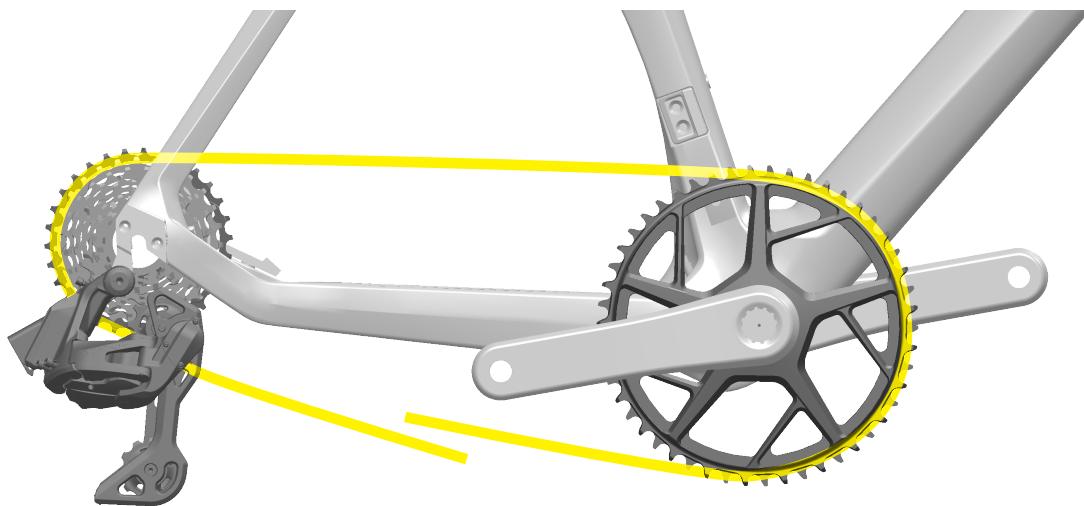
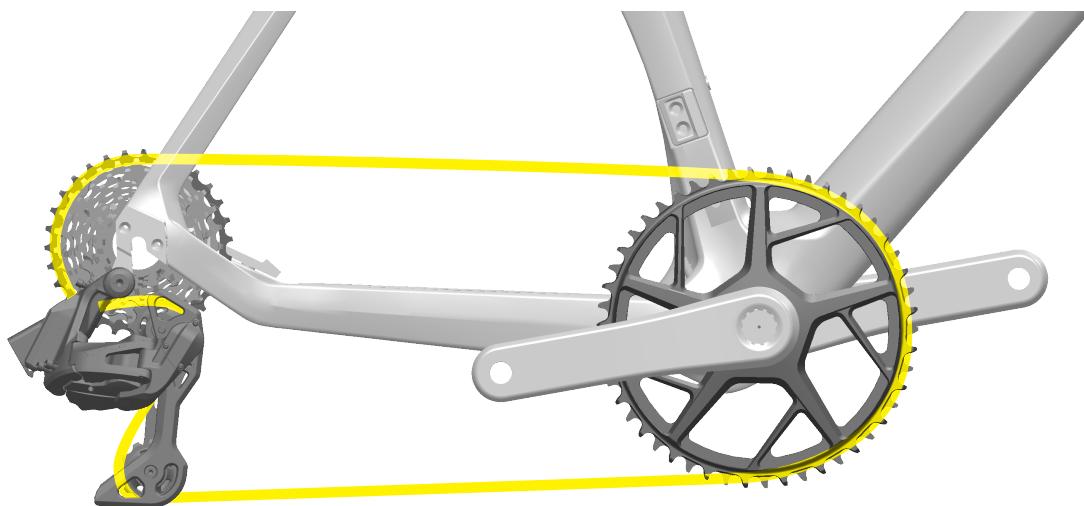


## Chain Installation

- 1** Wrap the chain around the largest cog and the chainring.
- 2** Note where the two ends of the chain begin to overlap.
- 3** Trim the chain to the correct length using the chart above.



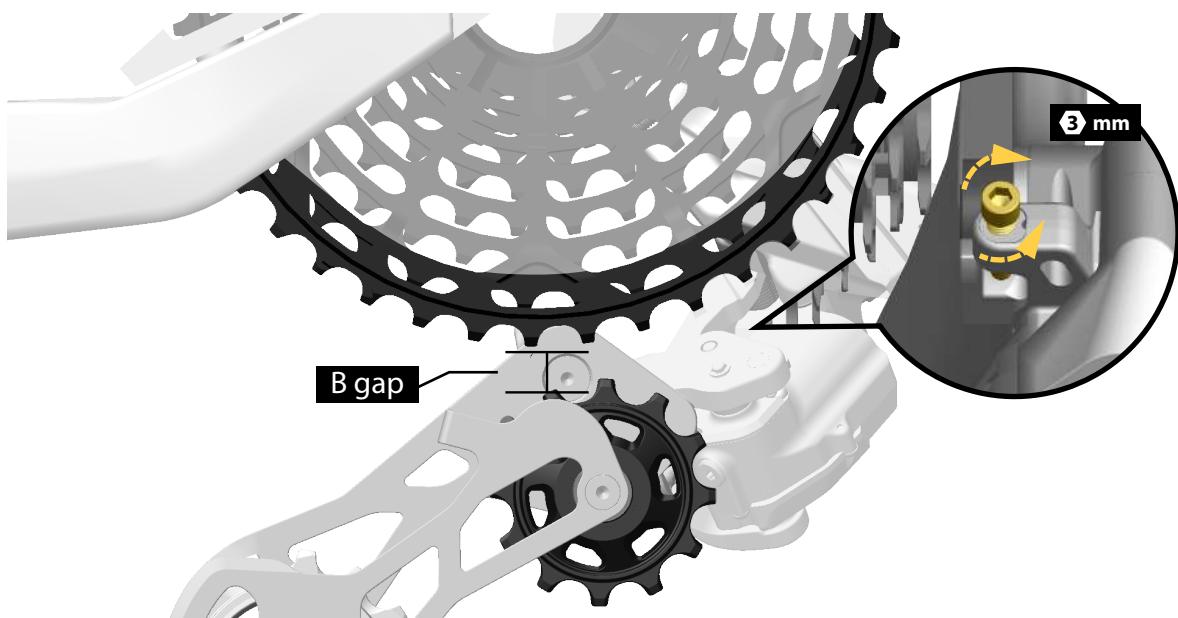
- 4** Route the chain through the derailleur and pull the two ends of the chain together.
- 5** Install the Master Link and tension both ends of the chain to ensure the link is properly connected.



- 6** Ensure the chain is neither too short nor too long by shifting into the largest cog and smallest cog respectively and double-checking the chain tension.

## B-Tension Adjustment

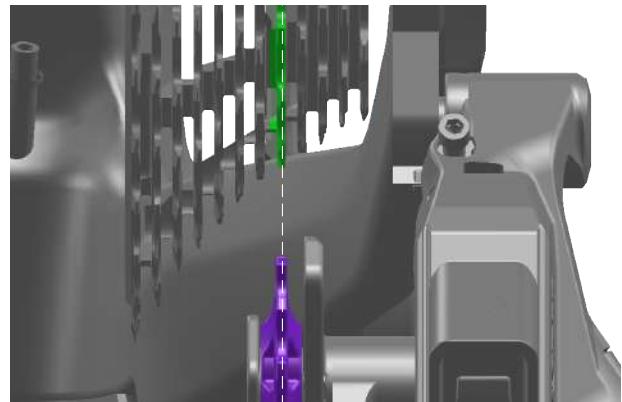
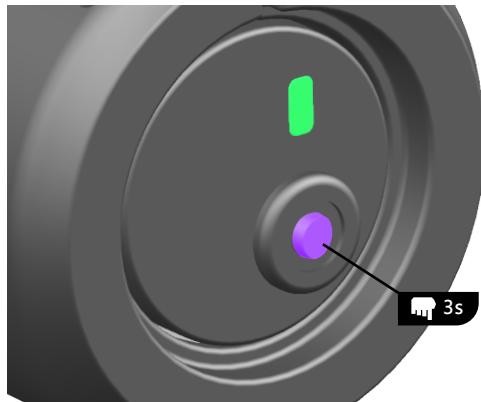
- 1 Shift the chain onto the largest cog.
- 2 Rotate the B-tension screw using a 3 mm Allen wrench to decrease or increase the gap between the upper pulley and the cassette.
- 3 Measure the gap between the teeth of the upper pulley and the teeth of the largest cog of the cassette. Measure the gap between the teeth of the upper pulley and the teeth of the largest cog on the cassette using the TRP B-gap tool.



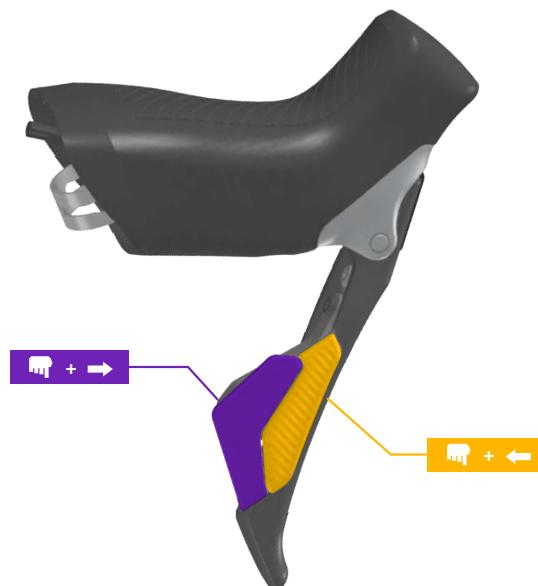
| Largest cog on the cassette | B Adjustment Clearance |
|-----------------------------|------------------------|
| 28T - 34T                   | 5 - 6 mm               |
| 36T - 40T                   | 5 - 6 mm               |

## Derailleur adjustments:

- 1 With the chain properly installed, shift the derailleur to the 8th cog of the cassette (8th from the largest cog).
- 2 Align the pulley wheel with the center of the 8th cog by fine-tuning the rear derailleur.
- 3 Activate Fine Adjustment Mode by pressing and holding the TRP Bar-end Unit function button for 3 seconds, or use the TRP CMD App to enter Fine Adjustment Mode. Once activated, the yellow LED on the TRP Bar-end Unit will remain on until the adjustment process is complete.

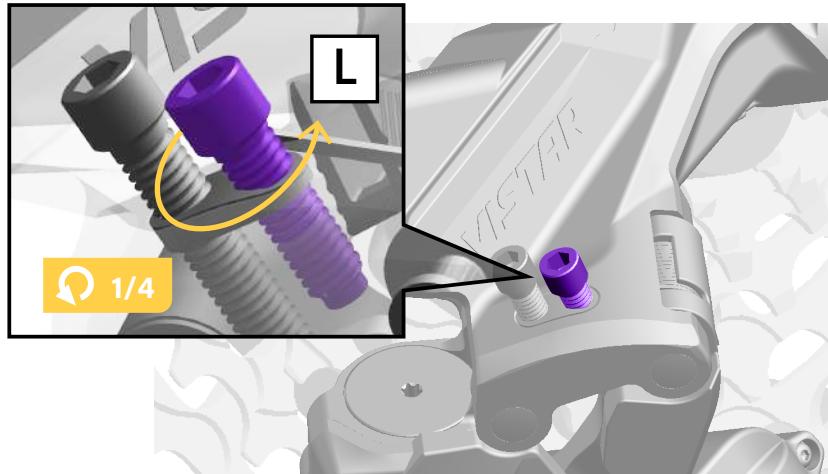


- 4 Press R1 to adjust the derailleur outboard as needed, and press R1 to adjust the derailleur inboard as needed.
- 5 To Fine Adjustment Mode, press the TRP Bar-end Unit function button once.

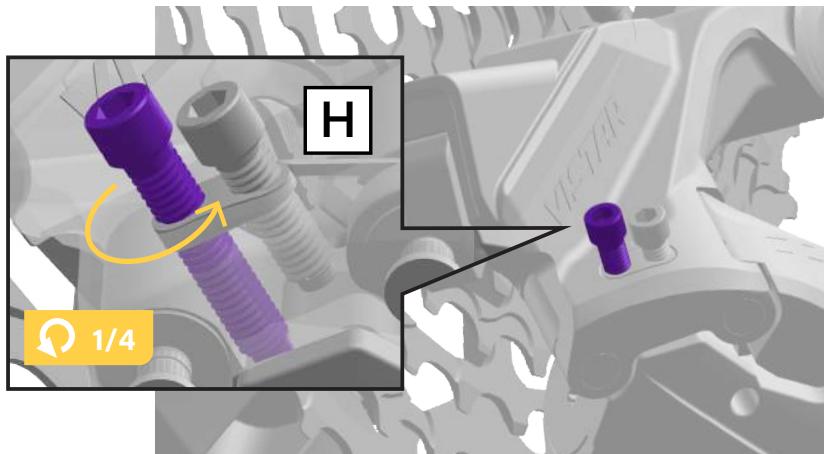


## Limit screw adjustment

- 1 Shift the derailleur inboard to the largest cassette cog.
- 2 Adjust the low limit screw (L) so that it lightly contacts the outer link of the derailleur, then back the screw out by 1/4 turn.



- 3 Shift the derailleur outboard to the smallest cog.
- 4 Adjust the high limit screw (H) until it lightly touches the inner link of the derailleur, then back the screw out by 1/4 turn.



### NOTE

Always adjust the upper and lower limit screws according to the instructions in the adjustment section. If these bolts are not adjusted properly, the chain may become clamped between the spokes and the largest cog of the cassette, causing the wheel to lock. Alternatively, the chain may become stuck between the cassette and frame and cause the wheel to lock.

Insert a fully charged battery into the rear derailleur battery compartment and secure it in place. After setting up the derailleur, if there is still chain noise or rough shifting, repeat the fine-tuning steps until smooth operation is achieved.

## ***Rear Derailleur Protection Function***

The rear derailleur protection function activates to protect the system when subjected to a strong impact, such as a fall. Once the impact is no longer present, the derailleur will automatically recover, and no shifting operation is required. Please inspect the bike for any other abnormalities caused by the impact.

## ***Classified PowerShift Wheel Installation***

For the installation of Classified PowerShift hub, please refer to the link below for Classified's website.

<https://support.classified-cycling.cc/hc/en-us/articles/13089196992285-Full-user-manual>

## SW-C8000E LED Indication

- The bar-end LED light can display the system's battery levels (bar-end, rear derailleur, and Classified thru-axle).

### VISTAR BEU LED indication

- BEU button

#### Battery level



- RD > 30%
- BEU > 20%
- CC thru-axle > 20%



- RD: 15% ~ 30%
- BEU: 10% ~ 20%
- CC thru-axle: 10% ~ 20%



- RD < 15%
- BEU < 10%
- CC thru-axle < 10%

- The bar-end LED light indicates when the system enters different modes.

#### BEU mode

- Function



- Calibration mode

Press and hold for 3 seconds



- Pairing mode

1. Press and hold for 7 seconds
2. Slow blinking green when in pairing mode.
3. Green LED on when done.



- Reset

1. Press and hold for 30 seconds
2. Red LED on
3. Green LED on when done.

## TRP Bar-end Unit Batteries Replacement

Make sure the bar-end unit is clean before opening the battery latch. Use a damp cloth to wipe off any dirt and debris from the control. Clean the components with soap and water only. Rinse thoroughly with water and allow the parts to dry completely before opening.

### Warning

- Consult the battery manufacturer for safe handling instructions.
- Keep the battery out of reach of children. Do not put the battery in your mouth. If ingested, seek medical attention immediately.
- Do not use sharp objects to remove batteries.
- Never dispose of batteries in a fire.

#### Remove the batteries

1. With the TRP Bar-end Unit removed from the bike, use a P0 screwdriver to remove the four battery cover screws.
2. Remove the battery cover.
3. Remove the old LR44 batteries from the TRP Bar-end Unit.
4. Insert the new LR44 batteries into the TRP Bar-end Unit. Make sure to align the positive and negative terminals of the batteries accordingly.
5. Reinstall the battery cover.
6. Use a P0 screwdriver to reinstall the four screws into the cover. Do not overtighten the screws.



### NOTICE

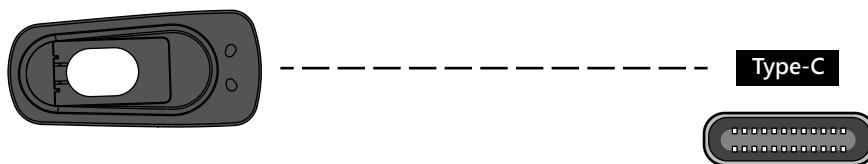
To prevent moisture damage, do not remove the battery cover O-ring.

Nominal Voltage: DC 3Vdc 175mA

Battery type: LR44

## TRP Battery Charger (EC-E7000)

Connect the small end of the USB cable into the USB Type-C port of the TRP battery charger.



- Insert the battery( C1700001, 7.4V / 300mAh ) into the TRP charger case.
- Make sure the battery tab is seated first. The charger LED will illuminate once plug with power.
- The battery will take roughly one hour to reach a full charge when using recommended USB cable and adapter (Input : 100-240Vac, 50/60Hz, 2A ; Output: 5Vdc, 1A).
- Charge times may vary based on USB power source.
- Use a USB power source or an adapter power source, ensuring that the specifications comply with LPS (Limited Power Source) requirements.

### NOTICE

Hands and gloves must be clean before handling the TRP battery. Contact with sunscreen or hydrocarbon cleaners may cause the battery to crack.

For best charging performance, use a USB 3.0 or later charging port. Connecting to a charging port that precedes USB 3.0 could result in longer charging times.

A USB cable is not included with the battery and charger, please purchase a verified USB cable and adapter. Or contact Tektro/TRP for more support.

**Do not use improper or unauthorized batteries. Using incorrect batteries may result in explosion, fire, electric shock, or other hazards. Always follow the manufacturer's instructions and use only compatible batteries.**

**Input Voltage:** DC 5Vdc 1A

**Output Voltage:** DC 8.4Vdc 0.45mA

Operating temperature: -10 °C to 40 °C humidity from 0% to 100%

## TRP Charger LED Indicator Status

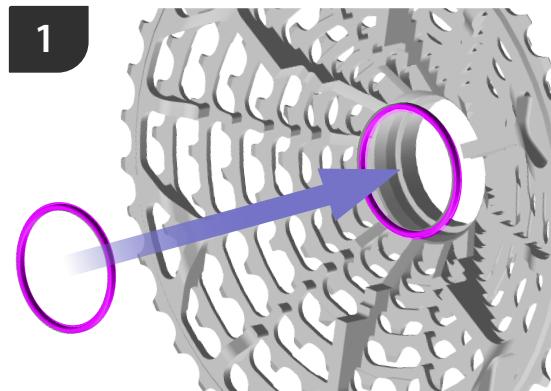


| Amber                          | Green |
|--------------------------------|-------|
| Flash                          | On    |
| <b>Status</b>                  |       |
| Charger is ready (w/o battery) |       |

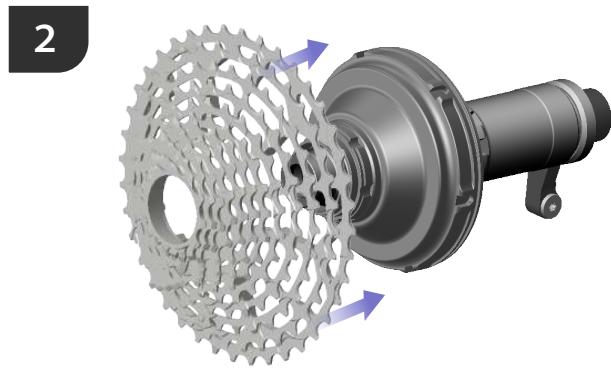
| Amber               | Green |
|---------------------|-------|
| On                  | On    |
| <b>Status</b>       |       |
| Battery is charging |       |

| Amber             | Green |
|-------------------|-------|
| off               | On    |
| <b>Status</b>     |       |
| Charging complete |       |

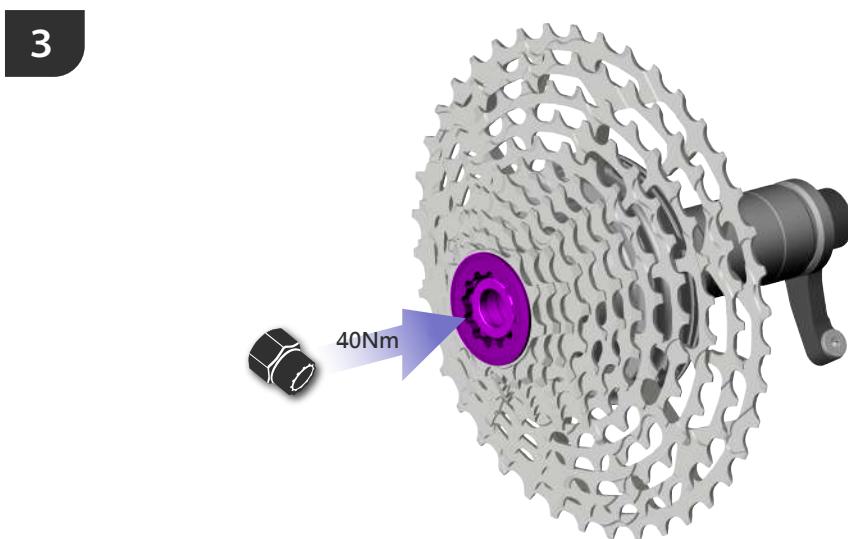
## Installation Instructions



Place the cassette spacer securely onto the cassette.



Slide the cassette directly onto the hub, ensuring a proper fit.



Using a cassette lockring tool, secure the lockring onto the cassette and tighten it to a torque of 40 Nm.

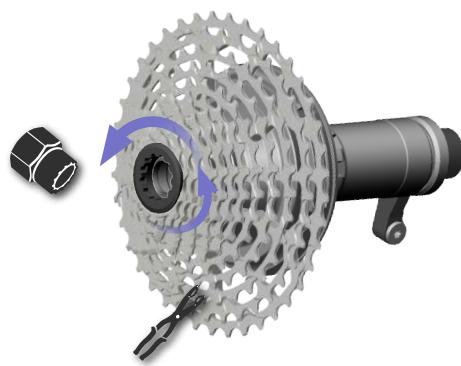
## Removal Instructions

1



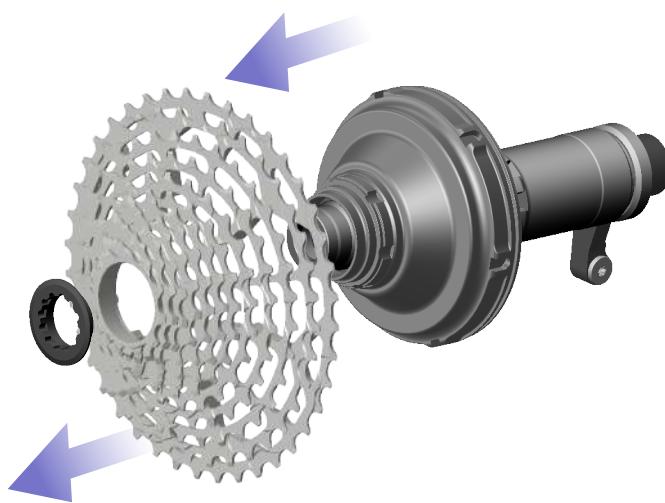
Use cassette pliers or a chain whip tool to firmly hold the cassette in place

2



Insert a cassette lockring tool and turn the lockring counterclockwise to unscrew and remove it completely.

3



Gently pull the cassette away from the hub to remove it

## Compatibility Note

The following cassette models are compatible only with the Classified Powershift Hub:

- [CS-CL8030-12](#)
- [CS-CL8032-12](#)
- [CS-CL8034-12](#)
- [CS-CL8036-12](#)
- [CS-CL8040-12](#)

## **Maintenance**

We recommend that you periodically clean your electrical components. Use a damp cloth to wipe off any dirt and debris. Clean the components with soap and water only. Rinse thoroughly with water and allow the parts to dry, then lubricate the chain.

Keep the battery clean and dry. Use a dry cloth to gently clean the battery terminals. Store the battery at room temperature and away from excessive heat or cold.

### **NOTICE**

- Do not clean the components with a power washer.
- Do not use acidic or grease-dissolving agents on your electrical components.
- Do not soak or store your electrical components in any cleaning product or liquid. Chemical cleaners and solvents can damage plastic components.

## Storage and Transportation

- **Storage conditions:**

Temperature from -20 °C to 70 °C, humidity from 10% to 85%

- **Operating conditions:**

Temperature from -10 °C to 40 °C, humidity from 0% to 100%

- **Service life:**

2 years

### NOTICE

Check the battery level of each component before and after each use.

### NOTICE

The components can withstand wet weather riding conditions; however, do not deliberately place them into water.

Do not clean the bicycle in a high-pressure wash. If water gets into any of the components, operating problems or rusting may result.

- Handle the components carefully, and avoid subjecting them to strong shock.
- Do not use the thinners or harsh solvents to clean the products. Such solvents may damage the surface. When cleaning the products, use a cloth moistened with a neutral detergent diluted with water.
- If gear shifting operations do not feel smooth, wash the shifting unit and lubricate all moving parts.
- If the chain keeps skipping during use, replace the gears and chain at the place of purchase.
- If you hear abnormal noise as a result of excess play in a pulley while riding, you should replace the pulley at the place of purchase.
- The gears should be periodically washed with a neutral detergent. In addition, cleaning the chain with neutral detergent and lubricating it can be an effective way of extending the life of the gears and the chain.
- Contact the place of purchase for updates of the component software. The most up-to-date information is available on TRP app.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- Be sure to rotate the crank when carrying out switch operations which are related to gear shifting.
- If the amount of looseness in the links is so great that adjustment is not possible, you should replace the derailleur.

## Storage and Transportation

### Warning

- Do not disassemble or modify the product. This may cause the product to not operate correctly, and you may suddenly fall and be seriously injured.
- Never use alkali- or acid-based solvents such as rust cleaners. If those solvents are used, the chain might break and cause serious injury.
- Clean the chain with an appropriate chain cleaner regularly. Intervals between maintenance depend on the use and riding circumstances.
- Check the chain for any damage (deformation or cracking), skipping, or other abnormalities such as unintended gear shifting. If any problems are found, consult your place of purchase or a distributor. The chain may break, and you may fall.



This symbol on your product, literature, or packaging reminds you that this product must be taken to separate collection at the end of its working life. Do not dispose of this product as unsorted municipal waste, but instead take it for recycling. By ensuring the product is disposed correctly, you will help to prevent potential negative consequences for the environment and human health. For info on your nearest recycling point, check with your local waste authority

## ***NCC warning***

Low-power radio frequency devices that have obtained certification must not change frequency, increase power, or alter the original design's characteristics and functions without approval. The use of such devices must not affect aviation safety or interfere with legal communications; if interference is discovered, the device must be immediately discontinued and can only be used again once the interference has been resolved. The aforementioned legal communications refer to wireless telecommunications operated in accordance with telecommunication regulations. Low-power radio frequency devices must tolerate any interference from legal communications or from industrial, scientific, and medical equipment that emits radio frequency radiation.

## **FCC warning**

### **Federal Communications Commission (FCC) Statement**

15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation

### **FCC RF Radiation Exposure Statement:**

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. For portable operation, this device has been tested and meets FCC RF exposure guidelines. When used with an accessory that contains metal may not ensure compliance with FCC RF exposure guidelines.

## FCC warning

### Warning

**This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).**

**Operation is subject to the following two conditions:**

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### Caution: Exposure to Radio Frequency Radiation

1. To comply with the Canadian RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.
2. For portable operation, this device has been tested and meets RF exposure guidelines when used with an accessory that contains no metal. Use of other accessories may not ensure compliance with RF exposure guidelines.

### Attention: exposition au rayonnement radiofréquence

1. Pour se conformer aux exigences de conformité RF canadienne l'exposition, cet appareil et son antenne ne doivent pas être co-localisés ou fonctionnant en conjonction avec une autre antenne ou transmetteur.
2. Pour portable utilisation, cet appareil a été testé et respecte les directives sur l'exposition aux RF lorsqu'il est utilisé avec un accessoire sans métal. L'utilisation d'autres accessoires peut ne pas garantir la conformité aux directives d'exposition aux RF.

## **Coin battery**

1. This equipment is not suitable for use in locations where children are likely to be present.
2. Before installing the battery, make sure to assemble the product to prevent any accidental dangers. Risk of fire or explosion if the battery is replaced by an incorrect type.
3. Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children.  
Do NOT dispose of batteries in household trash or incinerate.
4. Even used batteries may cause severe injury or death.
5. Call a local poison control center for treatment information.
6. Non-rechargeable batteries are not to be recharged.
7. Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate.  
Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
8. Ensure the batteries are installed correctly according to polarity (+ and -).
9. Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
10. Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
11. Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

