

**TRP**

# E.A.S.I. A12 User Manual

**RD-M8000E / SW-M8000E**



**TRP**

<https://trpcycling.com/>

## 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.

## 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

## Warning

- This equipment is not suitable for use in locations where children are likely to be present.

### **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 party 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.

## 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**

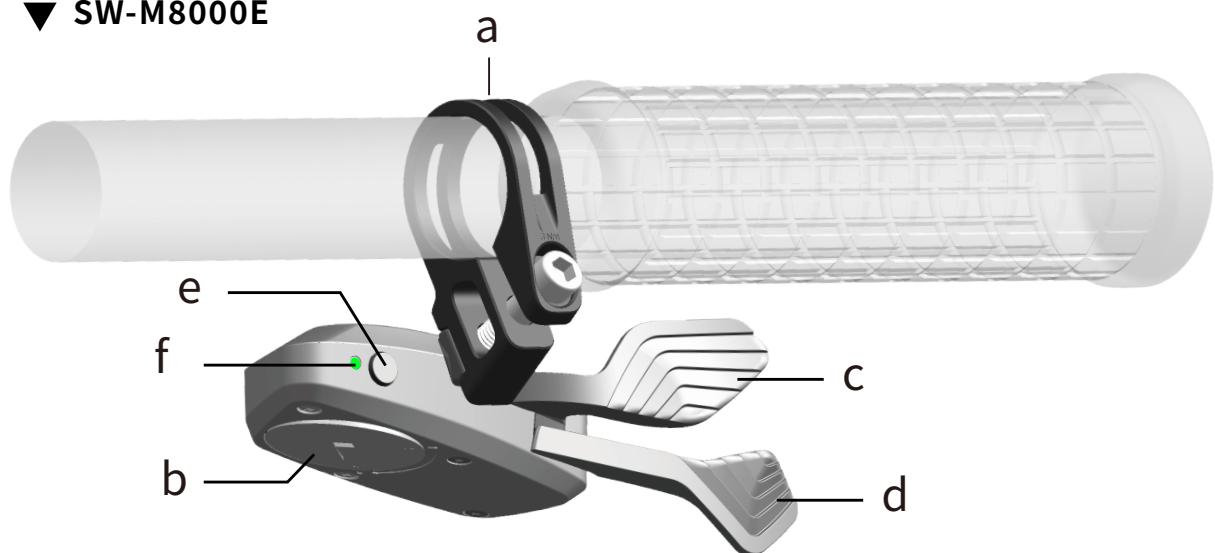
1. Pour se conformer aux exigences de conformité RF canadienne l'exposition, cet appareil et son antenne ne doivent pas être co-localisés ou fonctionnant en conjonction avec une autre antenne ou transmetteur.
2. Pour portable utilisation, cet appareil a été testé et respecte les directives sur l'exposition 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.

## **TRP CMD APP**

Download the TRP CMD app, available for free in the app stores, to create your TRP account and connect your components via Bluetooth. Firmware updates are performed through the app. For optimal system performance and compatibility make sure you have installed the latest version of the TRP app and component firmware.

**TRP E.A.S.I. Shifter (SW-M8000E)**

▼ **SW-M8000E**



a. Discrete Clamp

b. Battery Cover

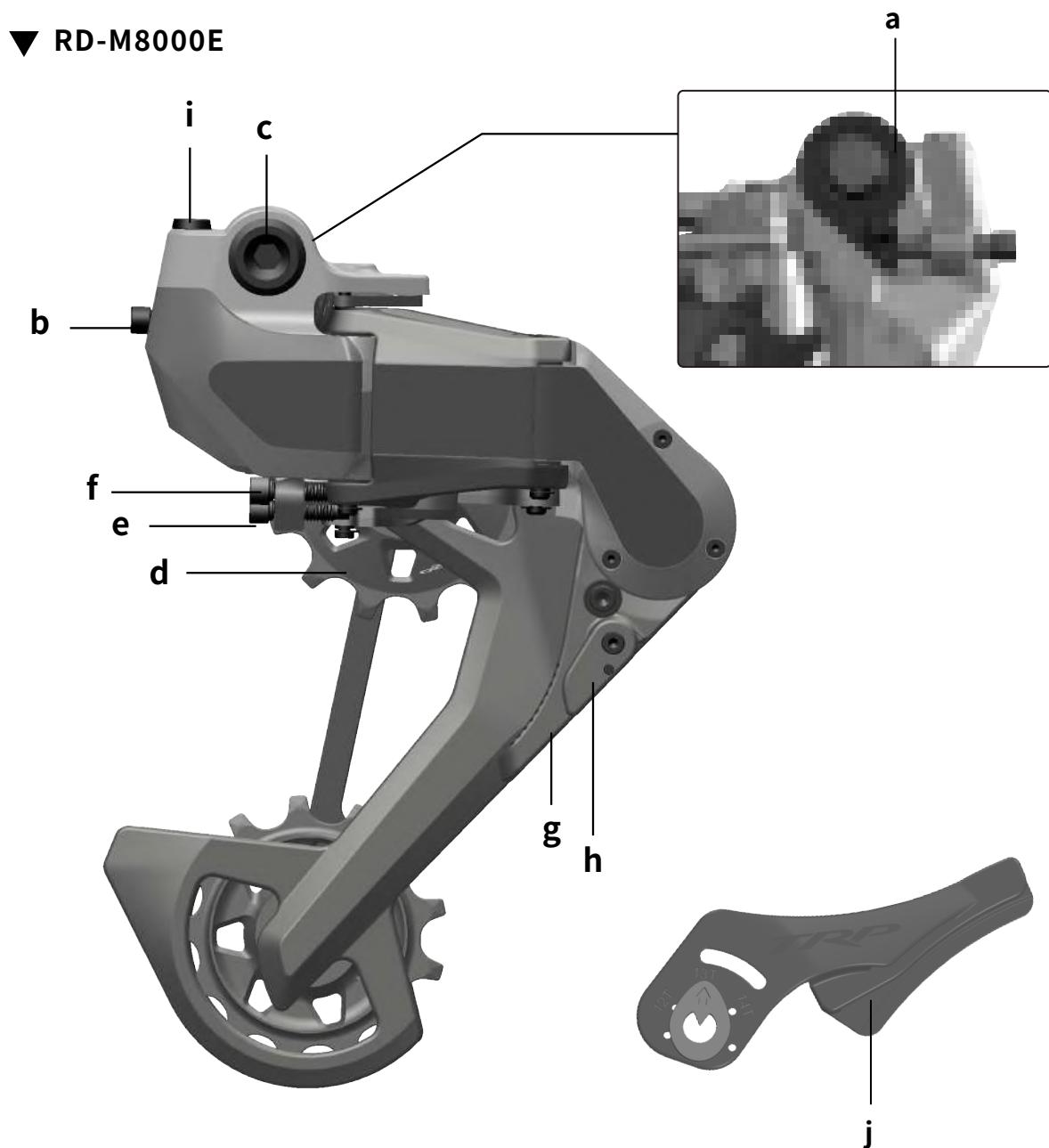
c. Upper Lever

d. Lower Lever

e. Function Button

f. LED Indicator

**TRP E.A.S.I. Rear Derailleur (RD-M8000E)**



a. B-Plate

b. B-Tension Screw

c. Mounting Bolt

d. Upper Pulley

e. High Limit Screw

f. Low Limit Screw

g. Cage Release Driver

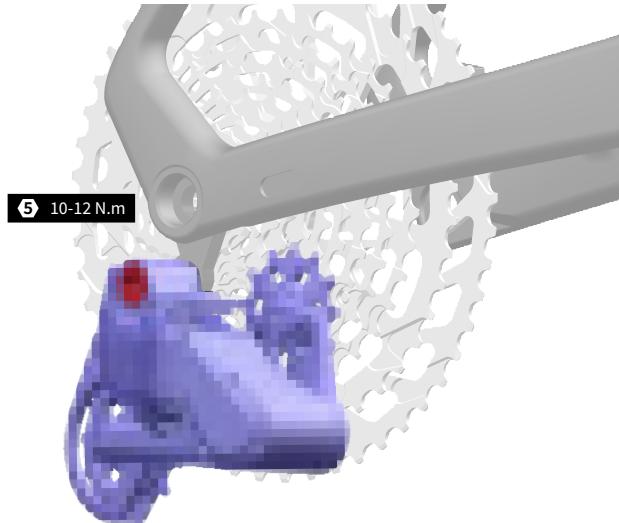
h. Cage Release Knob

i. Socket Cover

j. Chain Gap Adjustment Gauge

## ***Derailleur Installation***

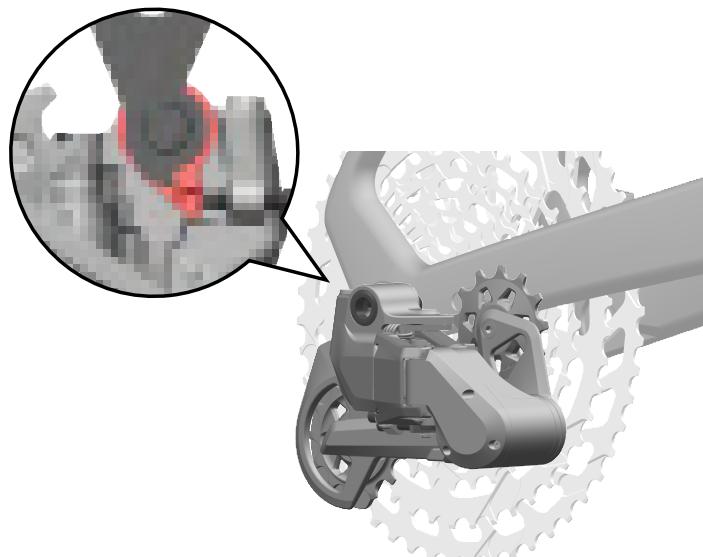
Ensure the derailleur hanger is straight using a hanger alignment tool.



Mount the derailleur to the hanger using a 5mm allen key.  
Torque the derailleur to 10-12 Nm.

### **Notice**

Hanger straightness is critical to the performance of the rear derailleur. As such, proper care must be taken to ensure it is within the tolerance specified by the frame manufacturer.



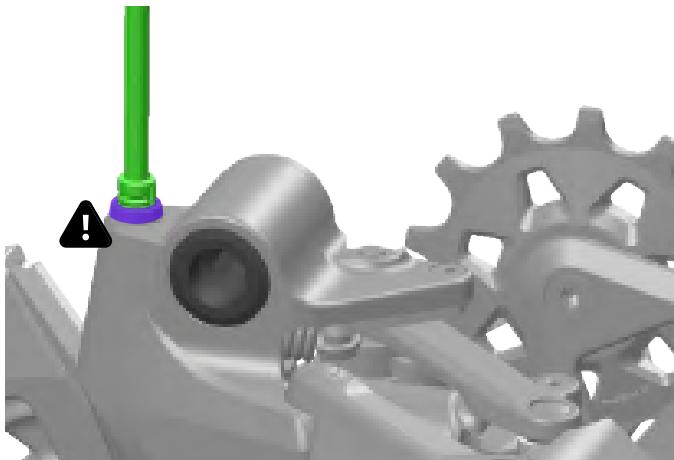
### **Notice**

Do not apply grease to the mounting bolt or derailleur hanger threads. While tightening the main bolt to the hanger, ensure that the b-plate is placed firmly up against the hanger. There should be no gap between the b-plate and the hanger

### **Cassette compatibility**

Model	Max tooth
RD-M8000E	52T

## Connecting the Rear Derailleur



**When connecting electric wires, push them in until you feel and hear a click. Make sure the socket cover is properly installed when connecting the wire.**

### Electric Wire Maintenance

Keep the electric wire installed in the rear derailleur. It is not necessary to remove the electric wire when cleaning, storing, or transporting your bike.

### Notice

Every 50 hours: Check the wire for damage such as cuts and breaks in the insulation.

Do NOT use if there is damage to the wire.

Do NOT repair the wire yourself. Consult your motor manufacturer's authorized dealers for repair.

Secure the electric wires with a zip tie so that they do not interfere with the chainrings, sprockets or tires.

When installing to the bicycle, do not forcibly bend the electric wire plug. It may result in a poor contact.

Do not keep connecting and disconnecting the small waterproof connector. The waterproof section or the connecting section may become worn or deformed, and the function may be affected.

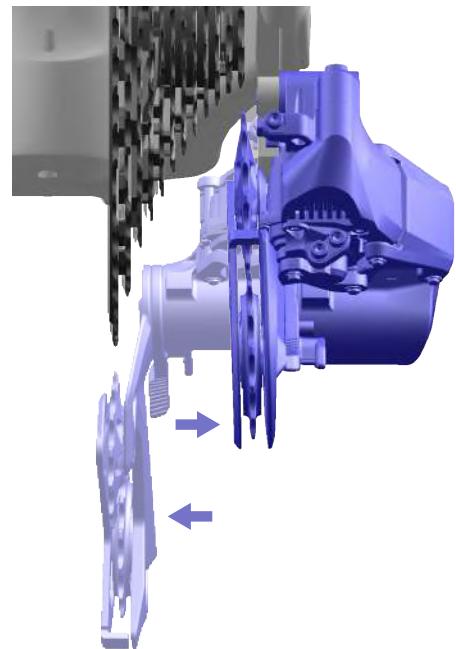
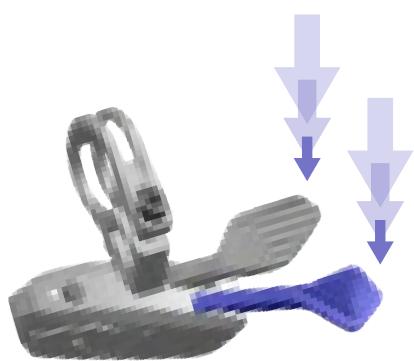
### System Pairing

Please use the Bosch Flow APP or visit your nearest dealer to pair the shifter to the system.

## Shifting Operation

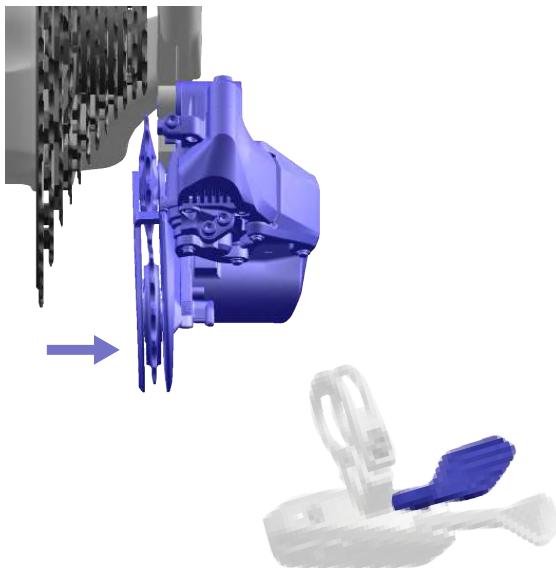
1

Press and hold the paddle for multiple shifts



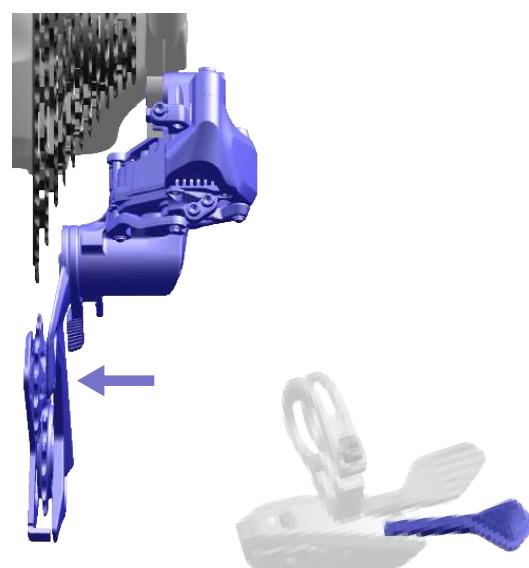
2

Press the upper lever to move the derailleur outboard to a smaller cog.

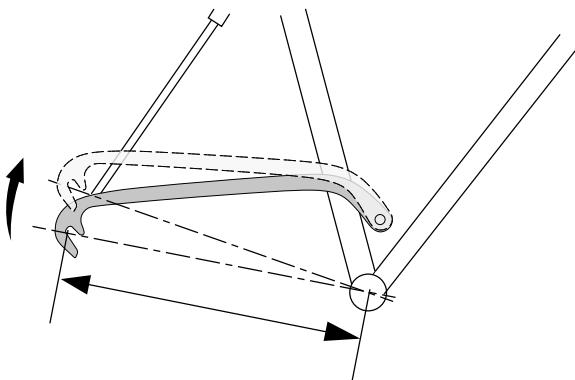


3

Press the lower lever to move the derailleur inboard to a larger cog.



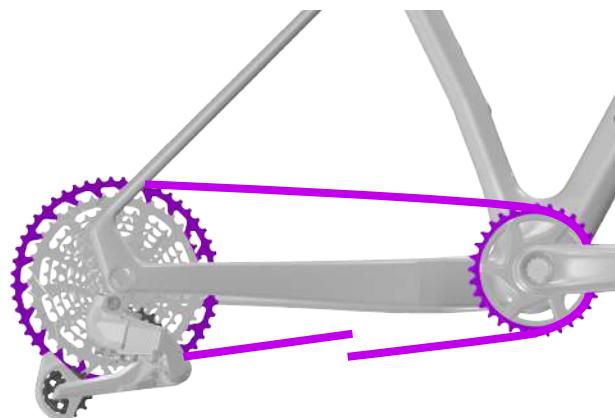
## Chain Sizing



### Notice

For full suspension bikes, check the length of the chain when the suspension is in its fully extended position (bottom out position). Deflate or remove the rear shock if necessary.

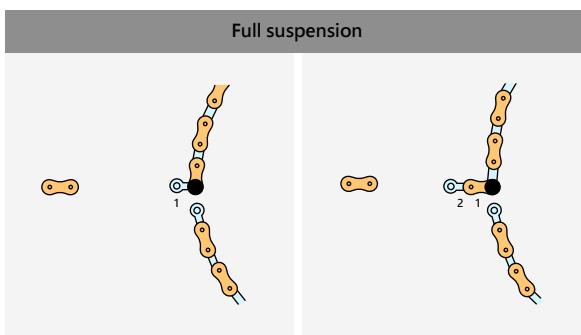
Wrap the chain around the chainring and largest cog of the cassette.



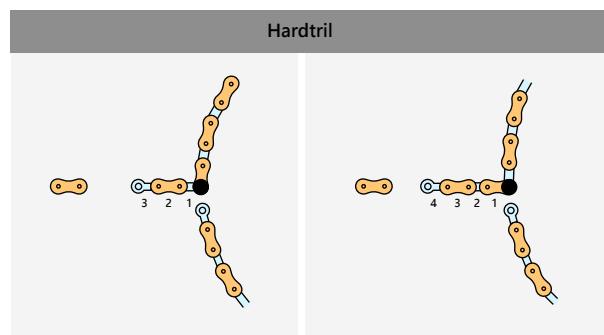
### Warning

Failure to size or connect the chain properly may lead to chain failure or cause the rider to crash, resulting in serious injury and/or death. A chain must be installed to properly adjust your derailleur.

Wrap the chain around the chainring and largest cog of the cassette. Use the chart to determine the proper chain length for your drivetrain. Add the number of inner and outer links as specified from where the chain starts to overlap. Find the two inner links that will be used with the quick link and shorten the chain using a chain breaking tool.



Add 1 or 2 links of chain, and break the chain so the last link is a narrow link

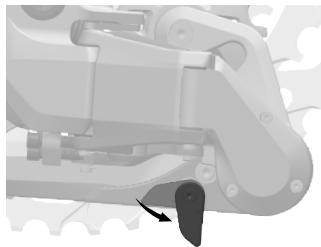


Add 3 or 4 links of chain, and break the chain so the last link is a narrow link

## Chain Installation

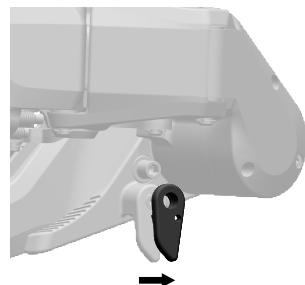
1

Shift the rear derailleur to the smallest cog. Turn the cage release knob 90° counterclockwise.



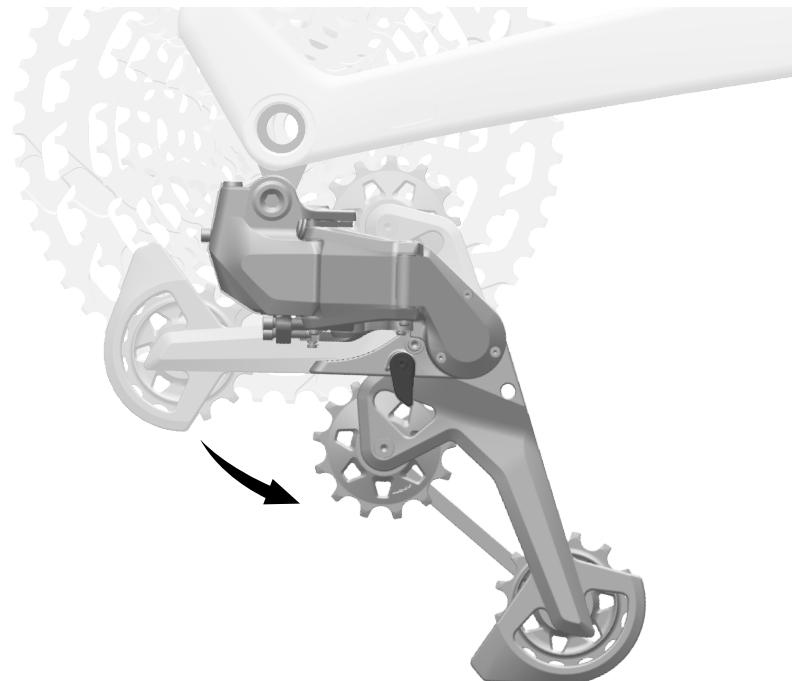
2

Place your thumb to cage driver and apply enough pressure on the driver. Lift the cage release knob using your index finger. Apply pressure to the cage driver to prevent it from springing back to quickly when using this feature.



3

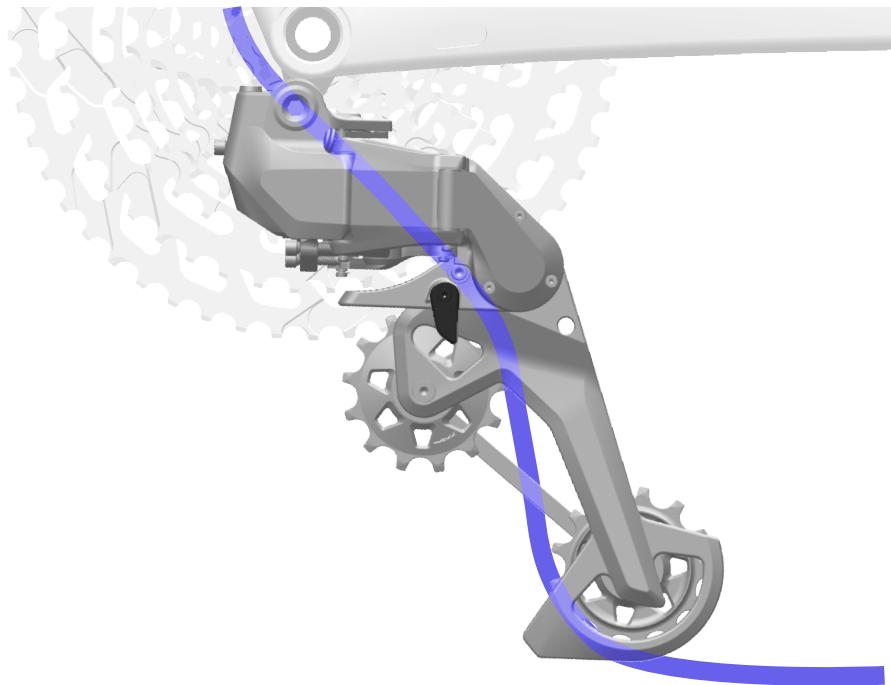
Release the pressure on the cage driver and allow it to come to rest on the knuckle of the derailleur. With the spring tension now removed, the cage can be moved forward.



### Warning

Cage driver is under constant spring tension and, if handled improperly, can cause injury. Apply pressure to the cage driver to prevent it from springing back to quickly when using this feature. Use this feature only with the derailleur in the SMALLEST cog of the cassette.

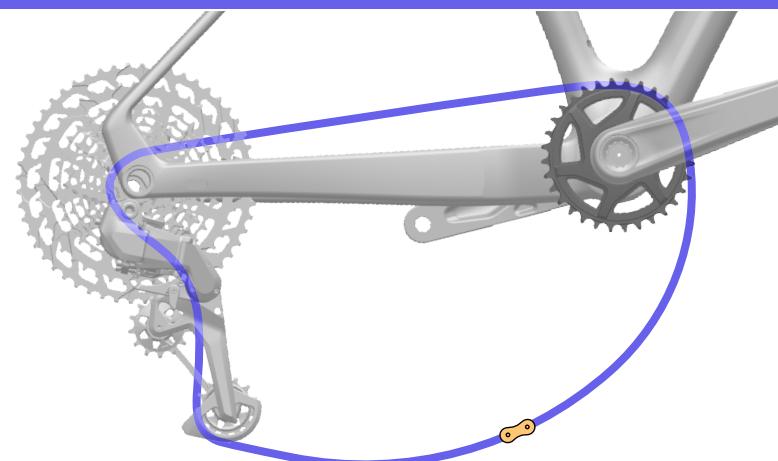
Route the chain through the derailleur pulleys. Make sure to route the chain below the tab in the cage.



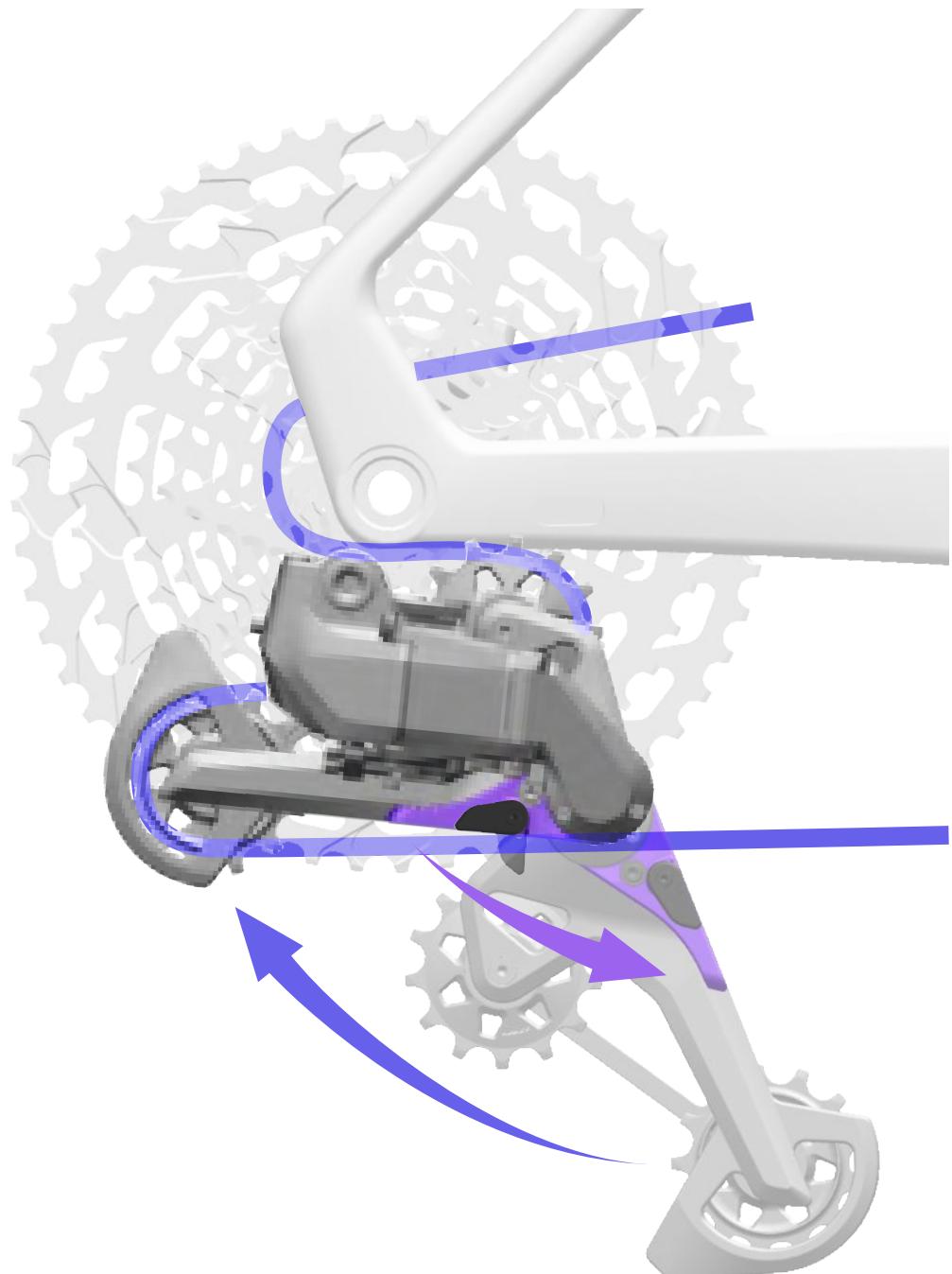
**Notice**

The rear derailleur plate assembly is equipped with a plate that prevents the chain from derailing. When passing the chain through the rear derailleur, pass it through the rear derailleur body from the side of the chain derailment prevention plate as shown in the illustration. If the chain is not passed through the correct position, damage may be caused to the chain or rear derailleur.

Connect the two ends of the chain using the included quick link.



To re-engage the cage spring tension, push the cage driver forward until it clicks into place. Return the cage release knob to the home position by rotating the knob 90° clockwise.



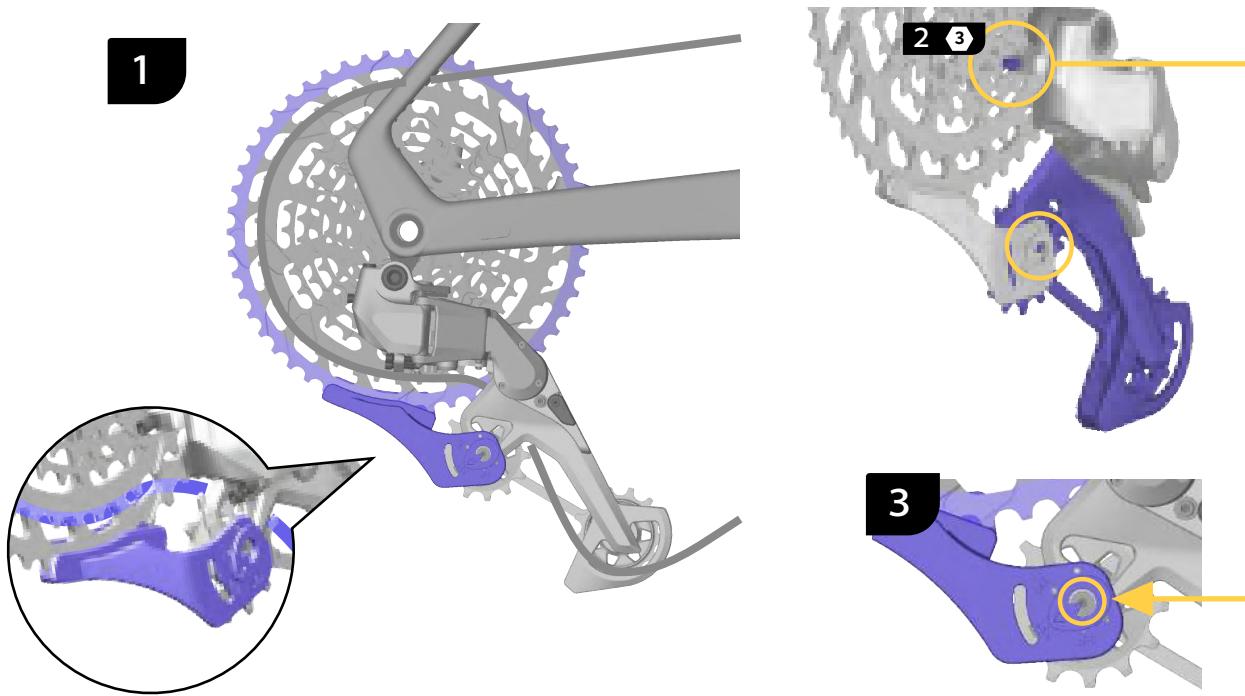
Confirm the chain is not too short by shifting into the largest cog of the cassette and bottoming out the shock

## B- Tension Adjustment

### Notice

For full suspension bicycles, measure the chain gap while the bicycle is in the sag position.

### B-tension adjustment w/ Gauge



Shift the chain into the second largest cog. Snap the chain gap adjustment gauge onto the largest cassette cog (52T / 51T / 50T) so the largest cassette cog teeth touch the surface of the gauge in the window cut-out.

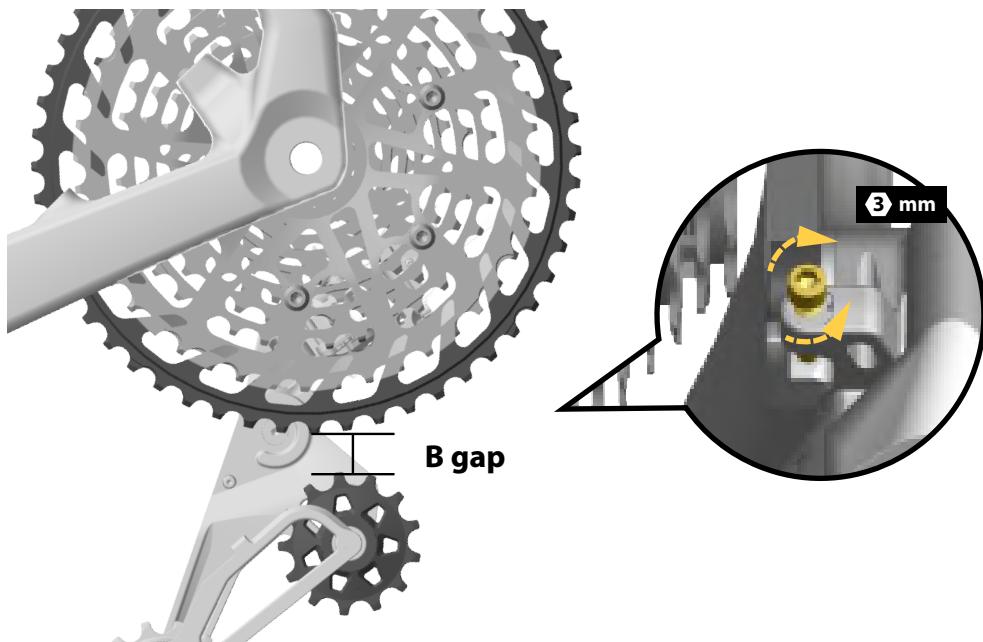
Rotate the gauge and the cassette until the gauge is close to the center of the the upper pulley wheel.

Rotate the B-Tension screw using a 3mm allen wrench until the center of the 13T upper pulley screw and the hole on the chain gap adjustment gauge tool align. Remove the tool.

## B-tension adjustment w/o Gauge method 1

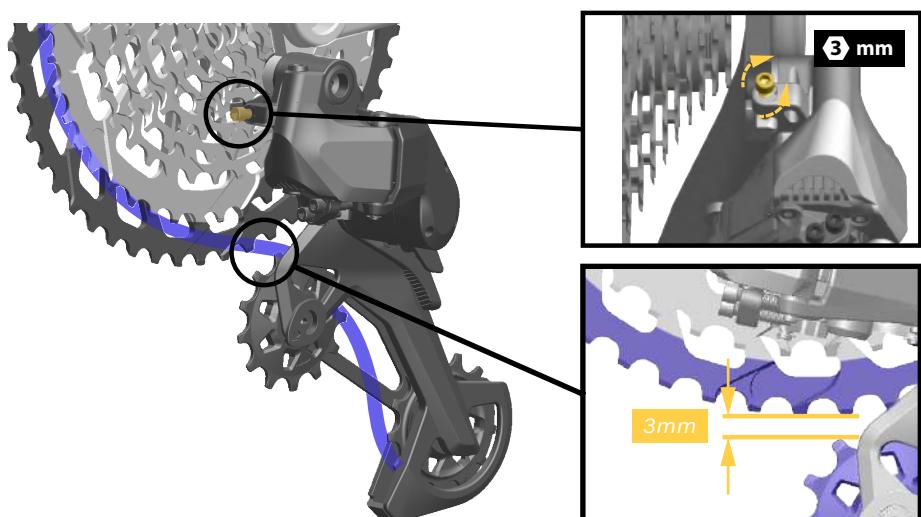
Rotate the B-Tension screw using a 3mm allen wrench to decrease or increase the gap between the upper pulley and the cassette. Measure the gap between the upper pulley and the largest cog of the cassette while the bike is in sag position.

Largest cog on the cassette	B Adjustment Clearance
50T - 52T	15 - 17 mm



## B-tension adjustment w/o Gauge method 2

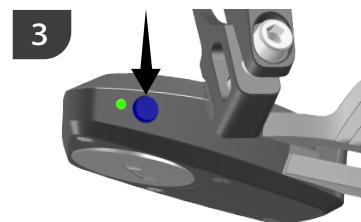
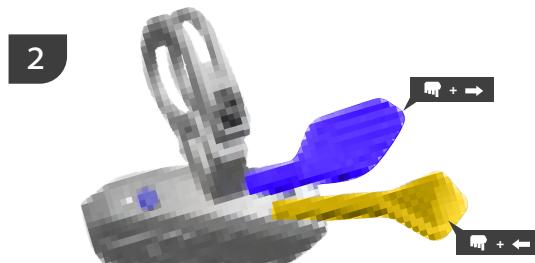
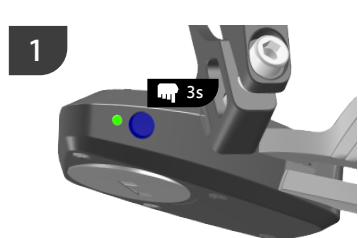
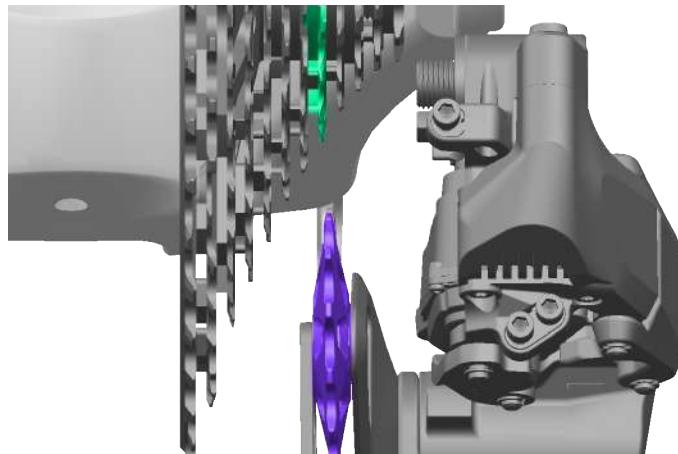
Shift the chain into the second largest cog. Rotate the B-Tension screw using a 3mm allen wrench until the gap between the upper pulley and the tallest teeth of the largest cog is 3 mm.



## ***Derailleur Adjustments***

Shift the derailleur to the 8th cog of the cassette (8th from the largest cog).

Align the pulley wheel with the center of the 8th cog by fine adjusting the rear derailleur.



Enter the fine adjustment mode by long pressing the function button for 3 seconds.

Once in the fine mode, the LED on the shifter will blink green (quickly) when either lever is pressed.

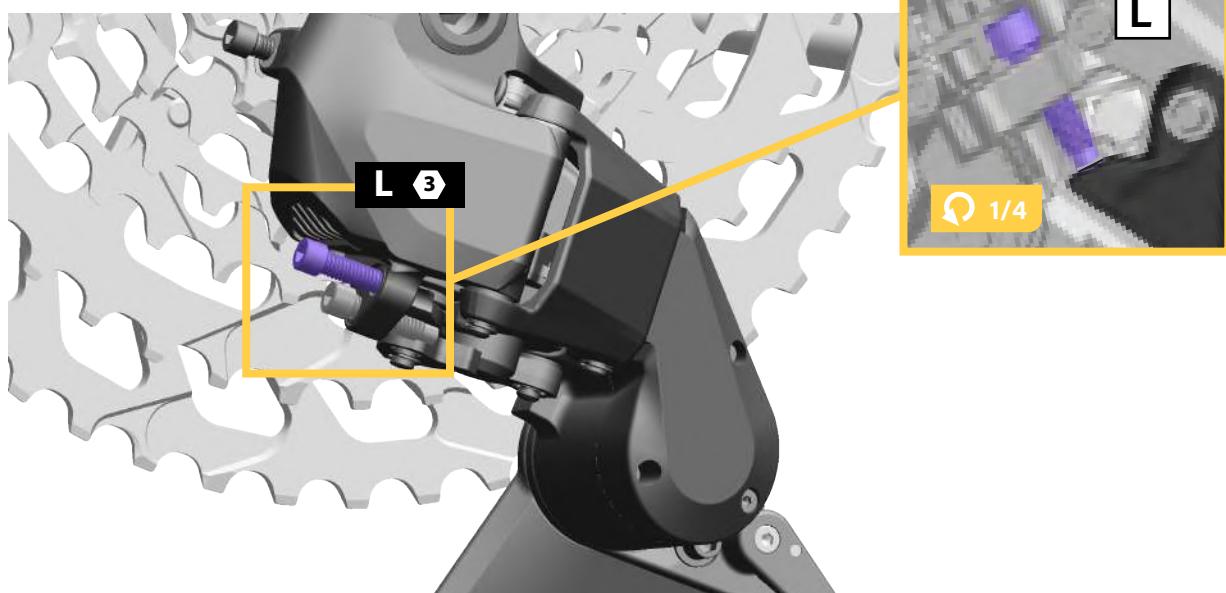
Press the lower lever to adjust the derailleur inboard, and press the upper lever to adjust the derailleur outboard.

Press the function button again to exit the fine adjustment mode.

## ***Limit Screw Adjustment***

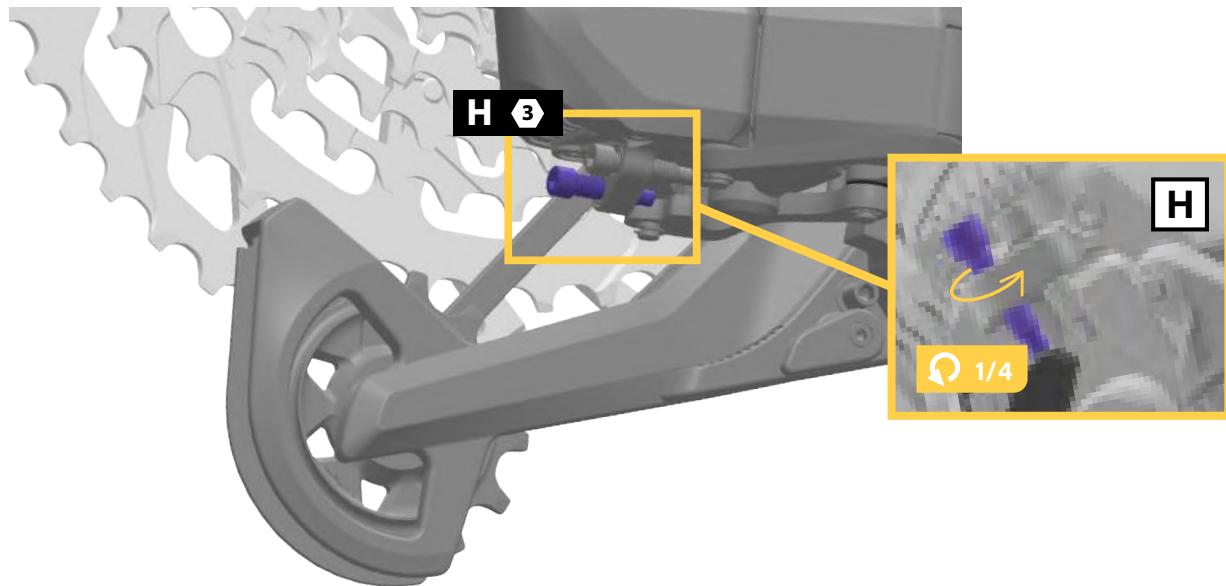
Shift the derailleur inboard to the largest cassette cog.

Adjust the low limit screw (L) so that it lightly contacts the outer link of the derailleur, then back the screw out a 1/4 turn.



Shift the derailleur outboard to the smallest cog.

Adjust the high limit screw (H) until it lightly touches the inner link of the derailleur, then back the screw out a 1/4 turn.

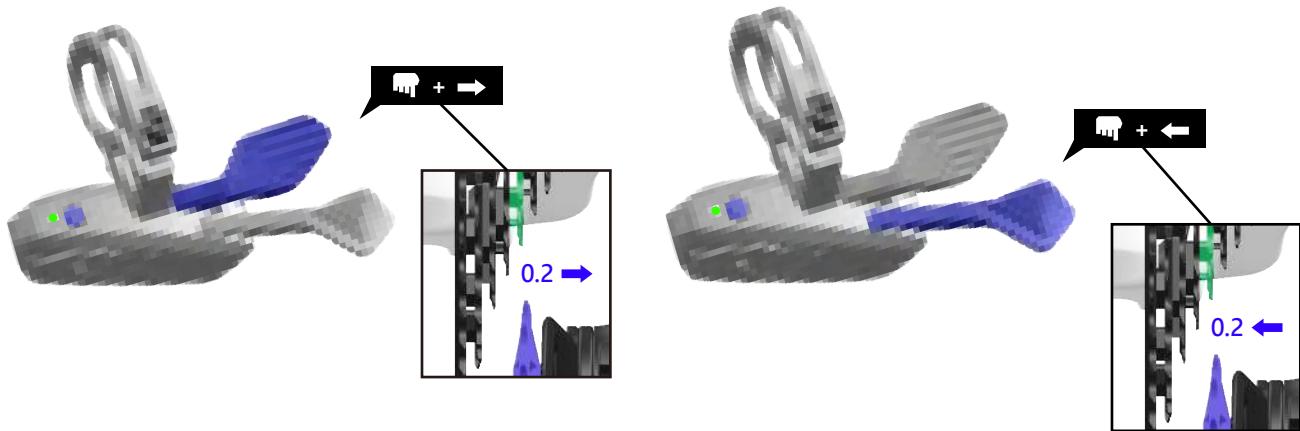


### **Notice**

Always be sure to adjust the top adjustment bolt and the low adjustment bolt according to the instructions given in the adjustment section. If these bolts are not adjusted, the chain may become clamped between the spokes and the largest sprocket and the wheel may lock, or the chain may slip onto the small sprocket.

## ***Derailleur Adjustment***

Derailleur shift performance can be optimized and unwanted rasping noises eliminated by fine-tuning the derailleur position with micro-adjustments.



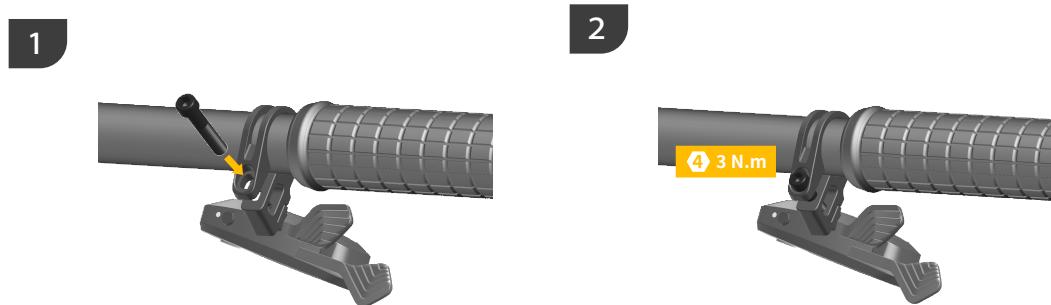
Enter the fine adjustment mode by long pressing the function button for 3 seconds. Once in the fine mode, the LED on the shifter will blink green (quickly) when either lever is pressed. Press the lower lever to adjust the derailleur inboard, and press the upper lever to adjust the derailleur outboard. Press the function button again to exit the fine adjustment mode.

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

The rear derailleur protection function will activate to protect the system when it is subjected to a strong impact such as a fall. When the function is activated, move the derailleur left and right and the derailleur will automatically recovers. No shifting operation is required.

## Shifter Installation

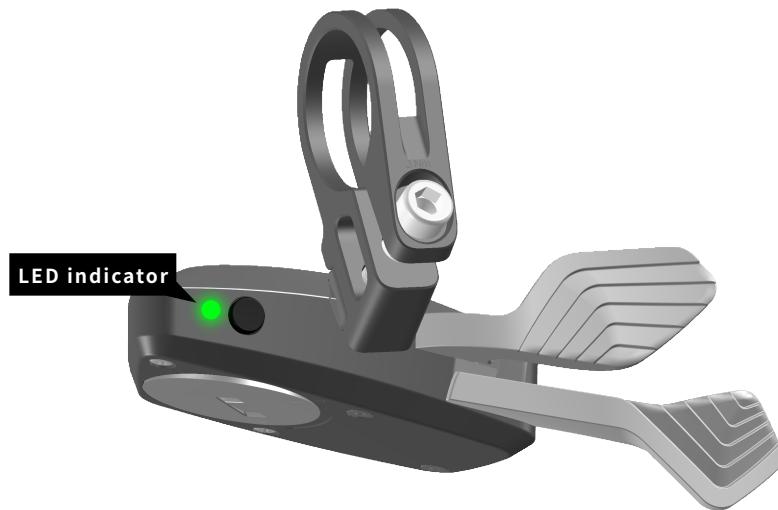
Install the shifter on the bar using the supplied clamp and hardware (or the appropriate shifter integration clamp). Using a 4mm allen wrench, tighten the clamp bolt to 3 Nm.



### Notice

If using carbon handlebars, lightly apply carbon paste to prevent rotation without overtightening.

## Shifter LED Indicator



LED indicator			
Power >30%	Power : 10-30%	Power <10%	Error

The LED illuminates when a shift is performed. The color of the LED indicates the ride time remaining.

The LED will blink red and green when a shift has been rejected. Shifts can be rejected when the temperature is below -15 °C

## Shifter Battery Replacement

Make sure the shifter 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.

**1** 

Use a coin to remove the battery cover.

**2**

Remove the battery



### Notice

To prevent moisture damage do not remove the battery cover o-ring seal.



Insert a new CR2032 battery with the positive + sign facing into the cover.

Reinstall the battery cover. Use a coin to turn the cover clockwise to align the lines and lock it into place.

## Specification

### Rear Derailleur

- Nominal Voltage: DC 13.5Vdc 3.5A

### Shifter

- Nominal Voltage: DC 3Vdc 225mA
- Battery Type: CR2032

### 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 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.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Non-rechargeable batteries are not to be recharged.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- 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.

### ⚠ WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH** of CHILDREN
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



## ***Operation and Storage***

### **Storage and Operating conditions**

#### **Storage conditions:**

- Temperature from -40°C to 70°C, humidity from 10% to 85%

#### **Operating conditions:**

- Maximum temperature 40°C, humidity from 0% to 100%

#### **Service life:**

- 5 years

#### **Safety Precautions:**

- Do not force discharge, recharge, disassemble, heat above the manufacturer's specified temperature rating, or incinerate.
- Failure to follow these instructions may result in injury due to venting, leakage, or explosion, causing chemical burns.

#### **Notice**

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