Velum

Assembly and Maintenance Instructions

Congratulations on purchasing a Velum. In the following instructions, we will guide you step by step through the assembly of your new bike. Proper assembly is essential to fully realize the potential of this product and, more importantly, to ensure a safe ride. Otherwise, serious injury or even death may occur. Therefore, your bike needs to be assembled by a qualified bicycle mechanic. The assembly of your bike should follow the steps described in this document.

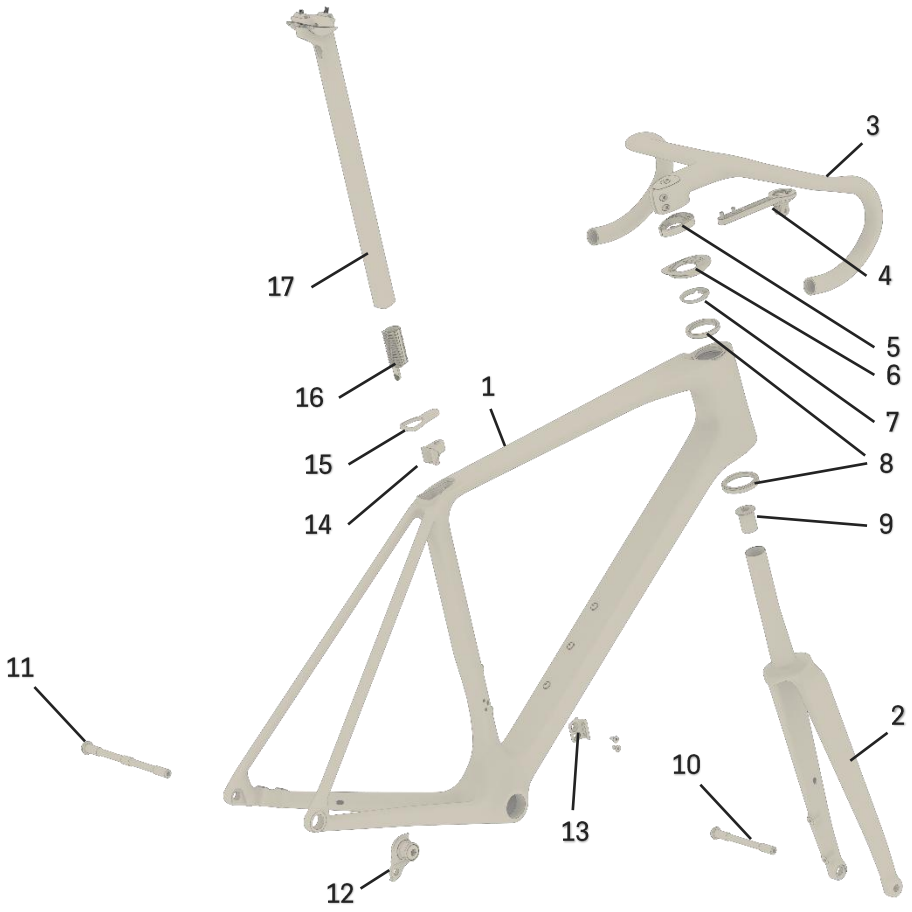
The Velum was designed and tested for a maximum system weight (bike, rider, gear and luggage) of 110 kg, which must be respected.

Component Compatibilities

Only use components that are compatible with the Velum. If in doubt, consult your Avona dealer.

Crankset	2x max. 54/40, 1x max. 60T
Hubs	12x142 rear, 12x100 front
Brakes	Flatmount 160 mm front, 140 mm rear, with the option to use 20 mm bigger with adaptors. Rear mount height is 25 mm, make sure to use the correct bolt length.
BB	BSA 68 mm
Rear Derailleur Hanger	UDH
Tires	Tires up to 700c x 35 are compatible, depending on rim inner width, tire model and drivetrain. Tires cannot exceed 35 mm in width when inflated. When switching tires, always check for sufficient clearance (4 mm).
Spacers and Stems	The Velum uses Token's Speed Addict spacers and can be combined with stems designed for Token's cable box system.
Fender	Fenders cannot be attached to the Velum.

Exploded View



Pos.	Article #	Description
1		Frame
2		Fork
3		Faserwerk Luftschneider
4	60136	Faserwerk GPS Mount
5	29025	Token Spacer 10 mm
6	A6008	Headset Cap
7		Compression Ring
8	29016	Headset Bearing Set
9	29010	Expander
10	A6007	Faserwerk Thru Axle 118 mm/M12x1.5
11	A6006	Faserwerk Thru Axle 167 mm/M12x1
12	29015	UDH Rear Derailleur Hanger
13		FD Hanger
14		Seatpost Clamp
15		Seatpost Clamp Cover
16		Di2 Battery Holder
17		Faserwerk Wuthocker Aero

Torque Overview

Unless noted otherwise, all bolts on the Velum frame should be tightened to 5 Nm.

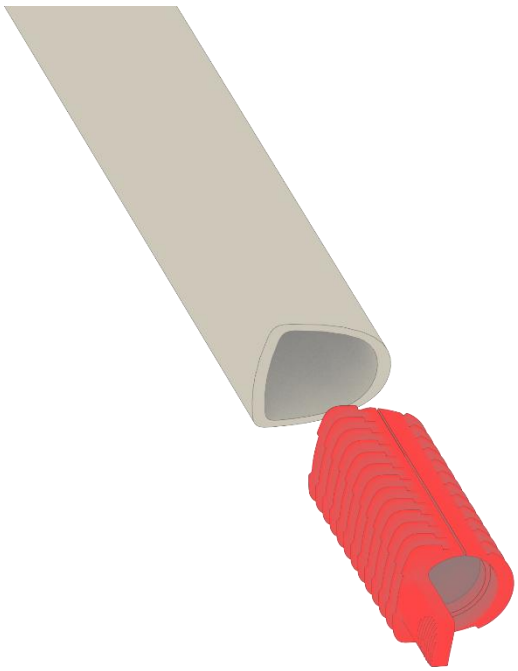
Seatpost Installation

If you are not using a repair stand that supports the frame at the axles, installing the seatpost should be your first step, because you should never clamp the frame.

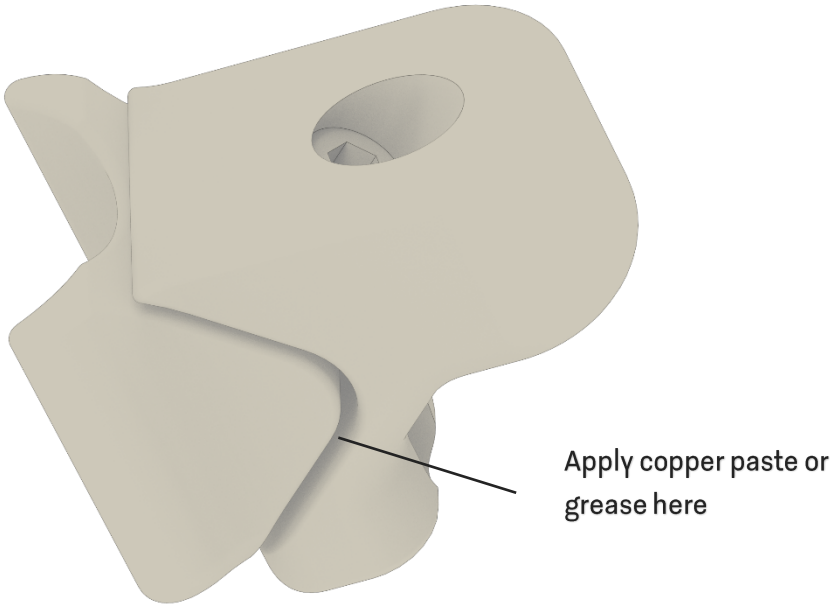
The seatpost is available in two different lengths, with two different offsets. Make sure you the minimum insertion depth marked on the seatpost is not visible when adjusting the seat height.

There is a stop for the seatpost inside the seat tube, so you do not damage it by inserting the seatpost too far. Do not try to force the seatpost past this stop, otherwise you might damage the frame. The stop is also not designed to carry the weight of a rider, so always use the seatpost clamp to fix the seatpost before riding the bike.

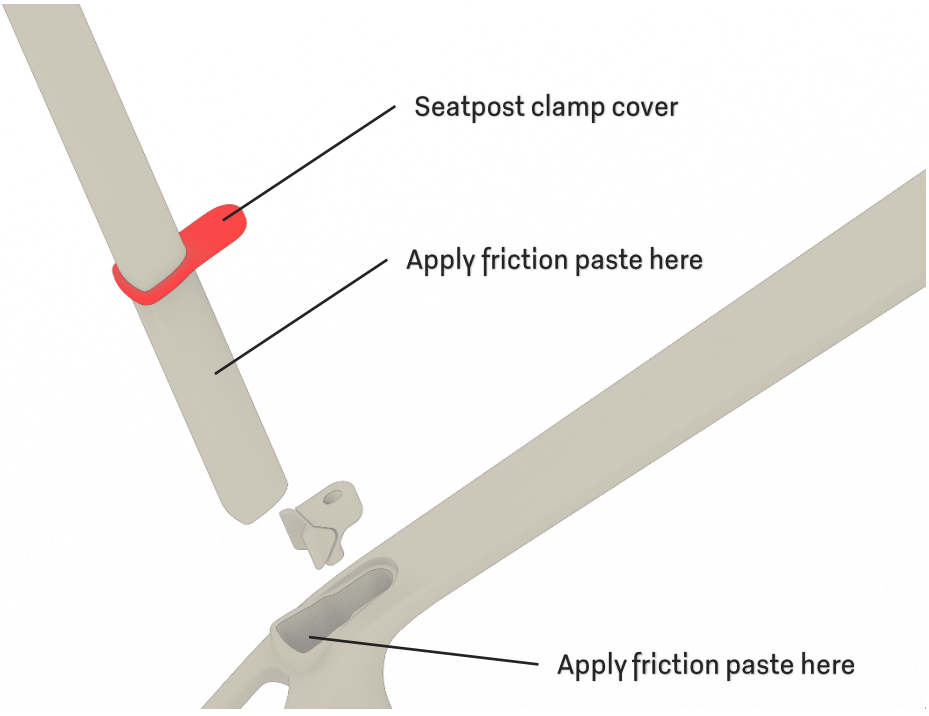
If you build your bike with a Shimano Di2 front derailleur, wrap the adaptor shown below around the battery and push the together into the seatpost.



Apply copper paste or grease in between the two wedges.



Slide the seat clamp cover over the seatpost. Apply friction paste to the inside of the seat tube and outside of the seatpost. Insert the seatpost and seatpost clamp into the frame.



Adjust the saddle height and tighten the seatpost clamp to 5 Nm. Slide the seatpost clamp cover down and stop roughly 5 mm above the frame. A small protrusion at the underside of the cover

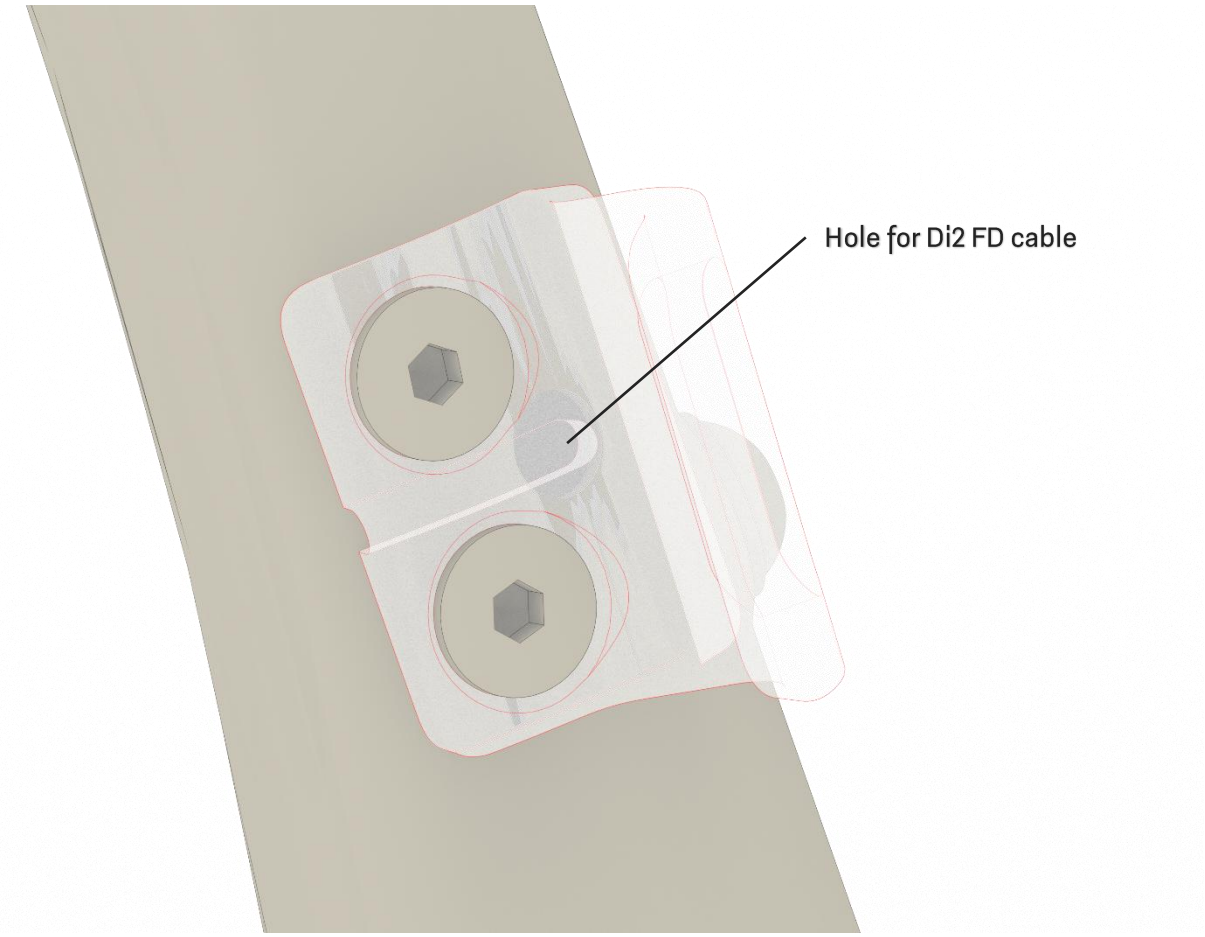
needs to go into a corresponding hole in the seatpost clamp. Push it in, the slide the cover down all the way.

Determine Fork Length

Put the frame, fork, headset, stem and maximum amount of spacers you intend to use together. If you are not sure about your bar height, Faserwerk offers a top spacer, with which you can put additional spacers above the Luftschneider cockpit. Mark the top edge of the stem (or additional spacers on top of the stem) on the fork steerer. Take the fork out and cut it 4-5 mm below the mark. Install the expander in the fork steerer.

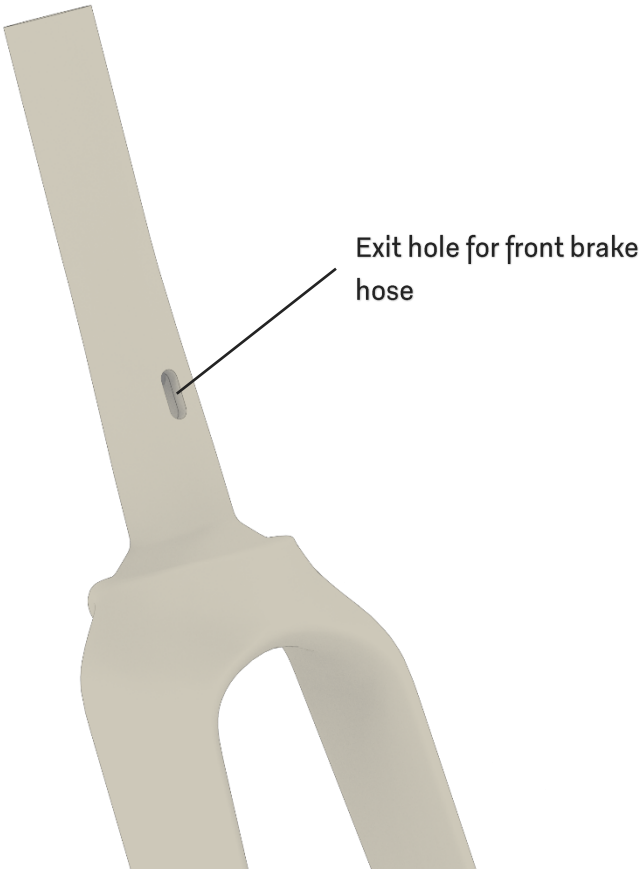
Cable Routing

Please be aware the Velum is only compatible with electronic shifting. For a Di2 front derailleur, you will need to remove the FD hanger, as the cable exit sits behind it.



Start cable routing at the back of the bike, pushing the brake hose and (if applicable) the derailleur cable housing towards the head tube. We recommend the use of foam tube in the down tube to avoid rattling.

For the front brake, insert the brake hose from the bottom, and take it out through the hole in the fork steerer.



Apply grease to the headset bearing seats, slide the lower headset bearing over the fork and brake hose, and insert it into the frame. Slide the upper headset bearing over the fork and brake hoses (and cable housing, if applicable), same with the compression ring. Pull the brake hoses through the holes in the headset cap and push the headset cap down onto the compression ring. Now pull the brake hoses through the stem and handlebar (if you use one with internal routing) and put the stem onto the fork steerer. Install the spacers and top cap, then tighten the stem.

CeramicSpeed UFO Chain Maintenance

All Avona bikes come with a chain that went through CeramicSpeed's UFO chain wax treatment. This ensures your drivetrain stays clean, lasts longer and allows you to go faster. To keep enjoying these benefits, only use wax-based products, ideally UFO drip lube, to re-lube your chain. Refer to CeramicSpeed's instructions for how to keep best care of your chain.