

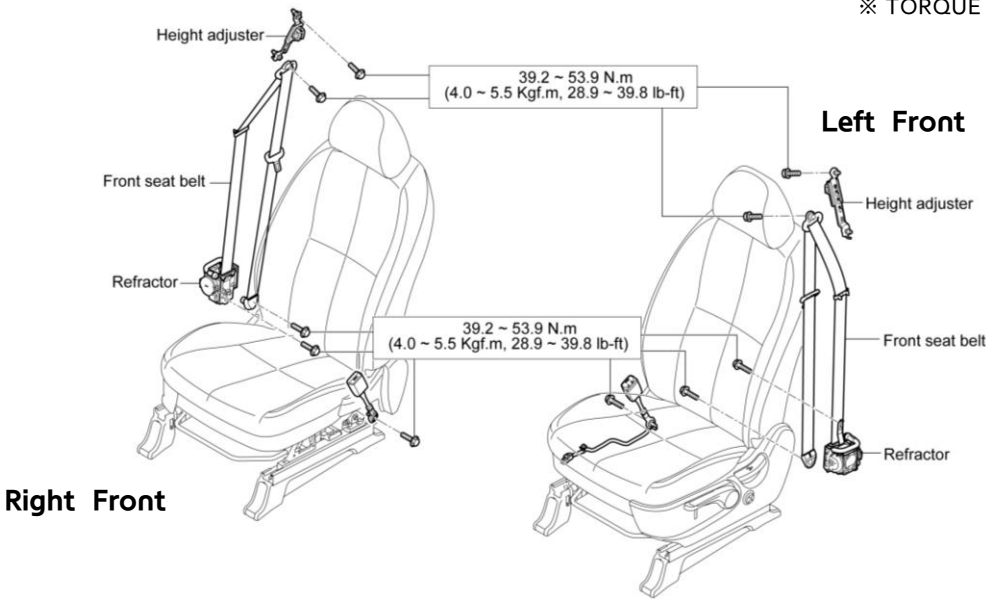
# The seat belt installation instruction



MODEL : CARNIVAL HEV 2024~

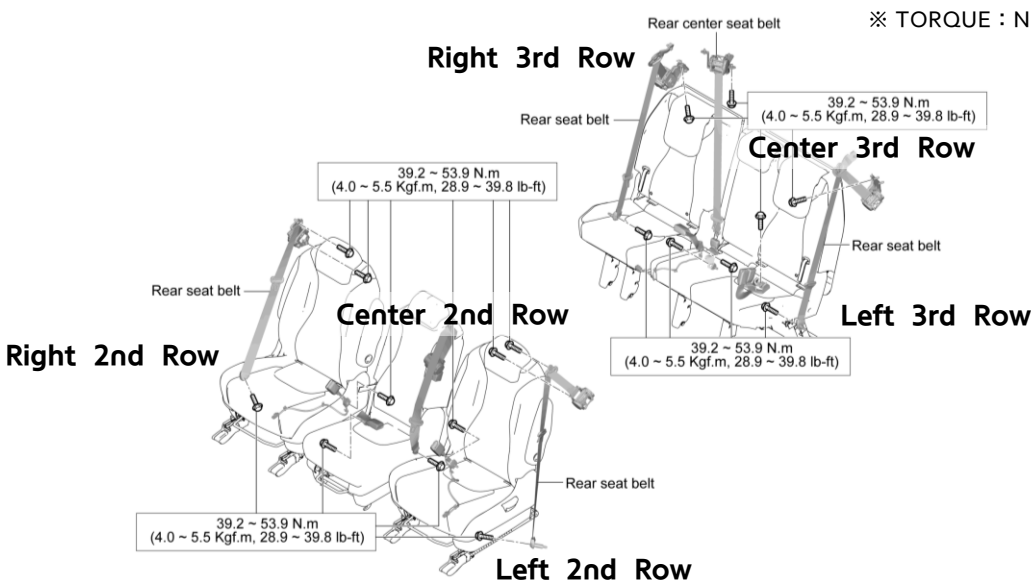
## FRONT SEAT BELTS

※ TORQUE : N.m (kgf.m, lb.ft)



## REAR SEAT BELTS

※ TORQUE : N.m (kgf.m, lb.ft)



※ The images shown are for illustration purposes only and may not be an exact representation of the product.

1. Remove any trim panels required to access the seatbelt and mounting hardware. Note the location and position of each to aid in reassembly.
2. Remove the existing seatbelt carefully. Note the location, position, and order in which all bolts, washers, and/or spacers are assembled.  
Also note any electrical connectors.
3. Install the new seatbelt.  
Refer to the diagram included in the installation instructions to ensure the new seatbelt is installed in the same way that the original assembly was installed, including proper routing of the webbing. Torque each bolt to the proper specification and reconnect any electrical connectors.
4. Replace any trim panels or covers taking care not to pinch, twist or restrict the safety belt webbing or damage any electrical connectors or wiring.
5. Test the system for properly functionality as applicable, including: DTCs or warning lamps, latching and unlatching of the belt buckle, extension and retraction of the belt, the retractor locking operation [retractor should lock when the belt webbing is pulled rapidly and when the vehicle brake is rapidly applied], functionality of the driver seat belt use warning lamp and chime, and the anchorage height adjuster.
6. If you have any concerns or are unsure if there is an issue with the seatbelt, consult an authorized Kia dealer.

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## Seat belts

Seat belts are designed to bear upon the bony structure of the body and should be worn low across the front of the pelvis, chest and shoulders.

## Seat belt restraint system

For maximum restraint system protection, seat belts must always be used whenever the vehicle is moving.

- A properly positioned shoulder belt should be positioned midway over your shoulder, across your collarbone.
- Never allow children to ride in the front passenger seat. See "Child Restraint System (CRS)" on page 4-35 for further discussion.

## WARNING

### Twisted seat belt

Make sure your seat belt is not twisted when worn. A twisted seat belt may not properly protect you in an accident and could cut into your body.

## WARNING

### Shoulder belt

Never wear the shoulder belt under your arm, behind your back, or across your neck. An improperly positioned shoulder belt cannot protect the occupant in an accident.

## WARNING

### Damaged seat belt

Any damage to webbing or hardware may cause serious injury or death in an accident. Replace the entire seat belt assembly if the webbing or hardware is damaged.

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis, chest and shoulders, wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the most protection.

A slack belt will greatly reduce protection.

Care should be taken to avoid contamination of the webbing with polishes, oils, chemicals, and particularly battery acid. Use mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

- No modifications or additions should be made by the user which could either prevent the seat belt adjusting devices from operating to remove slack.
- When you fasten the seat belt, be careful not to latch the seat belt in buckles of other seats. It is very dangerous and you may not be properly protected.
- Do not unfasten the seatbelt while the vehicle is being driven. An unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.
- When fastening the seat belt, make sure that the seat belt does not pass over objects that are hard or that can break easily.

## WARNING

### Seat belt buckle

Do not allow foreign material (gum, crumbs, coins, liquids, etc.) to obstruct the seat belt buckle orifice. This may

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prevent the seat belt from fastening securely.

## Seat belt warning



The seat belt warning light and warning chime operate under the following conditions.

## Driver's seat belt warning

As a reminder to the driver, the seat belt warning light will appear for approximately 6 seconds each time you turn the ignition switch or ENGINE START/STOP button ON regardless of belt fastening. If the seatbelt is not fastened, the warning chime will sound for about 6 seconds.

If you start to drive without the seat belt fastened over approximately 5 mph (9 km/h) and less than approximately 12 mph (20 km/h), the corresponding warning light will appear. The warning light will turn off when the vehicle speed drops below approximately 5 mph (9 km/h).

If you start to drive without the seat belt fastened or you unfasten the seat belt when you drive approximately 12 mph (20 km/h) and faster, the warning light will blink and warning chime will sound for approximately 100 seconds. When the speed is over approximately 5 mph (9 km/h) and less than approximately 12 mph (20 km/h), the warning light will blink and

warning chime will sound for approximately 100 seconds.

## Front passenger's seat belt warning

As a reminder to the front passenger, the seat belt warning light will appear for approximately 6 seconds each time you turn the ignition switch or ENGINE START/STOP button ON regardless of belt fastening. If you start to drive without the passenger seat belt fastened when you drive over approximately 5 mph (9 km/h) and less than approximately 12 mph (20 km/h), the corresponding warning light will appear. The warning light will turn off when the vehicle speed drops approximately below 5 mph (9 km/h).

If you start to drive without the passenger seat belt fastened or you unfasten the seat belt when you drive approximately 12 mph (20 km/h) and faster, the warning light will blink and warning chime will sound for approximately 100 seconds. When the passenger seat belt is unfastened during driving, the warning light will appear when the speed is over approximately 5 mph (9 km/h) and less than approximately 12 mph (20 km/h). When the speed is approximately 12 mph (20 km/h) and faster, the warning light will blink and warning chime will sound for approximately 100 seconds.

## NOTICE

- Even if the front passenger seat is unoccupied, the seat belt warning light will appear for approximately 6 seconds.
- The front passenger's seat belt warning may operate when luggage is placed on the front passenger seat.

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## Seat belt - Driver's 3-point system with emergency locking retractor

### Fastening the seat belt



- To fasten your seat belt, pull it out of the retractor and insert the metal tab (1) into the buckle (2). There will be an audible "click" when the tab locks into the buckle.

The seat belt automatically adjusts to the proper length only after the lap belt portion is adjusted manually so that it fits snugly around your hips. If you lean forward in a slow, easy motion, the belt will extend and let you move around. If there is a sudden stop or impact, however, the belt will lock into position. It will also lock if you try to lean forward too quickly.

## WARNING

You should place the lap belt portion as low as possible and snugly across your hips. If the lap belt is located too high on your waist, it may increase the chance of injury in the event of a collision.



The arm closest to the seat belt buckle should be over the belt while the other arm should be under the belt as shown

in the illustration. Never wear the seat belt under the arm closest to the door.

## NOTICE

If you are unable to pull out the seat belt from the retractor, firmly pull on the belt and release it. You should then be able to pull the belt out smoothly.

### Releasing the seat belt



- Press the release button (1) in the locking buckle.
- When it is released, the belt should automatically draw back into the retractor. If this does not happen, check the belt to be sure it is not twisted, then try again.

### Adjusting the height of shoulder belt

You can adjust the height of the shoulder belt anchor to one of 4 positions for maximum comfort and safety.



The height of the adjusting seat belt should not be too close to your neck. You will not be getting the most effective protection. The shoulder portion should be adjusted so that it lies across your chest and midway over your shoulder.

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To adjust the height of the seat belt anchor, lower or raise the height adjuster into an appropriate position.

- To raise the height adjuster, pull it up (1).
- To lower it, push it down (3) while pressing the height adjuster button (2).

Release the button to lock the anchor into position. Try sliding the height adjuster to make sure that it has locked into position.

Improperly positioned seat belts can cause serious injuries in an accident.

## WARNING

### Shoulder belt positioning

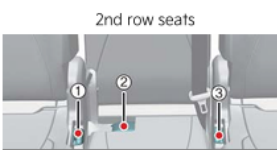
Verify the shoulder belt anchor is locked into position at the appropriate height. Never position the shoulder belt across your neck or face. Improperly positioned seat belts can cause serious injuries in an accident.

## WARNING

### Seat belt replacement

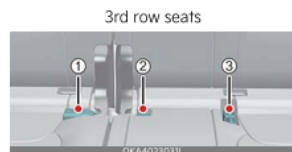
After a collision, the seat belt system should be inspected to ensure it is operating normally. Replace any belts that are not functioning appropriately.

The seat belt should be locked into the buckle on each seat cushion to be properly fastened.



\* The 2nd-row center seat is only available in 8 seating positions.

- 1 Rear right seat belt fastening buckle
- 2 Rear center seat belt fastening buckle
- 3 Rear left seat belt fastening buckle



- 1 Rear right seat belt fastening buckle
- 2 Rear center seat anchor connector
- 3 Rear left and center seat belt fastening buckle

## WARNING

Prior to fastening the rear seat belts, ensure the latch matches the seat belt buckle. Forcefully fastening the left or right seat belt to the center buckle can result in an improper fastening scenario that will not protect you in an accident.

### 3-point rear center belt (3rd row center seat)

#### To fasten the rear center belt

1. Pull out the mini tongue from hole on the belt assembly cover (1) and then slowly pull the seat belt out from the retractor.





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2. Pull out the tongue plate from the holder on the seat belt (2).



3. Insert the mini tongue (A) into the open end of the anchor connector (C) until an audible "click" is heard, indicating the latch is locked. Make sure the belt is not twisted.



4. Pull the tongue plate (B) and insert the tongue plate (B) into the open end of the buckle (D) until an audible "click" is heard, indicating the latch is locked. Make sure the belt is not twisted.



When using the rear center seat belt, the buckle with the "CENTER" mark must be used.

There will be an audible "click" when the tab locks in the buckle. The seat belt automatically adjusts to the proper length only after the lap belt is adjusted manually so that it fits snugly around your hips, if you lean forward in a slow, easy motion, the belt will extend and let

you move around. If there is a sudden stop or impact, the belt will lock into position. It will also lock if you try to lean forward too quickly.

**WARNING**

When using the rear seat center belt, you must lock all tongue plates and buckles. If any tongue plate or buckle is not locked, it will increase the chance of injury in the event of collision.

**To unfasten the rear center belt**

1. Press the release button on the buckle (D) and remove the tongue plate (B) from the buckle (D).



2. To retract the rear center seatbelt, insert the tongue plate or similar rigid device into the web release hole (C). Pull up on the seat belt web (A) and allow the webbing to retract automatically.



3. Insert the tongue plate into the holder (1) in seat belt and then insert the mini tongue into the hole on the belt assembly cover.

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**Stowing the rear seat belt**

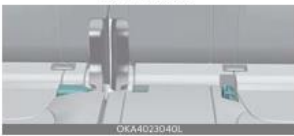
The rear seat belt buckles can be stowed in the pocket between the rear seatback and cushion when not in use.

The center seat belt can be stowed with the plate and webbing rolled in the pocket between the rear seatback and cushion.

**2nd row seat**



**3rd row seat**



**3rd row center seat**



**3rd row outboard seat**



1. Route the seat belt webbing through the rear seat belt guides. It will help keep the belts from being trapped behind or under the seats.

2. After inserting the seat belt, tighten the belt webbing by pulling it up.

**CAUTION**

When pulling out to wear the seat belt, the tongue should be slowly pulled out of the seat belt guide so that the seat belt guide does not come off the trim.

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**Pre-tensioner seat belt**



Your Kia is equipped with pre-tensioner seat belts for the front driver and passenger, as well as the second row passengers (except the center).

The purpose of the pre-tensioner is to make sure that the seat belts fit tightly against the occupant's body in certain collisions.

The pre-tensioner seat belts may be activated in crashes where the collision is severe enough.

When the vehicle stops suddenly, or if the occupant tries to lean forward too quickly, the seat belt retractor will lock into position. In certain frontal collisions, the pre-tensioner will activate and pull the seat belt tighter.

If the system senses excessive tension on the driver or passenger's seat belt when the pre-tensioner system activates, the load limiter inside the retractor pre-tensioner will release some pressure on the affected seat belt.

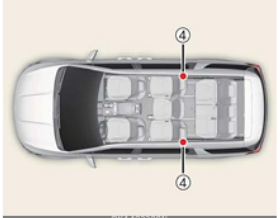
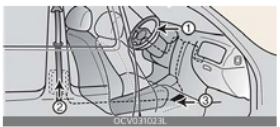
**WARNING**

For your safety, be sure that the belt webbing is not loose or twisted and always sit properly on your seat.

**NOTICE**

The pre-tensioner may activate not only in a frontal collision but also in a side collision, if the vehicle is equipped with a side or curtain air bag.

The seat belt pre-tensioner system consists mainly of the following components. Their locations are shown in the illustration:



- 1 Supplemental Restraint System (SRS) air bag warning light
- 2 Front retractor pre-tensioner assembly
- 3 SRS control module
- 4 2nd row retractor pre-tensioner assembly

**WARNING**

**Skin irritation**

Wash all exposed skin areas thoroughly after an accident in which the pre-tensioner seat belts were activated. The fine dust from the pre-tensioner activation may cause skin irritation and should not be inhaled for prolonged periods.

**NOTICE**

Both the driver's and front passenger's seat belt pre-tensioner systems

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may activate not only in certain frontal collisions, but also in certain side collisions or rollovers, if the vehicle is equipped with a side or curtain air bag.

- The sensor that activates the SRS air bag is connected to the pre-tensioner seat belt. The SRS air bag warning light on the instrument panel will appear for approximately 3 ~ 6 seconds after the ignition switch or ENGINE START/STOP button has been turned to the ON position, and should then turn off.
- If the pre-tensioner seat belt system is not working properly, this warning light will appear even if there is not a malfunction of the SRS air bag. If the SRS air bag warning light does not illuminate when the ignition switch or ENGINE START/STOP button has been turned to the ON position, or if it remains illuminated after approximately 3 ~ 6 seconds, or if it illuminates while the vehicle is being driven, have an authorized Kia dealer inspect it as soon as possible.

**NOTICE**

Do not attempt to service, repair, inspect or replace the pre-tensioner seat belt system in any manner. This must be done by an authorized Kia dealer.

**WARNING**

**Hot pre-tensioner**

Do not touch the pre-tensioner seat belt assemblies for several minutes after they have been activated. When the pre-tensioner seat belt mechanism fires

during a collision the pre-tensioner becomes hot and can burn you.

Pre-tensioners operate only one time. After activation, pre-tensioner seat belts must be replaced. If the pre-tensioner must be replaced, contact an authorized Kia dealer.

**Seat belt precautions**

Take the following precautions when using seat belts.

**Infant or small child**

All 50 states have child restraint laws. You should be aware of the specific requirements in your state. Child and/or infant seats must be properly placed and installed in the rear seat. For more information about the use of these restraints, refer to "Child Restraint System (CRS)" on page 4-35.



**NOTICE**

Children 13 and under are best protected from injury in an accident when properly restrained in the rear seat by a Child Restraint System that meets the requirements of the Federal Motor Vehicle Safety Standards (FMVSS). Before buying any Child Restraint System, make sure that it has a label certifying that it meets FMVSS 213. The restraint must be appropriate for your child's height and weight. Check the label on the child restraint for this information. Refer to "Child Restraint System (CRS)" on page 4-35.

**Larger children**

Children who are too large for Child Restraint System must always sit in the rear seat and use the available lap/

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1	<p>shoulder belts. The lap portion should be fastened snugly on the hips as low as possible. Check periodically to ensure that the belt fits. A squirming child could move the belt out of position. Children are given the most safety in the event of an accident when they are restrained by a proper restraint system in the rear seat. If a larger child (over age 13) must be seated in the front seat, the child should be securely restrained by the available lap/shoulder belt and the seat should be placed in the rearmost position. Children aged 13 and under should be restrained securely in the rear seat. NEVER place a child aged 13 and under in the front seat. NEVER place a rear-facing child seat in the front seat of a vehicle.</p> <p>If the shoulder belt portion touches the child's neck or face, try placing the child closer to the center of the vehicle. If the shoulder belt still touches their face or neck, you need to use a Child Restraint System.</p> <div> <div>  <b>WARNING</b> </div> <div> <p><b>Small children</b></p> <p>Do not allow small children to ride in the vehicle without an appropriate Child Restraint System. If the shoulder belt contacts your child's neck or face, your child is too small to ride in the vehicle. In a collision, the seat belt will inflict injury to your child's neck, throat and face.</p> </div> </div> <div> <p><b>Restraint of pregnant women</b></p> <p>Pregnant women should wear lap/shoulder belt assemblies whenever possible according to specific recommendations by their doctors. The lap portion of the belt should be worn AS SECURELY AND LOW AS POSSIBLE.</p> </div>	2
3	<div> <div>  <b>WARNING</b> </div> <div> <p><b>Pregnant women</b></p> <p>Pregnant women must never place the lap portion of the seat belt above or on the abdomen where the fetus is located. The force of the seat belt during a collision can seriously injure or cause death to the fetus.</p> </div> </div> <div> <p><b>Injured person</b></p> <p>A seat belt should be used when an injured person is being transported. When this is necessary, you should consult a physician for recommendations.</p> </div> <div> <p><b>One person per belt</b></p> <p>Two people (including children) should never attempt to use a single seat belt. This could increase injury severity in case of an accident.</p> </div> <div> <p><b>Do not lie down</b></p> <p>To reduce the chance of injuries in the event of an accident and to achieve maximum effectiveness of the restraint system, all passengers should be sitting up and the front and rear seats should be in an upright position when the vehicle is moving. A seat belt cannot provide proper protection if a person is lying down in the rear seat or if the front and rear seats are in a reclined position.</p> </div> <div> <p><b>Care of seat belts</b></p> <p>Seat belt systems should never be disassembled or modified. Care should be taken to assure that seat belts and belt hardware are not damaged by seat hinges, doors or abuse.</p> </div>	4