



TRP

E.A.S.I. for Avinox User Manual

RD-T7010E-S / RD-T7010E-L

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.



- your product, literature, or packaging reminds you that this product must be taken to separate collection at the end of its 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 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.

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

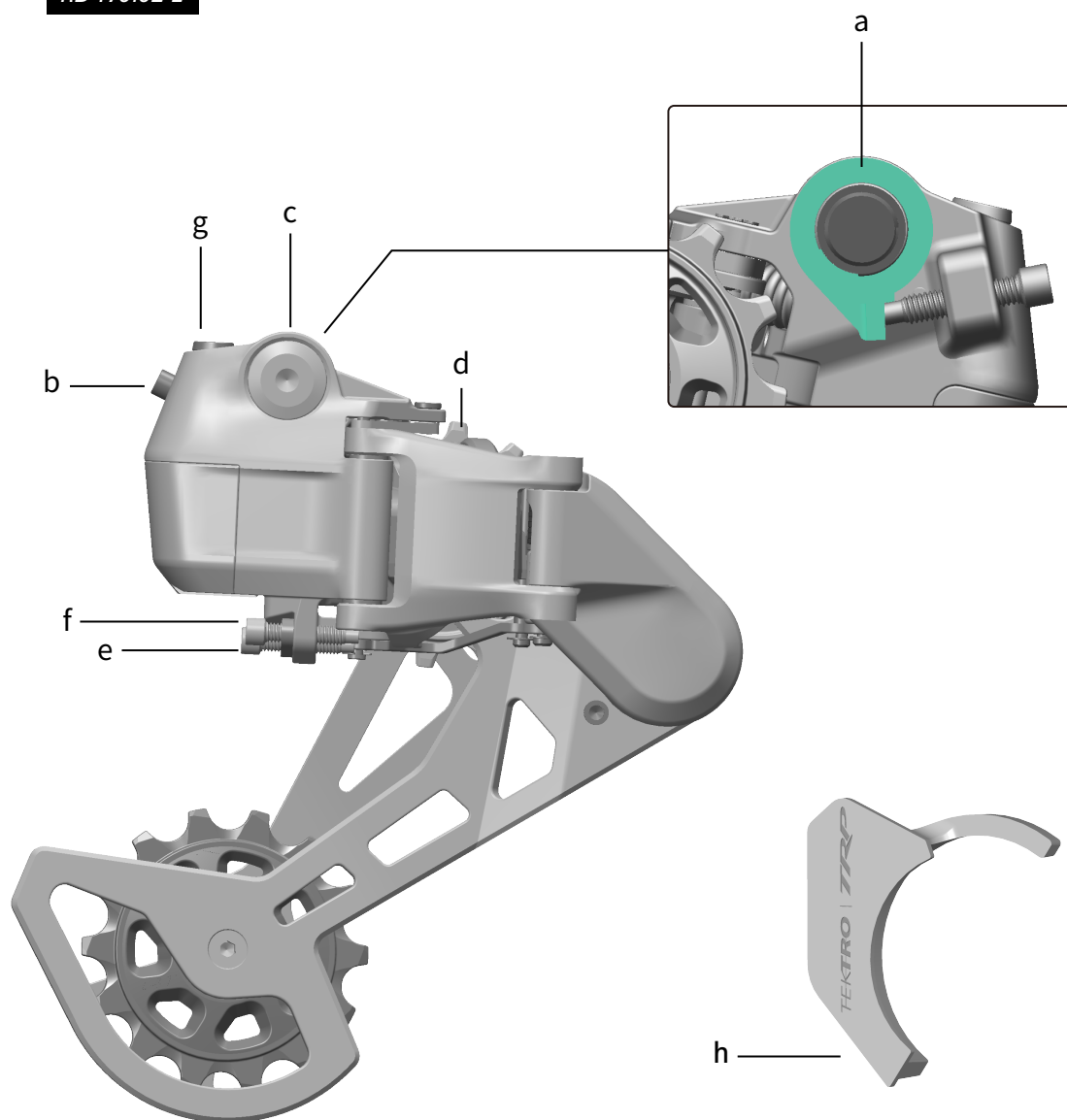
1. To comply with the Canadian RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.
2. For portable operation, this device has been tested and meets RF exposure guidelines when used with an accessory 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 E.A.S.I. Rear Derailleur (RD-T7010E-L)

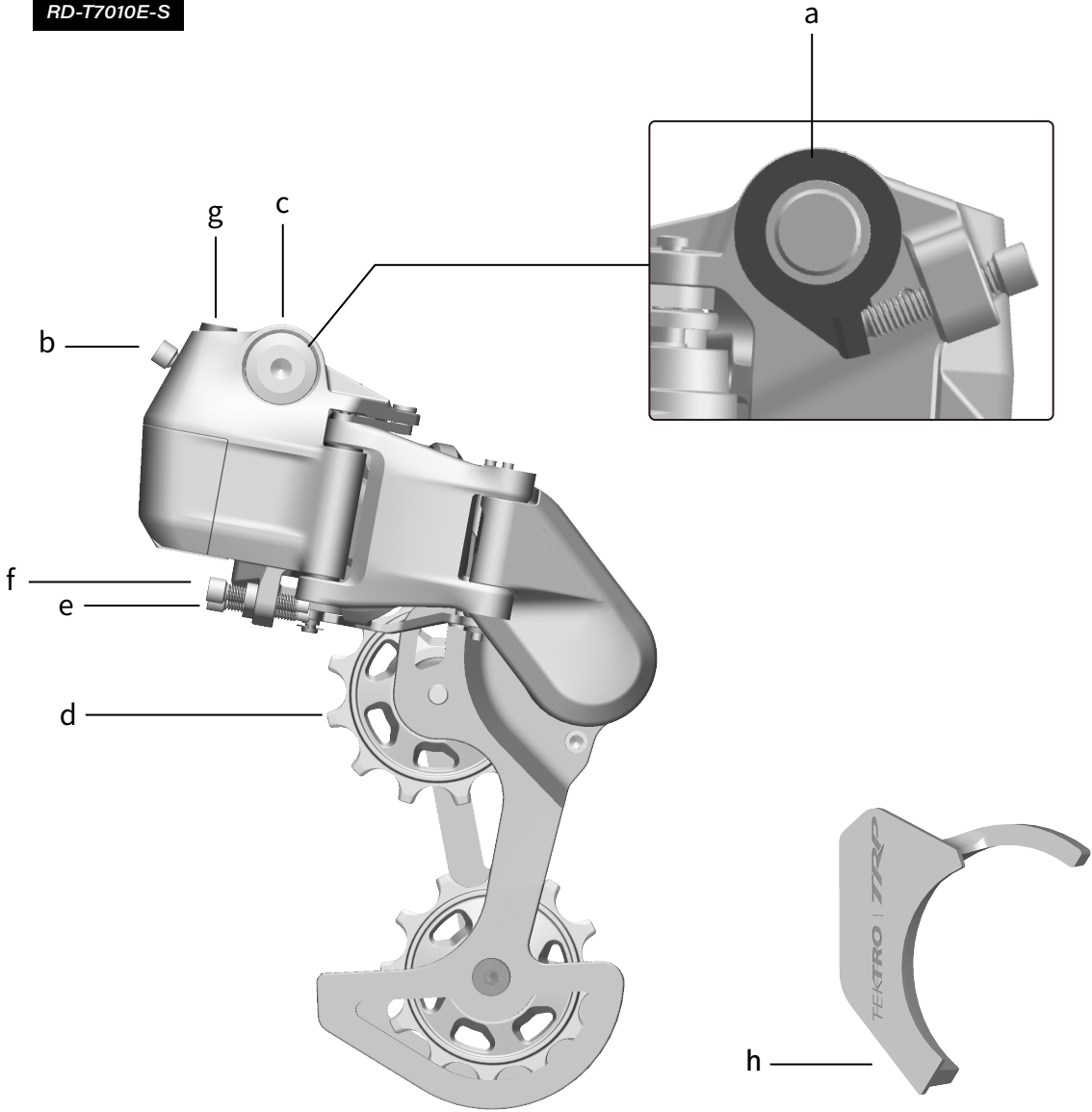
RD-T7010E-L



- | | |
|--------------------|-------------------------------|
| a. B-Plate | e. High Limit Screw |
| b. B-Tension Screw | f. Low Limit Screw |
| c. Mounting Bolt | g. Socket Cover |
| d. Upper Pulley | h. B-tension adjustment gauge |

TRP E.A.S.I. Rear Derailleur (RD-T7010E-S)

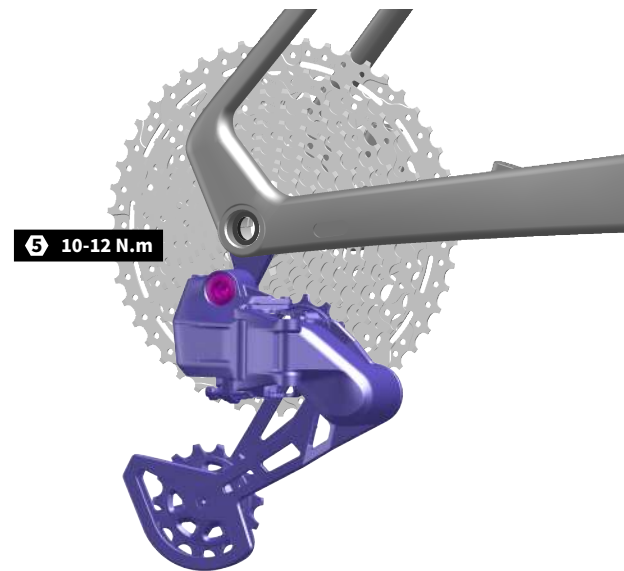
RD-T7010E-S



- | | |
|--------------------|-------------------------------|
| a. B-Plate | e. High Limit Screw |
| b. B-Tension Screw | f. Low Limit Screw |
| c. Mounting Bolt | g. Socket Cover |
| d. Upper Pulley | h. B-tension adjustment gauge |

Derailleur Installation

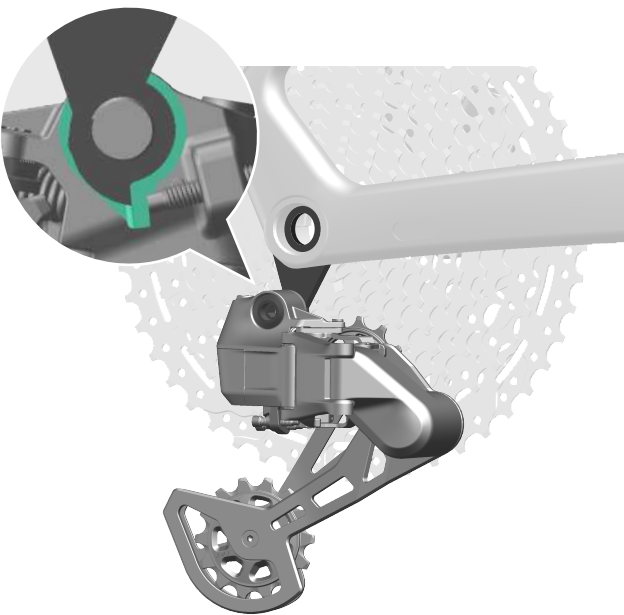
Ensure the derailleur hanger is straight using a hanger alignment tool.



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.

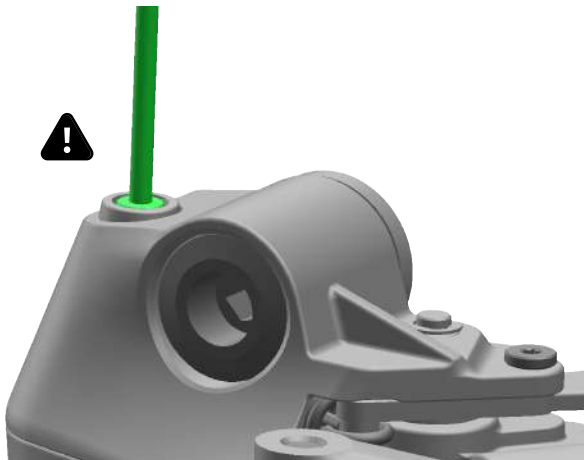


Notice

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
E.A.S.I. (RD-T7010E-L)	50T
E.A.S.I. (RD-T7010E-S)	43T

Connecting the Rear Derailleur



Connect the power cable to the rear derailleur. When connecting the power cable, ensure that the socket cover is properly installed and push the cable in firmly until it is flush with the socket cover.

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.

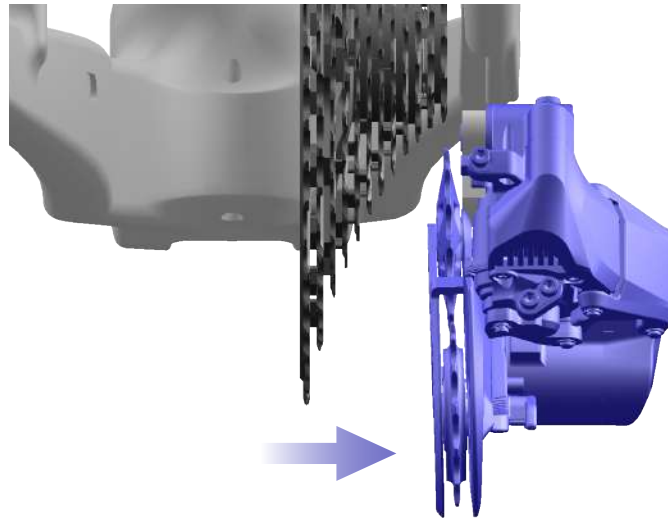
Secure the electric wires with a zip tie so that they do not interfere with the chainrings, sprockets or tires.

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

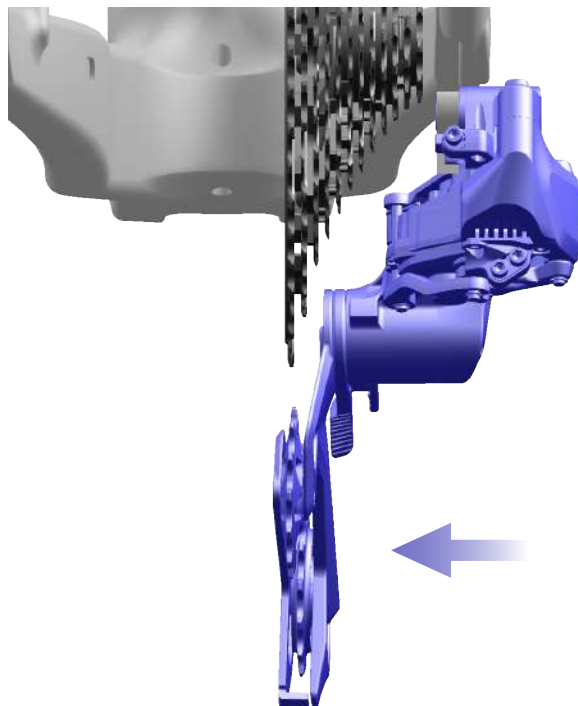
Do not keep connecting and disconnecting the small waterproof connector. The waterproof section or the connecting section may become worn or deformed, and the function may be affected.

Shifting Operation

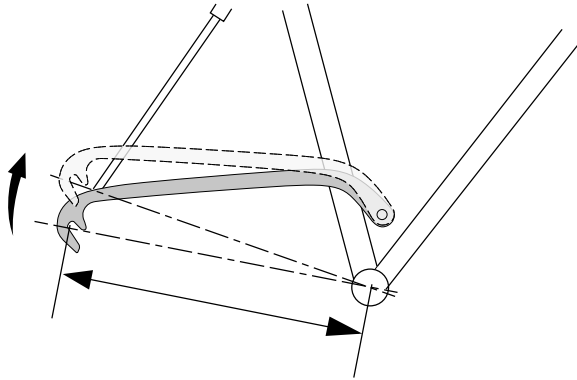
- 1 Assign the controller buttons as the upshift and downshift buttons through the controller customization function.
- 2 Procedure: Swipe up on the HMI screen to enter setting → Customization Controller → Set the upshift and downshift buttons.
- 3 Press the upshift button to move the derailleur outboard to a smaller cog.



- 4 Press the downshift button to move the derailleur inboard to a bigger cog.



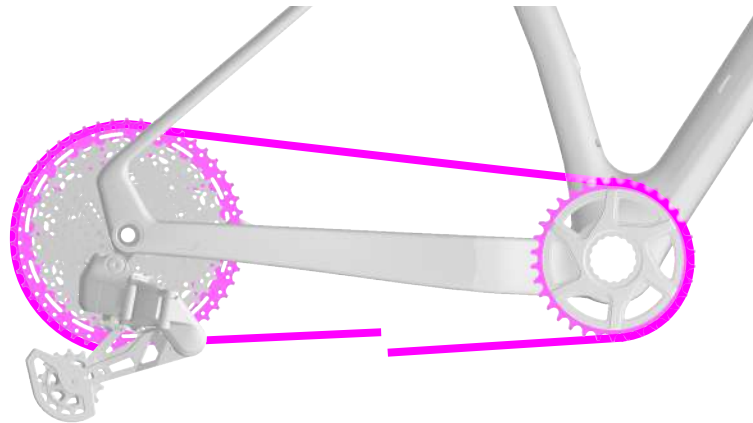
Chain Sizing



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.

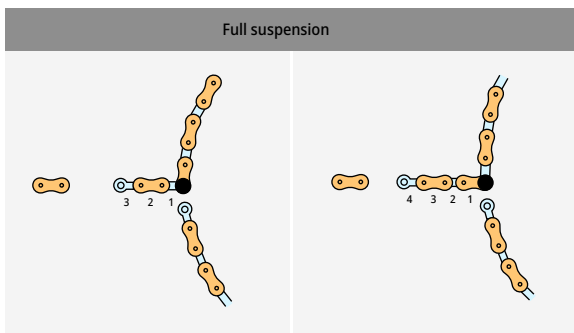
Wrap the chain around the chainring and largest cog of the cassette.



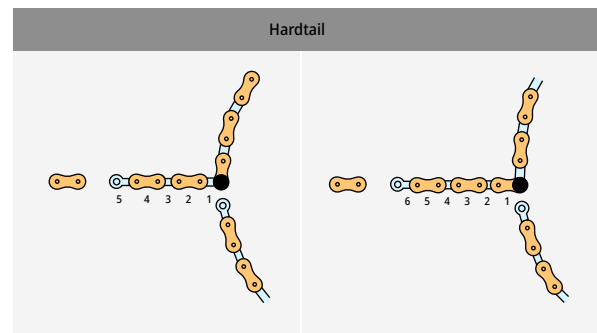
Warning

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.

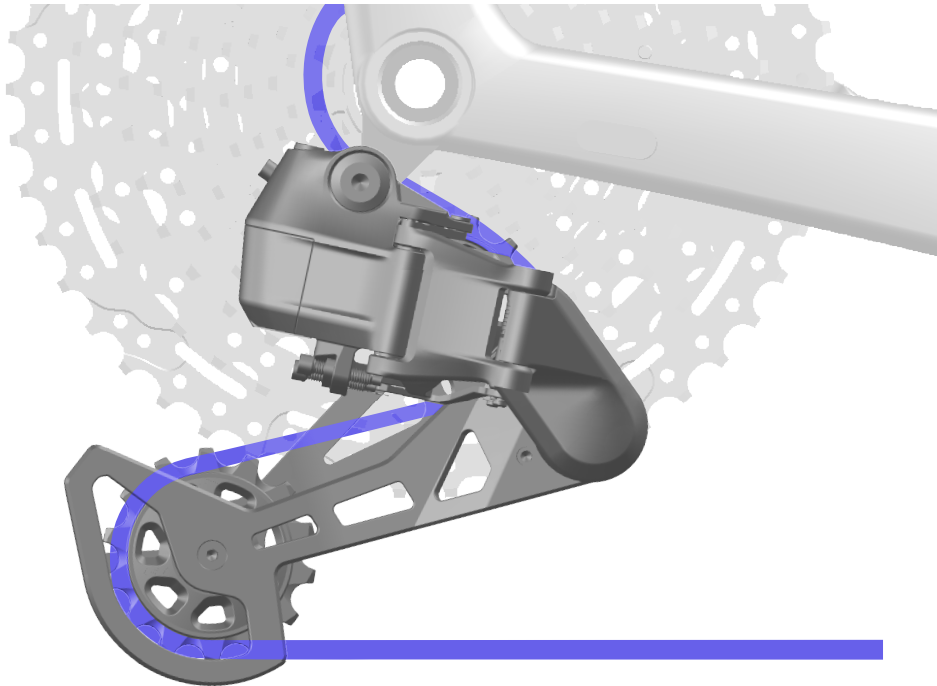


Add 3 or 4 links of chain, and break the chain so the last link is a narrow link



Add 5 or 6 links of chain, and break the chain so the last link is a narrow link

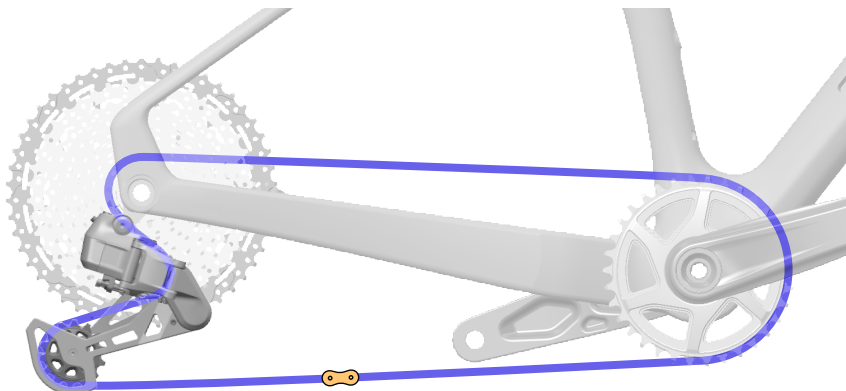
Route the chain through the derailleur pulleys. Make sure to route the chain below the tab in the cage.



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.



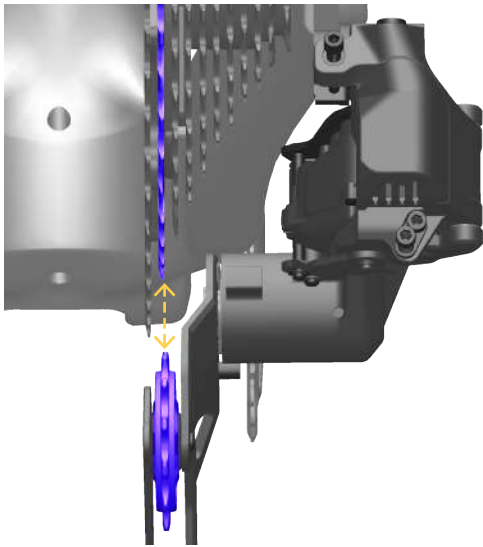
B-Tension Adjustment

Notice

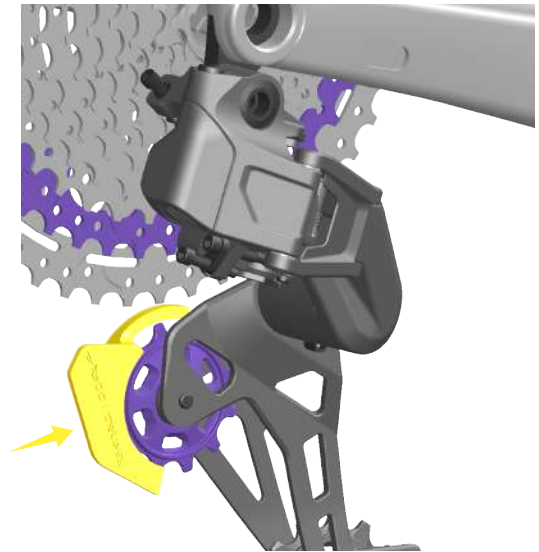
For full suspension bicycles, measure the chain gap while the bicycle is in the sag position.

B-tension adjustment w / Gauge

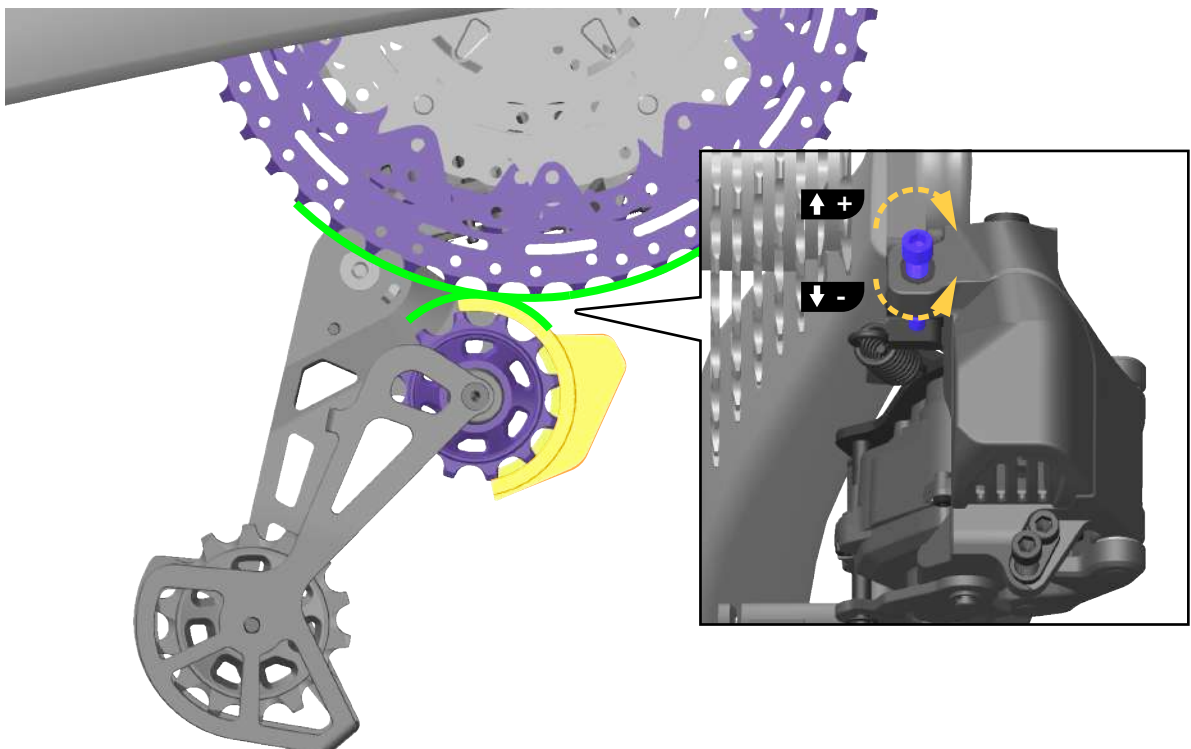
- 1** Shift the derailleur into the second largest cog of the cassette.



- 2** Install the B-tension adjustment gauge on to the upper pulley.



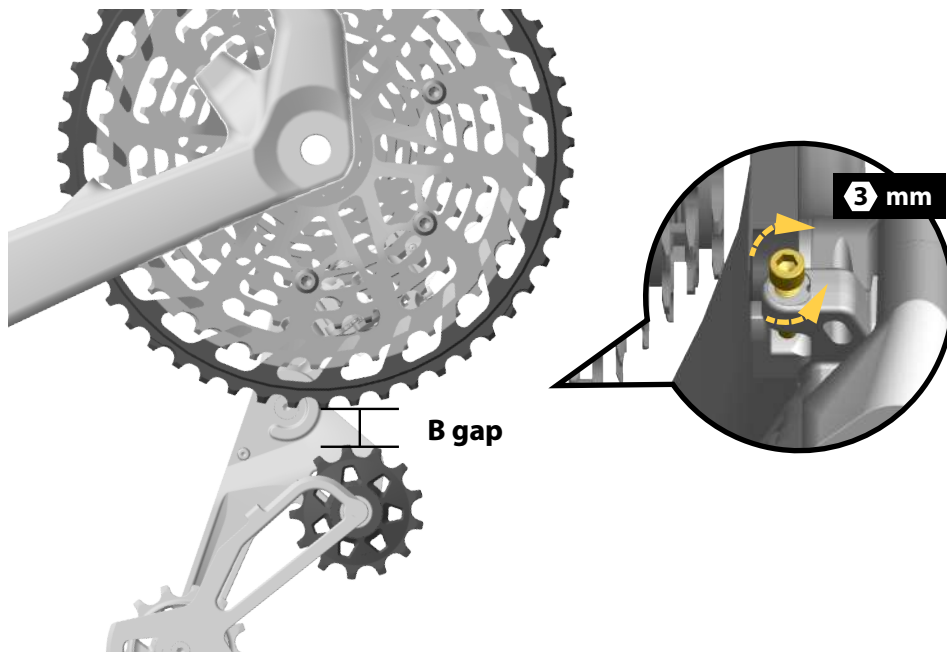
- 3** Adjust the B tension screw using a 3mm hex wrench to ensure the tips of the teeth of the largest cog on the cassette contact the extended portion of the B-tension adjustment gauge. To increase the B tension, turn the B tension screw clockwise; to decrease the B tension, turn the B tension screw counterclockwise.



B-tension adjustment w/o Gauge method 1

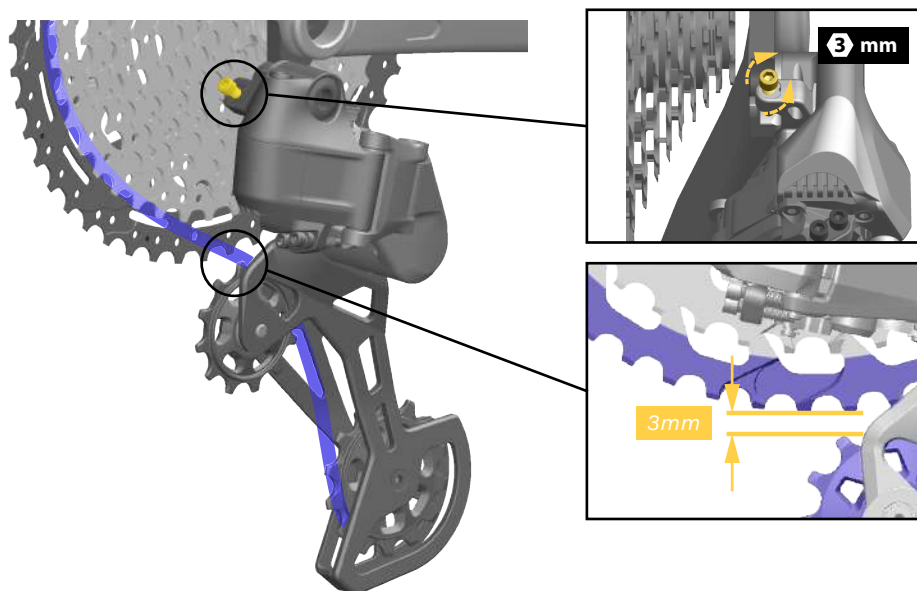
Rotate the B-Tension screw using a 3mm allen wrench to decrease or increase the gap between the upper pulley and the cassette. Measure the gap between the upper pulley and the largest cog of the cassette while the bike is in sag position.

Model	Biggest cog on the cassette	B adjustment clearance
E.A.S.I. (RD-T7010E-L)	50T	16-18mm
E.A.S.I. (RD-T7010E-S)	43T	15-16mm



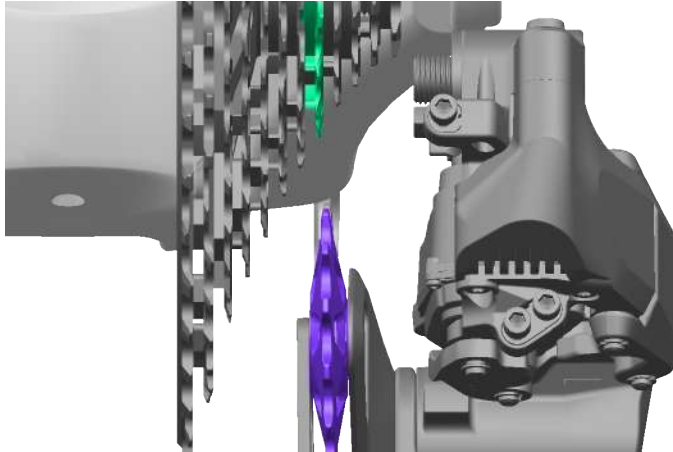
B-tension adjustment w/o Gauge method 2

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.

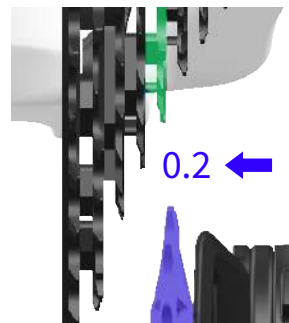
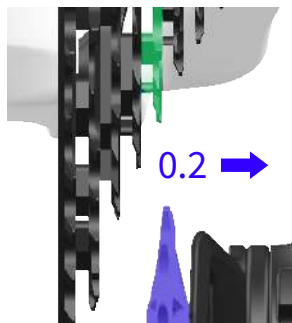


Derailleur Adjustments

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



- 1** Use the Avinox HMI to fine-adjust the shifting position.
- 2** Procedure: Swipe up on the HMI screen → General → Calibration → Electronic Rear Derailleur
- 3** Fine adjust the rear derailleur shifting position using the “Shift Gears & Fine-Tune Position” functions.

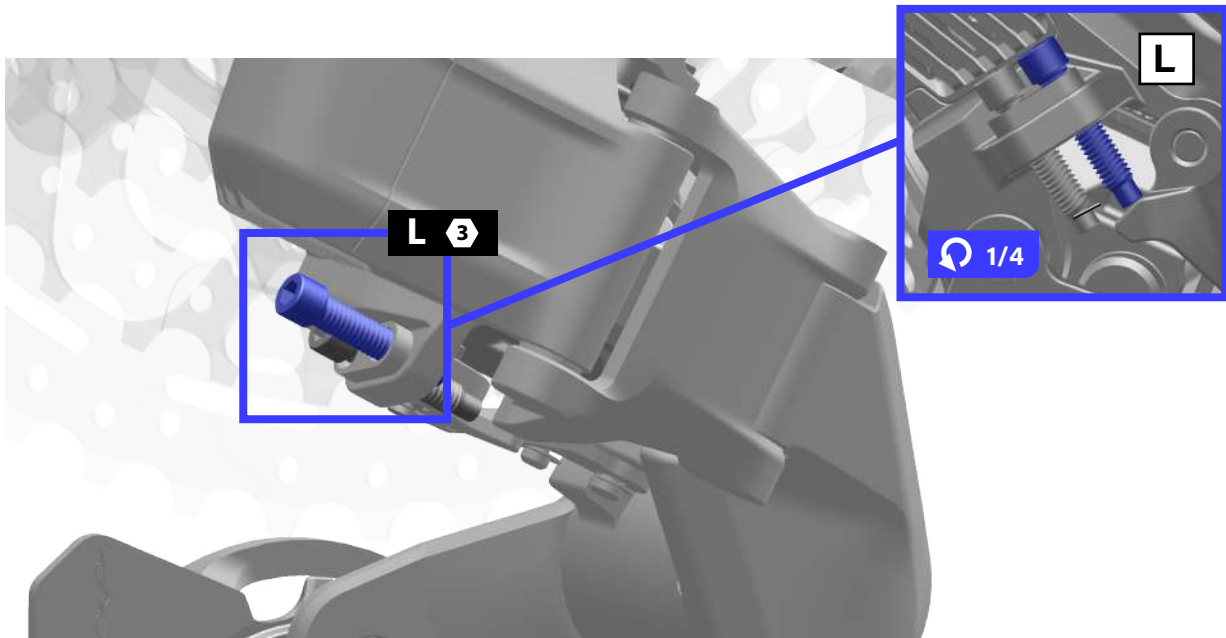


- 4** After completing the adjustment, return to the previous menu and save the settings.

Limit Screw Adjustment

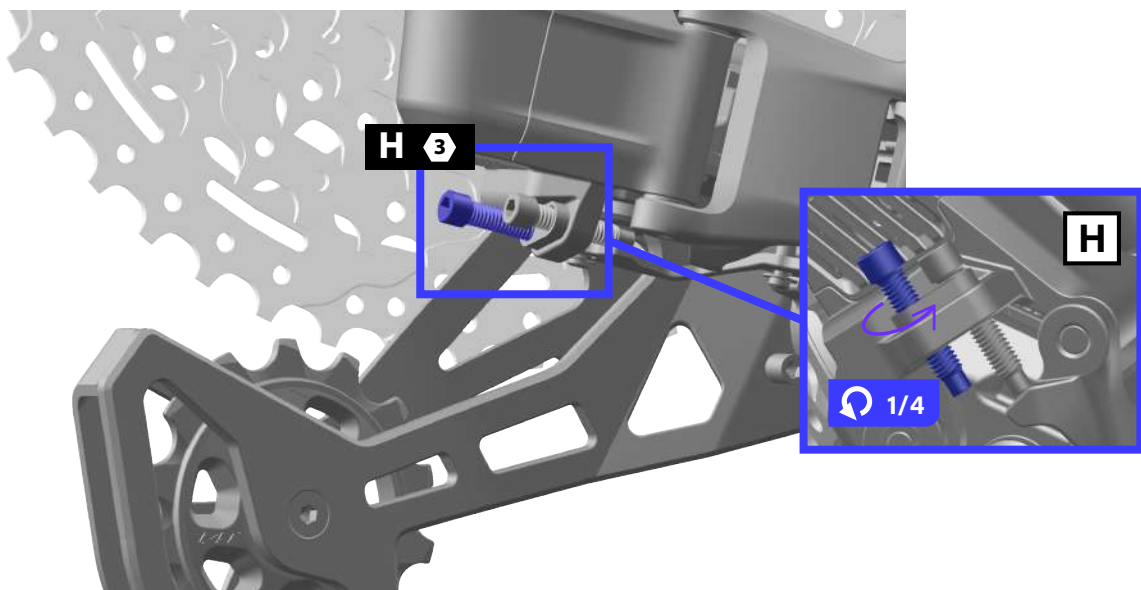
Shift the derailleur inboard to the largest cassette cog.

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.



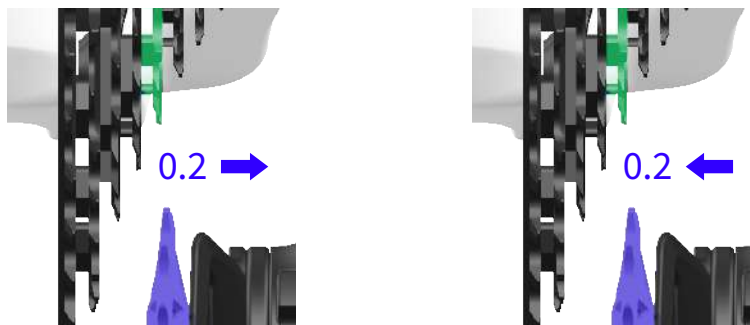
Notice

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.

Deraillleur Adjustments

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

- 1** Use the Avinox HMI to fine-adjust the shifting position.
- 2** Procedure: Swipe up on the HMI screen → General → Calibration → Electronic Rear Deraillleur
- 3** Fine adjust the rear deraillleur shifting position using the “Shift Gears & Fine-Tune Position” functions.



- 4** After completing the adjustment, return to the previous menu and save the settings.

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 recover. No shifting operation is required.

Specification

Rear Deraillleur

- Nominal Voltage: DC 12Vdc 3A

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.