

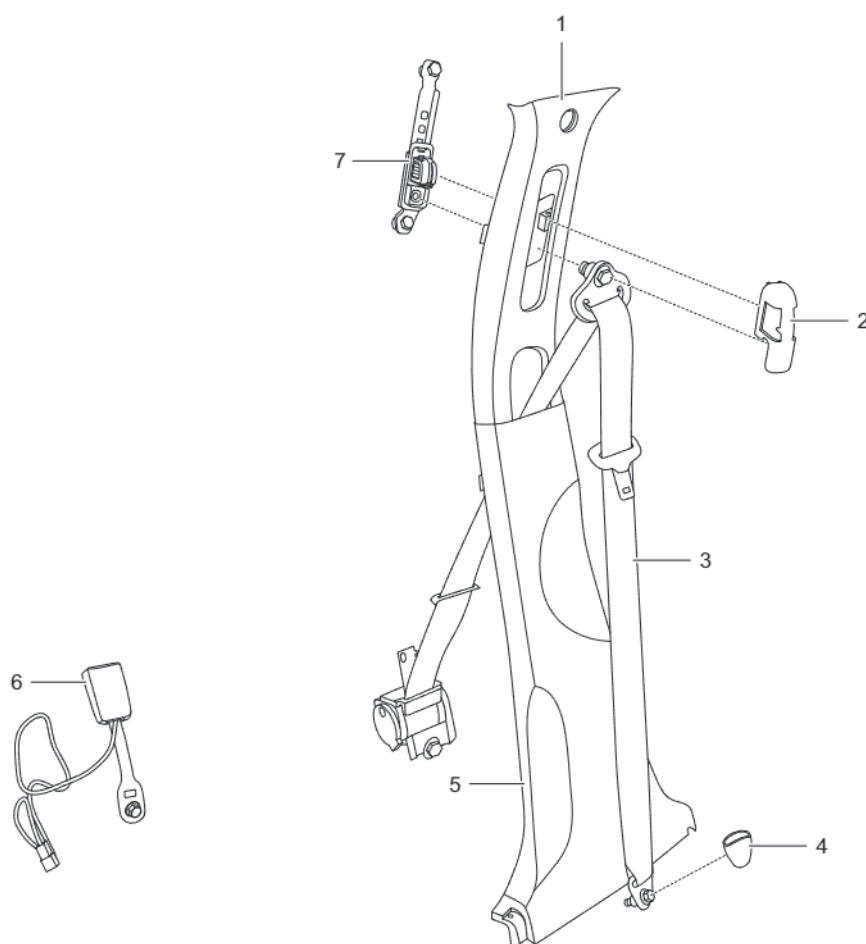
SEAT BELT

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GENERAL INFORMATION

Description

Front Seat Belt Assembly



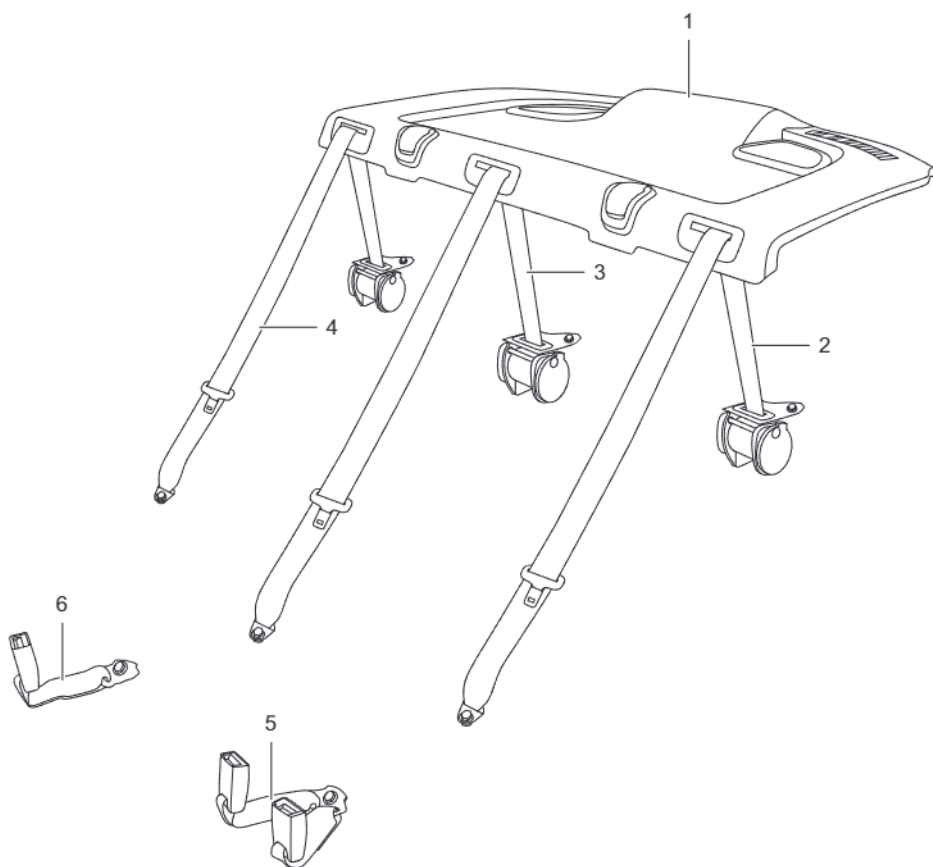
RA19310010

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1 - B-pillar Upper Protector Assembly	2 - Height Adjuster Cover
3 - Front Seat Belt Assembly	4 - Seat Belt Lower Bolt Protective Cap
5 - B-pillar Lower Protector Assembly	6 - Front Seat Belt Buckle
7 - Height Adjuster Assembly	

Rear Seat Belt Assembly

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RA19310020

1 - Tonneau Cover Assembly	2 - Rear Left Seat Belt Assembly
3 - Center Seat Belt Assembly	4 - Rear Right Seat Belt Assembly
5 - Double Buckle Assembly	6 - Rear Seat Belt Buckle Assembly

The front seat belt is a pretensioner 3 point type belt. The driver seat belt is equipped with the seat belt reminder. The reminder works when the ignition switch is turned to ON. The reminder will continue flashing to inform the driver to fasten the seat belt. The seat belt reminder will go off immediately if the seat belt is fastened.

Both rear left and right seat belts are pretensioner 3 point type belts, and the center seat belt is a 2 point type belt.

Operation

In the event of a collision, the seat belt retractor starts to work. The seat belt is locked securely and cannot be pulled out from the retractor freely, so that the passenger will be restricted to the seat to prevent the head and chest from hitting the steering wheel, instrument panel, windshield or front seat, which can reduce the risk of second collision.

Specifications

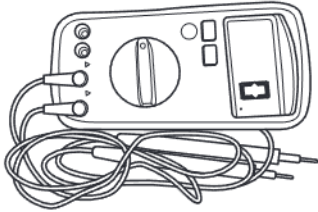
Torque Specifications

Description	Torque (N·m)
Height Adjuster Fixing Bolt	50 ± 5
Front Seat Belt Assembly Fixing Bolt	50 ± 5
Front Seat Belt Assembly Fixing Screw	3 ± 0.5
Rear Seat Belt Assembly Fixing Bolt	50 ± 5
Center Seat Belt Assembly Fixing Bolt	50 ± 5
Double Buckle Belt Assembly Fixing Bolt	50 ± 5
Front Seat Belt Buckle Fixing Bolt	50 ± 5

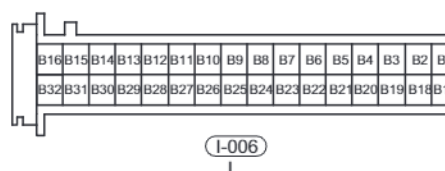
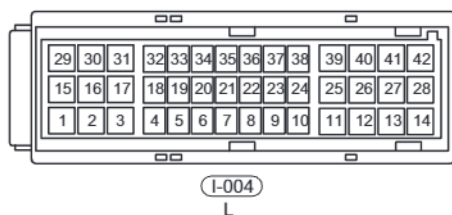
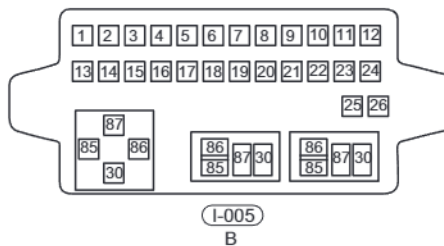
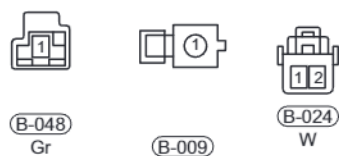
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Tool

General Tool

Digital Multimeter	 RCH0000002
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Seat Belt System Circuit Diagram



31-6



DIAGNOSIS & TESTING

Seat Belt Inspection

1. When pulling the seat belt downward slowly by hand, the seat belt should be pulled out smoothly from the retractor and can return back after releasing. If not as specified, replace the seat belt.
The seat belt should be locked automatically as it is pulled out quickly. If not, replace the seat belt.
2. Check if the seat belt has cut, wear and looseness. If damaged, replace the seat belt assembly.
3. Check if the seat had been stretched excessively (for example after accident). If damaged, replace the seat belt assembly or related components.
4. Tighten the seat belt and release the seat belt striker repeatedly to check the engagement between them. If those conditions (difficult operation, excessive sliding resistance and sticking etc.) occur, replace the seat belt assembly or seat belt striker assembly.

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WARNING

- The seat belt system should be checked regularly to reduce the possibility and serious level of injury caused by accident.
- When checking the impacted vehicle, be sure to check the seat belt system to reduce the possibility and serious level of injury caused by accident.

ON-VEHICLE SERVICE

Front Seat Belt Assembly

Removal

HINT:

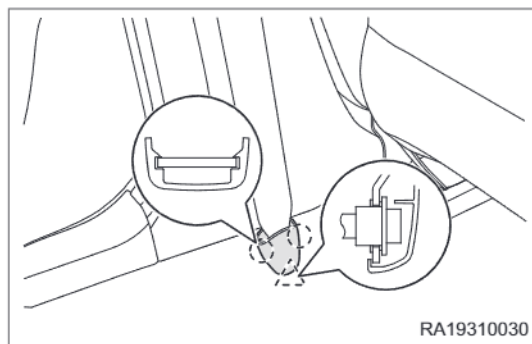
- Use the same procedures for the right side and left side.
- The procedures listed below are for the left side.

CAUTION

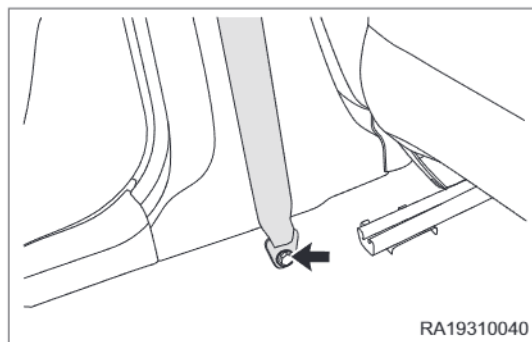
- Make sure to wear safety equipment to prevent accidents when removing the front seat belt assembly.
- Appropriate force should be applied when removing the front seat belt assembly, and avoid operating roughly.
- DO NOT scratch the interior when removing the front seat belt assembly.

1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the front left doorsill pressure plate assembly (See page 47-8).
4. Remove the front left door opening weatherstrip (See page 47-23).
5. Remove the rear left doorsill pressure plate assembly (See page 47-9).
6. Remove the rear left door opening weatherstrip (See page 47-24).
7. Remove the front left seat belt assembly.

- a. Using a screwdriver wrapped with protective tape, pry the lower bolt protective cap of front seat belt assembly.

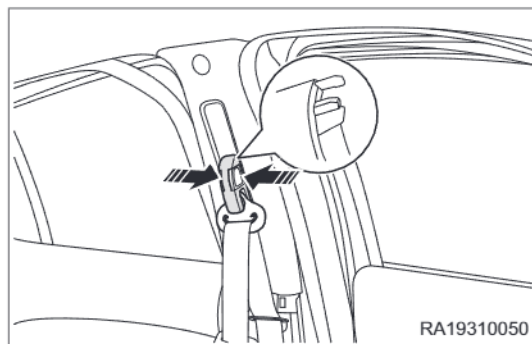


- b. Remove the fixing bolt (arrow) from the lower part of the front seat belt assembly.
(Tightening torque: 50 ± 5 N·m)

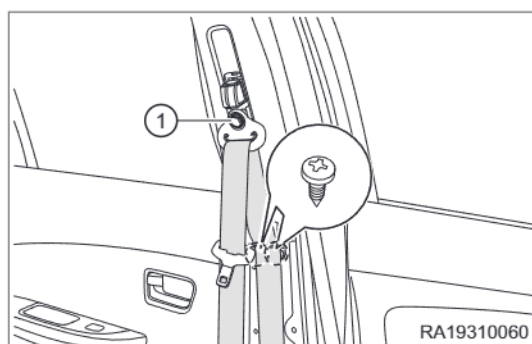


- c. Remove the left B-pillar lower protector assembly (See page 47-13).

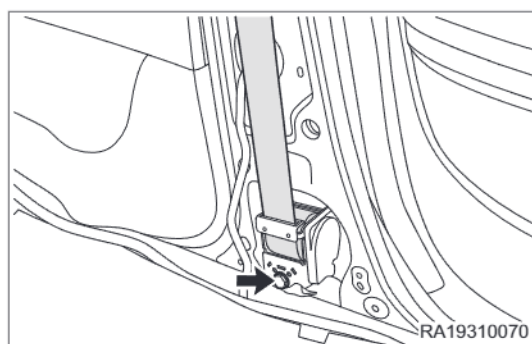
- d. Press the height adjuster button on both sides as shown in the illustration, and using a screwdriver wrapped with protective tape, remove the height adjuster cover.



- e. Remove the fixing bolt (1) from the upper part of the front seat belt assembly.
(Tightening torque: 50 ± 5 N·m)
- f. Remove 2 fixing screws from the center of the front seat belt assembly.
(Tightening torque: 3 ± 0.5 N·m)



- g. Remove the fixing bolt (arrow) from the front seat belt retractor.
(Tightening torque: 50 ± 5 N·m)



- h. Remove the front left seat belt assembly.

Inspection

Inspect the front seat belt retractor.

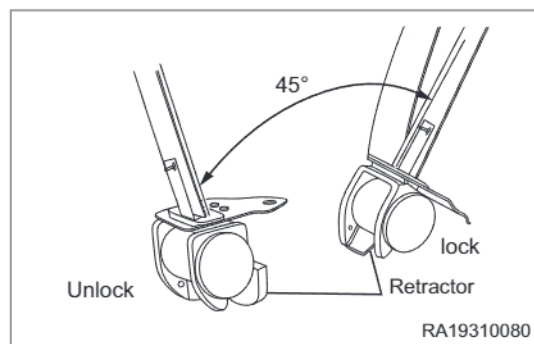
CAUTION

- DO NOT disassemble the front seat belt assembly retractor.

HINT:

When the inclination of the front seat belt retractor is 15° or less, check that the front seat belt can be pulled out from the front seat belt retractor. When the inclination of the front seat belt retractor is over 45° , check that the front seat belt locks.

If the result is not as specified, replace the front seat belt assembly.



31 Installation

Installation is in the reverse order of removal.

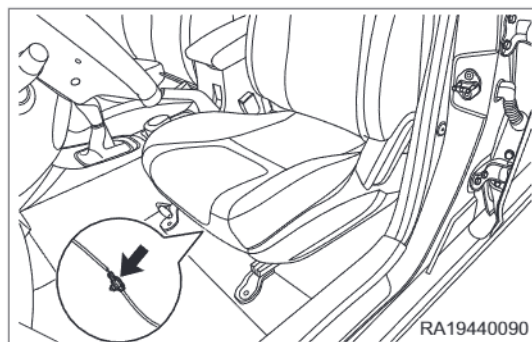
CAUTION

- Keep the seat belt assembly clean, avoid attaching oil and check the seat belt assembly for damage when installing the front seat belt assembly.
- Make sure to tighten all the fixing bolts and fixing screws according to the specified torque when installing the front seat belt assembly.

Front Seat Belt Buckle Assembly

On-vehicle Inspection

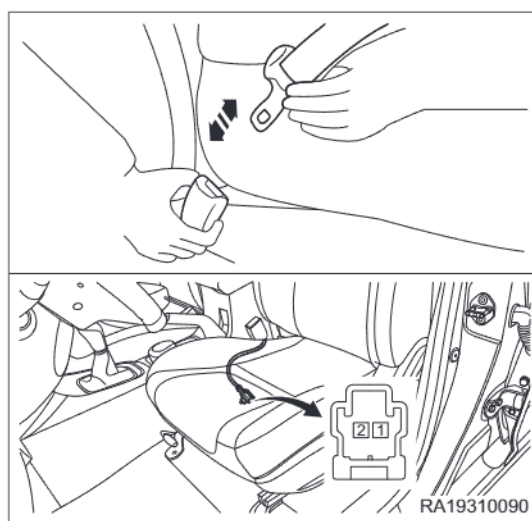
1. Check the front seat belt buckle assembly (for driver side seat).
 - a. Disconnect the front seat belt buckle connector (arrow).



- b. Using a digital multimeter, measure the resistance between terminals 1 and 2 of the front seat belt buckle assembly connector.

Under normal conditions, the measured resistance is $\infty \Omega$ (no continuity) when the front seat belt assembly is fastened; the measured resistance is less than 0Ω (continuity) when the front seat belt assembly is unfastened.

If the result is not as specified, replace the front seat belt buckle assembly.



Removal

HINT:

- Use the same procedures for the front passenger seat belt buckle assembly and driver seat belt buckle assembly.
- The procedures listed below are for the driver seat belt buckle assembly.

CAUTION

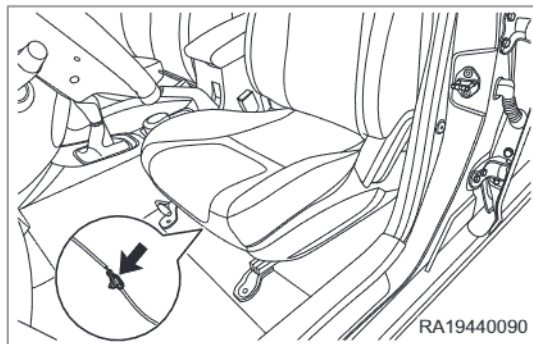
- Make sure to wear safety equipment to prevent accidents when removing the front seat belt buckle assembly.
- Avoid scratch to the interior when removing the front seat belt buckle assembly.
- Avoid damage to the wire harness and connector when removing the front seat belt buckle assembly.

1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the front seat belt buckle assembly.

HINT:

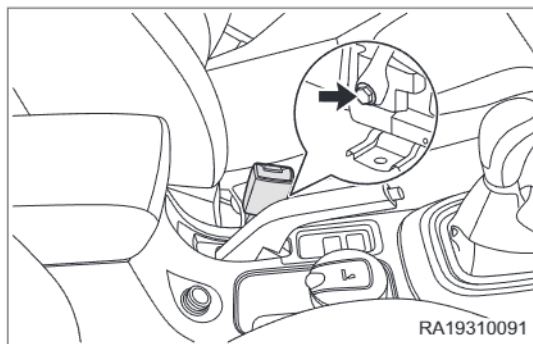
Only the driver seat belt buckle assembly is equipped with connector.

- a. Disconnect the front seat belt buckle connector (arrow).



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- b. Remove the fixing bolt (arrow) from the front seat belt buckle assembly.
(Tightening torque: 50 ± 5 N·m)



- c. Remove the front seat belt buckle assembly.

Installation

Installation is in the reverse order of removal.

CAUTION

- Make sure to tighten all the fixing bolts according to the specified torque when installing the front seat belt buckle assembly.

Height Adjuster Assembly

Removal

HINT:

- Use the same procedures for the right side and left side.
- The procedures listed below are for the left side.

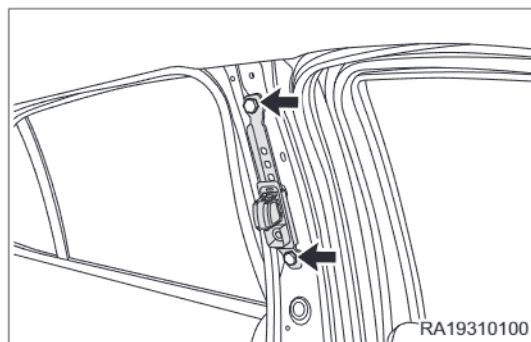
CAUTION

- Make sure to wear safety equipment to prevent accidents when removing the height adjuster assembly.
- When removing the height adjuster assembly, prevent scratching the interior.

31

1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the left B-pillar lower protector assembly ([See page 47-13](#)).
4. Remove the left B-pillar upper protector assembly ([See page 47-15](#)).
5. Remove the height adjuster assembly.

- a. Remove 2 fixing bolts (arrow) from the height adjuster assembly.
(Tightening torque: 50 ± 5 N·m)



- b. Remove the height adjuster assembly.

Installation

Installation is in the reverse order of removal.

CAUTION

- Make sure to tighten all the fixing bolts according to the specified torque when installing the height adjuster assembly.

Rear Seat Belt Assembly

Removal

HINT:

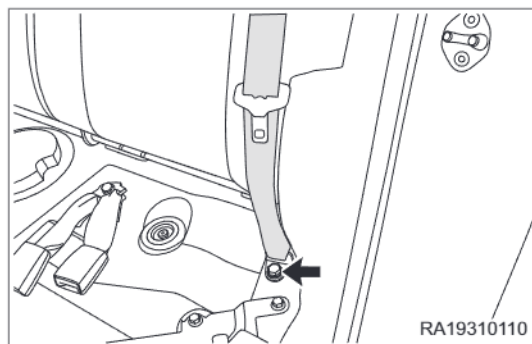
- Use the same procedures for the right side and left side.
- The procedures listed below are for the left side.

CAUTION

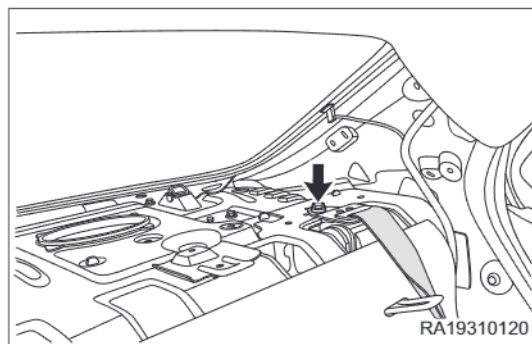
- Make sure to wear safety equipment to prevent accidents when removing the rear seat belt assembly.
- DO NOT use excessive force when removing the rear seat belt assembly. Rough operation is strictly forbidden.
- DO NOT scratch the interior when removing the rear seat belt assembly.

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1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the rear seat cushion assembly ([See page 44-14](#)).
4. Remove the rear left seat belt assembly.
 - a. Remove the fixing bolt (arrow) from the lower part of the rear seat belt assembly.
(Tightening torque: 50 ± 5 N·m)



- b. Remove the rear seatback assembly ([See page 44-15](#)).
- c. Remove the left C-pillar lower protector assembly ([See page 47-17](#)).
- d. Remove the left C-pillar upper protector assembly ([See page 47-19](#)).
- e. Remove the tonneau cover assembly ([See page 47-34](#)).
- f. Remove the fixing bolt (arrow) from the rear seat belt retractor.
(Tightening torque: 50 ± 5 N·m)



- g. Remove the rear left seat belt assembly.

Inspection

Check the rear seat belt retractor.

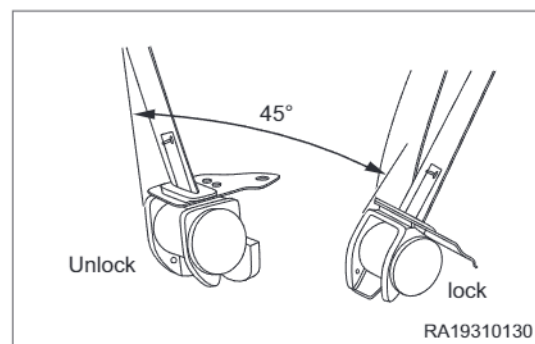
CAUTION

- DO NOT disassemble the rear seat belt retractor.

HINT:

When the inclination of the rear seat belt retractor is 15° or less, check that the rear seat belt can be pulled out from the rear seat belt retractor. When the inclination of the rear seat belt assembly retractor is over 45° , check that the rear seat belt locks.

If the result is not as specified, replace the rear seat belt assembly.



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Installation

Installation is in the reverse order of removal.

CAUTION

- Keep the seat belt assembly clean, avoid attaching oil and check the seat belt assembly for damage when installing the rear seat belt assembly.
- Make sure to tighten the fixing bolt according to the specified torque when installing the rear seat belt assembly.

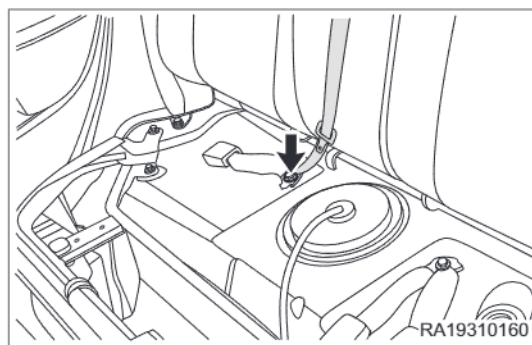
Center Seat Belt Assembly

Removal

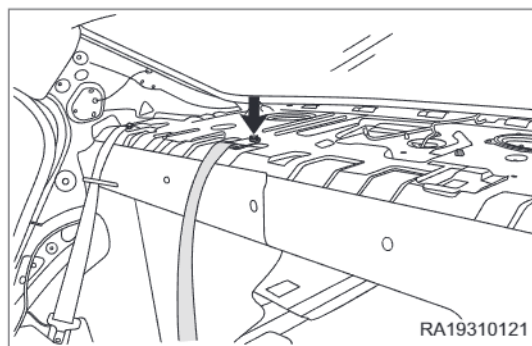
CAUTION

- Make sure to wear safety equipment to prevent accidents when removing the center seat belt assembly.
- DO NOT scratch the interior when removing the center seat belt assembly.

- 31**
1. Turn off all the electrical equipment and ignition switch.
 2. Disconnect the negative battery cable.
 3. Remove the rear seat assembly ([See page 44-14](#)).
 4. Remove the tonneau cover assembly ([See page 47-34](#)).
 5. Remove the center seat belt assembly.
 - a. Remove the fixing bolt (arrow) from the lower part of center seat belt assembly.
(Tightening torque: $50 \pm 5 \text{ N}\cdot\text{m}$)



- b. Remove the fixing bolt (arrow) from the center seat belt retractor, then remove the center seat belt assembly.
(Tightening torque: $50 \pm 5 \text{ N}\cdot\text{m}$)



Inspection

Check the center seat belt retractor.

CAUTION

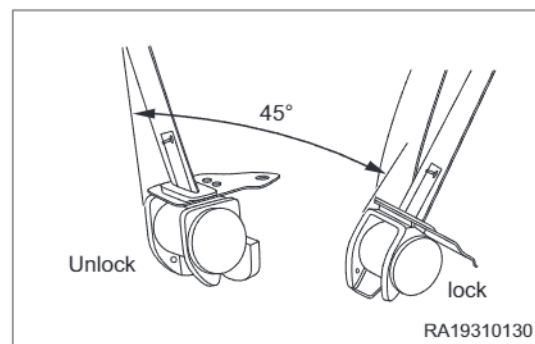
- DO NOT disassemble the rear seat belt retractor.

HINT:

When the inclination of the center seat belt retractor is 15° or less, check that the center seat belt can be pulled out from the center seat belt retractor.

When the inclination of the center seat belt retractor is over 45° , check that the center seat belt locks.

If the result is not as specified, replace the center seat belt assembly.

**Installation**

Installation is in the reverse order of removal.

31**CAUTION**

- Make sure to tighten all the fixing bolts and fixing screws according to the specified torque when installing the center seat belt assembly.

Double Buckle Belt Assembly

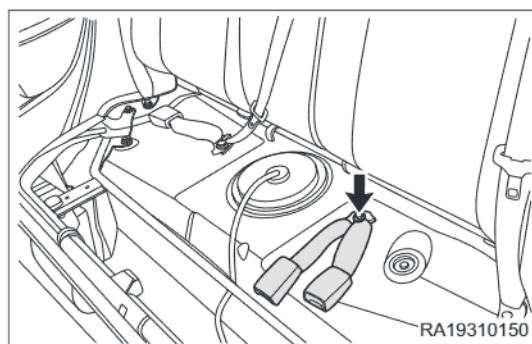
Removal

CAUTION

- Make sure to wear safety equipment to prevent accidents when removing the double buckle belt assembly.
- DO NOT scratch the interior when removing the double buckle belt assembly.

31

1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the rear seat cushion assembly ([See page 44-14](#)).
4. Remove the double buckle belt assembly.
 - a. Remove the fixing bolt (arrow) from the double buckle belt assembly.
(Tightening torque: 50 ± 5 N·m)



- b. Remove the double buckle belt assembly.

Installation

Installation is in the reverse order of removal.

CAUTION

- Make sure to tighten all the fixing bolts according to the specified torque when installing the double buckle belt assembly.

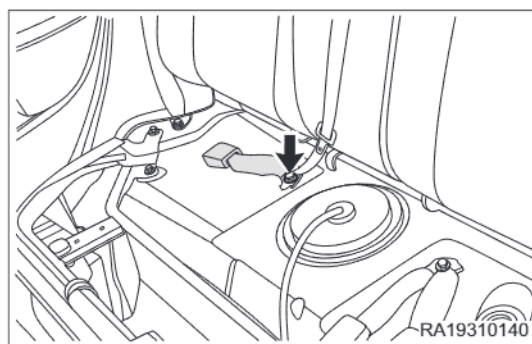
Rear Seat Belt Buckle Assembly

Removal

CAUTION

- Be sure to wear safety equipment to prevent accidents when removing the rear seat belt buckle assembly.
- DO NOT scratch the interior when removing the rear seat belt buckle assembly.

1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the rear seat cushion assembly ([See page 44-14](#)).
4. Remove the rear seat belt buckle assembly.
 - a. Remove the fixing bolt (arrow) from the rear seat belt buckle assembly.
(Tightening torque: $50 \pm 5 \text{ N}\cdot\text{m}$)



- b. Remove the rear seat belt buckle assembly.

Installation

Installation is in the reverse order of removal.

CAUTION

- Make sure to tighten all the fixing bolts according to the specified torque when installing the rear seat belt buckle assembly.

