PX Carbon & PX Carbon Pro

Maintenance Manual

2026.04



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Using this Manual

Legend

Symbols Used in Texts

⚠ Warning! Potential Hazards

Note

Symbols Used in Illustrations

Apply grease

Apply threadlocker

Safety Warnings and Risk Notices

Before disassembling, assembling, modifying, or maintaining the bike, carefully read the following safety warnings and risk notices. Improper handling may result in damage to the bike or personal injury.

General Notices

- Always power off the system when performing inspection and maintenance on the bike.
- It is recommended to have an authorized retailer regularly perform inspection and maintenance on your bike to extend its lifespan and ensure riding safety.
- Servicing and maintaining the bike requires professional expertise and specialized tools. For your safety, any maintenance or repair tasks not explicitly described in this manual should be handled by an authorized retailer or a professional bike shop.
- The illustrations in this manual are for reference only. Actual products may vary.

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Disassembly and Assembly Risks

⚠
- Improper disassembly or assembly may damage components and even cause riding accidents.
- All fasteners must be tightened to the specified torque values. Refer to the relevant sections of this manual or the markings on the component.
- After reassembly, perform a thorough safety check to ensure all components are correctly installed and securely tightened before riding.
- Any unauthorized modifications to the bike may compromise the performance and safety, and may void the warranty.

Maintenance Notices

⚠
- Do not attempt to service or repair the bike unless you fully understand the correct maintenance procedures. Improper maintenance may damage the bike and lead to accidents during riding.
- When using a repair stand, never clamp the frame tubes or any carbon fiber components, as this may damage the frame.
- After any maintenance, a test ride must be performed to confirm that all functions operate normally and there are no abnormal noises before resuming regular use.

Video Tutorials

Go to the address below or scan the QR code to watch the tutorial videos, which demonstrate how to use the product safely:

https://www.amflowbikes.com/px-carbon/video

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Contents

Using this Manual 2

Legend 2
Safety Warnings and Risk Notices 2
Video Tutorials 3

1 Specifications 6

1.1 Geometry 6
1.2 Component Compatibility 6
1.3 Bolt Specifications 6
1.4 Bearing and Spacer Specifications 8
1.5 Tool List 8

2 Cable Routing 10

2.1 Cabling Inside the Frame 10
2.2 Drive System Cabling 11

3 Mechanical System 13

3.1 Steering System 13
Headset Assembly 13
Headset and Steerer Stop Block 14
Stem and Handlebar 15
3.2 Drivetrain 18
Crankset 18
Chain Guide 18
Chain 19
Electronic Shifting System 20
3.3 Brake System 20
3.4 Wheels and Tires 21
Replacing the Rear Wheel 21
Maintenance 22
3.5 Frame 22
Inspection 22
Frame Geometry Adjustment 23
Adjusting Head Tube Angle 24
Adjusting Bottom Bracket Height 25
Adjusting Chainstay Length 25
3.6 Seat Tube System 27
Adjusting Dropper Post Insertion Depth 27
Adjusting Dropper Post Travel 28
Adjusting Dropper Post Cable Tension 30

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Adjusting Saddle Position and Tilt 31
3.7 Replacing the Internal Cable 31

4 Drive System 33
4.1 Drive Unit 33
Removing / Installing 33
Drive Unit Guard 34
4.2 Battery 35
Removing / Installing 35
Y-shaped Power Cable 35
4.3 Control Display 36
Control Display 36
Replacing the Control Cable 37
4.4 Wireless Controller 38
Replacing Controller Battery 38
Replacing the Controller 39
4.5 Speed Sensor 40
Speed Sensor Ring 40
Speed Sensor 41
4.6 Bike Light 42

5 After-Sales Service 44
5.1 Warranty Policy 44
5.2 Support Channels 44

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1 Specifications

1.1 Geometry

Visit the following link to obtain the standard geometry for the bikes as shipped:

https://www.amflowbikes.com/px-carbon/specs

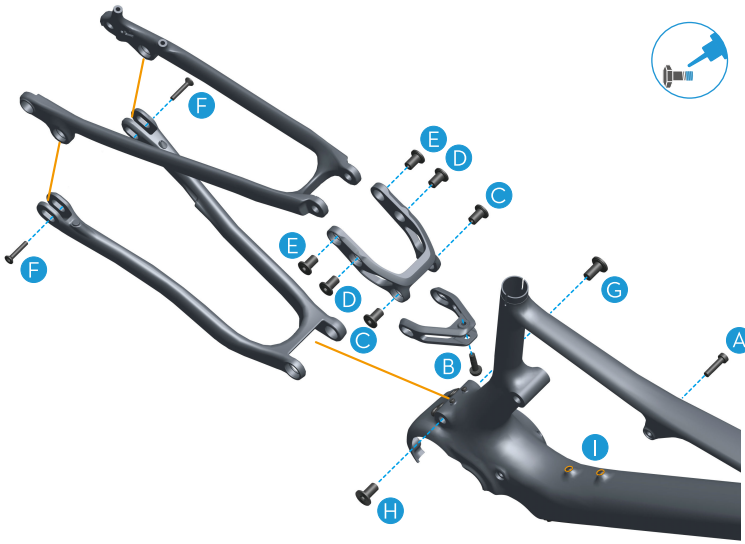
1.2 Component Compatibility

Component	Compatible Sizes / Specs
Seat Collar Diameter	34.9±0.1 mm
Dropper Post Diameter	31.6 mm
Maximum Rear Tire Clearance	2.8 inch * Compatible Rear Tire Sizes (Stock Wheelset): 2.3–2.6 inch
Rear Wheel Travel	150 mm
Shock Length / Stroke	210 mm / 55 mm
Recommended Shock Sag	Fork: 15–20% Shock: 25–30%
Fork Travel	160 mm
Minimum Chainring	32 t
Maximum Chainring	38 t
Minimum / Maximum Front Brake Rotor	200–220 mm
Minimum / Maximum Rear Brake Rotor	180–203 mm
Bottle Clearance	16 oz bottle
Wired front light	12 V / 2.5 A

1.3 Bolt Specifications

The following is a summary of the specifications of the bolts on the frame. Make sure to regularly check the torque of each bolt to ensure attachment of the components.

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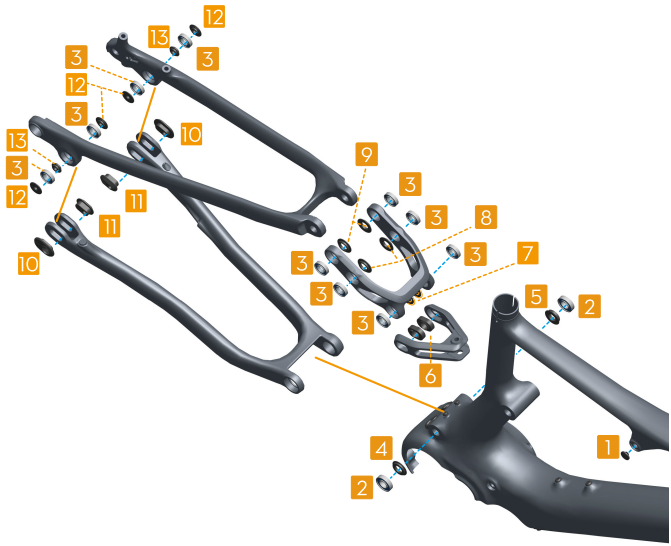


	Position	Quantity	Tool	Torque/N·m
A	Forward shock mounting bolt	1	H5	15-18
B	Rear shock mounting bolt	1	H6	20-24
C	Seat tube pivot bolts	2	H6	20-24
D	Yoke at shock link bolts	2	H6	20-24
E	Seatstay pivot bolts	2	H6	20-24
F	Dropout pivot bolts	2	H5	15-18
G	Main pivot bolt-left	1	H6	24
H	Main pivot bolt-right	1	H6	24
I	Water bottle cage bolt	2	H3	1.3-1.5

- Before mounting, ensure that all contact surfaces are clean and apply threadlocker adhesive to the threads.
- Ensure that each bolt is torqued to specification during mounting. Over-tightening may cause deformation of the fastener, while under-tightening may lead to loosening.
- Refer to the manufacturer's manuals for the bolt specifications of the third-party components if necessary.

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1.4 Bearing and Spacer Specifications



	Position	Quantity	Dimension (ID×OD×W) /mm
1	Forward shock bolt cover	1	8.7×14×2.23
2	6901 bearings	2	/
3	6801 bearings	10	/
4	Main pivot spacer - right	1	12.1×24×3.4
5	Main pivot spacer - left	1	12.1×24×4.9
6	Linkage flip chip	2	M12×25.8×8
7	Seat tube pivot spacers	2	12.1×23.5×3.4
8	Yoke at shock link spacers	2	12.1×23.5×3.4
9	Seatstay pivot spacers	2	12.1×23.5×3.4
10	Dropout flip chip spacers	2	23.8×33.8×8.4 (W×L×T)
11	Dropout flip chip nuts	2	M6×28.8×11.88
12	Dropout pivot outer spacers	4	6×20×3.65
13	Dropout pivot inner spacers	2	6×16×5.5

1.5 Tool List

The following is a list of commonly used tools required for assembly and maintenance.

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- Hex keys: H2, H2.5, H3, H4, H5, H6, H8
- Torx wrench: T25
- Torque wrench (1–55 N·m)
- Air pump with pressure gauge
- Spider removal and installation tool (specialized tools)
- Crown race removal and installation tool (specialized tools)
- Chain tools
- Cable routing kit
- Threadlocker
- High-quality grease

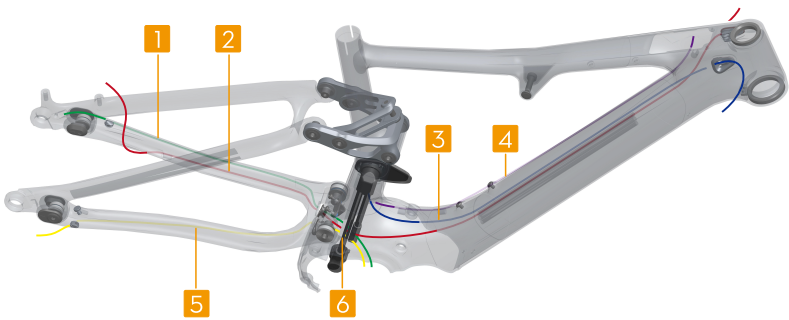
- Some of the specialized tools can be purchased from an authorized retailer or official customer service.
- For information about specialized tools for third-party accessories, please refer to the manufacturer's manual.

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2 Cable Routing

2.1 Cabling Inside the Frame

- Before assembling the bike, make sure all cables and hoses have already been routed inside the frame.
- It is recommended to leave sufficient length for the hydraulic brake hoses for future adjustments or extensions.
- Avoid bending, kinking, or pinching of the cables and hoses during routing, as this may cause damage and reduce their lifespan.

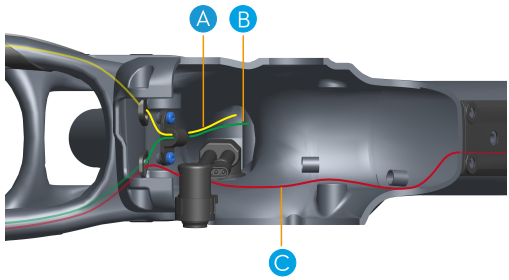


1. Speed Sensor Cable
2. Rear Hydraulic Brake Hose
3. Dropper Post Cable
4. Control Cable
5. Power Extension Cable
6. Y-shaped Power Cable

Ensure the cables and hoses inside the frame are routed and secured as required:

- Inside the down tube: Ensure the cables and hoses are arranged in the specified order.
- Head tube outlets: Ensure the cables are routed through the corresponding outlets as shown in the illustration, and secure them in place using the cable grommets.
- Bottom bracket cable guide: Route the cables through the corresponding cable holes as shown in the illustration to avoid cables crossing or being pinched.

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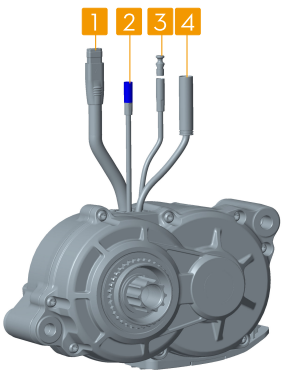


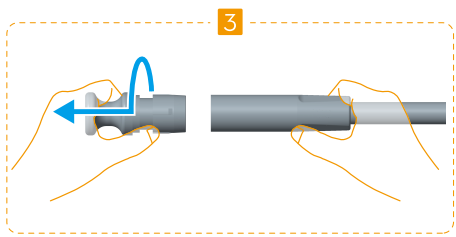
* A. Power extension cable; B. Speed sensor cable; C. Rear hydraulic brake hose

2.2 Drive System Cabling

⚠
- Ensure electrical connectors remain clean and dry. Do not apply any grease or adhesives to the connectors.
- When connecting, ensure the connectors are properly aligned. Do not force them together to avoid damage.

Drive Unit





1. Power Cable Port
2. Speed Sensor Port
3. Expansion Port
4. Control Cable Port

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If you need to use the expansion port, make sure to pinch the end of the plug as shown in the illustration, then pull it out while rotating it to remove. Otherwise, the port may be damaged.

Control Display



1. Expansion Port
2. Control Cable Port

Y-shaped Power Cable



1. Drive Unit Connector
2. Battery Connector

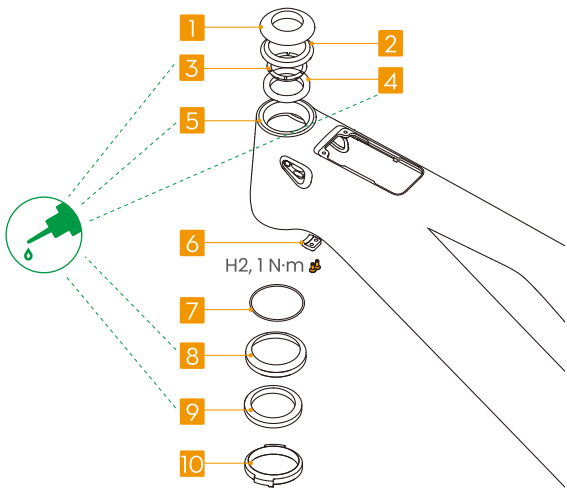
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3 Mechanical System

3.1 Steering System

Headset Assembly

The composition of the headset is shown in the illustration. If replacement is needed, ensure that the replacement components are compatible with the original headset specification.



1. Top Cover
2. Top Cover Seal
3. Compression Ring
4. Upper Headset Bearing
5. 0° Headset Cup
6. Steerer Stop Block
7. Lower Bearing Seal
8. Lower Headset
9. Lower Headset Bearing
10. Crown Race

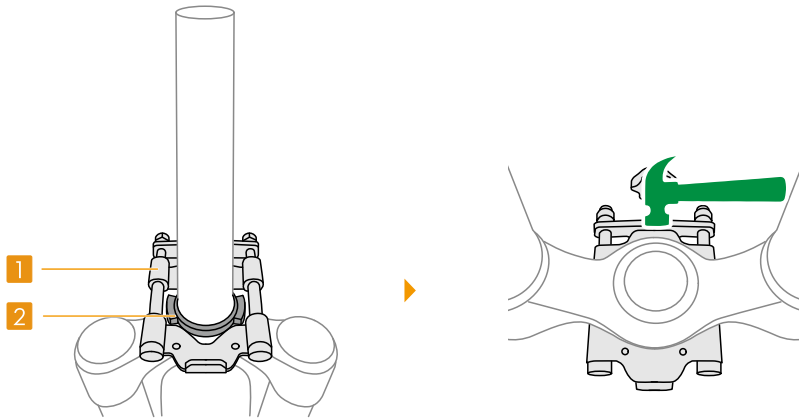
- Special tools are required to remove and mount the crown race. Please consult an authorized retailer or professional bike shop.
- When installing the steerer stop block, make sure to use the crown race supplied with the kit.

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Headset and Steerer Stop Block

Disassembling

1. Remove the front wheel, then loosen the stem cap bolt and stem bolts, and remove the stem and handlebar.
2. Carefully remove the upper headset components. After removing the fork from the frame, remove the lower headset components from the bottom of the head tube.
3. Position the crown race removal tool ① so it engages the edge of the crown race ②. Secure the fork upside down, then strike the tool to dislodge the crown race from the steerer tube.



- Store the removed headset parts in order for re-installation.

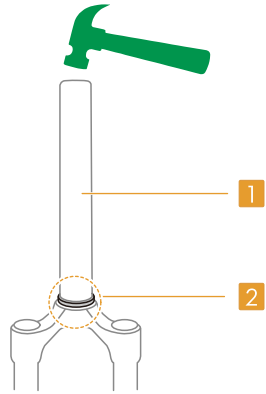
- While striking, adjust the position and tightness of the removal tool as needed. Tap alternating sides to ensure the crown race is pushed off evenly and does not bind.
- Do not directly strike the race or fork to prevent deformation or damage. A pad can be used to cushion the impact when striking.

Assembling

1. If installing a steerer stop block, place it into the corresponding hole at the bottom of the head tube and tighten the bolts to the specified torque. Then install the crown race by following the steps:
   a. Slide the crown race onto the steerer tube. Ensure it goes on evenly and parallel to the tube, without tilting or going on crooked.

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b. Place the installation tool ① over the steerer tube so it rests squarely against the crown race ②. Then strike the tool vertically until the race is fully seated.

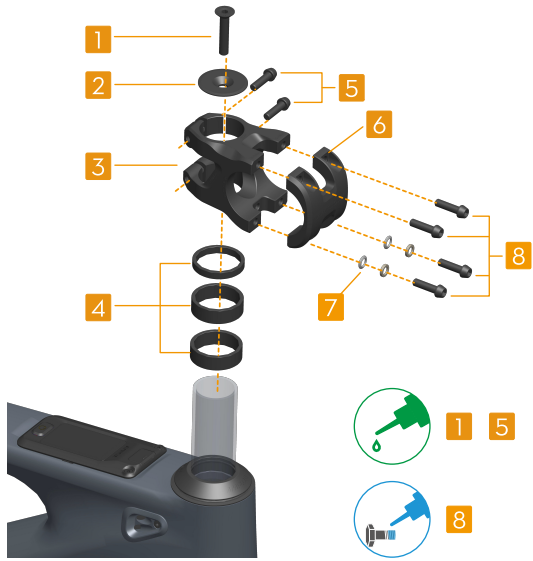


2. Apply grease to the headset assembly as shown in the diagram, then install the headset components into the head tube in the reverse order of disassembly.

Stem and Handlebar

The stem components are shown in the illustration. If replacement is needed, ensure that the replacement components are compatible with the original specifications.

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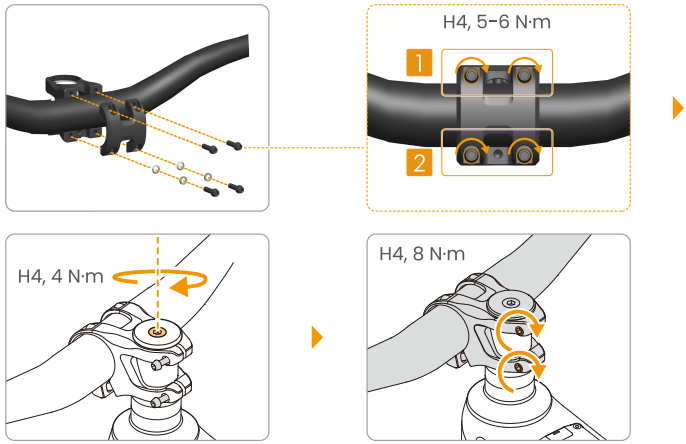
1. Stem Cap Bolt
2. Stem Cap
3. Stem
4. Stem Spacer
5. Stem Bolt
6. Stem Faceplate
7. Washer
8. Stem Faceplate Bolt

Disassembling

1. Loosen the stem cap bolt (H4), then remove the stem cap.
2. Loosen the stem bolts (H4), then remove the stem and handlebar assembly.
3. If removing the handlebar separately, loosen the stem faceplate bolts (H4) and remove the handlebar from the stem.

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Assembling



1. Center the handlebar in the stem, rotate it to the desired position and angle, then install the stem faceplate and insert the faceplate bolts.
2. Following the sequence shown in the illustration, alternately tighten the upper bolts to the specified torque first, then alternately tighten the lower bolts to the specified torque. Ensure that the gap between the stem and the faceplate matches the illustration.



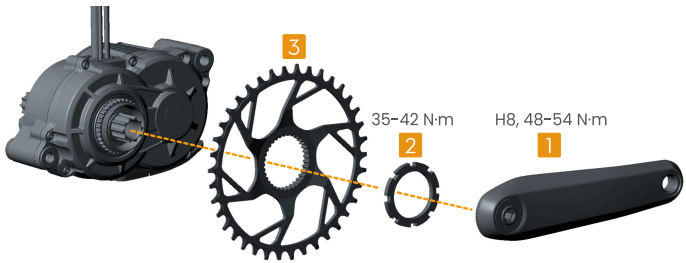
3. Slide the required stem spacers onto the fork steerer tube, then install the pre-assembled handlebar and stem onto the steerer tube. Do not tighten the stem bolts at this time. Install the stem cap and stem cap bolt, and tighten the bolt to the specified torque.
4. Hold the front wheel and twist the handlebar until the stem is lined up with the wheel. Then tighten the stem bolts to the specified torque.

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3.2 Drivetrain

Crankset

- Ensure to use a compatible chainring size and mounting interface.
- A dedicated lockring tool is required to remove and install the lockring. If you need to replace it yourself, please contact an authorized retailer or official customer service to purchase the tool.



Disassembling

Loosen the inner bolts of the cranks ① on both sides, then remove the right crank. Unscrew the lockring ② counterclockwise. Remove the chain from the chainring ③ and take off the chainring, then remove the left crank.

⚠ These are self-extracting cranks. During disassembly, do not remove the outer crank caps. Use an appropriately sized tool to loosen the inner crank bolts.

Assembling

1. Install the chainring ③ onto the drive unit spindle. Then, thread the lockring ② onto the drive unit spindle and tighten it to the specified torque.
2. Place the chain onto the chainring, then install the cranks ① and tighten them to the specified torque.

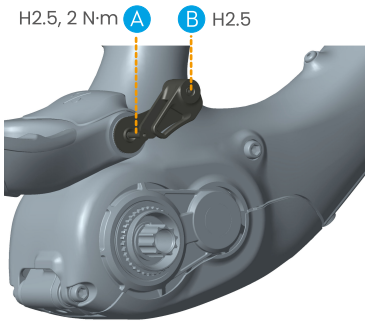
Chain Guide

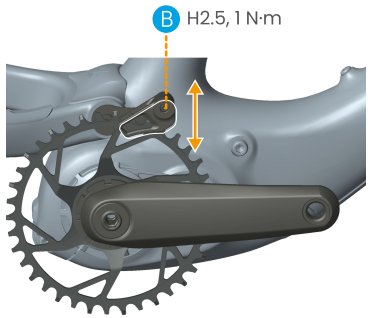
The chain guide and mounting plate have been installed on the frame by default. Follow the steps below to replace and adjust the chain guide.

The chain guide is an original component. Please contact an authorized retailer or official customer service to purchase.

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Removing

Before removing the chain guide, remove the crank and chainring according to the instructions in the Crankset section. Loosen the chain guide bolt (B), then remove the chain guide. If you need to remove both the chain guide and the chain guide mounting plate, loosen the chain guide mounting plate bolt (A), then remove them.

Installing

1. Mount the chain guide onto the hole of the chain guide mounting plate, insert the bolt (B) and tighten it slightly.
2. Install the chain guide mounting plate in the position shown in the illustration. Adjust the angle, then insert the bolt (A) and tighten it to the specified torque.
3. After installing the chainring as instructed in the corresponding section, adjust the angle of the chain guide so that its bottom arc is concentric with the chainring. Then adjust the height of the chain guide based on the chainring size, and tighten the bolt (B) to the specified torque.

Chain

Inspection

- Use a chain wear indicator to check for chain wear. If the chain is excessively worn, replace it promptly.
- Check the chain for rust, deformation, or breakage.
- Ensure the chain has proper tension and moves smoothly.

Maintenance

- Regularly clean the chain with a dedicated degreaser to remove dirt and grime.

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- Once completely dry after cleaning, apply an appropriate amount of chain lubricant and wipe off any excess from the surface.
- Clean the chain promptly after riding through mud or water to prevent accelerated wear.

Electronic Shifting System

- Check that the shift controllers are working properly, and that the buttons are responsive.
- Test the shifting performance to ensure smooth gear changes without abnormal noise.
- After every 300 km of riding, check whether the derailleur mounting bolt and cassette lockring are tightened to the specified torque.
- Clean the cassette and rear derailleur using a soft-bristle brush and a bicycle-specific degreaser to remove dirt and grime.

⚠ If the rear derailleur cage becomes visibly bent due to an impact, compromising shifting accuracy, stop riding immediately, and contact an authorized retailer or component manufacturer for assistance.

3.3 Brake System

⚠
- The brake system is crucial to your riding safety. If you notice a decrease in braking force, abnormal noise, or any other abnormalities, stop riding immediately and inspect the system.

- Servicing the brake system requires specialized tools and expertise. Please follow the manufacturer's instructions, or have the maintenance performed by an authorized retailer or a professional bike shop.
- For new bikes, or after replacing the brake rotors or pads, the brake system must be properly bedded in. Refer to the manufacturer’s instructions for detailed procedures.

Inspection

- Test the front and rear brakes in a safe, open area to check if the braking force is sufficient.
- Squeeze the brake levers to check for proper lever travel. If there is excessive lever travel or a noticeable lack of braking force, the brake pads may need to be replaced,

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or the hydraulic system may have a fluid leak. Refer to the manufacturer's instructions for professional repair.

- Check whether the brake levers return smoothly, with no sticking.
- Check the hydraulic brake hoses for any signs of damage, fluid leaks, or wear. Replace them promptly if any abnormalities are found.
- Check that the brake caliper mounting bolts are securely tightened, with no signs of looseness.
- Spin the wheels to check if there is an even clearance between the brake rotors and pads, and if the wheels spin freely without obvious rubbing or dragging.

Maintenance

⚠ Never apply lubricants, rust inhibitors, or other oily substances to the brake rotors or pads. If contaminated, contact an authorized retailer or a professional bike shop for cleaning or replacement.

- Regularly inspect and clean the inside of the brake calipers to remove accumulated dust and grime.
- For comprehensive service intervals and procedures for the brake system, refer to the manufacturer's instructions.

3.4 Wheels and Tires

Replacing the Rear Wheel

- Visit https://www.amflowbikes.com/px-carbon/video to watch the tutorial video for details.
- After replacing the rear wheel with a different size, it is recommended to adjust the chainstay length. Please refer to the Frame Geometry Adjustment section for detailed steps.

Removing

1. Wrap the chain around the smallest cassette cog. Rotate the derailleur cage forward and press the cage mode button to position the cage to the open mode.
2. Remove the thru-axle (H6), then remove the rear wheel.

Installing

1. Place the chain on the smallest cassette cog and reinstall the rear wheel. Insert the thru-axle and pre-tighten it by 2 to 3 turns.

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2. Rotate the derailleur cage forward to release the cage mode button and reposition the cage. Then tighten the thru-axle to the specified torque. (H6, 10 N·m)

Updating Device Information

After replacing the rear wheel, update the device information to ensure accurate speed calculation.

Open Avinox Ride and enter the device page, then select the wheel size and tap Save to update.

Maintenance

- Perform a thorough inspection and necessary maintenance on the wheelset after every long-distance ride, or after riding in harsh conditions or in the rain.
- If any abnormalities are found, have the wheelset inspected and repaired by an authorized retailer or professional bike shop.

- Check the tires for damage or visibly worn areas.
- Check the tire pressure, and inflate it to the recommended range based on riding weight.
- Check the tires for any embedded foreign objects. Remove them promptly if found.
- Check the spokes for looseness or damage, and ensure the tension is even. If any issues are found, visit a professional bike shop for adjustments.
- Check the rims for deformation, cracks, or other damage.
- Check whether the wheelset rotates smoothly, and if there is any noticeable wobbling or abnormal noise.
- Lubricate and maintain the hub every six months. This should be performed by an authorized retailer or professional bike shop.

3.5 Frame

Inspection

- Perform a thorough inspection of the frame after every long-distance ride, after riding in harsh conditions, or after any collision.
- If any abnormalities are found, stop riding immediately and contact an authorized retailer or professional bike shop for inspection.

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External Inspection

- Check the frame for cracks, dents, or other signs of damage.
- Inspect the frame welds and connection points for cracks, deformations, or rust.
- Check the finish for any obvious scratches or peeling.

Internal Inspection

- Check the inside of the frame every six months for any cracks or abnormalities.
- Check for any abnormal noise from inside the frame.

Connection Point Inspection

- Check that the connection points between the frame and the fork, rear shock, chainstays, and other components are secure.
- Check whether the bolts in the bottom bracket area are properly tightened.
- Check whether the pivot bolts on the seatstay and chainstay are tightened to the specified torque.

Cleaning and Maintenance

- Regularly clean the frame surface to remove mud, grease, and grime. After cleaning, wipe it dry with a soft cloth to prevent residual moisture from causing rust.
- Regularly inspect and protect high-wear areas, such as the chainstay.

Frame Geometry Adjustment

By changing the headset cups, and adjusting the flip chips at the linkage pivot and dropout pivot, you can adjust the frame geometry to suit different riding scenarios.

Watch the tutorial video and read the *Maintenance Manual* for detailed instructions on adjusting the geometry.

https://www.amflowbikes.com/px-carbon/video

https://www.amflowbikes.com/px-carbon/downloads

The bike ships from the factory with the following default settings: the linkage flip chip in the "Short" position, the dropout flip chip in "Position 1", and the 0° headset cup installed.

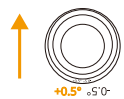
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Adjustment Point	Chainstay Length (mm)	Bottom Bracket Height (mm)	Head Tube Angle (°)
Default Setting	438.4	345	64.2
Linkage Pivot (short)	/	/	/
Linkage Pivot (long)	-1	+4.2	+0.3
Headset Cup (-1°)	/	-1.7	-0.8
Headset Cup (-0.5°)	/	-0.9	-0.4
Headset Cup (0°)	/	/	/
Headset Cup (+0.5°)	/	+0.9	+0.4
Headset Cup (+1°)	/	+1.8	+0.8
Dropout Pivot (position 1)	/	/	/
Dropout Pivot (position 2)	+4.3	-4	-0.3
Dropout Pivot (position 3)	+8.7	-8.2	-0.6
Dropout Pivot (position 4)	+13	-12.2	-0.9

Adjusting Head Tube Angle

The bike comes with a 0° headset cup. Replace it with the ±1° or ±0.5° headset cups included in the accessory box.

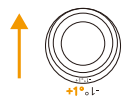




Head Tube Angle +0.5°



Head Tube Angle -0.5°



Head Tube Angle +1°



Head Tube Angle -1°

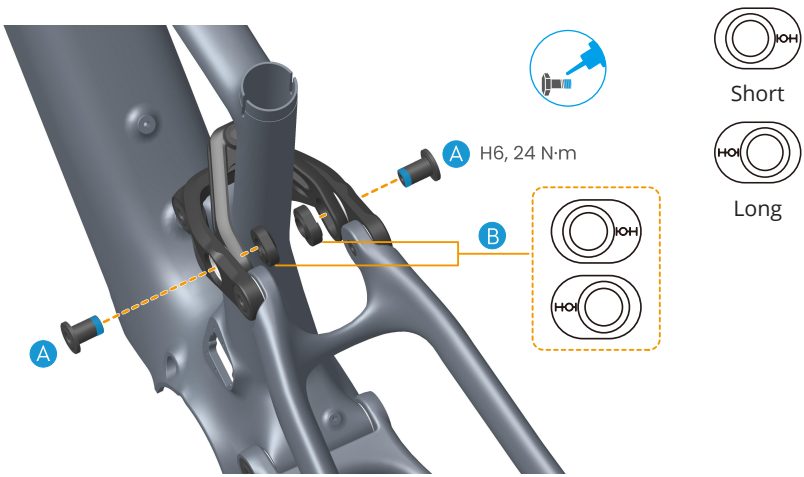
1. Remove the stem, handlebar, and headset components by following the instructions in the Headset Assembly section.
2. Based on the marking on the headset cups, select the required headset cup and the installation orientation.

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3. Apply grease to the new headset cup, then install it into the head tube.
4. Reinstall the headset components and fork into the head tube in the reverse order of removal.
5. Reinstall the stem spacers, stem, and handlebar in order.

Adjusting Bottom Bracket Height

By reversing the installation direction of the flip chips at the shock linkage pivot, you can adjust the bottom bracket height to suit different riding needs.

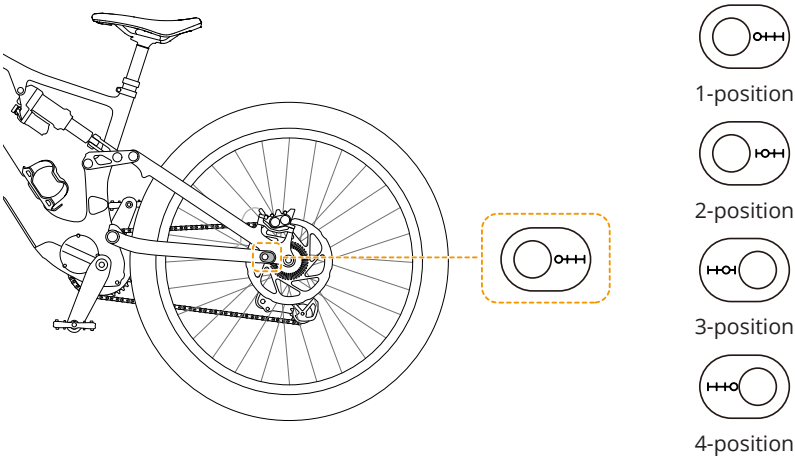


1. Remove the bolts (A) on both sides of the linkage pivot. Then remove the flip chips (B) on both sides.
2. Rotate both flip chips 180 degrees. Ensure the flip chips on both sides are aligned in the same direction, then reinstall them at the linkage pivot.
3. Insert the bolts on both sides, and tighten them to the specified torque.

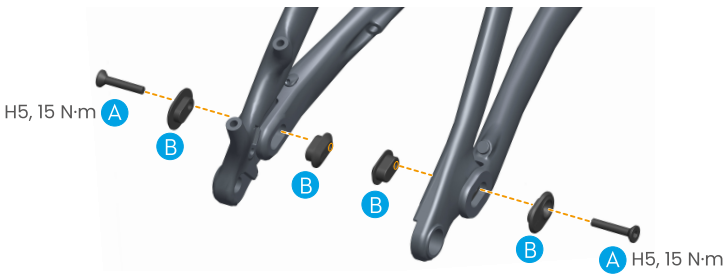
Adjusting Chainstay Length

By changing the flip chips at the dropout pivot, you can adjust the chainstay length to suit different riding scenarios. The 1/4-position flip chips are pre-installed at the factory. The package includes the 2/3-position flip chips, which you can replace as needed.

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Adjust the chainstay length by following the steps below.



1. Remove the rear wheel by following the instructions in the Replacing the Rear Wheel section.
2. Remove the dropout pivot bolts (A) on both sides, then remove the flip chip spacers and nuts (B).
3. Select the flip chip position according to your needs.
4. Reinstall the flip chips (B) at the dropout pivot, and ensure both sides of each flip chip are aligned in the same direction.

   ⚠ Improper installation or incorrect orientation may damage the frame or even result in loss of control while riding.

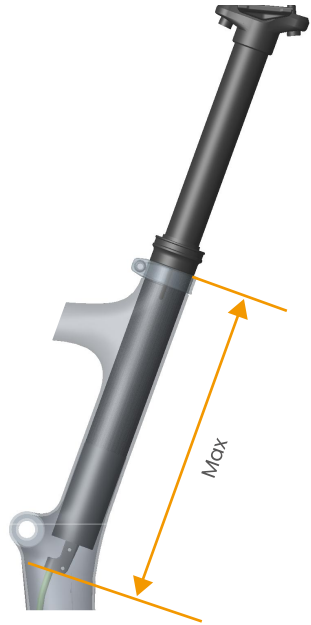
5. Reinstall the pivot bolts (A), and tighten them to the specified torque.
6. Reinstall the rear wheel by following the instructions in the Replacing the Rear Wheel section.

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3.6 Seat Tube System

Adjusting Dropper Post Insertion Depth

Both the frame and dropper post have the insertion requirements. Failure to follow the requirements may result in damage to the frame and dropper post.



Frame Size	M	L	XL	XXL
Maximum Insertion / mm	260	270	290	310

Follow the steps below to adjust the insertion depth.

Visit https://www.amflowbikes.com/px-carbon/video to watch the tutorial video for details.

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1. Loosen the seat clamp bolt.
2. Carefully lift the dropper post upward while simultaneously feeding the dropper cable into the cable outlet on the head tube to prevent disconnecting or damaging the cable.
3. After adjusting to the desired height, tighten the seatpost clamp bolt to the specified torque.

⚠
- The dropper post should be inserted into the frame deep enough so that the minimum insertion mark on the dropper post is invisible.
- If the dropper post is inserted too far, the frame and dropper post cable may be damaged and thus the dropper post cannot function properly.
- If the desired height cannot be achieved within the minimum and maximum insertion requirements, the dropper post should be replaced with one of a different length.
- After adjustment, twist the handlebar side to side to check whether the length of the dropper post cable is enough. If the cable is too short to prevent the handlebar from rotating, replace it with a longer one.

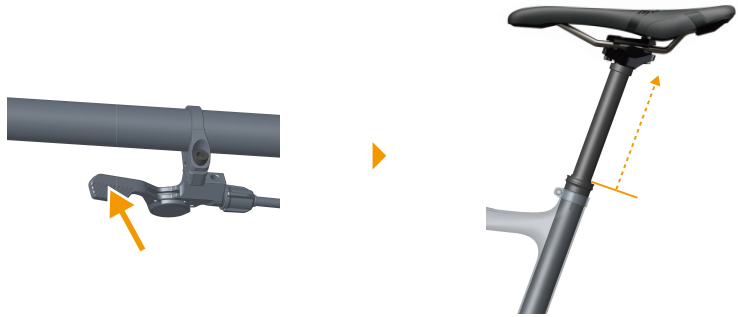
Adjusting Dropper Post Travel

Use the included travel reduction shims to adjust the dropper post's fully extended height.

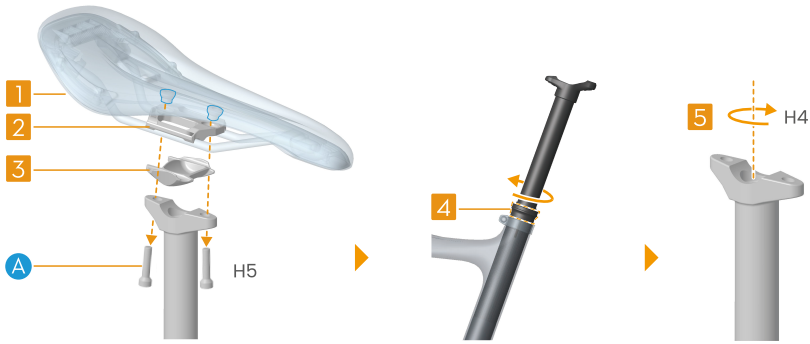
Visit https://www.amflowbikes.com/px-carbon/video to watch the tutorial video for details.

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1. Press and hold the dropper post lever to extend the dropper post to approximately mid-stroke (half-height).



2. Loosen the saddle clamp bolts (A), then remove the saddle ①, upper clamp ②, and lower clamp ③.
3. Loosen the dropper post collar ④, and slide it up along the stanchion. Then, use a tool to loosen the cartridge ⑤ from the top by turning it clockwise.



4. Carefully pull the stanchion upward until the guide pins ⑦ are exposed. Then, slide the nylon bushing, O-ring, and washer upward along the stanchion.

> When pulling the stanchion upward, do not expose the guide pins completely to prevent them from falling out.

5. Install the travel reduction shims ⑥ below the washer. Align the tabs on the shim with the guide pins. If necessary, you can stack multiple shims, up to a maximum of two 10 mm shims.
6. Once the shims are installed, push the nylon bushing, shims, guide pins, and other components back down into the lower tube. Then retighten the collar.

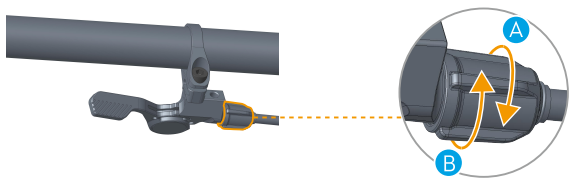
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7. Retighten the cartridge, then reinstall the saddle and clamps. Press the lever and verify the fully extended height matches the adjusted travel.



Adjusting Dropper Post Cable Tension

The barrel adjuster near the dropper post lever allows you to adjust the cable tension, thereby changing the actuation speed of the dropper post. Regular inspection is recommended.



1. Check the dropper post response:
   - If the dropper post does not respond when the lever is pressed, or moves abnormally slowly, the cable tension is insufficient and should be increased.
   - If the dropper post rises on its own without lever input, or drops under the rider's weight, the cable tension is excessive and should be reduced.
2. Adjust the cable tension accordingly:
   - To increase tension: Turn the barrel adjuster counterclockwise (A).
   - To reduce tension: Turn the barrel adjuster clockwise (B).
3. After adjustment, cycle the dropper post through its full travel several times by pressing the lever. Confirm that the dropper post responds immediately when the lever is pressed, and holds its position firmly at any point when the lever is released. If

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the response is not as expected, continue fine-tuning the barrel adjuster until proper operation is achieved.

If the dropper post still does not work properly after the adjustment, consult a professional bike shop for assistance.

Adjusting Saddle Position and Tilt



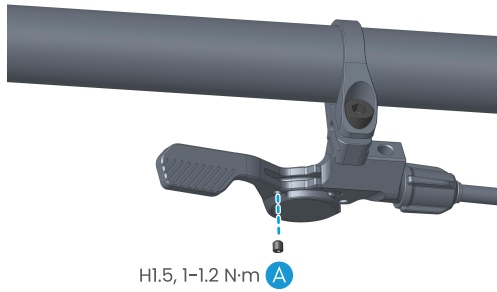
1. Press and hold the dropper post lever to raise the dropper post to a suitable height.
2. Loosen the front and rear saddle clamp bolts by several turns.
3. **Adjust fore-aft position**: Slide the saddle forward or backward to the desired position.
4. **Adjust tilt**: Alternately loosen one bolt and tighten the other to tilt the saddle to the desired angle.
   - Loosen the front bolt and tighten the rear bolt: saddle nose tilts up.
   - Loosen the rear bolt and tighten the front bolt: saddle nose tilts down.
5. After adjustment, confirm the saddle rails are fully seated in the rail grooves of the upper and lower clamp plates. Then tighten the front and rear bolts alternately to the specified torque.

3.7 Replacing the Internal Cable

- It is recommended that internal cable replacement be performed by an authorized retailer or a professional bike shop. Improper routing may cause cable wear or compromise handling.
- If the drive unit or battery must be removed during internal cable replacement, refer to the Drive System section for detailed instructions.
- When replacing the internal cables, strictly follow the layout specified in the Cabling Inside the Frame section to prevent cables from tangling inside the frame.

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- For instructions on replacing and adjusting hydraulic brake hoses and dropper cable, refer to the component manufacturer's manuals.
- To replace the dropper post cable, loosen the pinch bolt (A) on the dropper post lever. After replacement, tighten the bolt to the specified torque as shown in the diagram.



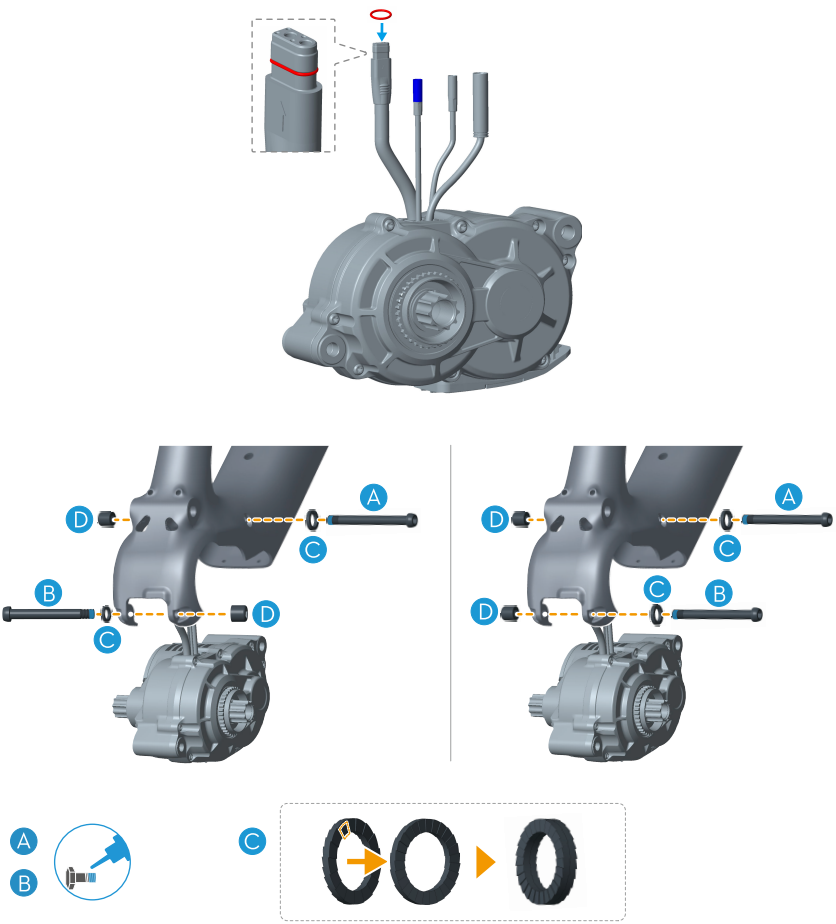
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4 Drive System

4.1 Drive Unit

Removing / Installing

The drive unit has been installed on the frame. Remove and install the drive unit as shown in the illustration when it is necessary to replace the cables or remove the battery.



	Position	Quantity	Tool	Torque/N·m
A	Motor mounting bolt (long)	1	H6	/

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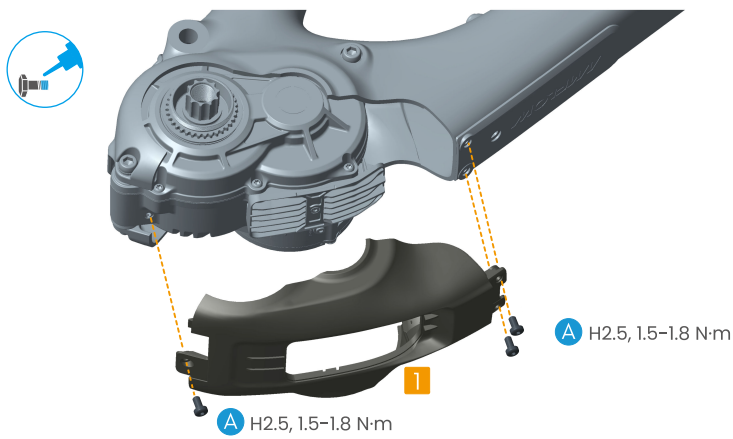
	Position	Quantity	Tool	Torque/N·m
B	Motor mounting bolt (short)	1	H6	/
C	Motor mounting spacers	4	/	/
D	Motor mounting nuts	2	H8	20-22

- The lower mounting bolt (B) can be inserted and tightened from either side of the frame to mount the motor.
- Before installation, make sure to distinguish the mounting positions for the long and short bolts. Inserting the bolts incorrectly will prevent installation.
- A set of motor mounting spacers (C) includes two serrated spacers. Attach the spacers by aligning the large serrations as shown in the illustration and then install them on the bolt.
- After inserting the bolts, ensure to apply the threadlocker to the exposed threads and then install the motor mounting nuts and tighten.
- Use a wrench to secure the bolts and then turn the nuts when removing or installing the motor.

Drive Unit Guard

Follow the steps below to replace the drive unit guard if necessary.

1. Loosen the bolts (A) and remove the drive unit guard ①.
2. Mount the new guard on the frame and then insert and tighten the bolts (A) to the specified torque.

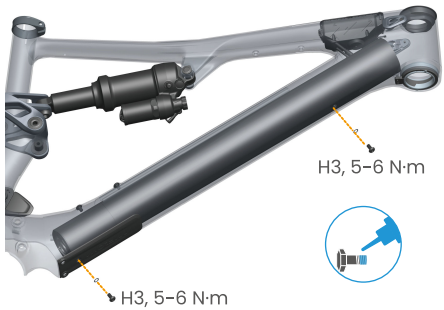


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4.2 Battery

Removing / Installing

Before removing or installing the battery, first remove the drive unit, disconnect the power cable from the battery, then follow the steps below.



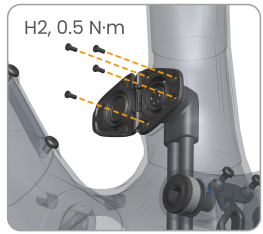
1. Loosen the upper mounting bolt, then loosen the lower bolt, and remove the battery from the down tube.
2. When installing, insert the battery into the down tube with the battery port facing downward, then connect the power cable and ensure the connection is secure.
3. Place the washers onto the bolts and insert them. When securing, lightly tighten the lower bolt first, then tighten the bolts to the specified torque.
4. After reinstalling the drive unit, check whether the drive system is functioning properly.

After inserting the battery into the down tube, arrange the cables inside the frame to prevent them from kinking or bending inside the down tube.

Y-shaped Power Cable

Before replacing the power cable, remove the drive unit and disconnect the power cable from the drive unit and battery. Then follow the steps below.

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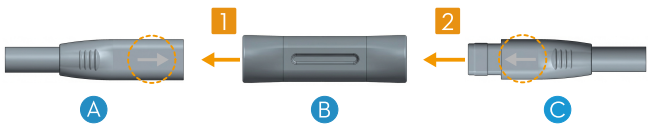


Removing

Remove the power cable mounting bolts, then remove the power cable from the frame.

Installing

1. Position the new power cable inside the frame, and align it with the locating hole, then secure it by tightening the bolts to the specified torque.
2. Connect the power cable to the battery port.
3. Before connecting the power cable to the drive unit, first attach the sleeve (B) to the drive unit connector of the power cable (A). Then, align the arrows on both connectors and connect the power cable to the drive unit (C).

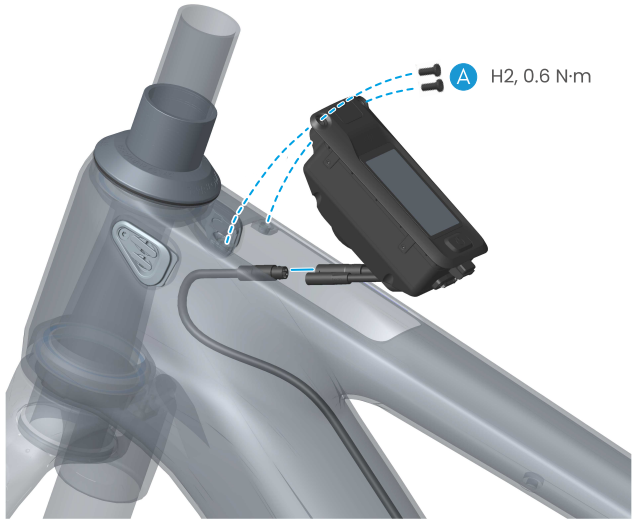


4.3 Control Display

Control Display

Remove/install the control display as shown in the illustration.

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Replacing the Control Cable

It is necessary to remove the drive unit, battery, and control display first and disconnect the control cable from the drive unit and control display. Then follow the steps to replace the control cable.

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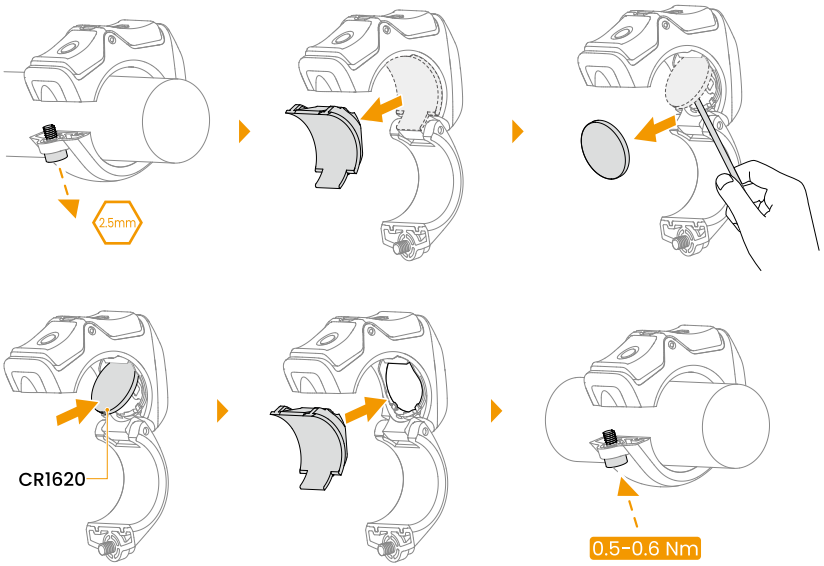
1. Pull the control cable out of the frame.
2. As shown in the illustration, route the new control cable into the down tube through the cable guide at the control display mounting position, then feed it through the cable guide at the bottom of the seat tube.
3. Connect the control cable to the control display and the drive unit, and make sure the connections are secure. Then reinstall the battery, control display, and drive unit.
4. After installation is complete, check that the control display powers on properly.

4.4 Wireless Controller

Replacing Controller Battery

The indicator of the wireless controller will flash red when the battery level is too low. Follow the illustrations to replace the battery.

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⚠
- Do not use metal tools to remove the battery as it may cause a short circuit.
- After repeated removal and reinstallation of the wireless controller, make sure to clean the mounting area and the bolts to prevent abnormal noise during installation or removal.

Replacing the Controller

If you need to replace the wireless controller, it is necessary to pair the new device with the drive system after installation.

When connecting a new wireless controller, press and hold the two buttons on the wireless controller simultaneously until the indicator flashes green and then follow the instructions to connect.

1. Press and hold the power button of the control display to power on, and then power on the accessory.
2. Swipe up to enter Settings. Tap **Accessories** > **Add** and the system will start searching for nearby devices.
3. Tap the device name displayed on the control display to start pairing. Follow the on-screen instructions to complete the connection.

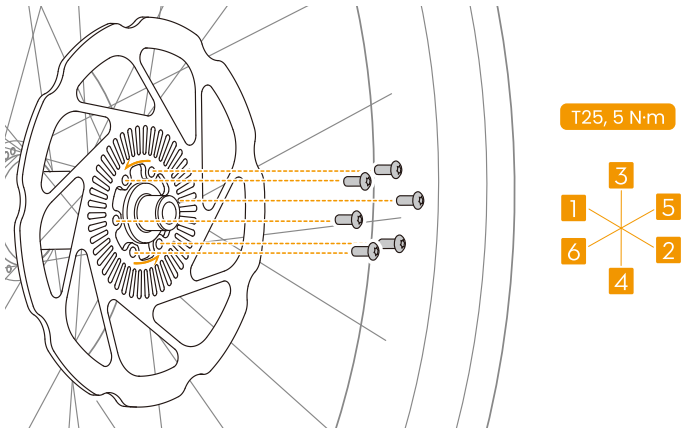
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4.5 Speed Sensor

Speed Sensor Ring

Integrated Sensor Rotor

When replacing the rear wheel, detach the sensor rotor and mount it onto the new rear wheel. Tighten the bolts alternately in the sequence shown in the figure.

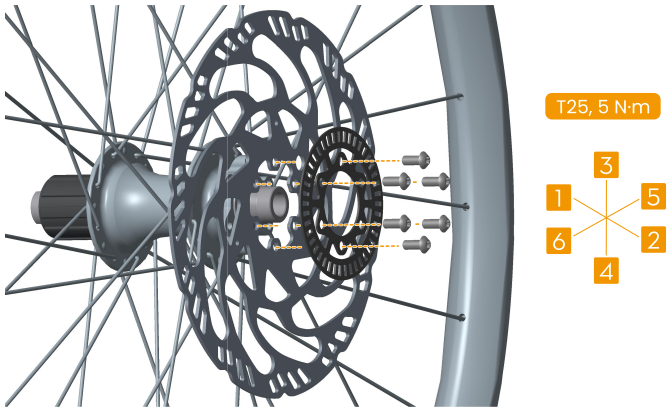


Separate Speed Sensor Ring

The speed sensor ring must be purchased separately.

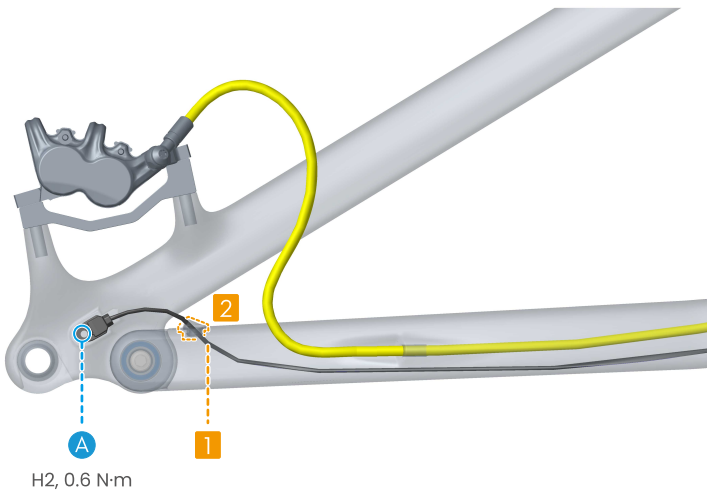
The speed sensor ring supports only 6-bolt disc rotors. When replacing the rear wheel or rear brake rotor, make sure to detach the speed sensor ring and mount it onto the new brake rotor. Tighten the bolts alternately in the sequence shown in the figure.

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Speed Sensor

The speed sensor is mounted on the chainstay. If replacement is needed, disassemble the crankset, drive unit, and rear wheel first. Disconnect the speed sensor from the drive unit and remove the cable from the chainstay. Then follow the steps below to replace.



1. Use the cable routing kit to route the speed sensor cable ① through the left chainstay, then pull it out from the reserved cable port at the bottom bracket.

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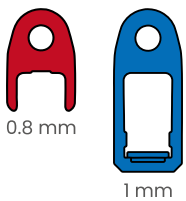
2. Insert and tighten the bolt (A) to secure the speed sensor, and then mount the cable grommet ②.
3. Mount the rear wheel and thru-axle and then tighten the thru-axle. Connect the cables to the corresponding ports of the drive unit, then install the drive unit and crankset.

Adjusting the Clearance

After replacing the speed sensor, rear wheel, or brake rotor, you must verify the clearance between the speed sensor and the speed sensor ring. The specified clearance range is 0.5 to 1.6 mm. Any clearance outside this range may affect speed measurement accuracy.

If a specialized measuring tool is unavailable, use a standard hex key and insert it into the gap to help estimate the clearance.

Two shims are pre-installed on the back of the speed sensor at the factory. You can adjust the clearance by adding or removing the shims.





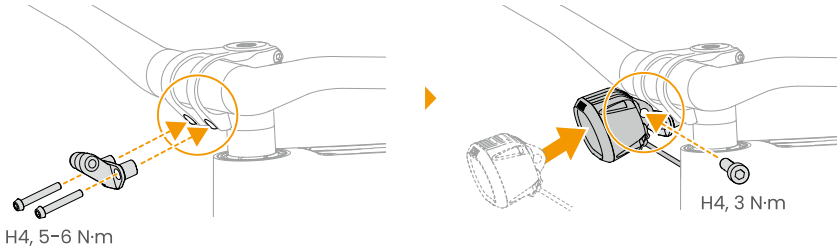
- To increase the clearance: Remove the shim(s) from the back of the sensor as needed.
- To reduce the clearance: If there are no shims on the back of the sensor, apply shims as needed. If two shims are required, strictly follow the stacking order: first attach the red shim to the back of the sensor, then attach the blue shim on top of it.

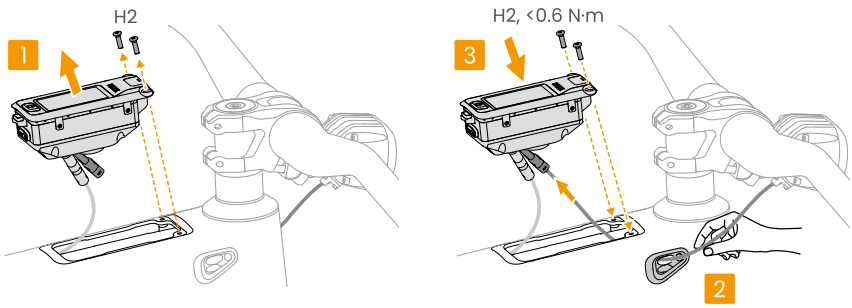
If the clearance remains outside the specified range even with no shims or with both shims installed, it indicates that the current rear hub is not compatible with the frame.

4.6 Bike Light

The Avinox bike light can be mounted onto the bike using the dedicated mounting kit. Install the bike light on the stem as shown in the illustration. After adjusting the angle, tighten the mounting bolts to the specified torque. Then, connect the light cable to the expansion port of the control display.

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5 After-Sales Service

5.1 Warranty Policy

Warranty period may vary according to local laws and regulations.

Visit https://www.amflowbikes.com/support/policy to view the product warranty period and warranty policy.

5.2 Support Channels

The following support channels are available, choose according to your situation:

1. **Contact Local Retailer for Assistance**

   Contact an authorized retailer, describe the service type you need, and they will help you complete the service. Visit the following website to find an authorized retailer:

   https://www.amflowbikes.com/test-ride

2. **Contact Official Customer Service**

   Visit the following website to contact online support, and describe the service type you need:

   https://www.amflowbikes.com/support

3. **Official Support Hotline Service**

   Contact official support to describe the product issue and service type, such as a repair or return, and then ship the product back according to the guidelines.

   Visit the following website to view phone support options for the hotline service:

   https://www.amflowbikes.com/support

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