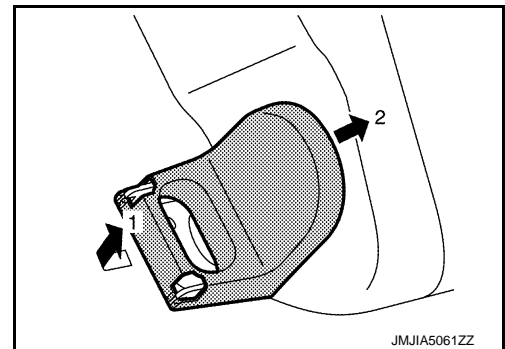


2. Pull tether cover in direction indicated by the arrow as shown in the figure. Remove tether cover.

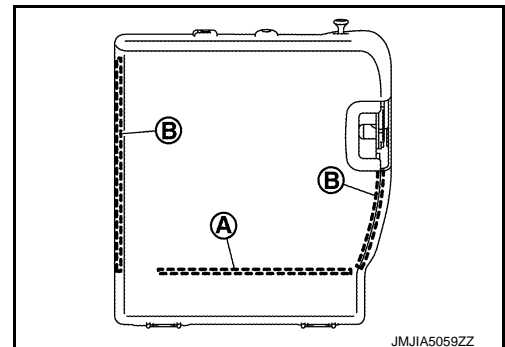
 : Pawl



3. Pull side hinge cover in direction indicated by the arrow as shown in the figure and then remove side hinge cover.



4. Remove seatback retainer (A) and open seatback fastener (B).



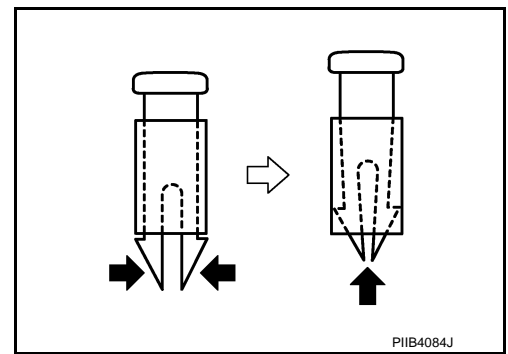
5. Remove seatback support.

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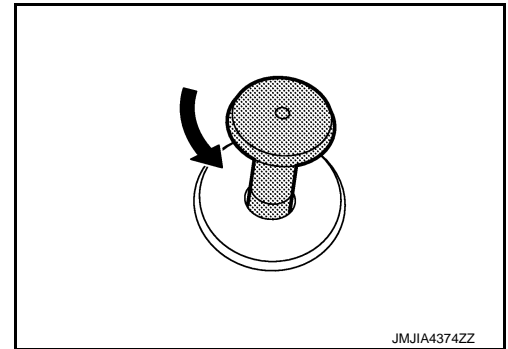
REAR SEAT

< REMOVAL AND INSTALLATION >

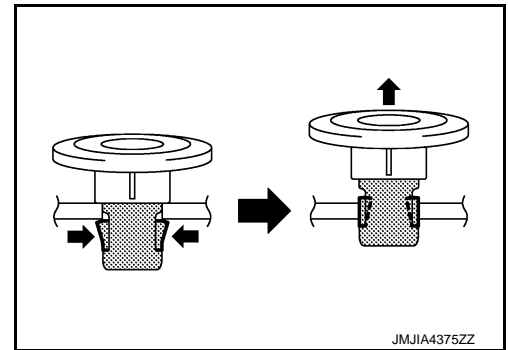
6. Use pincers, etc., to press up pawls as shown by the arrows in the figure, and remove headrest holder from seatback.
CAUTION:
Before installing headrest holder check its orientation. (front/rear and right/left)



2. Remove seatback lock knob finisher.
 1. Rotate seatback lock knob counterclockwise. Remove seatback lock knob.



2. Push up seatback lock knob finisher while pressing pawls indicated by arrows as shown in the figure. Remove seatback lock finisher from seatback.
CAUTION:
When installing seatback lock knob finisher, check front and rear orientation and be careful to install it normally.



3. Remove seatback trim and seatback pad from seatback frame.
4. Remove hog rings, and separate the seatback trim and seatback pad.
CAUTION:
Before performing separating operation, check the installation position of hog rings.
5. Remove seatback silencer from seatback frame.
6. Remove seatback lock assembly mounting bolts, and then remove seatback lock assembly from seatback frame.

INSTALLATION

Note the following, and assemble in the reverse order of disassembly.

CAUTION:
Always install the hog ring in position.
SEATBACK HINGE

SEATBACK HINGE : Removal and Installation

INFOID:000000006956479

CENTER HINGE

Removal

1. Remove seatback LH and RH from the vehicle.
Refer to [SE-24, "SEATBACK : Removal and Installation"](#).

REAR SEAT

< REMOVAL AND INSTALLATION >

2. Remove seat cushion from the vehicle.
Refer to [SE-23, "SEAT CUSHION : Removal and Installation"](#).
3. Remove center hinge mounting bolts, and then remove center hinge from the vehicle.

Installation

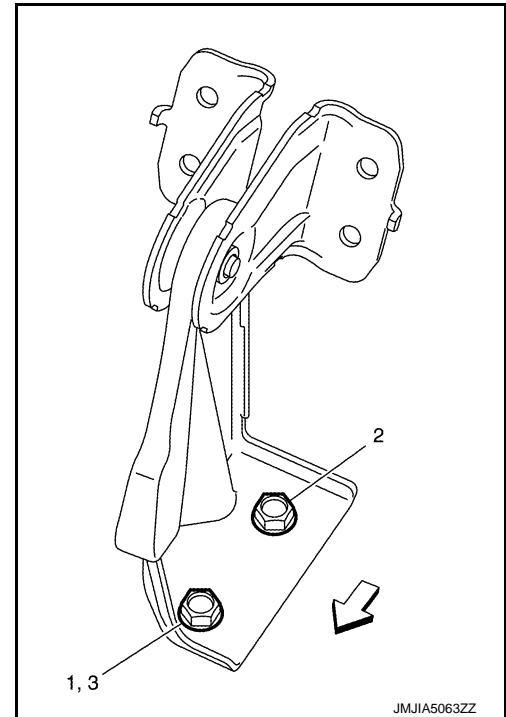
Note the following items, and install in the reverse order of removal.

CAUTION:

When installing center hinge, tighten mounting bolts to the specified torque according to the numerical order as shown in the figure

1. Temporarily tighten mounting bolt (1).
2. Tighten mounting bolts in numerical order (2 and 3 as shown in the figure) to the specified torque.
For the specified torque, refer to [SE-22, "Exploded View"](#).

← : Vehicle front



SIDE HINGE

Removal

1. Remove seatback from the vehicle.
Refer to [SE-24, "SEATBACK : Removal and Installation"](#).
2. Remove side hinge mounting bolt, and then remove side hinge from luggage side lower finisher.

Installation

Installation is the reverse order of removal. Tighten bolts to the specified torque.

For the specified torque, refer to [SE-22, "Exploded View"](#).

SEATBACK STRIKER

SEATBACK STRIKER : Removal and Installation

INFOID:000000006956480

REMOVAL

1. Remove seatback from the vehicle.
Refer to [SE-24, "SEATBACK : Removal and Installation"](#).
2. Remove seat cushion from the vehicle.
Refer to [SE-23, "SEAT CUSHION : Removal and Installation"](#).
3. Remove mounting anchor bolts of outer anchor of seat belt, and then remove outer anchor.
4. Remove luggage side lower front finisher from the vehicle.
Refer to [INT-35, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
5. Remove mounting bolts of striker, and then remove striker from the vehicle.

INSTALLATION

Note the following, and install in the reverse order of removal.

CAUTION:

REAR SEAT

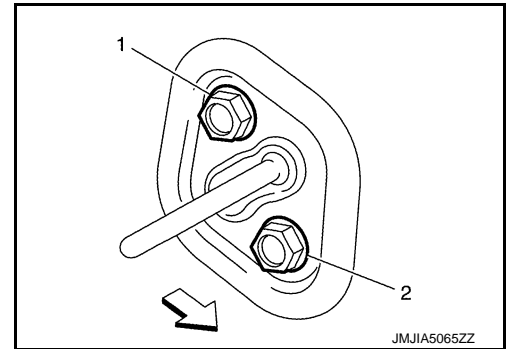
< REMOVAL AND INSTALLATION >

When installing striker, tighten mounting bolts to the specified torque according to the numerical order as shown in the figure.

For the specified torque, refer to [SE-22, "Exploded View"](#).

• LH side

← : Vehicle front



• RH side

← : Vehicle front

