

SECTION **SB**
SEAT BELT SYSTEM

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000006390939

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Seat Belt Service

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CAUTION:

- Before removing the front seat belt pre-tensioner assembly, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Do not use electrical test equipment for front seat belt pre-tensioner connector.
- After replacing or reinstalling front seat belt pre-tensioner assembly, or reconnecting front seat belt pre-tensioner connector, check the system function. Refer to [SRC-12, "SRS Operation Check"](#).
- Do not disassemble buckle or seat belt assembly.
- Replace anchor bolts if they are deformed or worn out.
- Never oil tongue and buckle.
- If any component of seat belt assembly is questionable, do not repair. Replace the whole seat belt assembly.
- If webbing is cut, frayed, or damaged, replace seat belt assembly.
- When replacing seat belt assembly, use a genuine NISSAN seat belt assembly.

Precautions Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000006931376

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.

PRECAUTIONS

< PRECAUTION >

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. A
NOTE:
Supply power using jumper cables if battery is discharged. B
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.) C
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned. D
4. Perform the necessary repair operation. E
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.) F
6. Perform self-diagnosis check of all control units using CONSULT. G

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COMPONENT INSPECTION

< BASIC INSPECTION >

BASIC INSPECTION

COMPONENT INSPECTION

Inspection

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AFTER A COLLISION

WARNING:

Inspect all seat belt assemblies including retractors and attaching hardware after any collision. NISSAN/INFINITI recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Failure to do so could result in serious personal injury in an accident. Seat belt assemblies not in use during a collision should also be replaced if either damage or improper operation is noted. Seat belt pre-tensioner should be replaced even if the seat belts are not in use during a frontal collision in which the air bags are deployed.

Replace any seat belt assembly (including anchor bolts) if:

- The seat belt was in use at the time of a collision (except for minor collisions and the belts, retractors and buckles show no damage and continue to operate properly).
- The seat belt was damaged in an accident. (i.e. torn webbing, bent retractor or guide, etc.)
- The seat belt attaching point was damaged in an accident. Inspect the seat belt attaching area for damage or distortion and repair as necessary before installing a new seat belt assembly.
- Anchor bolts are deformed or worn out.
- The seat belt pre-tensioner should be replaced even if the seat belts are not in use during the collision in which the air bags are deployed.

PRELIMINARY CHECKS

1. Check the seat belt warning lamp/chime for proper operation as follows:
 - a. Switch ignition ON. The seat belt warning lamp should illuminate. Also, the seat belt warning chime should sound for about six seconds.
 - b. Fasten driver's seat belt. The seat belt warning lamp should go out and the chime (if sounding) should stop.
2. If the air bag warning lamp is blinking, conduct self-diagnosis using CONSULT, and air bag warning lamp. Refer to [SRC-12, "SRS Operation Check"](#).
3. Check that the seat belt retractor, seat belt anchor and buckle bolts are securely attached.
4. Check the shoulder seat belt guide and shoulder belt height adjuster for front seats. Make sure guide swivels freely and that webbing lays flat and does not bind in guide. Make sure height adjuster operates properly and holds securely.
5. Check retractor operation:
 - a. Fully extend the seat belt webbing and check for twists, tears or other damage.
 - b. Allow the seat belt to retract. Make sure that webbing returns smoothly and completely into the retractor. If the seat belt does not return smoothly, wipe the inside of the loops with a clean paper cloth. Dirt built up in the loops of the upper anchors can cause the seat belts to retract slowly.
 - c. Fasten the seat belt. Check that the seat belt returns smoothly and completely to the retractor. If the webbing does not return smoothly, the cause may be an accumulation of dust or dirt. Use the "SEAT BELT TAPE SET" and perform the following steps.

Inspect the front seat belt through-anchor

1. Pull the seat belt out to a length of 500 mm (19.69 in) or more.
2. Use a clip or other device to hold the seat belt at the center pillar webbing opening.
3. Pass a thin wire through the through-anchor webbing opening. Hold both ends of the wire and pull it taut while moving it up and down several times along the webbing opening surface to move matter stuck there.
4. Any dirt that can not be removed with the wire can be removed by cleaning the opening with a clean cloth.
5. Apply tape at the point where the webbing contacts the through-anchor webbing opening.

NOTE:
Apply the tape so that there is no looseness or wrinkling.
6. Remove the clip holding the seat belt and check that the webbing returns smoothly.

COMPONENT INSPECTION

< BASIC INSPECTION >

- Repeat steps above as necessary to check the other seat belts.

SEAT BELT RETRACTOR ON-VEHICLE CHECK

Emergency Locking Retractors (ELR) and Automatic Locking Retractors (ALR)

NOTE:

All seat belt retractors are of the Emergency Locking Retractors (ELR) type. In an emergency (sudden stop) the retractor will lock and prevent the webbing from extending any further. All 3-point type seat belt retractors except the driver's seat belt also have an Automatic Locking Retractors (ALR) mode. The ALR mode (also called child restraint mode) is used when installing child seats. The ALR mode is activated when the seat belt is fully extended. When the webbing is then retracted partially, the ALR mode automatically locks the seat belt in a specific position so the webbing cannot be extended any further. To cancel the ALR mode, allow the seat belt to fully wind back into the retractor.

Check the seat belt retractors using the following test(s) to determine if a retractor assembly is operating properly.

ELR Function Stationary Check

Grasp the shoulder webbing and pull forward quickly. The retractor should lock and prevent the belt from extending further.

ALR Function Stationary Check

- Pull out entire length of seat belt from retractor until a click is heard.
- Retract the webbing partially. A clicking noise should be heard as the webbing retracts indicating that the retractor is in the Automatic Locking Retractors (ALR) mode.
- Grasp the seat belt and try to pull out the retractor. The webbing must lock and not extend any further. If NG, replace the retractor assembly.
- Allow the entire length of the webbing to retract to cancel the automatic locking mode.

ELR Function Moving Check

WARNING:

Perform the following test in a safe, open area clear of other vehicles and obstructions (for example, a large, empty parking lot). Road surface must be paved and dry. DO NOT perform the following test on wet or gravel roads or on public streets and highways. This could result in an accident and serious personal injury. The driver and passenger must be prepared to brace themselves in the event the retractor does not lock.

- Fasten driver's seat belt. Buckle a passenger into the seat for the belt that is to be tested.
- Proceed to the designated safe area.
- Drive the vehicle at approximately 16 km/h (10 MPH). Notify any passengers of a pending sudden stop and the driver and passenger must be prepared to brace themselves in the event the retractor does not lock, apply brakes firmly and make a very hard stop.

During stop, seat belts should lock and not be extended. If the seat belt retractor assembly does not lock, perform the retractor off-vehicle check.

SEAT BELT RETRACTOR OFF-VEHICLE CHECK (PILLAR MOUNTED)

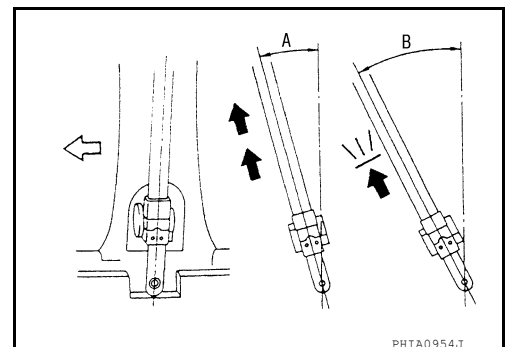
- Remove the seat belt retractor.
 - Remove the front seat belt assembly, refer to [SB-8, "Removal and Installation"](#).
- Slowly pull out webbing while tilting the retractor assembly forward from the mounted position without twisting the retractor assembly as shown in the illustration.

A : The webbing can be pulled out in case the retractor is tilted 15° degree or less.

B : The webbing can not be pulled out if the retractor is tilted 35° degrees or more.

- A and B show tilting angles.

- ← : Vehicle front.



COMPONENT INSPECTION

< BASIC INSPECTION >

Replace the seat belt assembly if it does not operate within specifications.

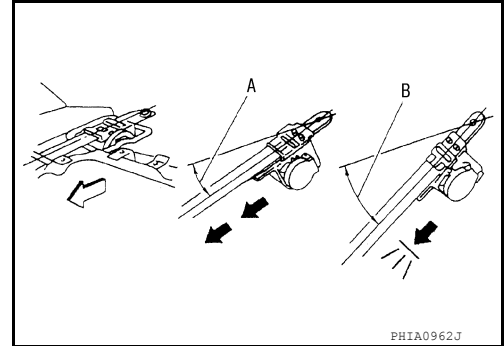
SEAT BELT RETRACTOR OFF-VEHICLE CHECK (REAR PARCEL SHELF MOUNTED)

1. Remove the seat belt retractor.
 - Remove the rear seat belt assembly, refer to [SB-12, "Removal and Installation"](#).
2. Slowly pull out webbing while tilting the retractor assembly forward from the mounted position without twisting the retractor assembly as shown in the illustration.

A : The webbing can be pulled out in case the retractor is tilted 15° degree or less.

B : The webbing can not be pulled out if the retractor is tilted 35° degrees or more.

- A and B show tilting angles.
- ⇐ : Vehicle front.



Replace the seat belt assembly if it does not operate within specifications.

FRONT SEAT BELT

< REMOVAL AND INSTALLATION >

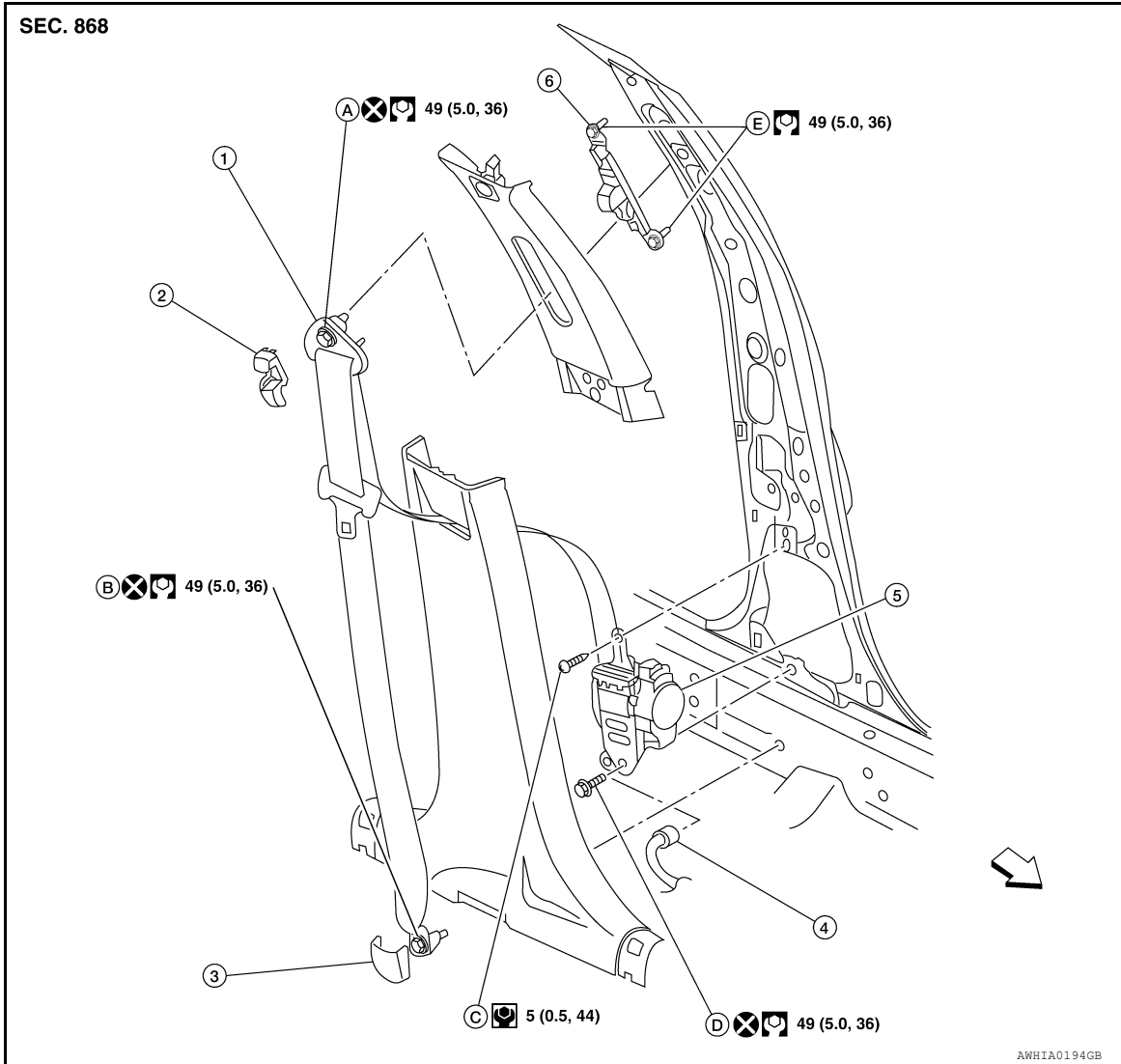
REMOVAL AND INSTALLATION

FRONT SEAT BELT

Exploded View

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Sedan Models



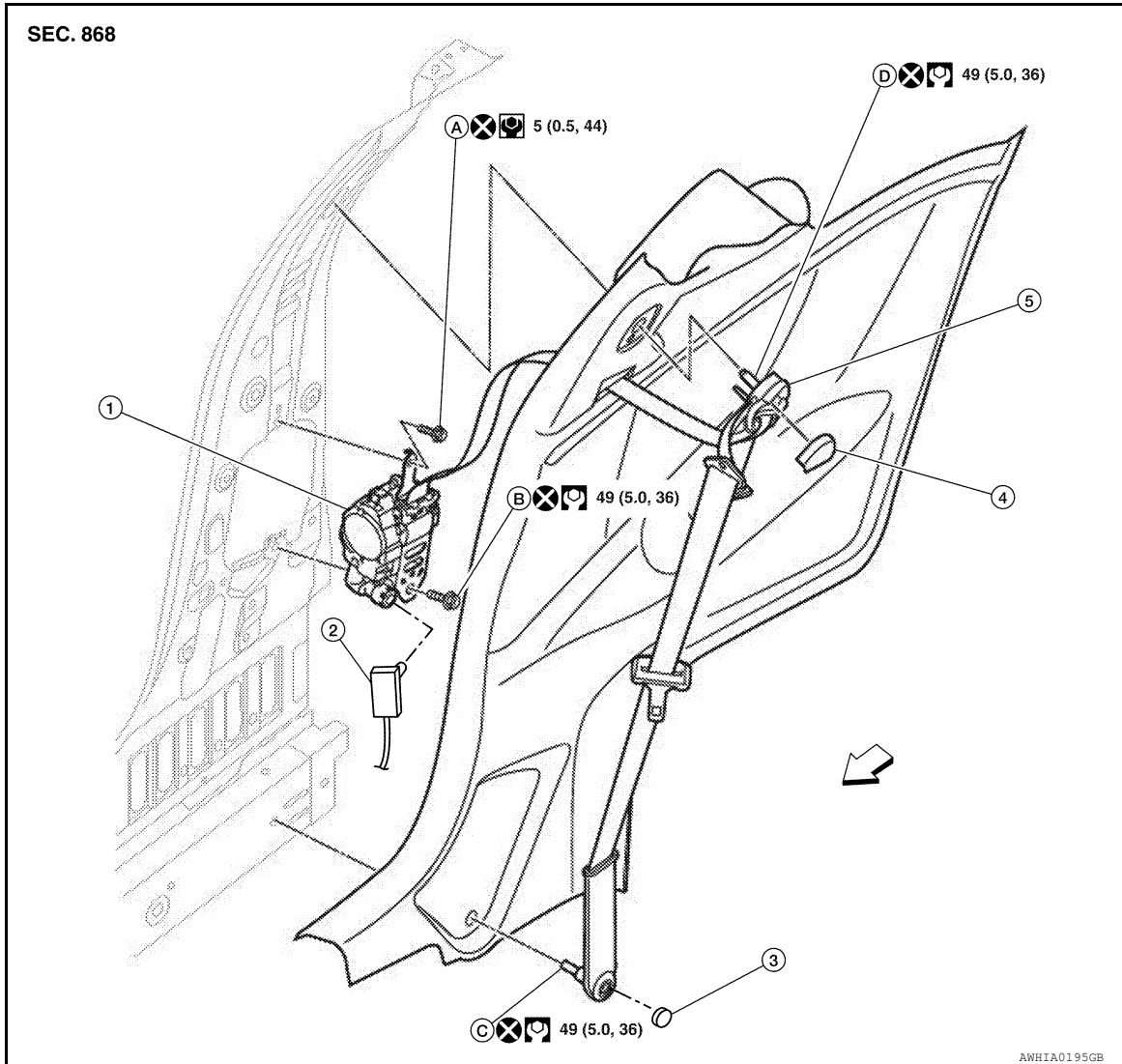
- | | | |
|--------------------------------------|------------------------|----------------------------|
| 1. D-ring anchor | 2. Adjuster cover | 3. Outer anchor bolt cover |
| 4. Seat belt pre-tensioner connector | 5. Seat belt retractor | 6. Seat belt adjuster |
| A. D-ring anchor bolt | B. Outer anchor bolt | C. Retractor screw |
| D. Retractor anchor bolt | E. Bolt | ← Vehicle front |

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FRONT SEAT BELT

< REMOVAL AND INSTALLATION >

Coupe Models



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|-----------------------------|--------------------------------------|-----------------------|
| 1. Seat belt retractor | 2. Seat belt pre-tensioner connector | 3. Anchor bolt cover |
| 4. D-ring anchor bolt cover | 5. D-ring assembly | A. Retractor screw |
| B. Retractor anchor bolt | C. Anchor bolt | D. D-ring anchor bolt |
- ↶ Vehicle front

Removal and Installation

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SEAT BELT RETRACTOR - SEDAN

Removal

CAUTION:

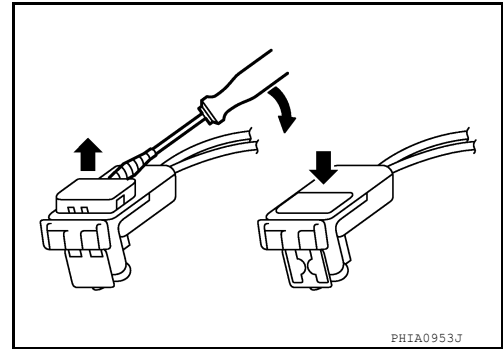
Before servicing SRS, turn the ignition switch off, disconnect both negative and positive battery terminals, then wait at least three minutes.

1. Disconnect both negative and positive battery terminals, then wait at least three minutes.
2. Release the pawl, then remove outer anchor bolt cover and outer anchor bolt.
3. Remove front and rear door welts and kicking plates. Refer to [INT-18, "Removal and Installation"](#).
4. Remove center pillar lower finisher. Refer to [INT-18, "Removal and Installation"](#).
5. Remove D-ring anchor bolt from seat belt adjuster.
6. Remove seat belt retractor.

FRONT SEAT BELT

< REMOVAL AND INSTALLATION >

- Disconnect the seat belt pre-tensioner connector.
CAUTION:
 - For installing/removing seat belt pre-tensioner connector, insert a thin screwdriver wrapped with tape into the notch; lift locking tab then remove connector.
 - Install connector with lock raised, then push locking tab into connector.



- Remove screw and retractor anchor bolt, then remove seat belt retractor from center pillar.

Installation

Installation is in the reverse order of removal.

- Always perform an inspection after repair to be sure the system is functioning within specifications. Refer to [SB-4. "Inspection"](#).

SEAT BELT RETRACTOR - COUPE

Removal

CAUTION:

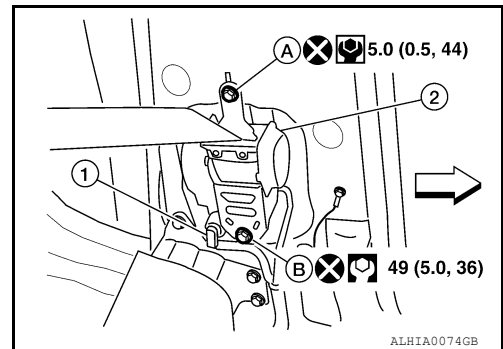
Before servicing SRS, turn the ignition switch off, disconnect both negative and positive battery terminals, then wait at least three minutes.

1. Disconnect both negative and positive battery terminals, then wait at least three minutes.
2. Remove the rear seat cushion and seat back. Refer to [SE-23. "Removal and Installation"](#).
3. Remove door welt and kicking plate. Refer to [INT-44. "Removal and Installation"](#).
4. Release the pawl and remove anchor bolt cover, then remove lower anchor bolt.
5. Release the D-ring anchor bolt cover, then remove D-ring anchor bolt from center pillar.
6. Remove rear lower finisher. Refer to [INT-44. "Removal and Installation"](#).
7. Disconnect seat belt pre-tensioner connector (1).

↩: Vehicle front

CAUTION:

- For installing/removing seat belt pre-tensioner connector, insert a thin screwdriver wrapped with tape into the notch; lift locking tab then remove connector.
 - Install connector with lock raised, then push locking tab into connector.
8. Remove seat belt retractor screw (A) and retractor anchor bolt (B), then remove seat belt retractor (2) from center pillar.



Installation

Installation is in the reverse order of removal.

- Always perform an inspection after repair to be sure the system is functioning within specifications. Refer to [SB-4. "Inspection"](#).

SEAT BELT BUCKLE

Removal

CAUTION:

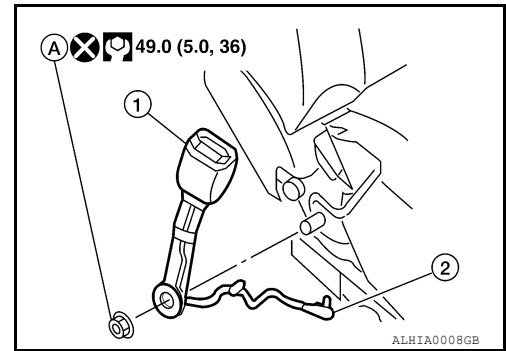
Before servicing SRS, turn the ignition switch off, disconnect both negative and positive battery terminals, then wait at least three minutes.

1. Disconnect the negative and positive battery terminals, then wait at least three minutes.
2. Remove the front seat from the vehicle. Refer to [SE-18. "Removal and Installation"](#) (Coupe), [SE-66. "Removal and Installation"](#) (Sedan).

FRONT SEAT BELT

< REMOVAL AND INSTALLATION >

3. Remove anchor nut (A) from the seat belt buckle (1).
4. Disconnect the seat belt buckle harness connector (2), release the harness clip(s), then remove the seat belt buckle (1).



Installation

Installation is in the reverse order of removal.

- Always perform an inspection after repair to be sure the system is functioning within specifications. Refer to [SB-4. "Inspection"](#).

REAR SEAT BELT

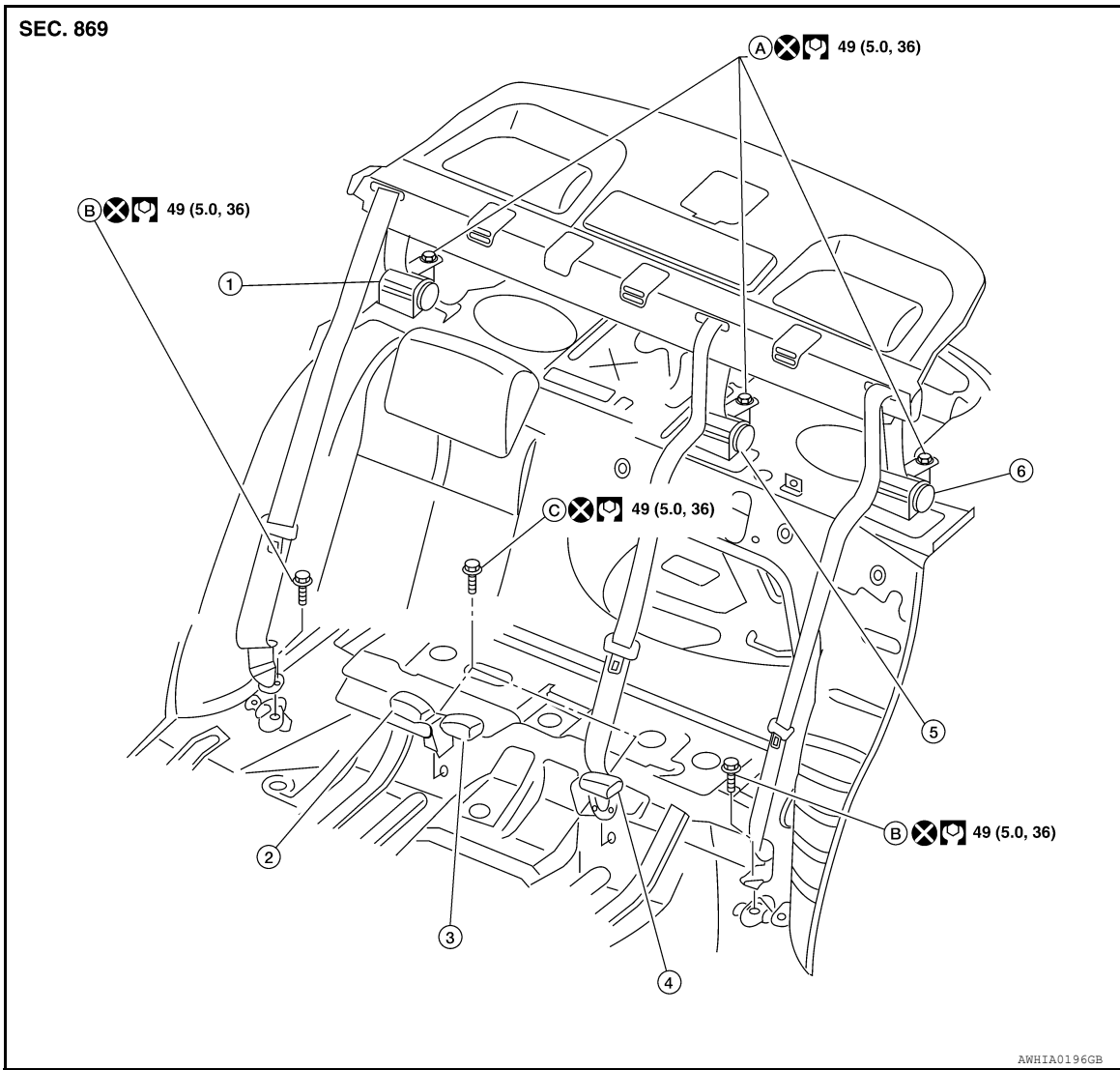
< REMOVAL AND INSTALLATION >

REAR SEAT BELT

Exploded View

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Sedan Models



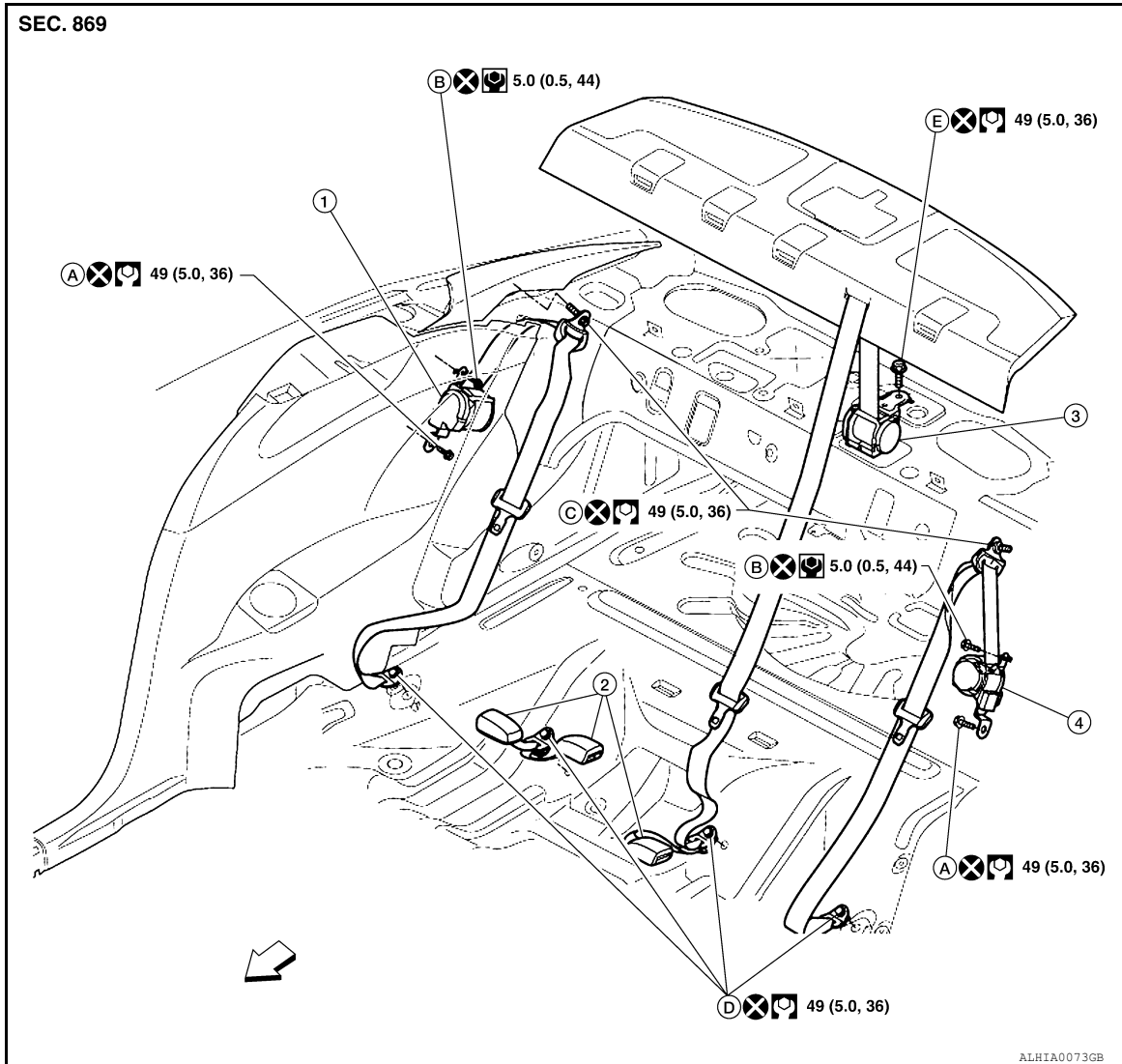
- | | | |
|---------------------------|-------------------------------|----------------------------|
| 1. Seat belt retractor RH | 2. Seat belt buckle RH | 3. Seat belt buckle center |
| 4. Seat belt buckle LH | 5. Seat belt retractor center | 6. Seat belt retractor LH |
| A. Retractor anchor bolt | B. Outer anchor bolt | C. Buckle anchor bolt |

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REAR SEAT BELT

< REMOVAL AND INSTALLATION >

Coupe Models



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|---------------------------------|--------------------------|---------------------------------|
| 1. Seat belt retractor outer RH | 2. Seat belt buckle | 3. Seat belt retractor center |
| 4. Seat belt retractor outer LH | A. Retractor anchor bolt | B. Retractor screw |
| C. D-ring anchor bolt | D. Anchor bolt | E. Retractor anchor bolt center |
- ↶ Vehicle front

Removal and Installation

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SEAT BELT RETRACTOR (SEDAN)

Removal

1. Remove the rear parcel shelf finisher. Refer to [INT-22, "Removal and Installation - Rear Parcel Shelf Finisher"](#) (Sedan).
2. Remove the outer anchor bolt (outer belt retractor) or buckle anchor bolt (center belt retractor).
3. Remove retractor anchor bolt, then remove seat belt retractor.

Installation

Installation is in the reverse order of removal.

- Always perform an inspection after repair to be sure the system is functioning within specifications. Refer to [SB-4, "Inspection"](#).

SEAT BELT RETRACTOR (COUPE OUTER)

Removal

REAR SEAT BELT

< REMOVAL AND INSTALLATION >

1. Remove the rear parcel shelf finisher. Refer to [INT-46. "Removal and Installation"](#).
2. Remove the anchor bolt, then remove D-ring anchor bolt.
3. Remove retractor screw and retractor anchor bolt, then remove seat belt retractor outer.

Installation

Installation is in the reverse order of removal.

- Always perform an inspection after repair to be sure the system is functioning within specifications. Refer to [SB-4. "Inspection"](#).

SEAT BELT RETRACTOR (COUPE CENTER)

Removal

1. Remove the rear parcel shelf finisher. Refer to [INT-46. "Removal and Installation"](#).
2. Remove the anchor bolt.
3. Remove the retractor anchor bolt, then remove seat belt retractor center.

Installation

Installation is in the reverse order of removal.

- Always perform an inspection after repair to be sure the system is functioning within specifications. Refer to [SB-4. "Inspection"](#).

SEAT BELT BUCKLE

Removal

1. Remove the rear seat cushion. Refer to [SE-73. "Removal and Installation"](#) for sedan, or [SE-23. "Removal and Installation"](#) for coupe.
2. Remove buckle anchor bolt, then remove the seat belt buckle. Refer to [SB-11. "Exploded View"](#).

Installation

Installation is in the reverse order of removal.

- Always perform an inspection after repair to be sure the system is functioning within specifications. Refer to [SB-4. "Inspection"](#).

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LATCH SYSTEM FOR CHILDREN

< REMOVAL AND INSTALLATION >

LATCH SYSTEM FOR CHILDREN

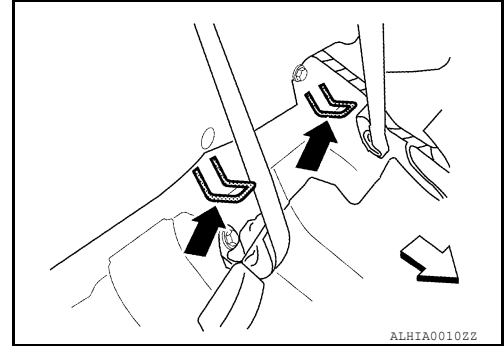
Removal and Installation

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NOTE:

The LATCH (Lower Anchors and Tether for Children) system is a built-in part of the vehicle structure, and is not servicable.

- ⇐ Vehicle front



TOP TETHER STRAP CHILD RESTRAINT

< REMOVAL AND INSTALLATION >

TOP TETHER STRAP CHILD RESTRAINT

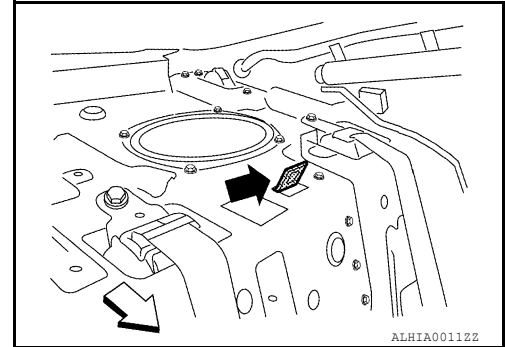
Removal and Installation

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NOTE:

The Top Tether Strap Child Restraint is a built-in part of the vehicle structure, and is not serviceable.

- ↩ Vehicle front



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