ASSEMBLY GUIDE

LEVO X - RACKS

Mountain Bike Racks

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https://support.specialized.com/kb/sp_en-us/content/ECV3-7073/Manuals-Assembly-Guides.

1. INTRODUCTION

THIS DOCUMENT CONTAINS IMPORTANT INFORMATION. PLEASE READ IT CAREFULLY AND STORE IT IN A CONVENIENT PLACE.

This assembly guide takes you through the installation of the Levo X rack kit. This guide was drafted in the English language (original instructions) and has been translated into other languages as applicable (translation of original instructions). If there is a difference between the instructions in this guide and the information provided by a component manufacturer, please refer to your Authorized Specialized Retailer.

1.1. SYMBOLS

When reading this assembly guide, note the various important symbols and warnings explained below:

WARNING! The combination of this symbol and word indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death. Many of the warnings say, "you may lose control and fall." Because any fall can result in serious injury or even death, we do not always repeat the warning of possible injury or death.

CAUTION: The combination of the safety alert symbol and the word **CAUTION** indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury, or is an alert against unsafe practices.

The word **CAUTION** used without the safety alert symbol indicates a situation that, if not avoided, could result in serious damage to the bicycle or the voiding of your warranty.

This symbol alerts the reader to information that is particularly important.

2. RIDING WITH CARGO

The following list provides tips for using your bicycle when carrying cargo.

- Load cargo as low as possible to keep the bicycle's center of gravity low and improve stability.
- Always ensure the bicycle is stable and secure before loading or unloading any cargo.
- Ensure that any cargo is properly secured at all times and routinely check that nothing is loose or could get entangled in any moving parts of the bicycle.
- It is always the rider's responsibility to ensure that the cargo loaded on the bicycle does not interfere with the rider's ability to operate the bicycle safely.

WARNING! Never attach any bags, equipment, or objects onto your bicycle that may interfere with the handling of your bicycle.

WARNING! Do not exceed the lower of the cargo weight limit for the bicycle/fork or the applicable rack's cargo weight limit. Always follow the lowest applicable weight limit.

WARNING! The bicycle racks and storage systems, especially when loaded, will affect the handling of your bicycle by altering the center of gravity, weight, and balance. Depending on the mounting position on your bike, it may also affect how much you can lean the bike into a turn and/or how close you can get to curbs, sidewalks, pedestrians, cars or other obstacles. This may be aggravated further when the storage system is loaded and/or by what it is loaded with. Before your first ride, you should practice riding in a controlled environment and become familiar riding with the accessory installed and loaded.

WARNING! Always support the bicycle when loading or unloading cargo, and ensure the bicycle is placed on a flat, stable surface with the kickstand engaged.

WARNING! If you attach cargo to your bicycle, always do so in a way that minimizes the potential of interfering with passing traffic, pedestrians, or riding around obstacles. Be aware of your surroundings at all times. Failure to follow this warning could result in serious personal injury to yourself and other traffic members.

WARNING! The rear rack is equipped with a MIK adapter and is not compatible with child seats.

2.1. STRUCTURAL WEIGHT LIMITS

MODEL	CARGO WEIGHT LIMIT
Front Rack	10 kg / 22 lb.
Rear Rack	12 kg / 26 lb.

CARGO WEIGHT LIMIT: The maximum cargo weight a bicycle has been designed and tested to support structurally.

WARNING! Never exceed the maximum specified cargo or structural weight limit for your bicycle/fork or the rack's maximum allowed cargo weight limit. When loading cargo, only do so through the use of compatible racks or other accessories, which may have different cargo weight limits applied to them, as indicated. In case the specified cargo weight limit for the bicycle differs from the cargo weight limit specified by the rack or accessory manufacturer, always use the lowest limit. If you add any load-bearing accessories not approved by Specialized, including baskets or child carriers, you do so at your own risk because these accessories have not been tested for compatibility, reliability, or safety on your bicycle. Failure to follow this warning may result in serious personal injury or death.

3. GENERAL NOTES ABOUT ASSEMBLY

This guide is not intended as a comprehensive, use, service, repair, or maintenance guide. Please see an Authorized Specialized Retailer for all service, repairs, or maintenance.

WARNING! Basic mechanical skills and quality tools are required to complete the assembly of the front rack. If you are unsure about any assembly steps, maintenance requirements or need help troubleshooting, contact Rider Care or visit an Authorized Specialized Retailer.

WARNING! Correct tightening force on fasteners (nuts, bolts, screws) on your bicycle is important for your safety. If too little force is applied, the fastener may not hold securely. If too much force is applied, the fastener can strip threads, stretch, deform, or break. Either way, incorrect tightening force can result in component failure which can cause you to lose control and fall. Where indicated, ensure that each bolt is torqued to specification. After your first ride, and consistently thereafter, recheck the tightness of each bolt to ensure secure attachment of the components. The torque should be applied using a high quality calibrated torque wrench to the value specified.

3.1. TOOLS AND PARTS REQUIRED

- Stable repair stand
- 3, 4, 5, 8 mm hex key / bits
- 4 mm ball end hex key
- Torque wrench

3.2. ASSEMBLY PROCESS

Following the assembly order outlined in this assembly guide is essential for assembling the front and rear racks. Modifying the assembly order will lengthen the build process.

When setting up the rear rack position, remove all air from the shock and compress the suspension to check the clearance between the rack and the wheel.

3.3. PREPARATION

- Power off the bicycle
- Place the bike in a stable bicycle repair stand
- Remove the front and rear wheel

3.4. VIDEO GUIDE

Click on or scan the QR code with your smartphone camera for the assembly guide videos.

FRONT RACK ASSEMBLY GUIDE VIDEO

REAR RACK ASSEMBLY GUIDE VIDEO

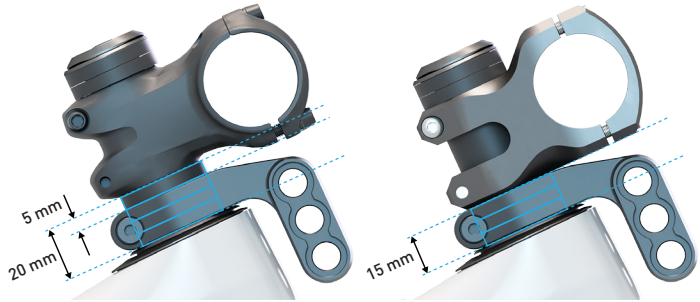
3.5. COMPATIBILITY

MODEL COMPATIBILITY

The front and rear racks are compatible with the following bicycles.

Model	Carbon Sizes		Alloy Sizes	
	Front Rack	Rear Rack	Front Rack	Rear Rack
Levo 4	S2 - S6	S2 - S6	S2 - S6	S2 - S6
Levo R	S2 - S5	S2 - S6	S2 - S5	S2 - S6
Levo 4 EVO	Not compatible due to wheel travel			

STACK HEIGHT REQUIREMENT



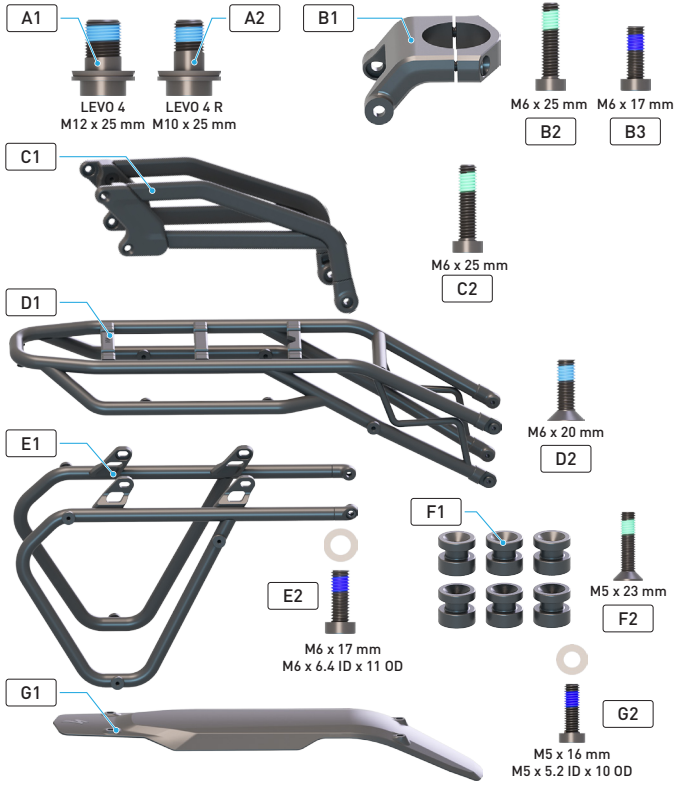
The front rack upper mount is 15 mm tall and requires a minimum of 20 mm clearance (4 spacers) below the stem for fitment and clearance. Depending on the stem design, some stems with no drop may only require 15 mm (3 spacers).

If the stack is less than this range, a new fork is required.

CAUTION: If there is insufficient stack height, you will require a new fork. Do not assemble the stem if there is insufficient steerer to attach the stem to.

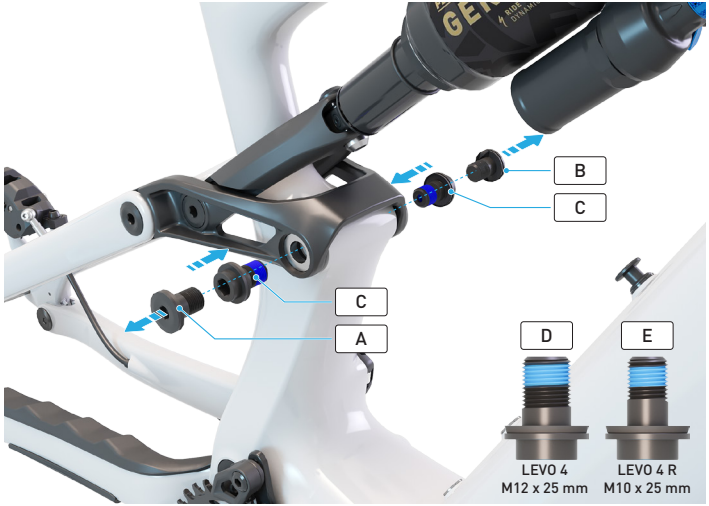
4. REAR RACK ASSEMBLY

4.1. COMPONENTS



	COMPONENT	QTY	TORQUE		TOOL
			Nm	in-lbf	
A1	Pivot Bolts Levo 4	2	20	177	8 mm hex
A2	Pivot Bolts Levo R	2	10	89	8 mm hex
B1	Seatpost Mount Clamp	1			
B2	Seatpost Mount Clamp front Bolts	2	6	53	4 mm hex
B3	Seatpost Mount Clamp Side Bolts	2	4	35	4 mm hex
C1	Rack Mounting Arms (Left & Right)	2			
C2	Pivot Mounting Bolts	2	6	53	4 mm hex
D1	Rear Rack	1			
D2	Rack Mounting Bolts	4	6	53	4 mm hex
E1	Pannier Racks (Left & Right)	2			
E2	Rear Pannier Rack Bolts and Washers	6	4	35	4 mm hex
F1	MIK Studs	6			
F2	MIK Stud Bolts	6	4	35	3 mm hex
G1	Rear Fender	1			
G2	Rear Fender Bolts and Washers	4	4	35	3 mm hex

4.2. REPLACE THE PIVOT BOLTS

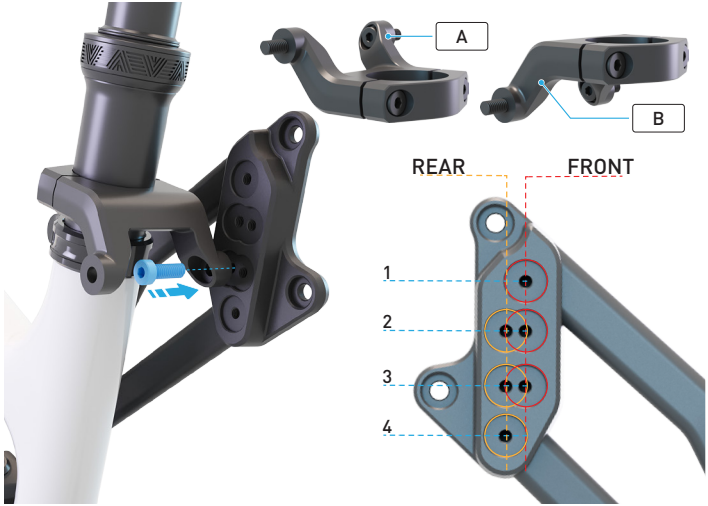


- Using a 6 mm hex key, remove the drive-side (**A**) and non-drive side (**B**) seatpost pivot bolts.
- Insert the new rack mounting pivot bolts (**C**), then using an 8 mm hex key, tighten the mounting bolts to 20 Nm (**D**: Levo 4) or 10 Nm (**E**: Levo R).

Remove the bolts one at a time to avoid the pivot spacers dropping out. If the link moves, ensure the spacers are realigned.

The mounting bolts differ between the Levo 4 (D) and the Levo R (E).

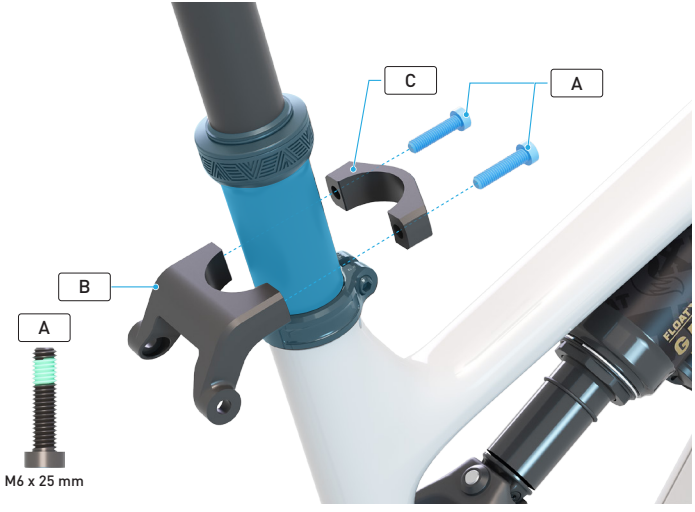
4.3. RACK AND SEATPOST MOUNT CLAMP POSITION



The seatpost and rack mounts vary by bicycle size and model. Install the seatpost mount clamp in either the rise (**A**) or drop (**B**) position, then align the seatpost mount clamp's mount points with the appropriate rack arm holes for your bike's size and model.

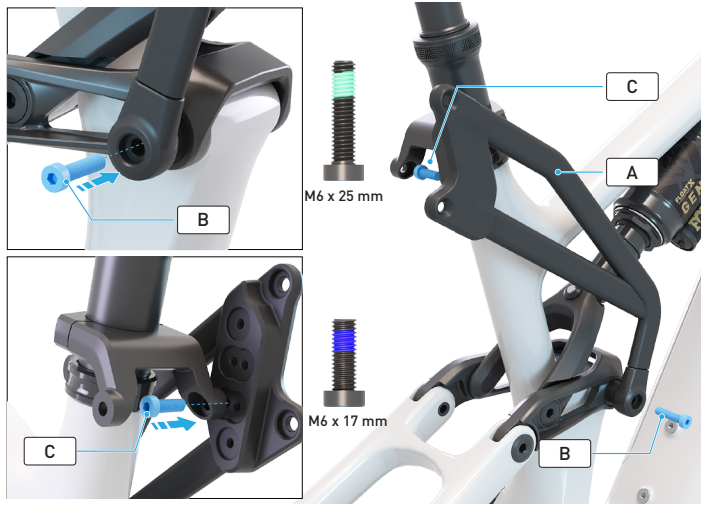
Size	Levo 4		Levo R	
S6	Front - 01	Drop	Rear - 02	Drop
S5	Front - 02	Drop	Rear - 02	Drop
S4	Front - 03	Drop	Rear - 03	Drop
S3	Front - 02	Rise	Rear - 03	Rise
S2	Front - 03	Rise	Rear - 04	Rise

4.4. ASSEMBLE THE SEATPOST MOUNT CLAMP



- Adjust the seatpost to the desired height.
- Using a 4 mm hex key, remove the bolts (**A**) from the seatpost mount front plate (**B**) and separate the clamp (**C**).
- Set the seatpost mount clamp to drop or rise position based on your bike size, then install it between the seat collar and the dropper post's upper seal.
- Assemble the seatpost mount clamp, then using a 4 mm hex key, loosely tighten the front plate bolts so the clamp moves freely up and down the dropper post.

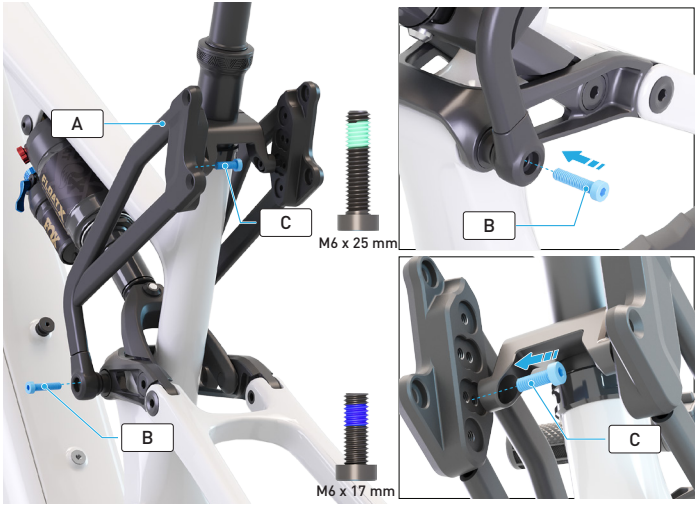
4.5. ASSEMBLE THE RIGHT RACK MOUNTING ARM



- Align the drive side forward mounting arm (**A**) with the seatpost mount clamp and link pivot mount point. (See the section **Rack and Seatpost Mount Clamp Position**)
- Loosely install a few threads of the pivot mounting bolt (**B**).
- Loosely install a few threads of the seatpost mount clamp bolt (**C**) into the mounting arm from the inside.

Use of a ball end hex key to insert the seatpost mount clamp bolt (C) will make assembly easier.

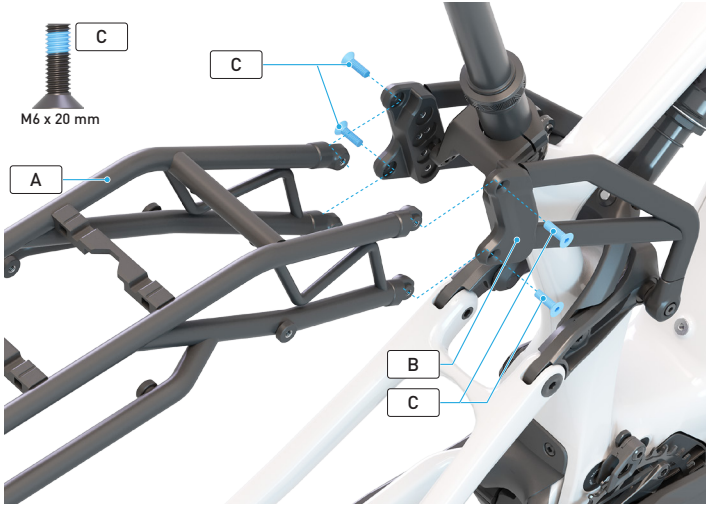
4.6. ASSEMBLE THE LEFT RACK MOUNTING ARM



- Align the non-drive side forward mounting arm (**A**) with the seatpost mount clamp and link pivot mount point. (See the section **Rack and Seatpost Mount Clamp Position**)
- Loosely install a few threads of the pivot mounting bolt (**B**).
- Loosely install a few threads of the seatpost mount clamp bolt (**C**) into the mounting arm from the inside.

Use of a ball end hex key to insert the seatpost mount clamp bolt (C) will make assembly easier.

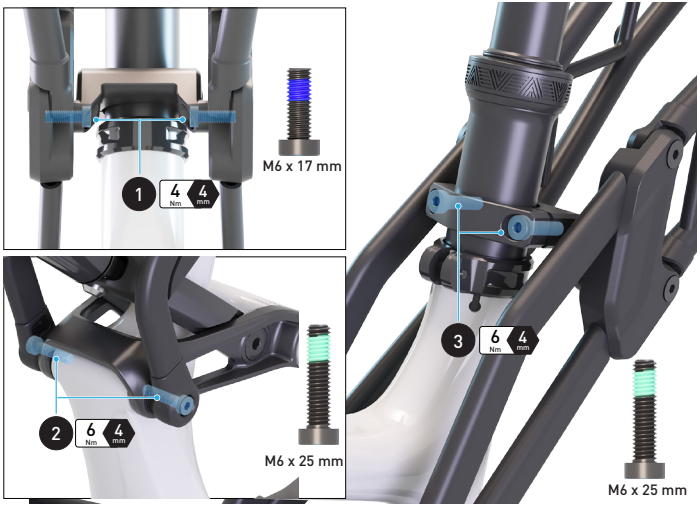
4.7. ASSEMBLE THE RACK



After alignment, ensure the rack is parallel to the ground or positioned slightly upward. If not, readjust the mounting arm position in the seatpost mount clamp.

- Align the rear rack (**A**) between the mounting arms (**B**). Insert the countersunk mounting bolts (**C**), then using a torque wrench and 4 mm hex bit, torque the bolts to 6 Nm.

4.8. TORQUE THE BOLTS

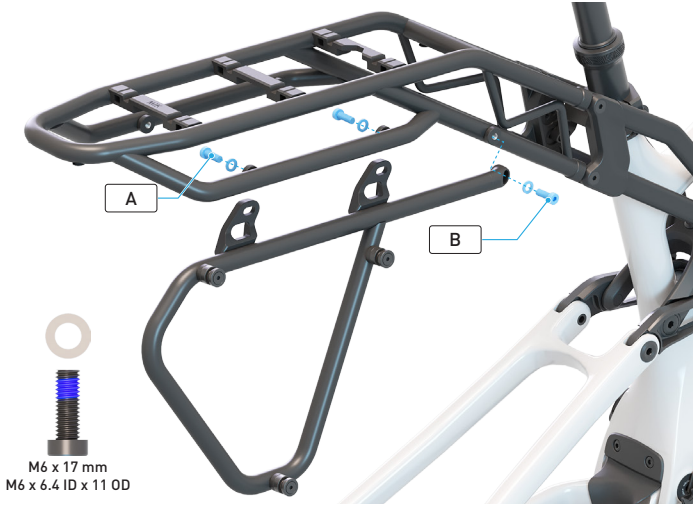


- Using a torque wrench and hex bits, torque the following bolts to the specified torque.

1. Seatpost mount clamp bolts inside the forward arms - 4 Nm
2. Pivot mounting bolts - 6 Nm
3. Seatpost mount clamp front plate bolts - 6 Nm

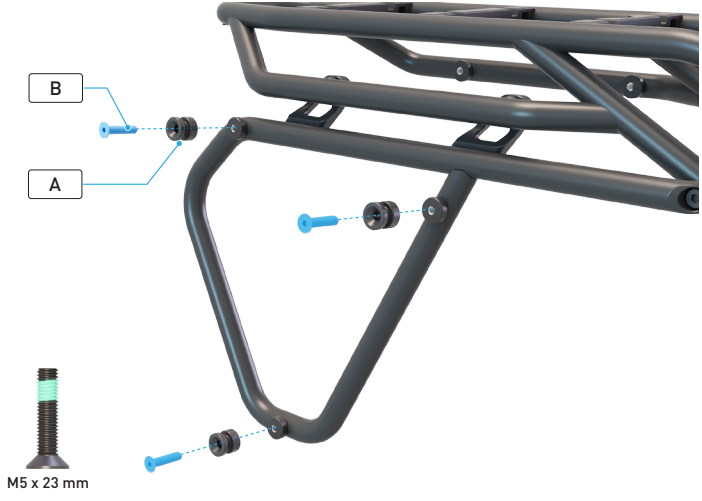
Use of a ball end hex key to tighten the seatpost mount clamp bolt (1) will make assembly easier.

4.9. ASSEMBLE THE PANNIER RACKS



- Position the drive side and non-drive side pannier racks against the rack.
- Insert the two inside (**A**) and one outside (**B**) mounting bolts and washers, through the pannier rack, then using a 4 mm hex key, torque the mounting bolts to 4 Nm.

4.10. ASSEMBLE THE PANNIER STUDS

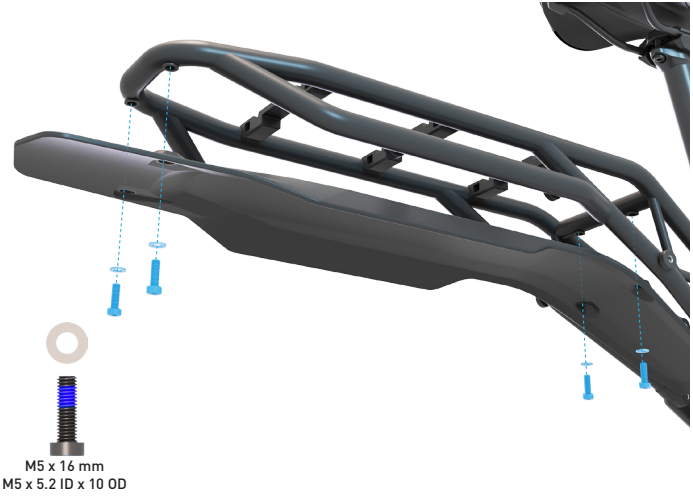


If you are using a MIK studs-compatible pannier, install the pannier studs onto the pannier racks.

- Assemble the three MIK studs (**A**) onto the pannier racks with the mounting bolts (**B**), then, using a torque wrench and 3 mm hex bit, torque the mounting bolts to 4 Nm.

Standard rail mounted pannier bags may be damaged if the studs are installed.

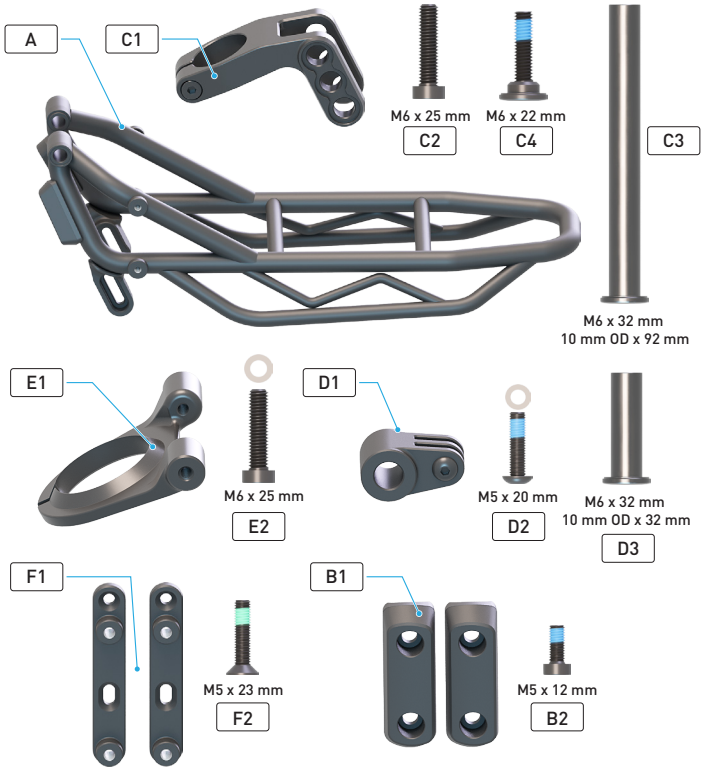
4.11. ASSEMBLE THE FENDER



- Assemble the fender to the rack body with the 4 fender bolts and washers, then, using a 3 mm hex key, tighten the bolts to 4 Nm.

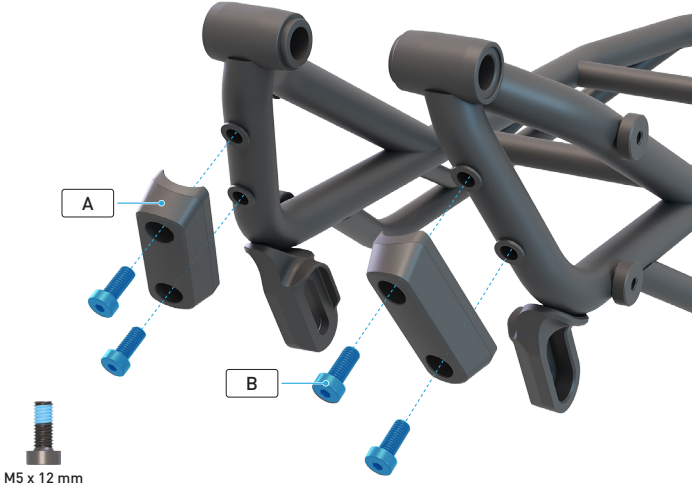
5. FRONT RACK ASSEMBLY

5.1. COMPONENTS



	COMPONENT	QTY	TORQUE		TOOL
			Nm	in-lbf	
A	Front Rack	1			
B1	Bumpers	2			
B2	Bumper Mounting Bolts	4	3	27	3 mm hex
C1	Upper Clamp Mount	1			
C2	Upper Clamp Mount Bolt	1	5	44	4 mm hex
C3	Upper Mounting Axle	1	6	53	5 mm hex
C4	Upper Mounting Bolt	1	6	53	5 mm hex
D1	Camera / Light Mount	1			
D2	Camera / Light Mount Bolt and Washer	1	4	35	3 mm hex
D3	Camera / Light Mount Axle	1	6	53	5 mm hex
E1	Crown Mount	1			
E2	Crown Mount Bolts and Washers	2	5	44	4 mm hex
F1	Bottle Mount	2			
F2	Bottle Mount Bolts	4	4	35	3 mm hex

5.2. ASSEMBLE THE FRAME BUMPERS

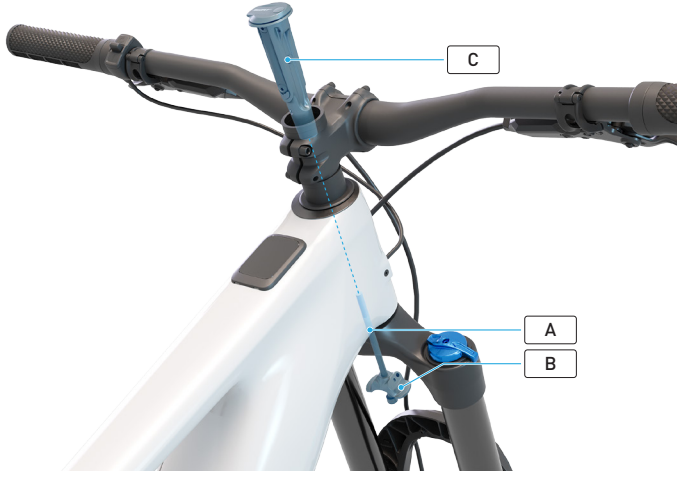


- Assemble the left and right bumpers (**A**) with the mounting bolts (**B**).
- Using a torque wrench and 3 mm hex bit, torque the mounting bolts to 3 Nm.

WARNING! The bumpers are designed to protect the upper and lower rack mounts from colliding with frame when the handlebar is turned.

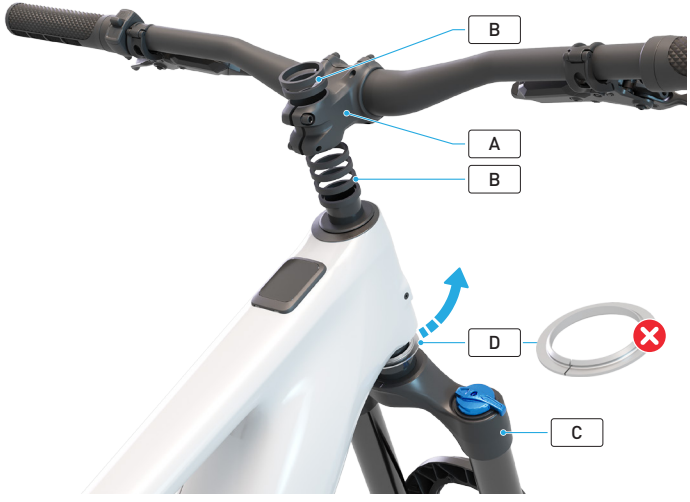
Do not ride the bicycle with only the upper clamp mount without the front rack and bumpers installed.

5.3. REMOVE THE SWAT CC, SPACERS, AND STEM



- Loosen and remove the SWAT CC tool anchor bolt (**A**) and bow tie anchor (**B**) from the underside of the steerer, then remove the SWAT CC tool (**C**) from the steerer.

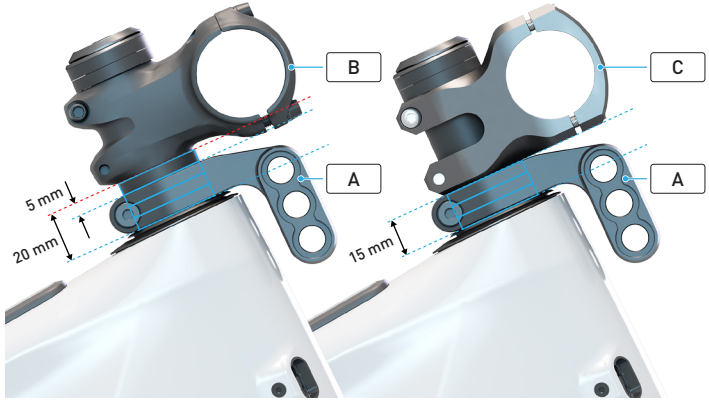
5.4. REMOVE THE SPACERS AND STEM



- Remove the stem and handlebar (**A**), spacers (**B**).
- Remove the fork (**C**) then remove the crown race (**D**) from the fork steerer.

The crown race is replaced with the lower crown mount.

5.5. STACK HEIGHTS



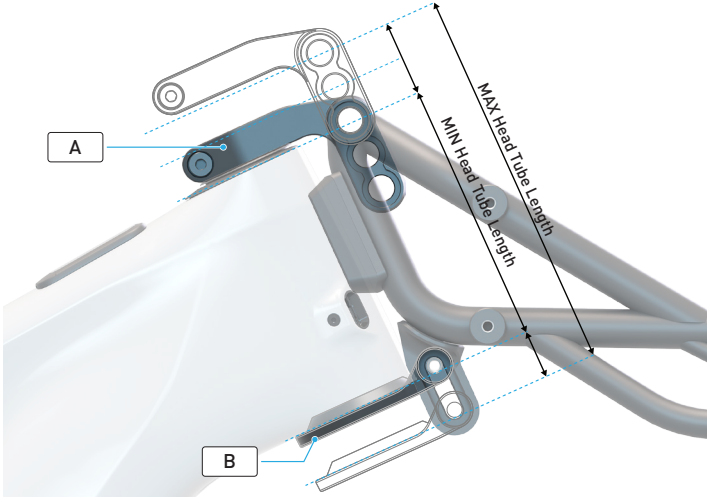
MINIMUM STACK HEIGHT:

- The rack upper clamp mount (**A**) height is 15 mm therefore the rack assembly requires a minimum of 15 - 20 mm clearance (3-4 spacers) below the stem depending on the stem.
- The standard trail stem (**B**), due to interference, requires 20 mm (4 spacers) to clear the front mount. Stems with a flat profile (**C**) require only the minimum 15 mm (3 spacers) of clearance.

MAXIMUM STACK:

The maximum recommended stack is 30 mm (6 spacers). If needed, additional stem spacers may be installed above the stem for fitment.

5.6. UPPER CLAMP MOUNT POSITION



- The upper mount (**A**) has three adjustment holes. Each is used to fit the rack onto different bicycle size head tubes.
- For small size bicycles, start the spacing with the upper hole then move the axle lower as the headtube size increases.
- The crown mount (**B**) is then used to fine tune the spacing of the rack mounts to ensure the rack fits securely on the head tube.

Ensure there is enough play in the rack adjustment to allow for complete compression when tightening the headset. If not, try switching the orientation of the spacers above or below the upper mount until there is enough adjustment distance.

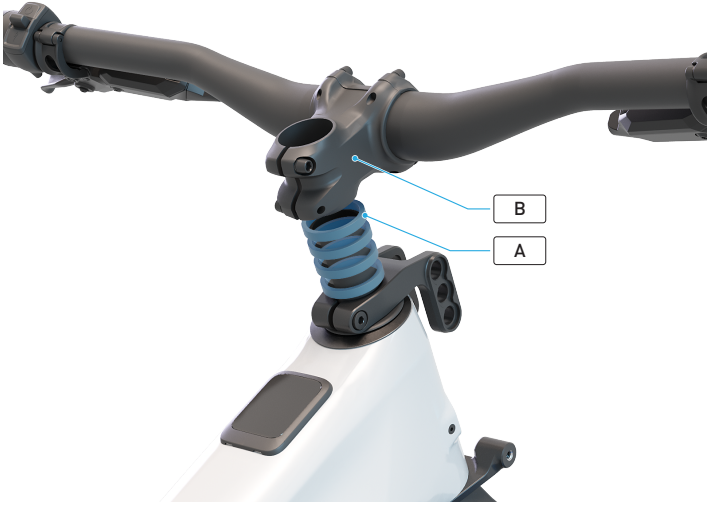
5.7. ASSEMBLE THE MOUNT BRACKETS



- Grease and insert the crown mount (**A**) over the fork steerer tube (**B**).
- Slide the fork steerer tube through the head tube and headset parts, ensuring all the headset components remain seated in the head tube.
- Slide the upper clamp mount (**C**) over the steerer.

Some model sizes may require spacers (D) underneath the upper clamp mount. Check the spacing with the rack before assembling the upper clamp mount.

5.8. ASSEMBLE THE SPACERS AND STEM



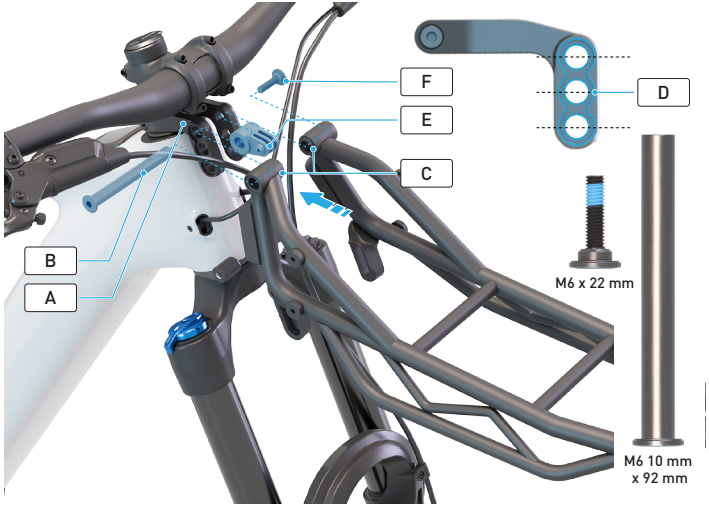
- Install the required stem spacers (**A**) and the stem assembly (**B**) onto the steerer tube without tightening the bolts.

5.9. ASSEMBLE THE SWAT CC TOOL



- Insert the SWAT CC body (**A**) into the steerer tube, orienting the SWAT CC top cover (**B**) so it can open without contacting the stem.
- Re-insert the anchor bolt and bow tie anchor (**C**) through the underside of the steerer tube, threading them into the SWAT CC body. Make sure the SWAT CC bow tie anchor is securely positioned against the lip of the steerer tube.

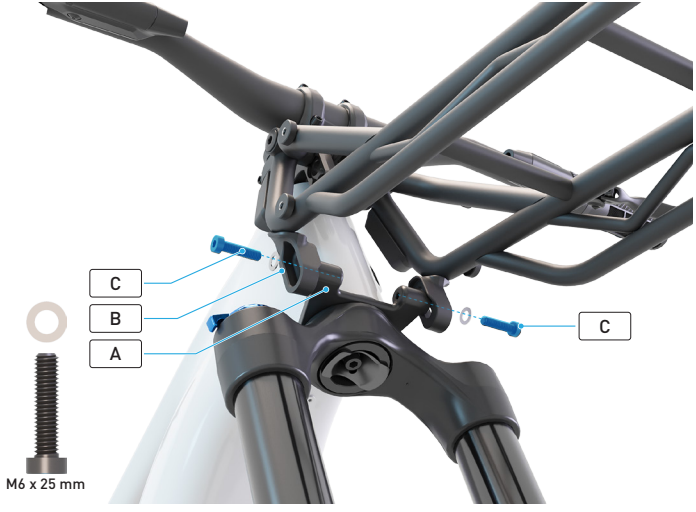
5.10. ASSEMBLE THE RACK (UPPER MOUNT)



To avoid unnecessary stress to the head tube, the upper clamp mount and the crown mount must be fully aligned and tightened. The crown mount should be loosened before tightening up the headset and re-torqued after.

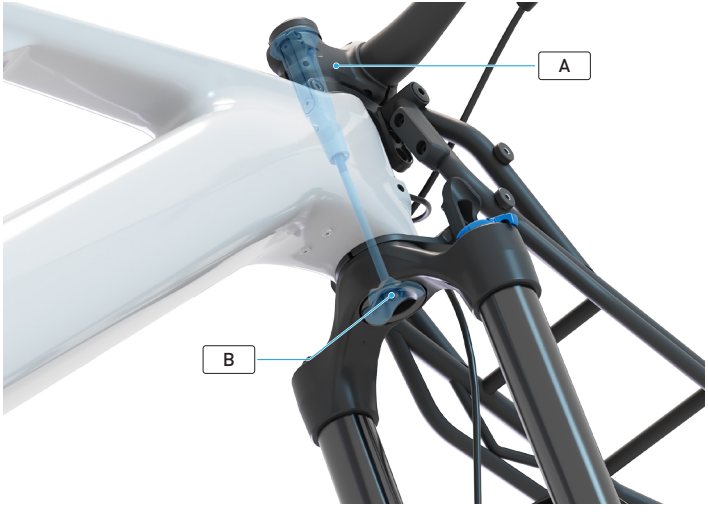
- Align the front rack to the upper mount (**A**), then insert the long axle (**B**) through the rack mount (**C**), the corresponding size upper mount hole (**D**) and camera/light mount (**E**), then insert the mounting bolt (**F**) from the other side of the rack.
- Using a torque wrench and 5 mm hex bit, torque the mounting bolt to 6 Nm.

5.11. ASSEMBLE THE RACK (CROWN MOUNT)



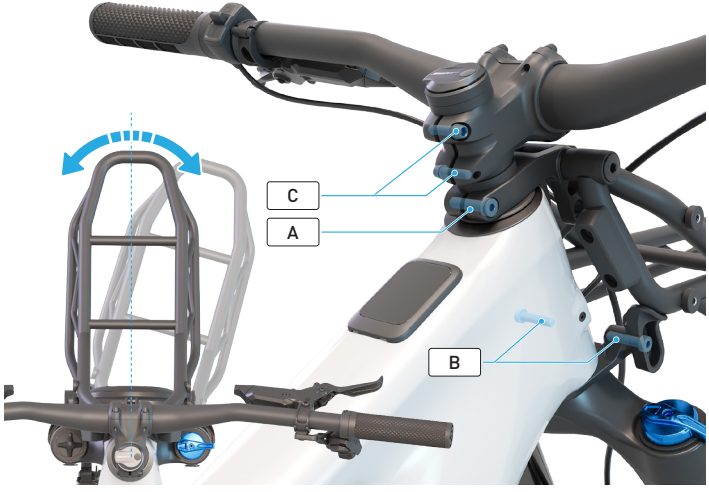
- Align the crown mount (**A**) with the tabs (**B**) on the rack and insert the mounting bolts with washers (**C**) from both sides, then using a torque wrench and 4 mm hex bit, tighten the bolts to 5 Nm.
- **IMPORTANT:** Once the rack mounts are torqued and aligned, loosen the crown mount bolts to allow for the headset to compress.

5.12. TIGHTEN UP THE HEADSET



- With the stem (**A**) loose enough to rotate, tighten the SWAT CC bolt (**B**) until there is no movement in the headset and the headset rotates smoothly. Hold the brake and rock the bike backward and forward to check for play.

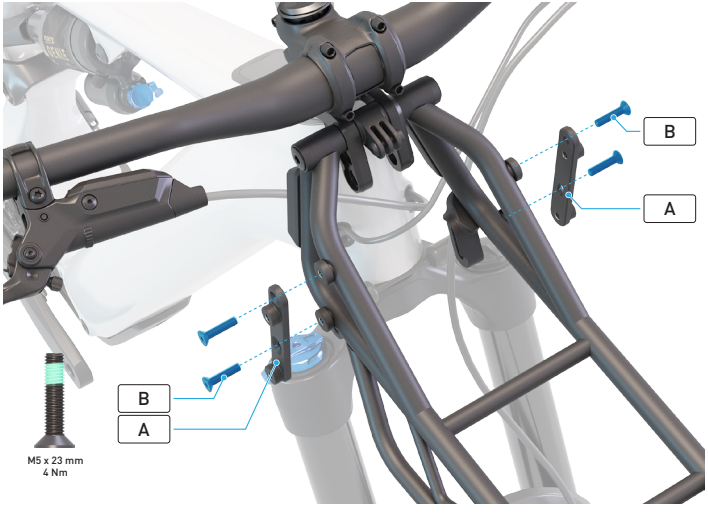
5.13. TIGHTEN THE STEM AND UPPER CLAMP MOUNT



- Align the stem, handlebar, and the rack with the front wheel.
- Using a torque wrench and 4 mm hex bit, torque the upper clamp mount bolt (**A**) and the crown mounting bolts (**B**) to 5 Nm.
- Using a torque wrench and the corresponding hex bit, torque the stem steerer bolts (**C**) to the specified torque listed on the stem, or bicycle user manual.

CAUTION: If you want to use the bicycle without the front rack, please note that the bumpers that protect the rack from impacting the frame will be missing. When turning the steerer, the rack mounts may come into contact with the frame, potentially damaging it.

5.14. ASSEMBLE THE ACCESSORY ADAPTERS



The front rack is compatible with the accessory adapter to mount water bottles on either side of the rack.

- Assemble the bottle mounts (**A**) to the rack body with the countersunk bolts (**B**), then, using a 3 mm hex key, tighten the bolts to 4 Nm.

The water bottle adapter is compatible with all aftermarket water bottles. The rack is not supplied with water bottle cages and must be purchased separately.



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