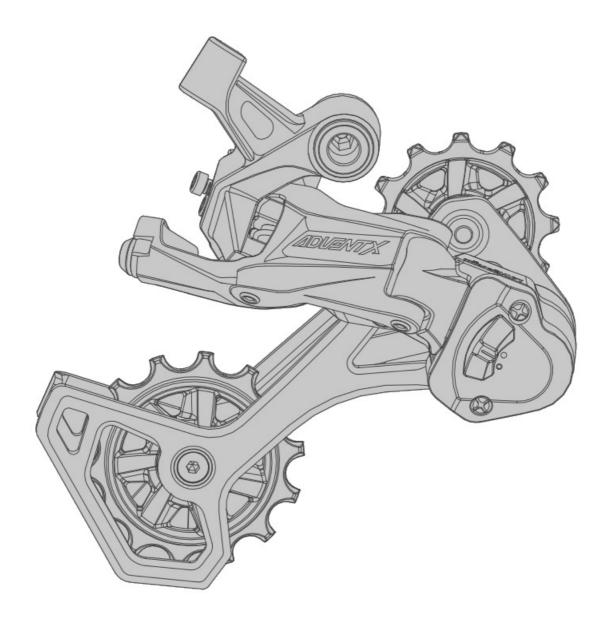


microSHIFT RD002-008 Advent X Rear Derailleur User Manual

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microSHIFT RD002-008 Advent X Rear Derailleur



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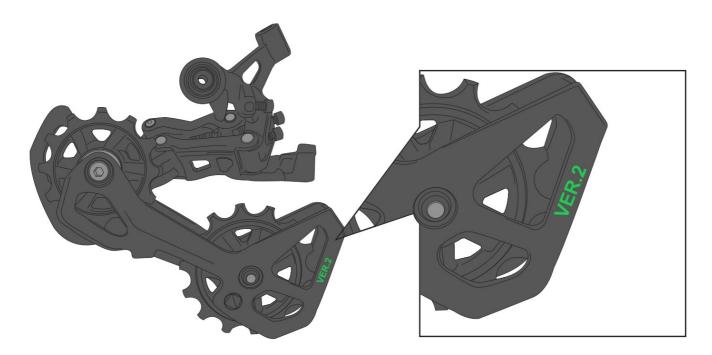
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REMINDER

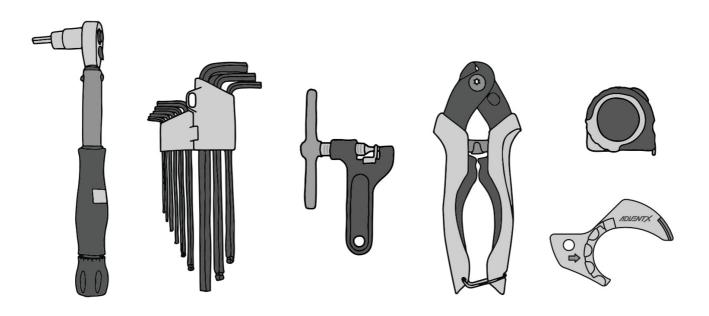
Before installing the products, please read and understand the installation procedures. Improper installation can lead to premature product failures or even injuries. If you have any questions on how to install, please contact us or consult with a professional bicycle mechanic.

Derailleurs with "VER.2" marking have a different B-tension adjustment than the original ADVENT X. For more info, see Step 10 for B-tension adjustment.



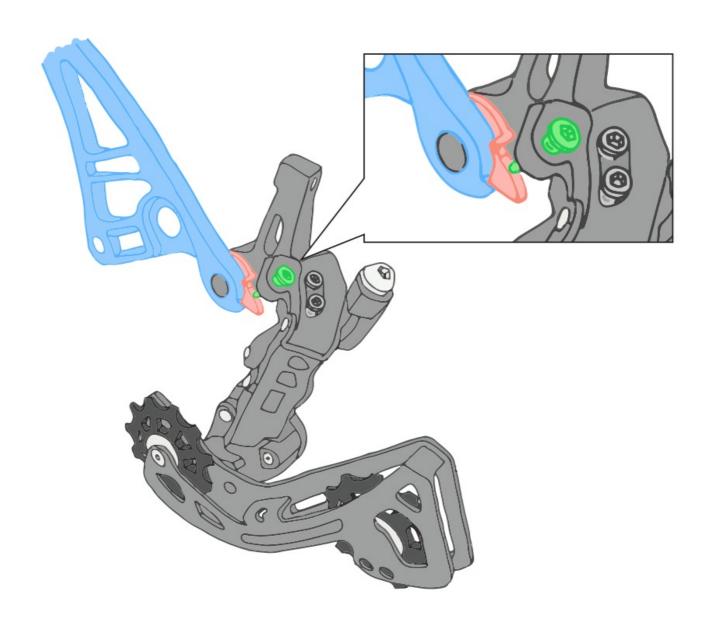
Tools and Supplies

- 1. Torque wrench
- 2. 4mm & 5mm Hex bits
- 3. Allen wrenches
- 4. Chain breaker
- 5. Cable cutter
- 6. Tape measurer
- 7. Derailleur adjustment tool (optional)

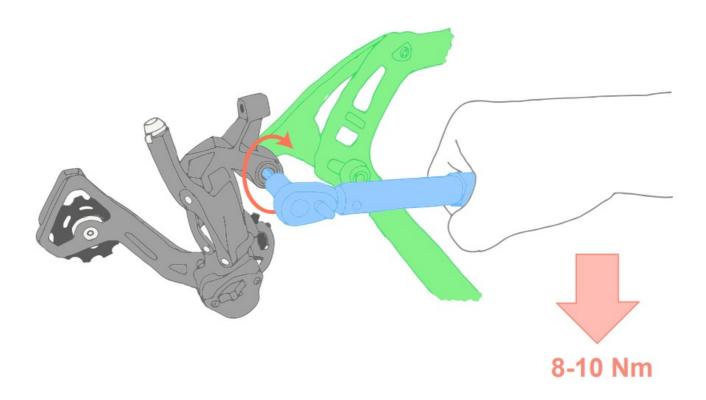


Rear Derailleur Installation

Attach rear derailleur to the bike. Make sure the B-tension washer is above the derailleur dropout and engages correctly with the B-tension adjustment screw.

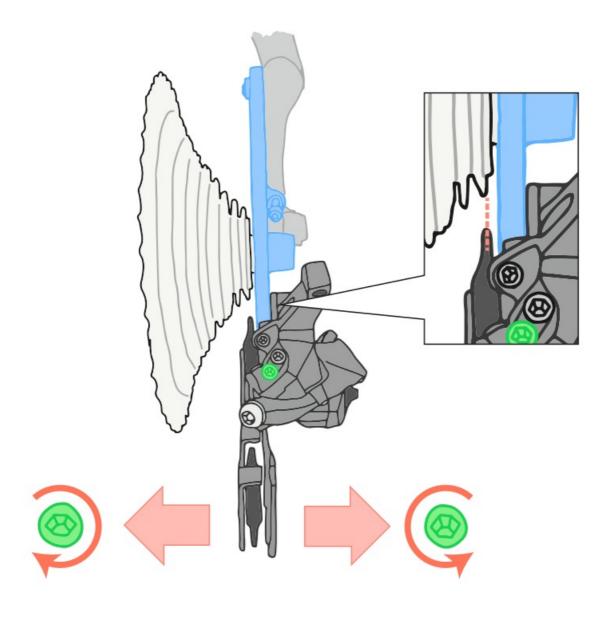


Tighten the rear derailleur fixing bolt to 8-10 Nm with a 5mm hex bit torque wrench. Check to make sure that the derailleur can rotate freely.



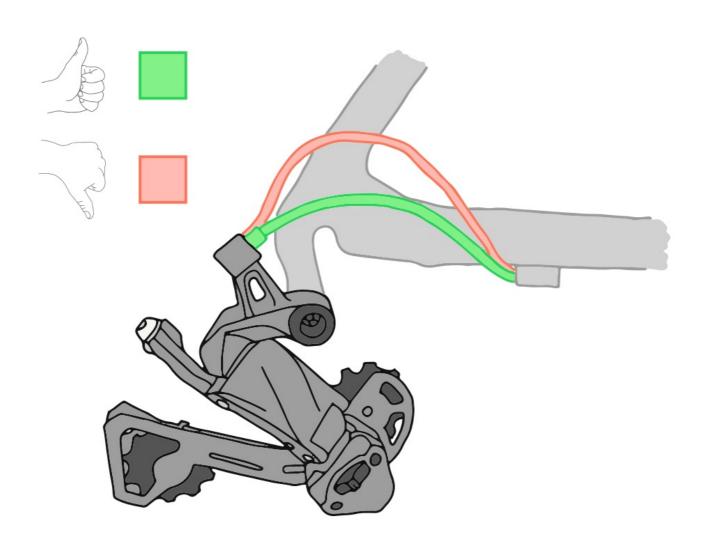
H-Limit Screw Adjustment

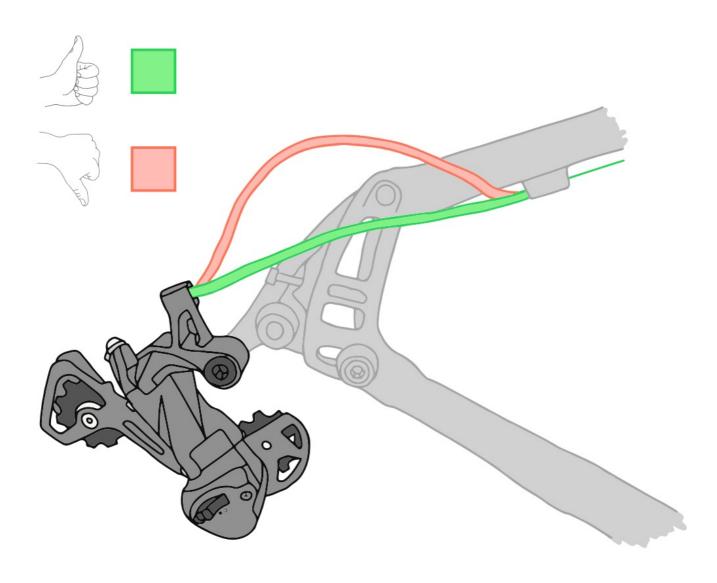
Adjust the high-limit screw until the guide pulley aligns with the outer edge of the smallest cog.



Proper Cable Housing

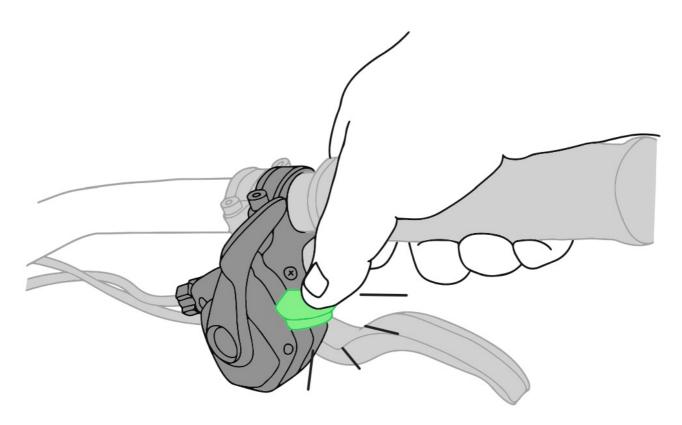
Every frame manufacturer has different cable routing guidelines, so make sure you consult those before cutting the housing. ADVENT works best when there is not too much of a curve in the housing, and not too little slack either. Make sure the end of the housing is sitting against the rear derailleur as well.



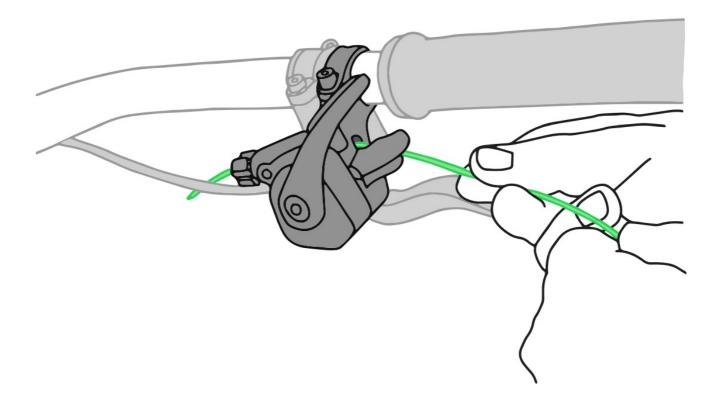


Cable Installation

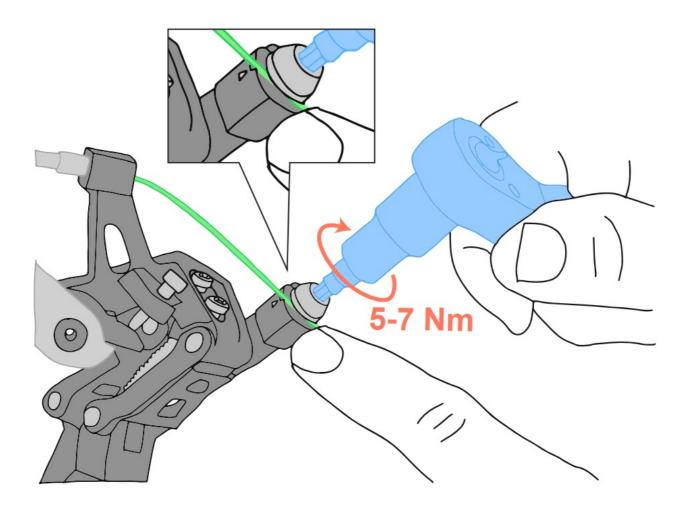
Before installing the cable, use the trigger lever to shift to the highest gear.



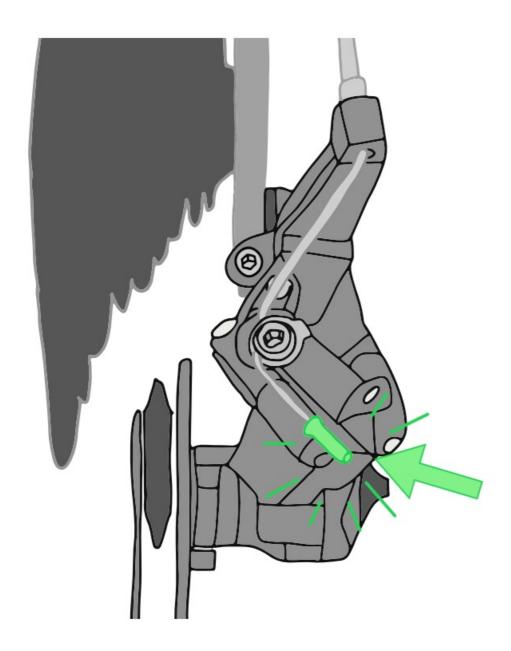
Route the cable through the shifter, housing, and rear derailleur.



Route the cable underneath the cable fixing bolt and washer. Make sure the cable is resting in the groove under the washer. Tighten to 5-7 Nm.



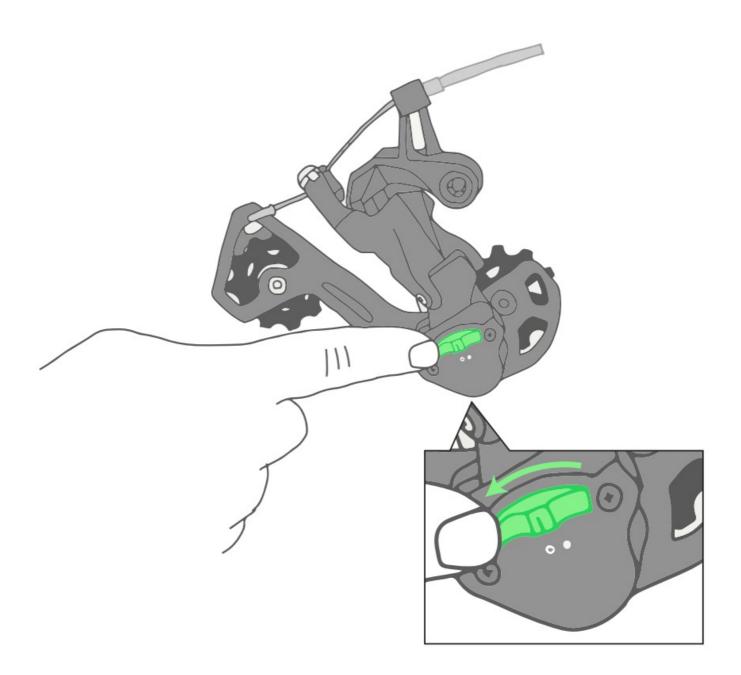
Cut the cable and attach the cable end.



Disable Clutch



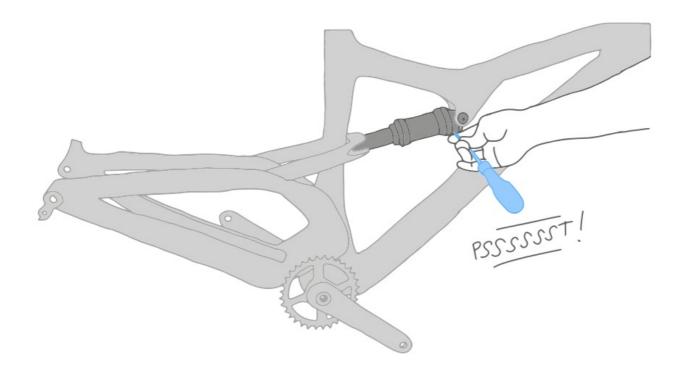
Disable the clutch by moving the switch on the side of the derailleur to the open circle position



Chain Sizing

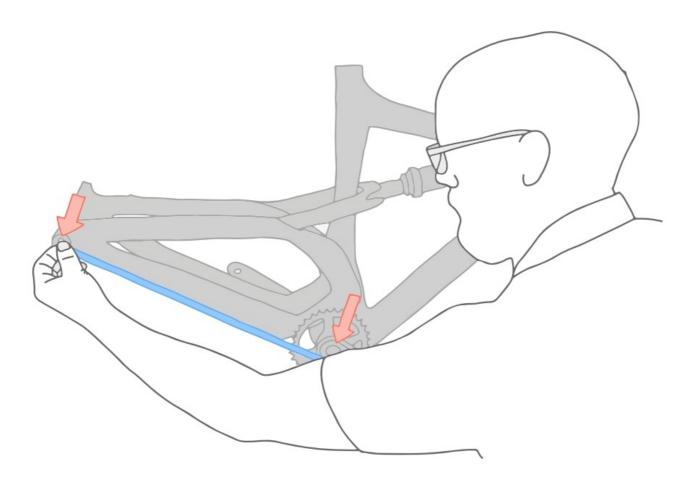


To properly size the chain on a full suspension bike, release air from the rear shock or remove the shock completely.



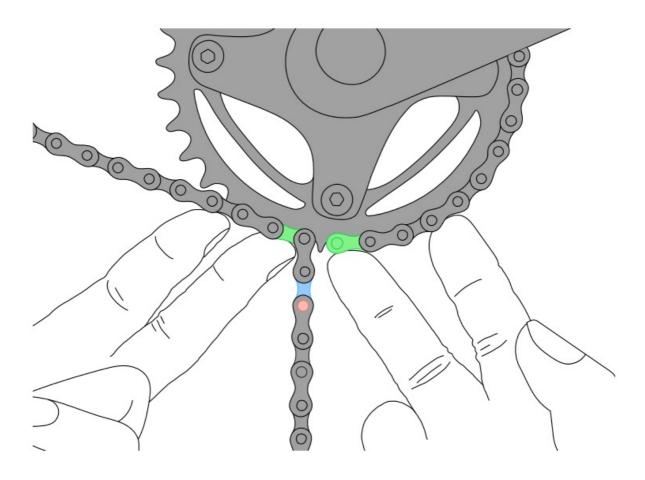
Full Suspension Bike Only

Move the rear axle up and down as you measure the distance between the bottom bracket and the rear axle. Find the position where they are furthest apart and perform the next step at this position.



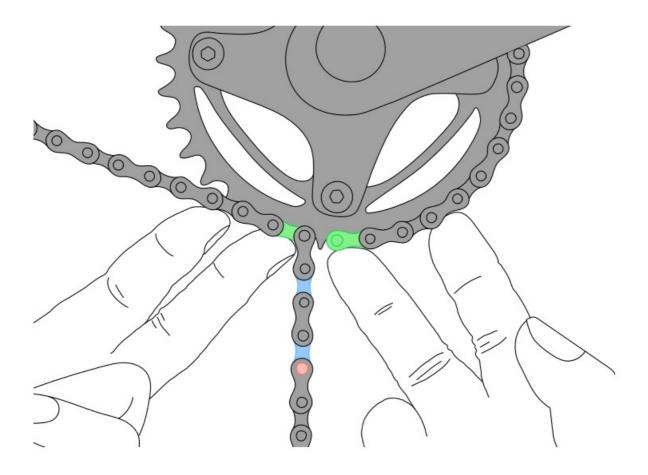
Hardtail

Place two inner links next to each other on the chainring. Add one inner link and cut the chain there.

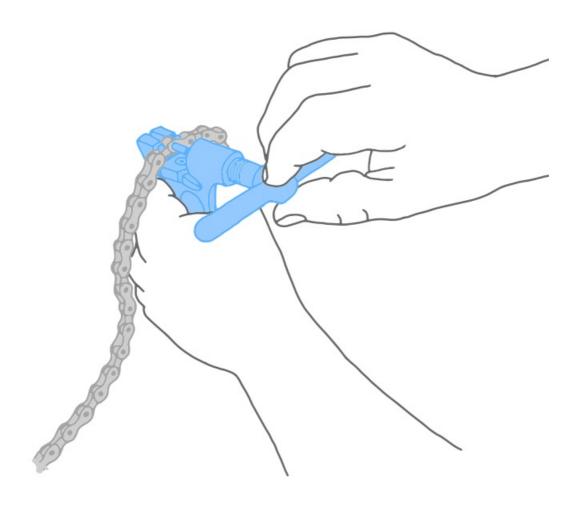


Dual Suspension

Place two inner links next to each other on the chainring. Add two extra inner links and cut the chain there.

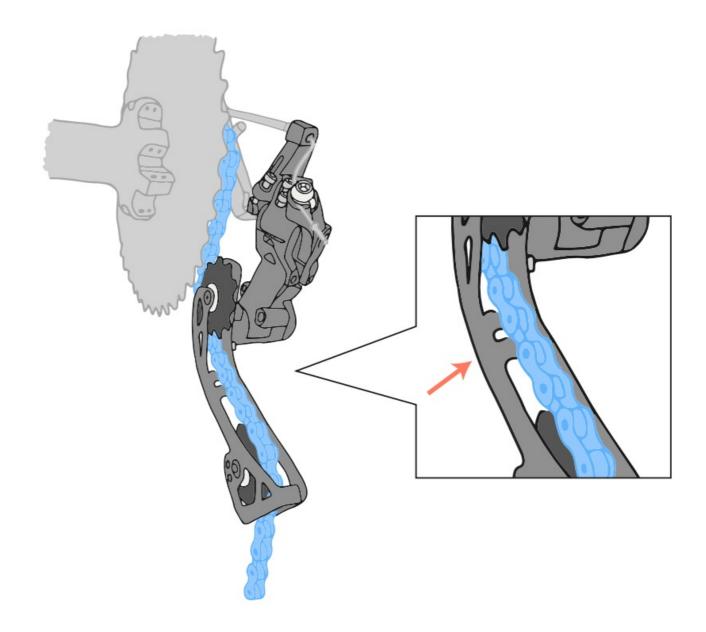


Cut the chain using a chain breaker.



Chain Installation

Route the chain over the smallest cog, in front of the guide pulley, behind the derailment prevention plate, and behind the tension pulley. Wrap the chain around the chainring and connect the chain according to the chain manufacturer's instruction manual.

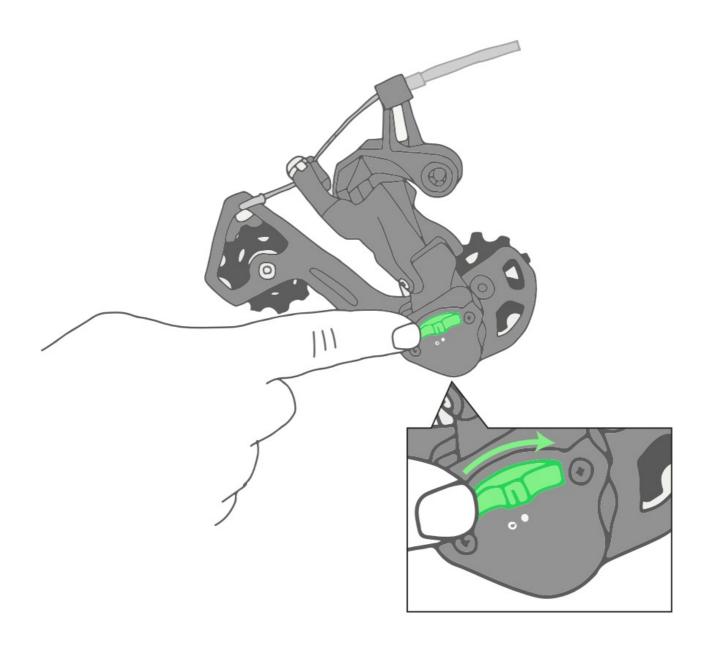


Shifting Adjustment

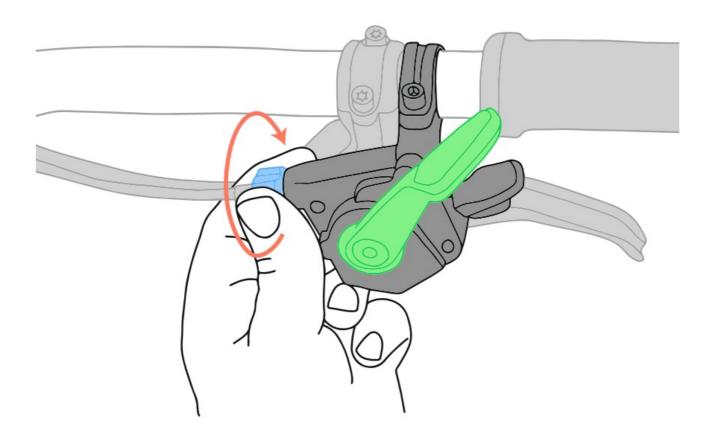


Clutch Rear Derailleur Only

Before adjusting the shifting, enable the clutch by moving the switch on the side of the derailleur to the closed circle position.

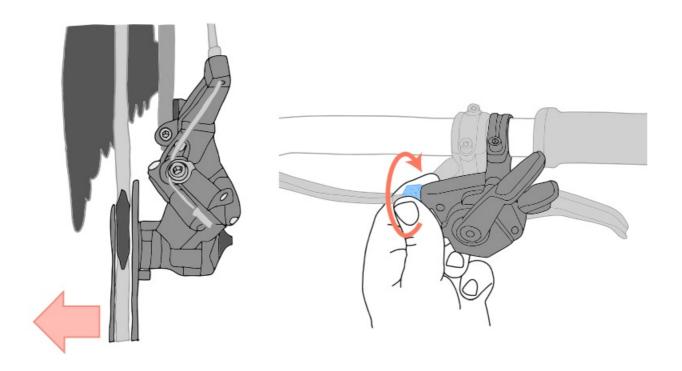


Shift from the smallest cog to the 2nd smallest cog by pressing the lower thumb trigger lever on the shifter. If the chain doesn't move, turn the barrel adjuster on the shifter counter-clockwise. Repeat until the derailleur shifts to the 2nd smallest cog.

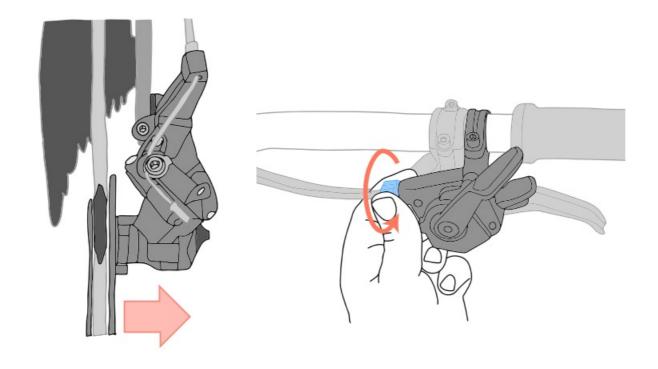


Now make several shifts up and down the cassette. If shifting is slow to move to a larger cog, turn the barrel adjuster counter-clockwise. If the shifting is slow to move to a smaller cog, turn the barrel adjuster clockwise.

Slow to shift to larger cogs

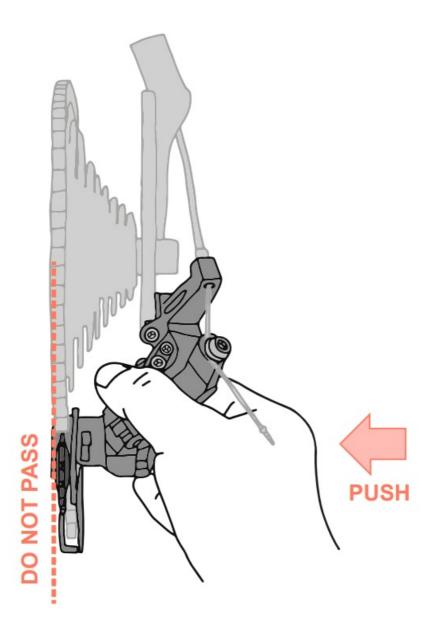


Slow to shift to smaller cogs

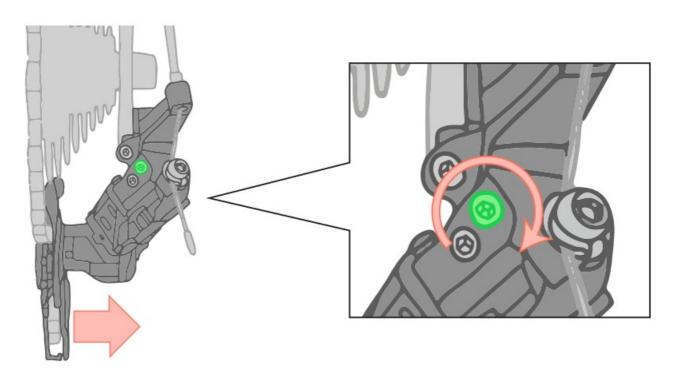


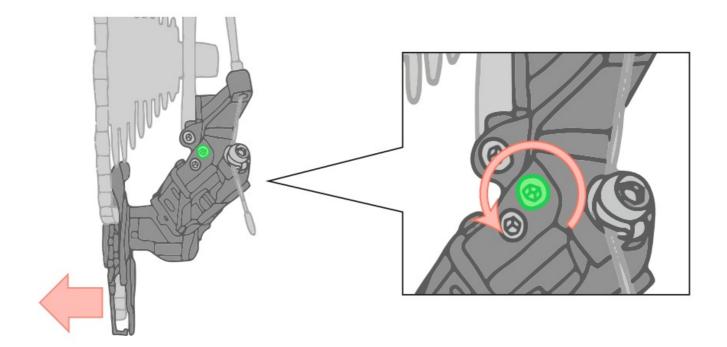
L-Limit Screw Adjustment

Shift to the largest cog on the cassette. Using your hand, try to push the rear derailleur past the largest cog. If the derailleur can move past the cog, adjust the low limit screw.



Tighten the low limit screw until you can't move the derailleur past the largest cog. Shift down and back up to the largest cog. If it is slow to shift to the largest cog, loosen the low limit screw.



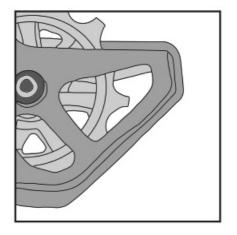


B-Tension Screw Adjustment

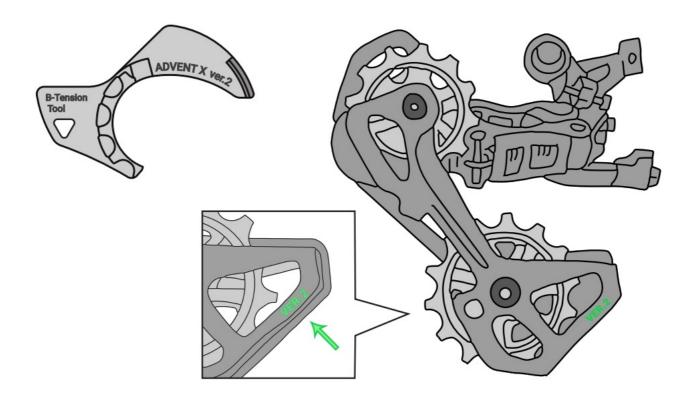
Identify your derailleur version, and adjust B-tension with the correct tool.

Use Version 1 ADVENT X tool

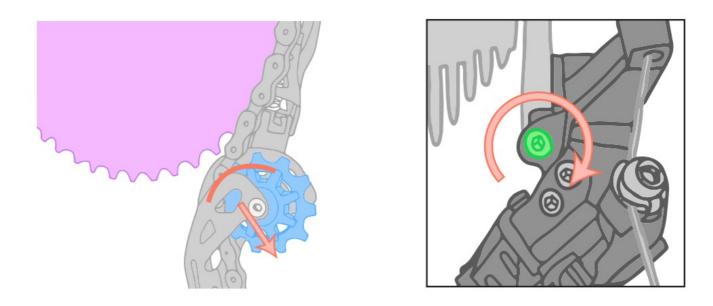




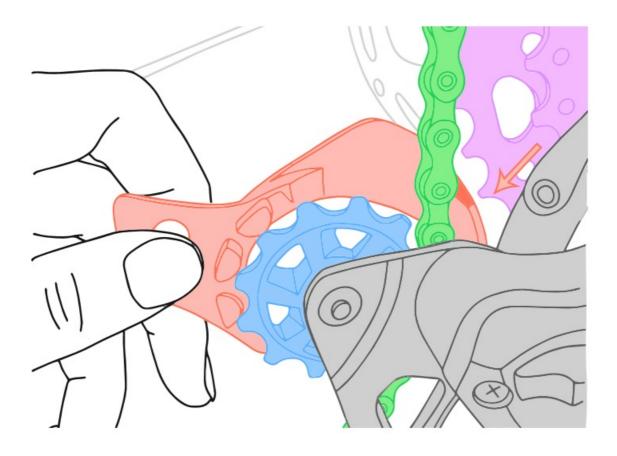
Use Ver. 2 ADVENT X tool



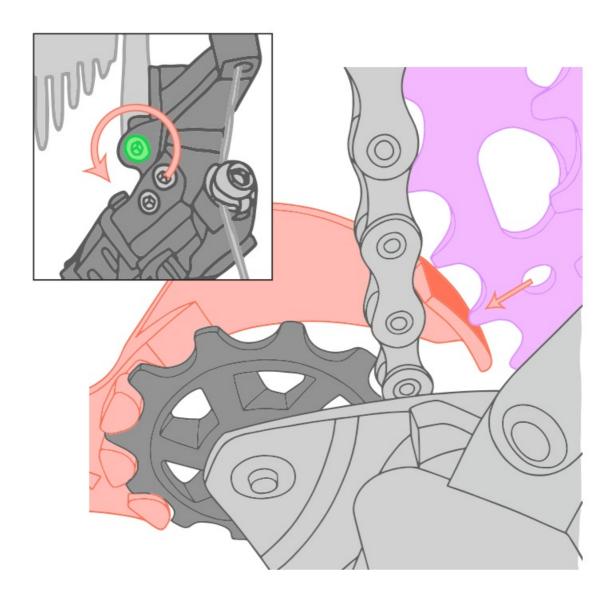
With the chain in the largest cog, tighten the B-tension screw to move the guide pulley away from the the largest cog.



Snap the derailleur adjustment tool on to the guide pulley. Make sure the tool is touching the chain but not touching the cassette cog. Tighten the B-tension screw if the tool does not have enough room.

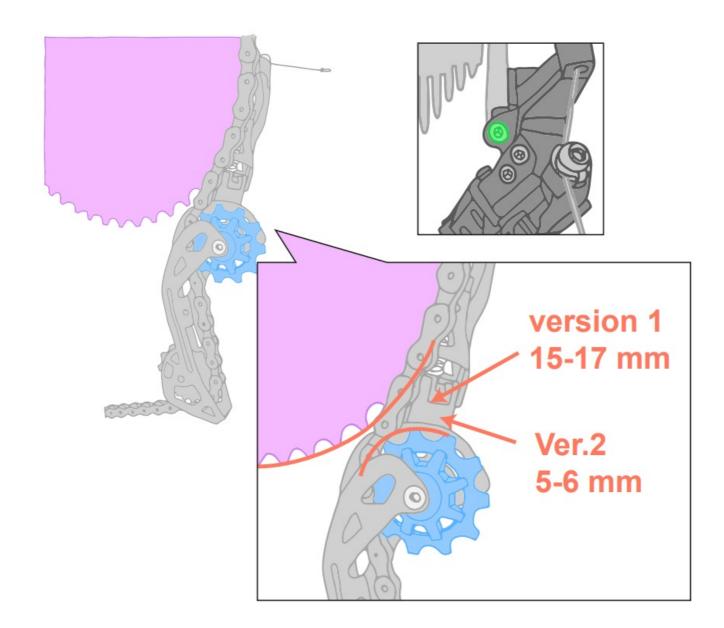


Loosen the B-tension screw until the derailleur adjustment tool lightly touches the tallest tooth of the largest cog. Remove the tool when finished.



Optional: Adjust B-tension WITHOUT an adjustment tool

Adjust the B-tension screw until there is a proper spacing between the guide pulley and the tallest teeth of the largest cog.



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www.microshift.com

International service-tw@microSHIFT.com

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Documents / Resources



microSHIFT RD002-008 Advent X Rear Derailleur [pdf] User Manual RD002-008, RD002-008 Advent X Rear Derailleur, RD002-008, Advent X Rear Derailleur, X Re ar Derailleur, Rear Derailleur, Derailleur

References

- microSHIFT
- User Manual

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