

2023 S5 RETAILER ASSEMBLY MANUAL

cervélo

velo

TABLE OF CONTENTS

Important Information	1	Stack Adjustment.	19
List of Tools & Supplies.	2	Stem Installation	20
2023 S5 Parts List.	3	Handlebar Installation.	21
Small Parts	4	Before Final Fitting.	23
Fork & Headset Components	6	Seatpost Assembly	24
Handlebar & Stem Components	7	Seatpost Cutting Instructions	25
Frame & Fork Preparation.	9	Compatible Parts - HB14 Tri Extension Mount Assembly.	26
Fork Installation	11	Aero Thru-Axle Installation	27
Brake Hose Routing.	13	Tire/Rim Clearance.	29
Headset Assembly.	15	Intended Use of the S5 Bicycle.	30
Di2 Battery Installation.	16	S5 Torque Specifications	31
Electric Wire Routing & Installation.	17	Cervélo Customer Support.	33

IMPORTANT INFORMATION

This manual is intended to assist Cervélo retailers in setting up and customizing the 2023 S5 bicycle. This manual is not intended for consumer use, and requires the use of the specified tools to ensure proper assembly. This manual also references proprietary parts available only to retailers through direct ordering from Cervélo.

Failure to use the specified parts and to follow the supplied assembly instructions may result in a loss of control while riding and serious injury. This manual is an overview of the steps required to assemble this bicycle and to make any desired modifications as set forth in this manual. This manual assumes that the retailer has the minimum required background and skill level required of all professional bicycle mechanics. See <https://www.probma.org/>

NOTE: Cervélo strongly recommends that all assembly and adjustment procedures be performed by an authorized Cervélo retailer. If you are a Cervélo S5 consumer/purchaser reading this manual we suggest that before attempting to undertake any of the procedures in this manual that you consult your authorized Cervélo retailer, or visit us at www.cervelo.com/support

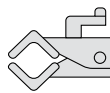
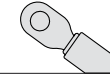






LIST OF TOOLS & SUPPLIES

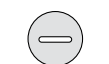





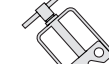

This manual outlines a number of procedures for making optional adjustments to the S5 which differ from the way the bicycle is originally sold by Cervélo. The following tools and parts listed are required for these adjustments. These parts are not available for consumer purchase and are only available for purchase by Cervélo retailers. Cervélo strongly recommends that all assembly and adjustment procedures be performed by an authorized Cervélo retailer.

All parts available for separate purchase are noted in this manual with Cervélo part numbers listed in ALL - CAPS FORMAT, with a full listing provided on page 3. These parts are available by visiting the Cervélo Customer Portal <https://dealers.cervelo.com>

NOTE: All non-proprietary components such as those from Shimano or SRAM are available from your local distributor.

NOTE: This manual was developed to compliment the Cervélo General User Manual, and is intended as a supplement to the assembly and installation instructions supplied by the component manufacturers (provided with this bicycle).

Tools	
	Bicycle workstand (types which secure bike by the seatpost, or pro-type stand with fork mount)
	Torque wrench(es) with 2.5Nm to 15Nm range and adaptors:
	Allen (Hex) head inserts: 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm
	Torx head inserts: T25
	Open ended wrenches: 7mm, 8mm, 10mm, 17mm
	Cable cutters
	Pliers
	Phillips-head screwdriver

Tools	
	Slot-head screwdriver
	Pedal wrench
	Brake rotor lockring tools
	Hydraulic bleed kit
	Isopropyl alcohol
	Di2 wire tool – Shimano
	Good quality bicycle grease
	Saw cutting guide (Park Tool SG-72 or equivalent)
	Hacksaw (with carbon specific blade)

2023 S5 PARTS LIST

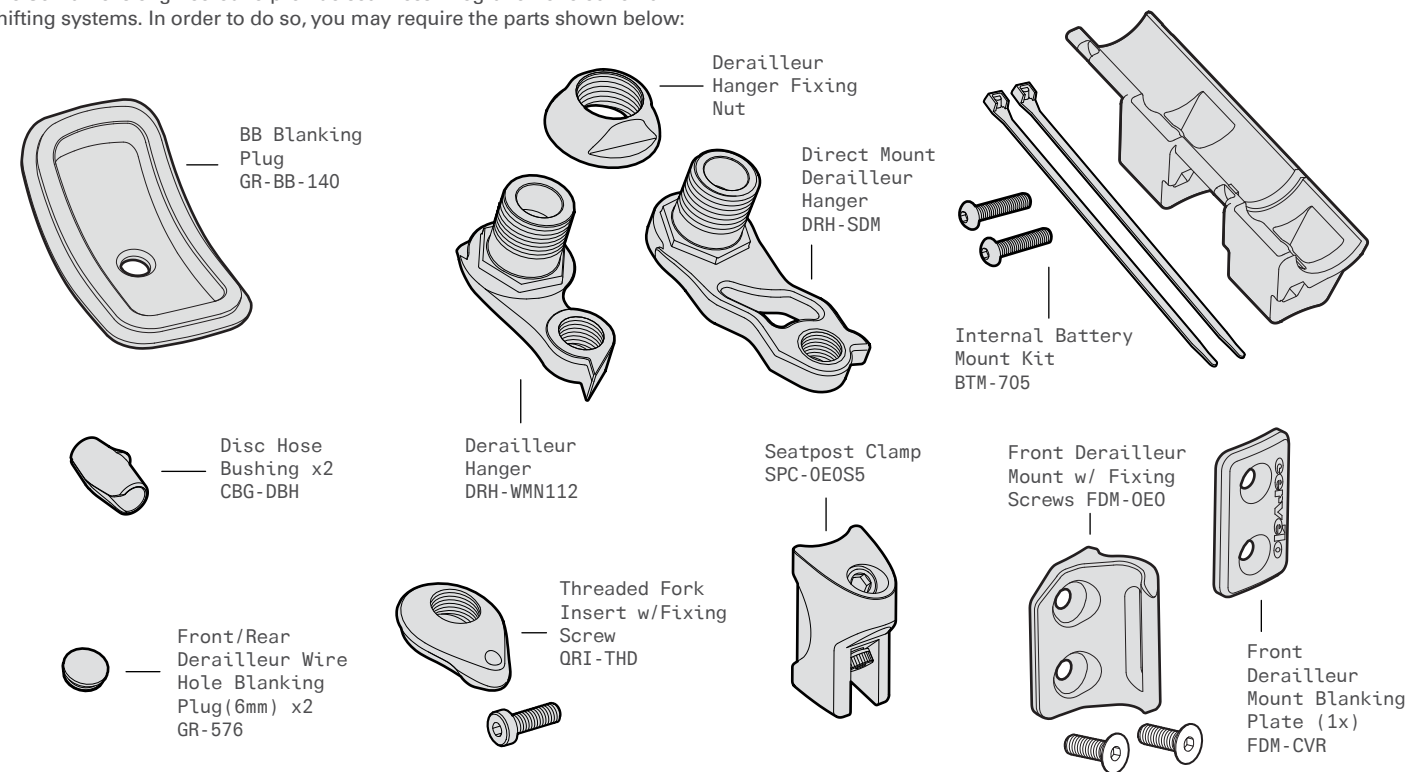
Item Description	Cervélo Part No.
S5 Seatpost Clamp Assembly	SPC-0E0S5
Front Derailleur Mount w/Fixing Screws	FDM-0E0
FDM Blanking Plate	FDM-CVR
Rear Derailleur Hanger w/Fixing Nut	DRH-WMN112
Shimano Direct Mount RDH w/Fixing Nut	DRH-SDM
Threaded Fork Insert w/Fixing Screw	QRI-THD
Disc Brake Hose Guide	CBG-DBH
BB Blanking Plug	GR-BB-140
6mm Blanking Plug for Front & Rear Derailleur	GR-576
Internal Battery Mount Assembly	BTM-705
Upper Bearing Gap Spacer w/Fixing Screws	FKI-GPSP

Item Description	Cervélo Part No.
Preload Cone	HS-S5F-CN
Tension Rod w/ Bumper for 48cm	HS-TR48
Tension Rod w/ Bumper for 51cm	HS-TR51
Tension Rod w/ Bumper for 54cm	HS-TR54
Tension Rod w/ Bumper for 56cm	HS-TR56
Tension Rod w/ Bumper for 58cm	HS-TR58
Tension Rod Bumper	HS-581
HB14 Handlebar	see page 7
HB14 Mounting Kit	HBP-HB14
HB14 Extension Mounts w/ Pads and Fixing Screws	HBP-HB14-EXTMT
ST35 Stem	see page 8
ST35 Stem Mounting Hardware Kit	SK-ST35

Item Description	Cervélo Part No.
ST35 Stem Bolt Cover Kit	GR-C035
ST35 Headset Spacer Kit	HSS-S5F-KT
SP20 Carbon Post 0mm Offset w/Head	SP-SP20-ZERO
SP20 Carbon Post 15mm Offset w/Head	SP-SP20-15MM
Cervélo Front Aero Thru Axle w/ Removable Handle	QRA-AERO2-F
Cervélo Rear Aero Thru Axle w/Removable Handle	QRA-AERO2-R
Removable Handle for Cervélo Aero Thru Axle	QRA-AERO2-HNDL
S5 Chainstay Protector	PRO-CS-508
Two-Bolt Mount Accessory Kit-Front	MT-LM-F-371
Accessory Mount-Rear	MT-LM-R-003

SMALL PARTS

The S5 frame is engineered to provide seamless integration of electronic shifting systems. In order to do so, you may require the parts shown below:



SMALL PARTS

To install Two-Bolt Mount Accessory Kit - Front (MT-LM-F-371) use the appropriate length fixing bolts and mount to the underside of the handlebar. Tighten to 2Nm maximum.

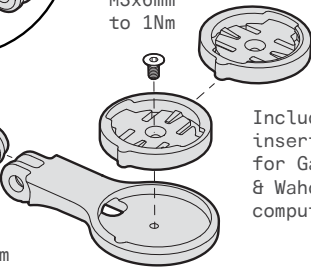
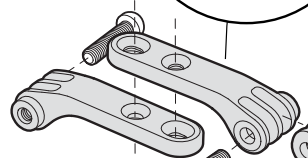
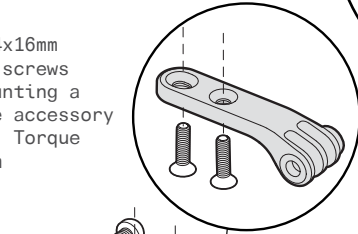
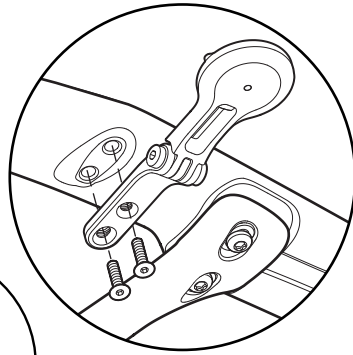
Use M4x16mm fixing screws if mounting a single accessory plate. Torque to 2Nm

Use M4x22mm fixing screws if mounting dual accessory plates. Torque to 2Nm

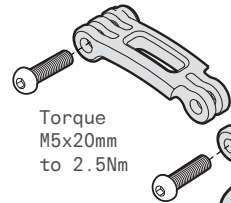
Torque M5x20mm to 2.5Nm

Torque M3x6mm to 1Nm

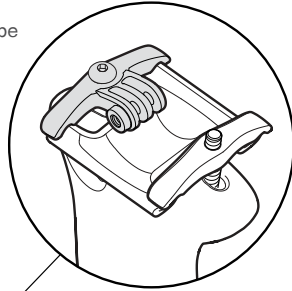
Includes inserts for Garmin & Wahoo computers.



For use without accessory, clip may be hidden, by reversing the upper clamp.



Torque M5x20mm to 2.5Nm



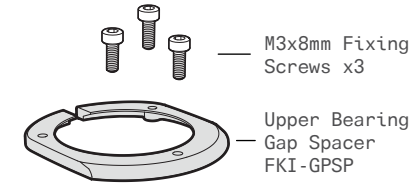
To install Accessory Mount - Rear (MT-LM-R-003), replace the rear upper clamp of the seatpost with the kit version. Tighten to maximum 8Nm.

FORK & HEADSET COMPONENTS

⚠ WARNING
Your Cervélo frame & fork have been designed to work together. Do not attempt to install an alternative fork.

NOTE: The S5 headset assembly does not require a split ring.

S5 Fork
48cm FK147-2464
51cm FK147-2465
54cm FK147-2466
56cm FK147-2467
58cm FK147-2468

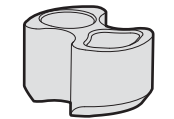


M3x8mm Fixing Screws x3

Upper Bearing Gap Spacer FKI-GPSP

Upper Bearing 1-1/8", 36° x 45°

Lower Bearing 1-3/8", 36° x 45°



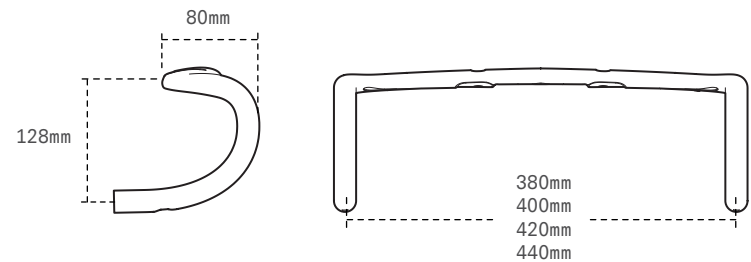
PreLoad Cone HS-S5F-CN

Tension Rod
48cm-HS-TR48
51cm-HS-TR51
54cm-HS-TR54
56cm-HS-TR56
56cm-HS-TR58

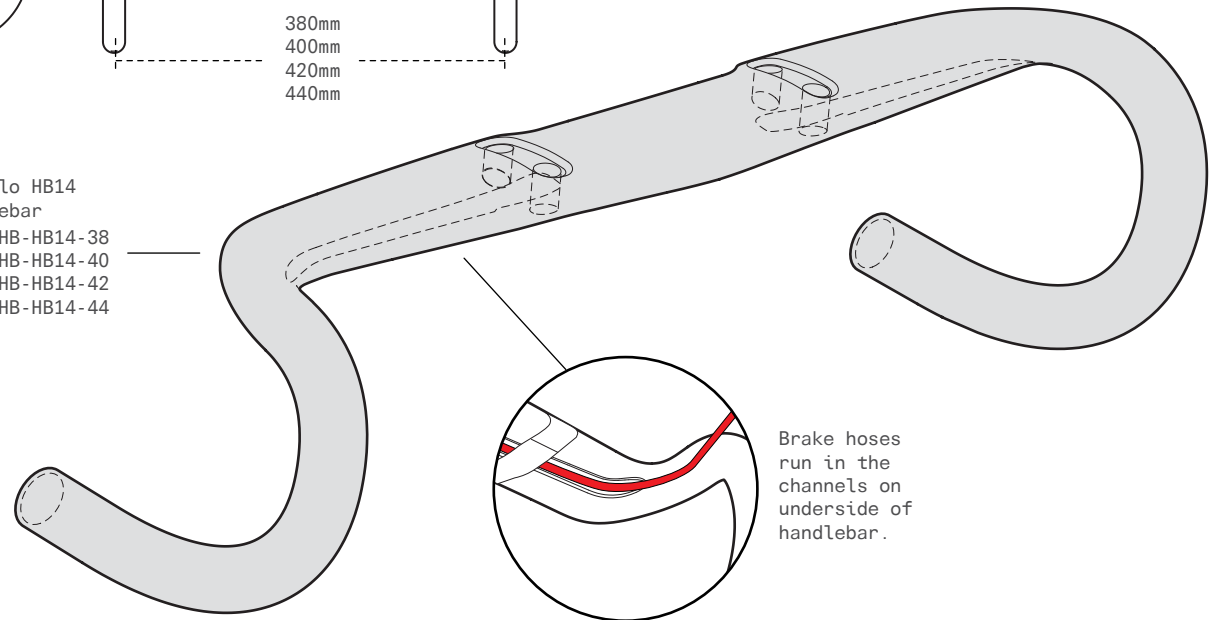
Tension Rod Bumper HS-581



HANDLEBAR & STEM COMPONENTS

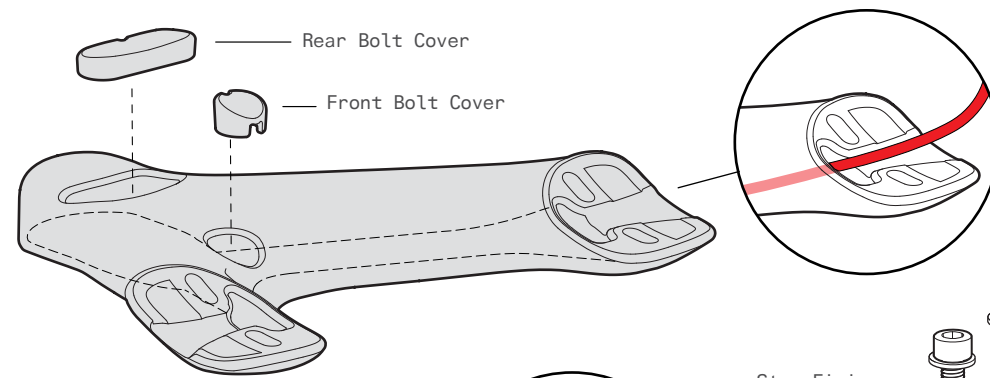


Cervélo HB14
Handlebar
38cm HB-HB14-38
40cm HB-HB14-40
42cm HB-HB14-42
44cm HB-HB14-44



Brake hoses run in the channels on underside of handlebar.

⚠ WARNING
Only use the components specified in this manual for handlebar and stem assembly. Failure to use the specified parts and to follow the supplied assembly instructions may result in a loss of control while riding and serious injury.

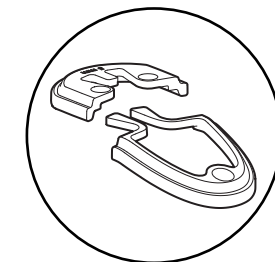


Brake hoses run through the arms of the C035 stem.

Cervélo C035 Stem
80mm ST-C035-80
90mm ST-C035-90
100mm ST-C035-100
110mm ST-C035-110
120mm ST-C035-120
130mm ST-C035-130

Stem Bolt Covers are included with stem.

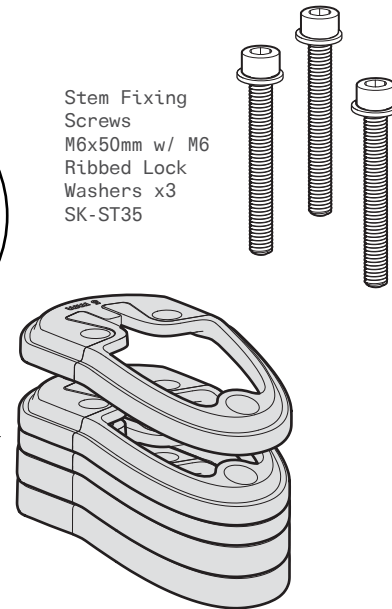
Stem Bolt Covers also available as kit GR-C035.



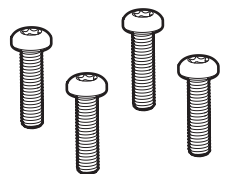
C035 Stem Spacers
HSS-S5F-KT
5mm spacers x3
7.5mm spacers x2

Two-piece Stem Spacers allow for installation or removal without re-cabling.

Stem Fixing Screws
M6x50mm w/ M6 Ribbed Lock Washers x3
SK-ST35

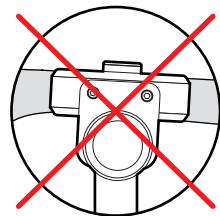
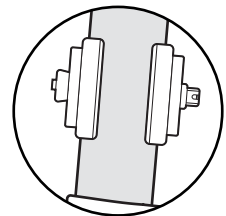


Handlebar Mounting Inserts (Right & Left) Kit w/ Fixing Screws HBP-HB14



T25 Torx Fixing Screws
M5x20mm x4

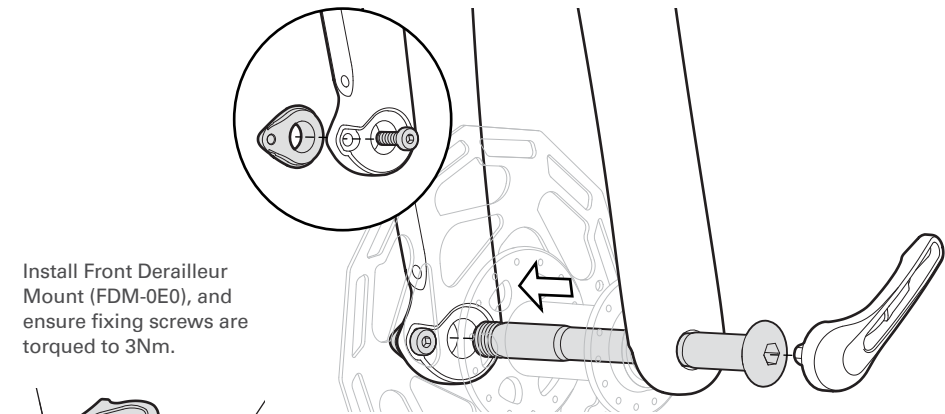
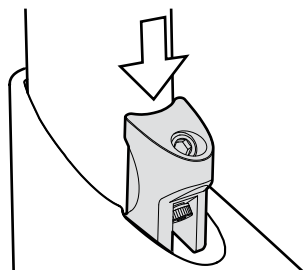
FRAME & FORK PREPARATION



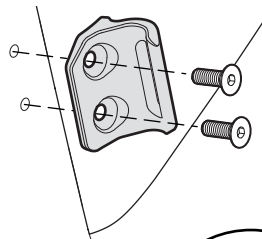
⚠ WARNING
Hold the frame using a secured seatpost only.

⚠ WARNING
Clamping the top tube can damage the frame and void your warranty.

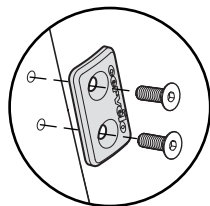
1. Apply carbon paste to both frame and seatpost.
2. Insert the seatpost and the Seatpost Clamp (SPC-0E0S5) fully into frame so it is fully flush with the top tube.
3. Adjust height and torque to 8Nm maximum.



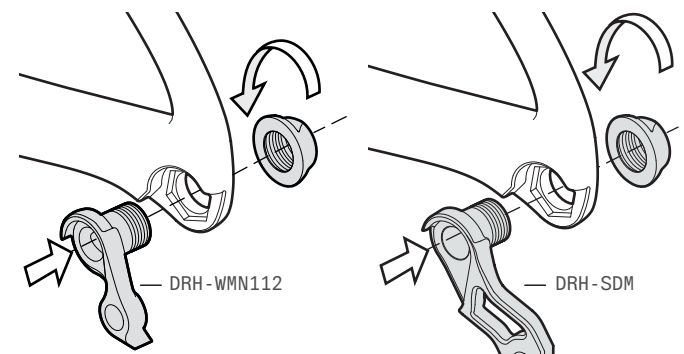
Install Front Derailleur Mount (FDM-0E0), and ensure fixing screws are torqued to 3Nm.



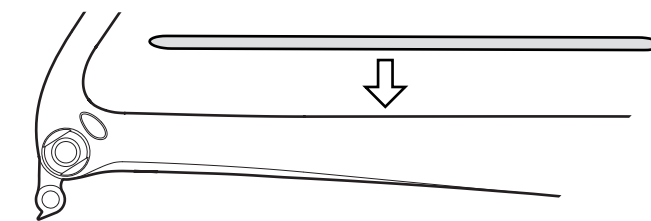
For 1x systems replace with the Front Derailleur Mount Blanking Plate (FDM-CVR).



1. Lightly grease supplied M4 fixing screw. Install the Threaded Fork Insert (QRI-THD) and fixing screw, tightening only lightly.
2. Without wheel in place, install the axle and tighten until the flange meets the fork dropout face, but does not compress the fork blades.
3. Tighten the fixing screw to 3Nm.
4. Remove the axle and install wheel. Reinstall axle and tighten to 12-15Nm.
5. Remove axle and wheel, and re-torque the fixing screw to 3Nm.

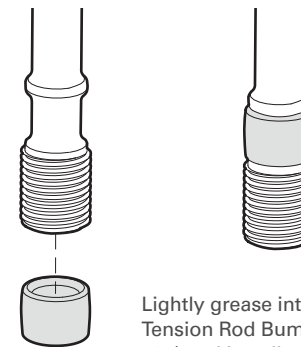


Lightly grease Rear Derailleur Hanger Fixing Nut and install either Rear Derailleur Hanger (DRH-WMN112) or Direct Mount Rear Derailleur Hanger (DRH-SDM) finger tight. Final tightening will be performed after rear wheel installation.



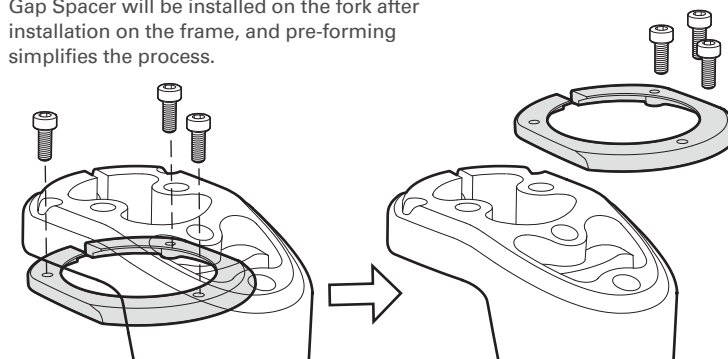
Clean the chainstay using isopropyl alcohol. Install the Chainstay Protector (PRO-CS-508) by removing adhesive backing, and fixing the guard to the frame. The bottom rearward edge should be approximately 50mm forward from the back of the rear dropout.

⚠ WARNING
Do not final tighten rear derailleur hanger assembly without rear wheel installed. Doing so may result in a misaligned derailleur and poor shifting.



Lightly grease interior of the Tension Rod Bumper (HS-581) and install onto Tension Rod (HS-TRxx). Note: "xx" denotes frame size.

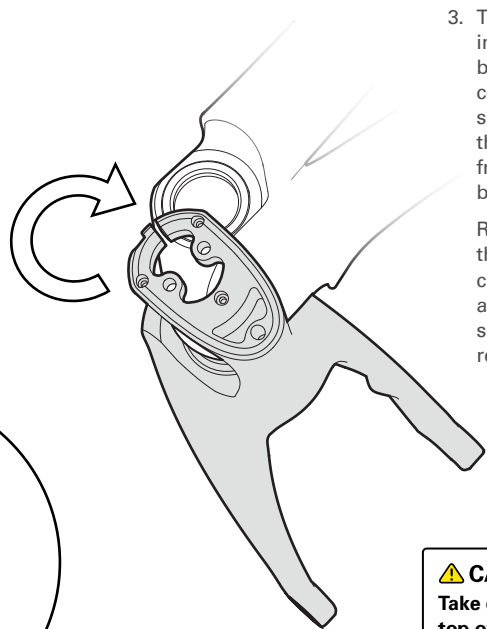
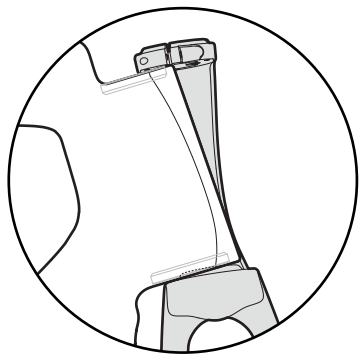
In preparation for assembly, pre-form threads in the Upper Bearing Gap Spacer (FKI-GPSP) by installing the supplied M3x8mm fixing screws with the fork separate from the frame. Then remove the screws and Gap Spacer. The Gap Spacer will be installed on the fork after installation on the frame, and pre-forming simplifies the process.



FORK INSTALLATION



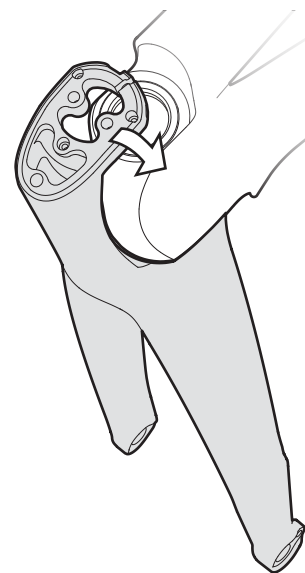
1. Apply grease to the bearing pockets and install the upper and lower headset bearings into the frame.
2. Orient the fork perpendicular to the frame and with the fork tilted away from the frame at the top, position the raised crown area of the fork inside the lower bearing.



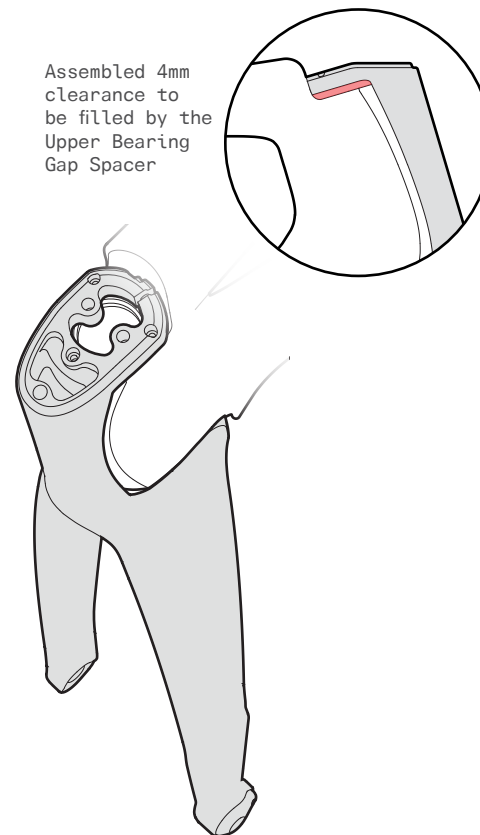
3. Tilt/rotate the top of the fork into place over the upper bearing. When positioned correctly little or no effort should be required to position the top of the fork above the front of the head tube & upper bearing.

Rotate/slide the fork around the head tube counter-clockwise until it is mostly aligned with the frame, and sitting slightly off-center relative to the frame .

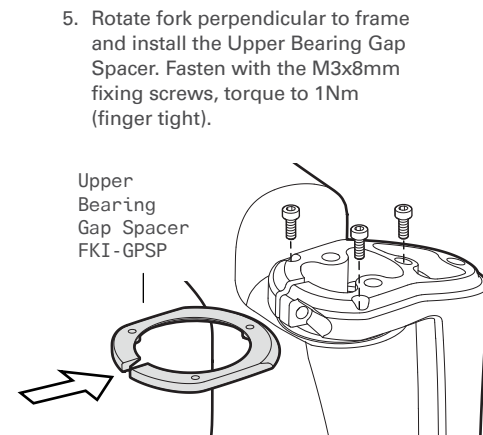
⚠ CAUTION
Take care not to force the fork top over the head tube by deviating from these installation steps or by trying to push-through interference between these parts. Improper assembly can result in damage to the paint on the frame or fork.



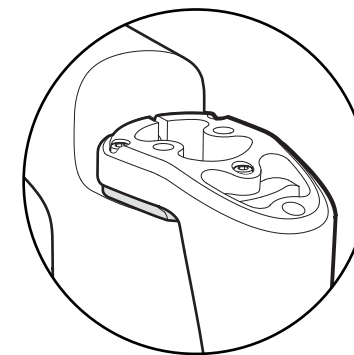
4. With the lower bearing mostly seated in this position, gently slide the fork laterally and let the crown settle fully into the lower bearing. Once fully seated the top of the fork can be fully aligned above the upper bearing.



Assembled 4mm clearance to be filled by the Upper Bearing Gap Spacer



5. Rotate fork perpendicular to frame and install the Upper Bearing Gap Spacer. Fasten with the M3x8mm fixing screws, torque to 1Nm (finger tight).

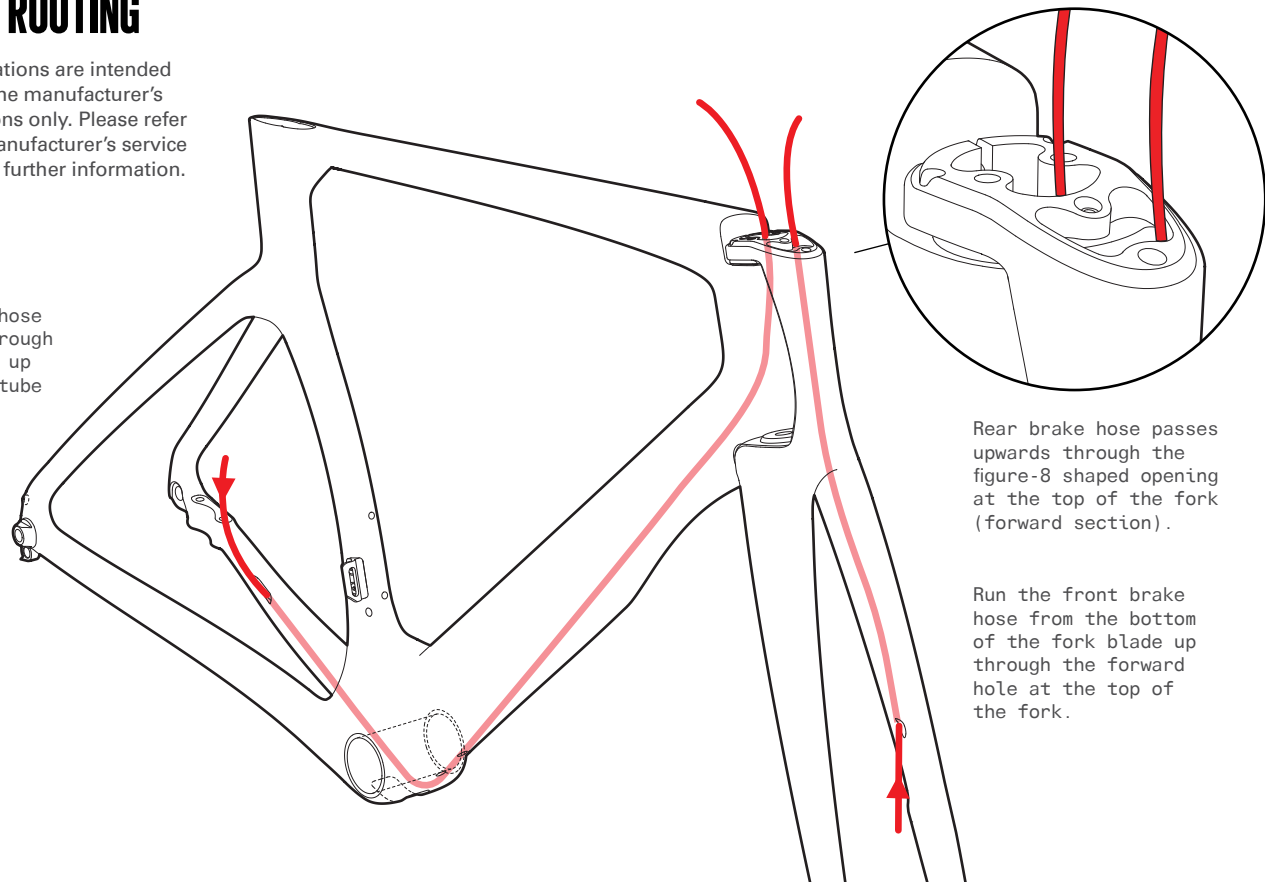


BRAKE HOSE ROUTING

These routing illustrations are intended as a supplement to the manufacturer's installation instructions only. Please refer to the component manufacturer's service center or website for further information.

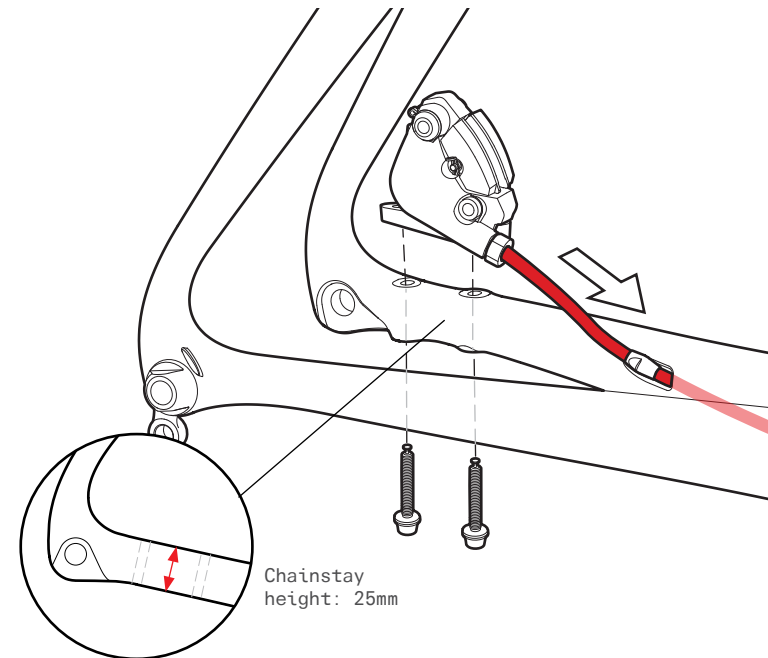
● Brake

Route rear brake hose from chainstay through the down tube and up through the head tube and fork.



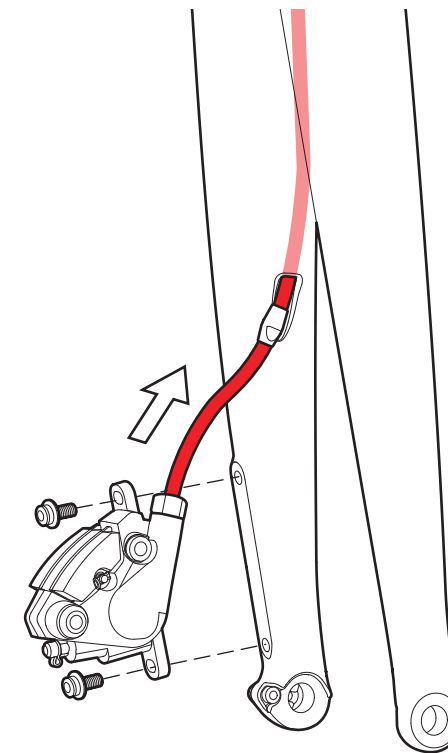
Rear brake hose passes upwards through the figure-8 shaped opening at the top of the fork (forward section).

Run the front brake hose from the bottom of the fork blade up through the forward hole at the top of the fork.



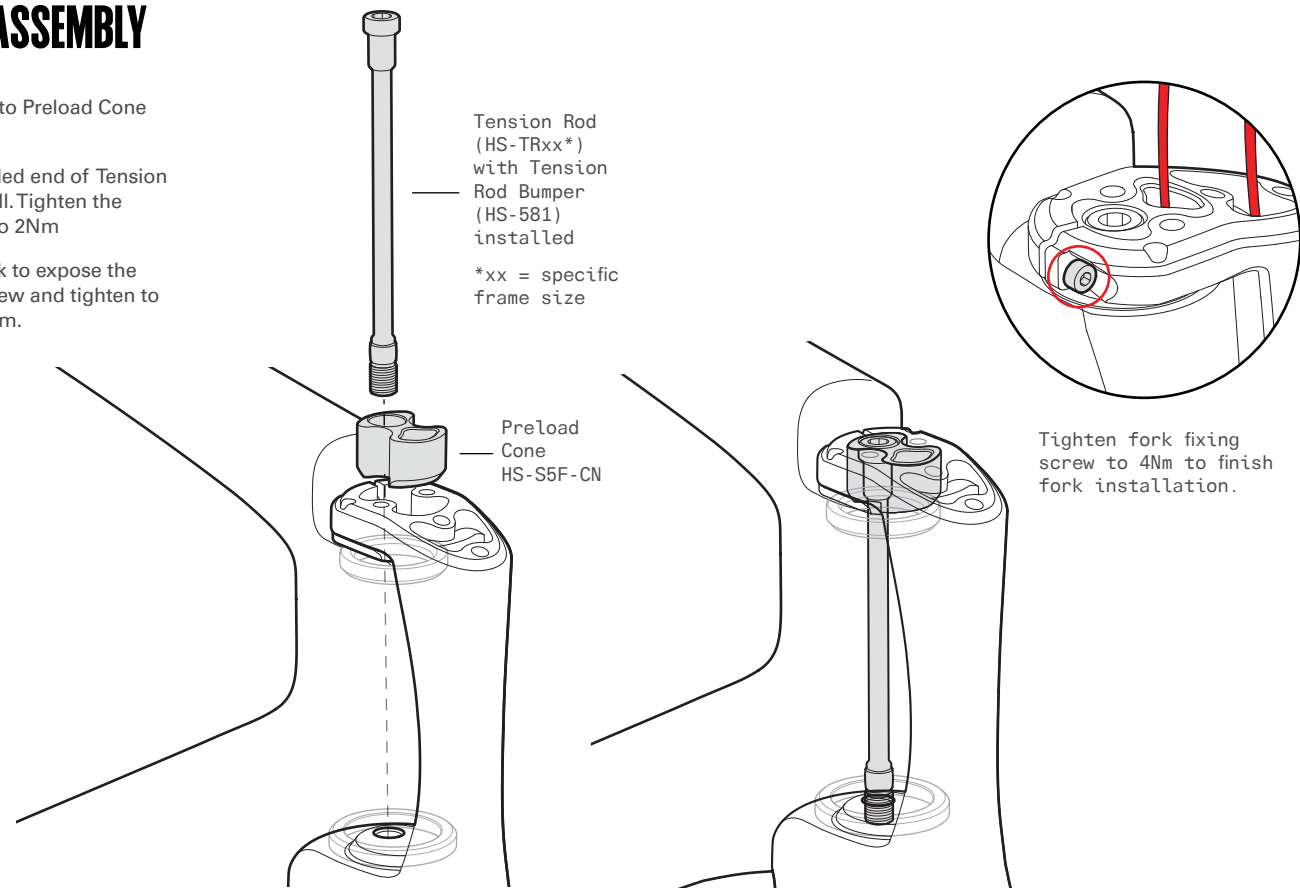
Chainstay height: 25mm

Route hydraulic brake hose through the frame and fork with the Disc Hose Guide (CBG-DBH). Install and adjust calipers as per manufacturer's instructions.



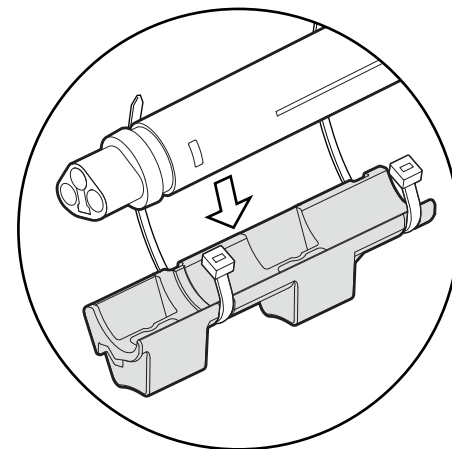
HEADSET ASSEMBLY

1. Apply grease to Preload Cone and install.
2. Grease threaded end of Tension Rod and install. Tighten the Tension Rod to 2Nm
3. Rotate the fork to expose the fork fixing screw and tighten to 4Nm maximum.

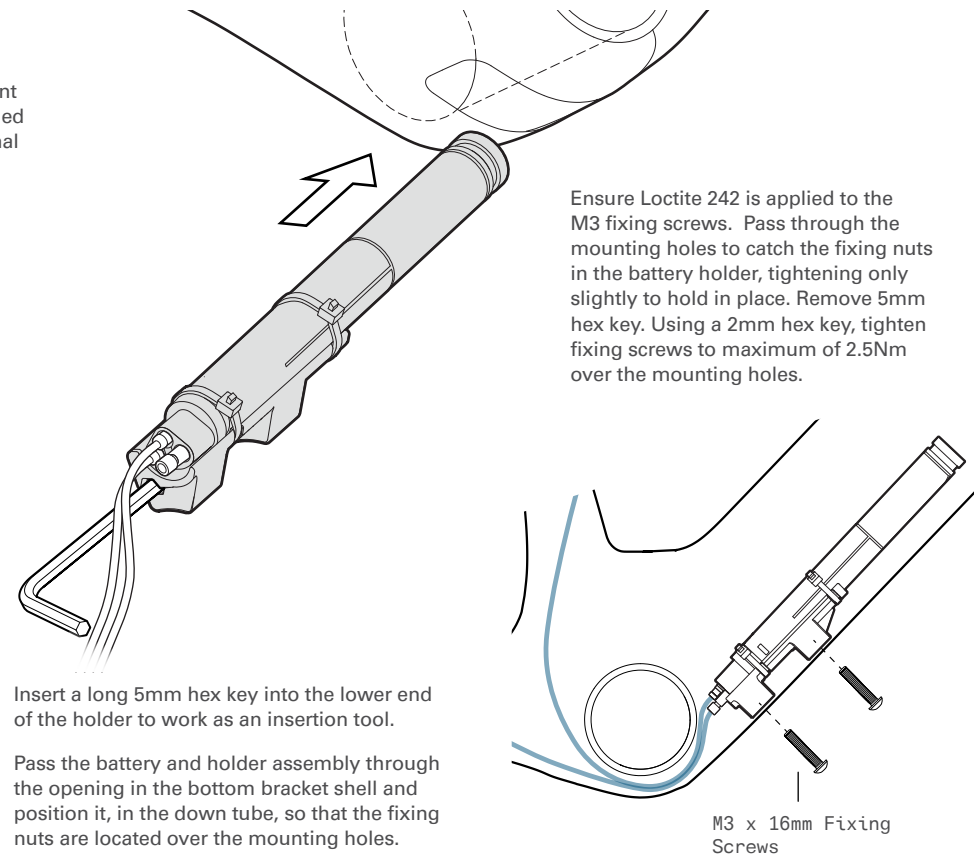


DI2 BATTERY INSTALLATION

The battery for your Shimano Di2 system mounts inside the down tube using the Internal Battery Mount (BTM-705) designed to fit this frame. As this is a sealed location, it is important to test the system prior to final installation.



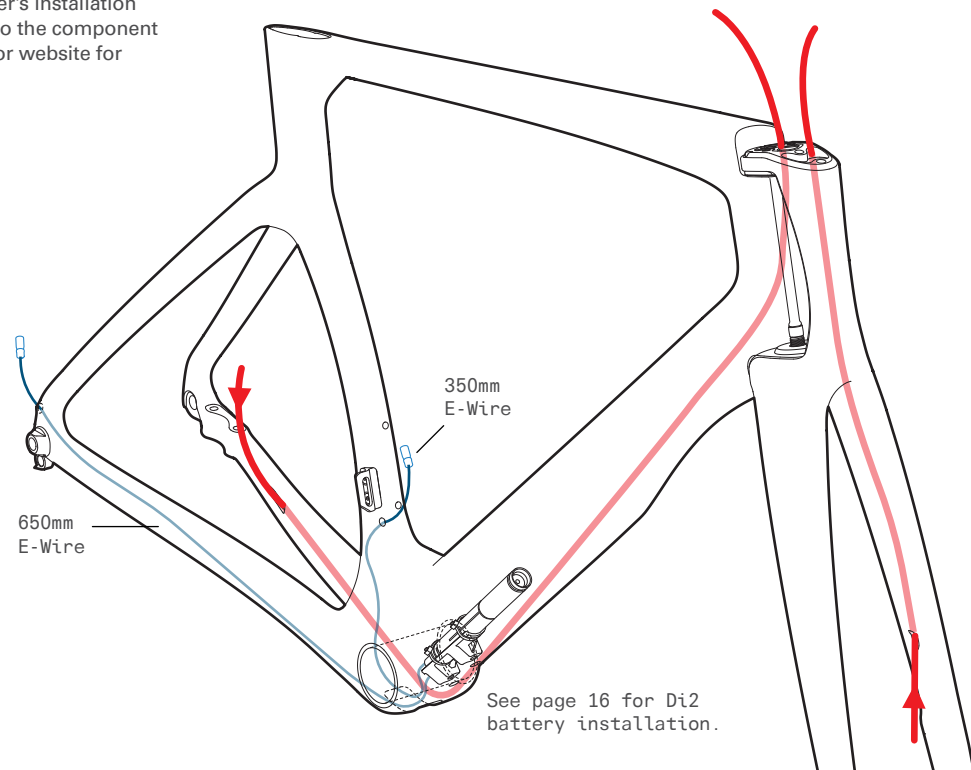
Attach battery to mount using two zip ties, and install.



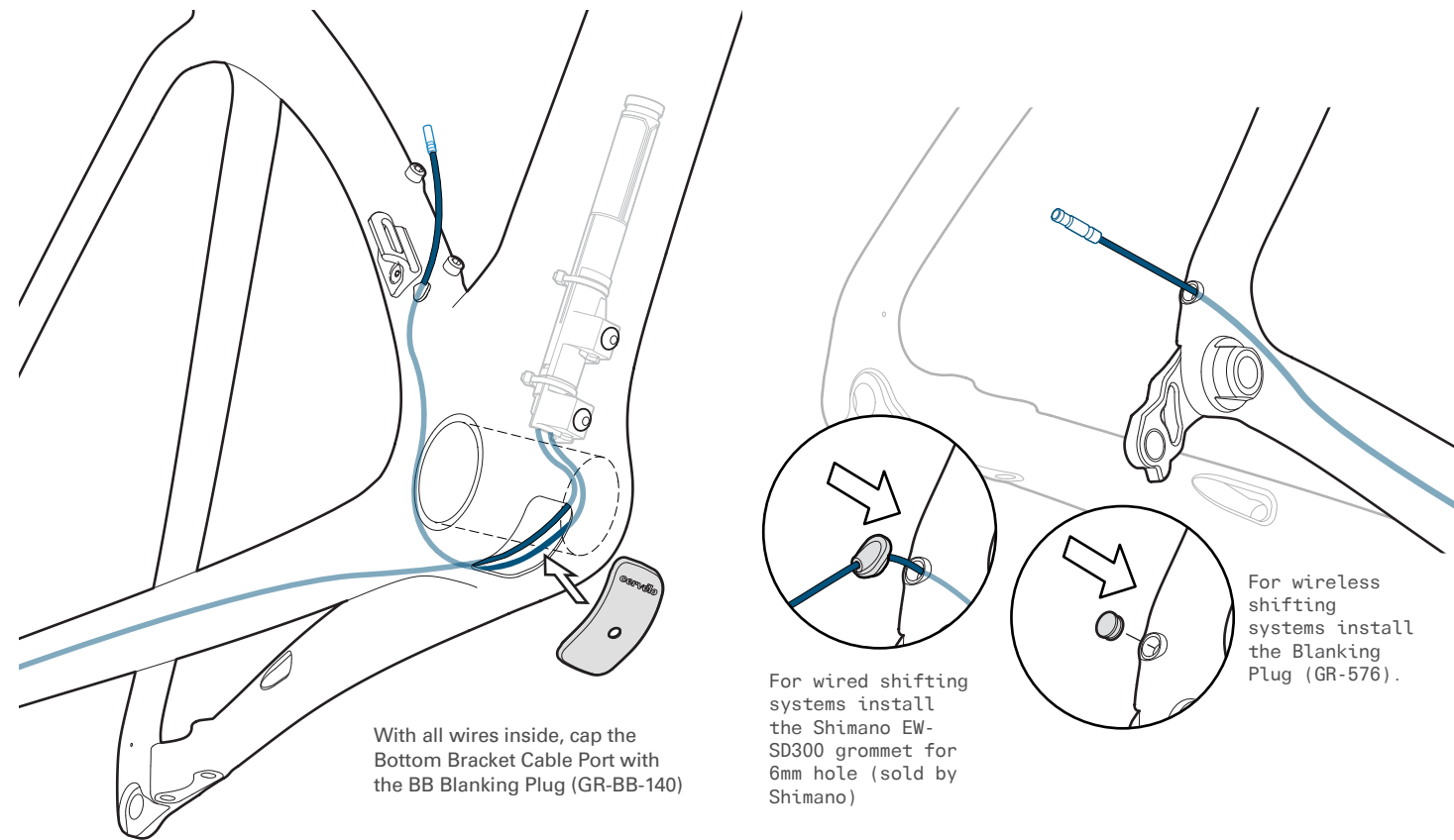
ELECTRIC WIRE ROUTING & INSTALLATION

These routing illustrations are intended as a supplement to the manufacturer's installation instructions only. Please refer to the component manufacturer's service center or website for further information.

- Brake
- E-Wire (SD300)



NOTE: The S5 frame and fork are designed to be compatible with electronic / wireless groupsets only.

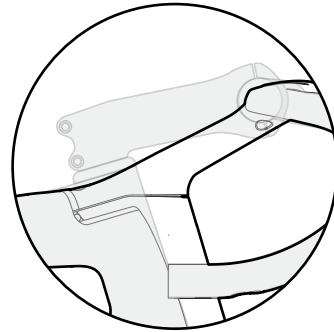


STACK ADJUSTMENT

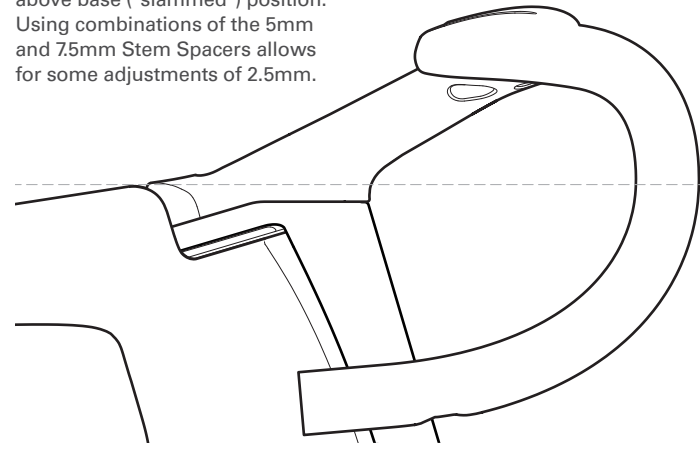
⚠ WARNING

Complete Headset Spacer Kits must be utilized without substitution or combination of parts. Failure to use the specified parts and to follow the supplied assembly instructions may result in a loss of control while riding and potentially serious injury.

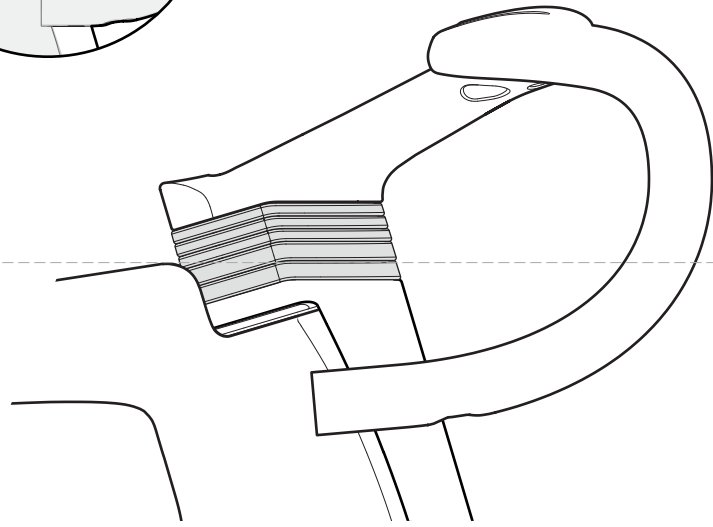
The S5 allows for spacer stack adjustment from +5mm to +30mm above base ("slammed") position. Using combinations of the 5mm and 7.5mm Stem Spacers allows for some adjustments of 2.5mm.



Base position for the S5 stem and handlebar matches that of the 2022 S5, and also that of the 2018 S5 with a 6" stem and a 5mm bearing cover.



0mm stack
No Stem Spacers

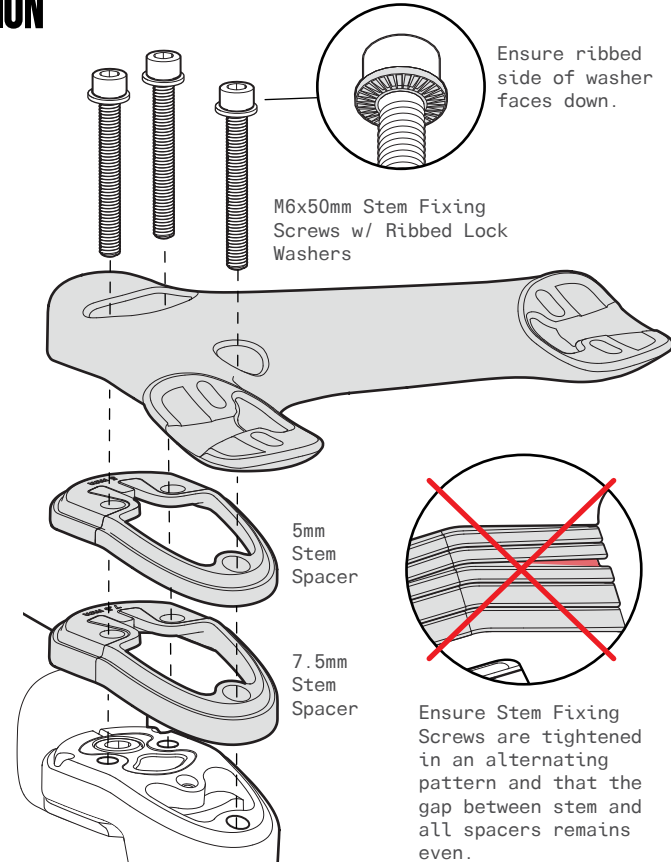


30mm stack
Stem Spacers (7.5mm x2, 5mm x3)

STEM INSTALLATION

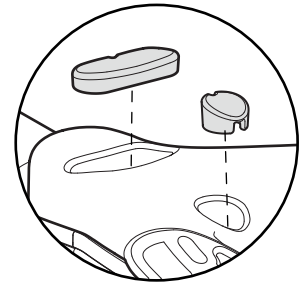
1. Lightly grease M6 fixing screws, bottom surface of stem and top edge surfaces of the required Stem Spacers.
2. Assemble the washers on the M6 fixing screws with ribbed side down, and tighten the fixing screws, alternating repeatedly, until they eventually torque to 8Nm.
3. Initially there might be a gap between the bar and spacers and/or the bar and fork. Once tightened properly the gap will disappear.
4. Rotate fork to expose fork fixing screw and re-tighten to 4Nm.

NOTE: This diagram is for assembly reference only. During complete assembly, hoses and control cables will be present.



⚠ WARNING

To ensure rider safety, it is critical that the supplied stem to fork fixing screws be used. Failure to do so may result in catastrophic failure of the steering mechanism, and injury to rider.



Lightly grease Front and Rear Bolt Cover and install.

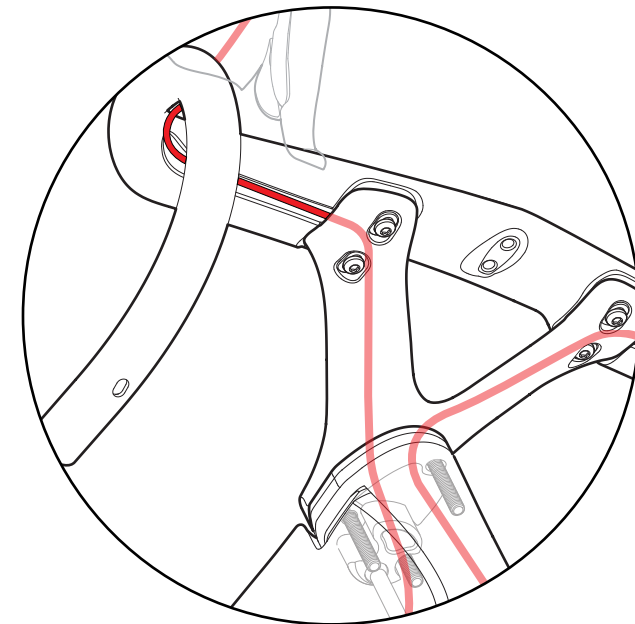
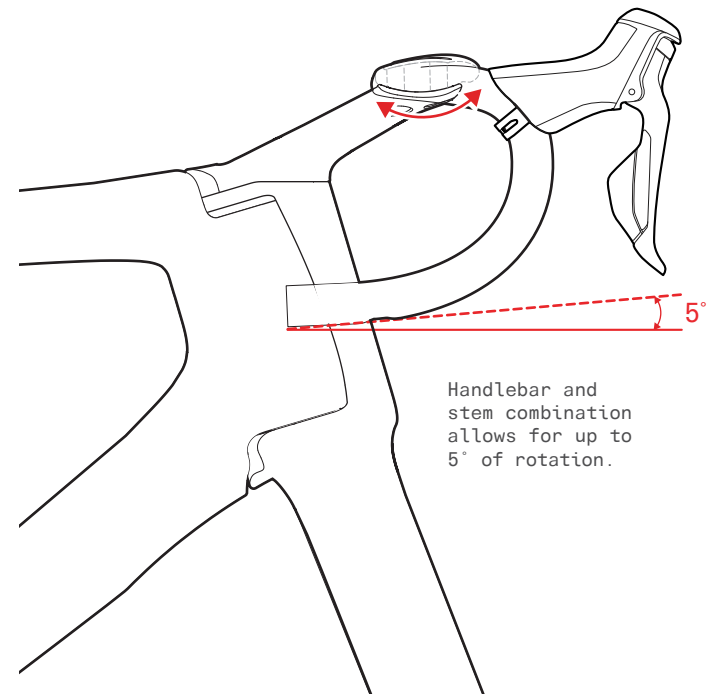
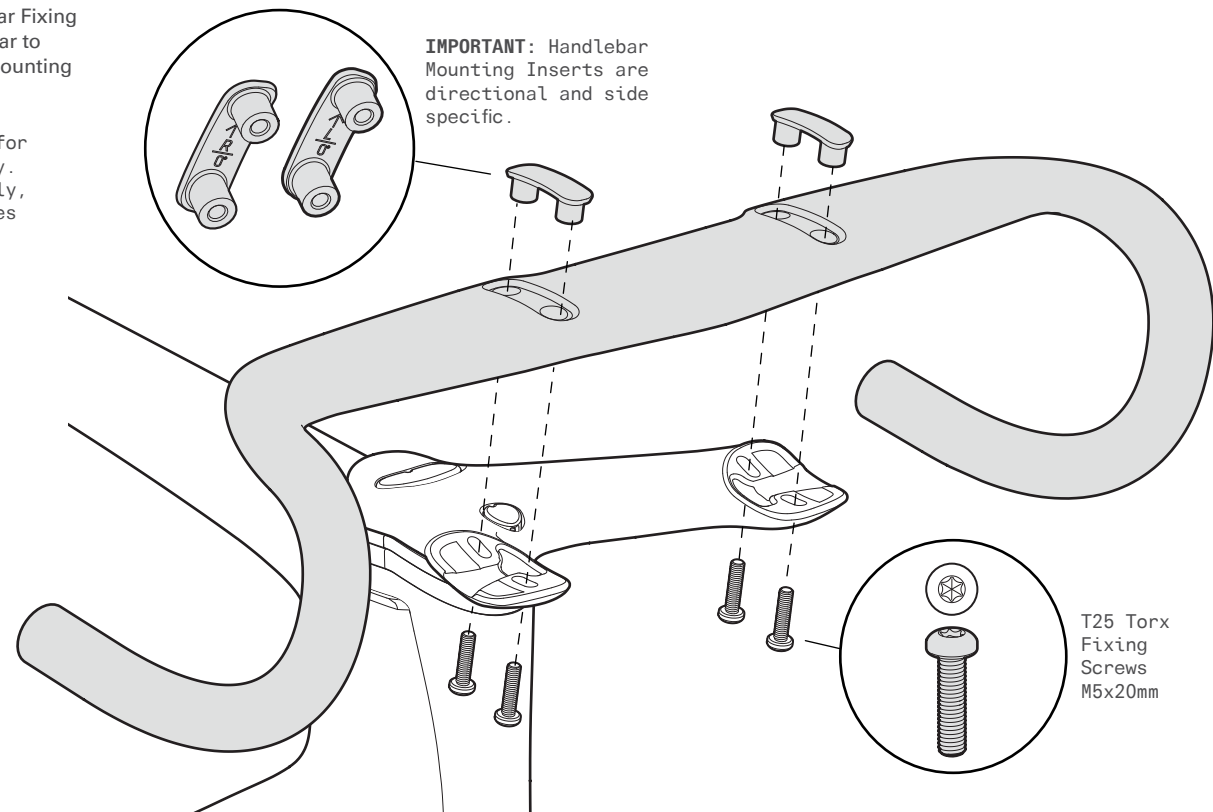
IMPORTANT: After stem and spacer installation, re-tighten fork fixing screw to 4Nm.



HANDLEBAR INSTALLATION

Lightly grease the Handlebar Fixing Screws and attach handlebar to stem with the Handlebar Mounting Inserts. Tighten to 5Nm.

NOTE: This diagram is for assembly reference only. During complete assembly, hoses and control cables will be present.



Brake hoses run through the arms of the C035 stem and in the channels on the underside of the HB14 handlebar.

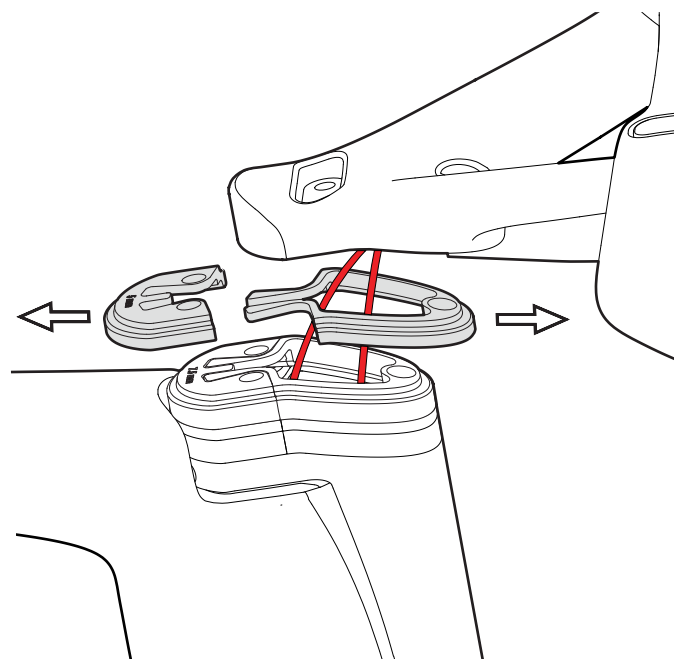
BEFORE FINAL FITTING

- While the two-piece Stem Spacers allow for addition/removal without re-cabling the bike, the length of the cables used during first assembly will dictate how much adjustment is possible later on.
- After first assembly it is simpler to remove Stem Spacers (go lower) and trim the hydraulic brake hose at the brake lever as required.
- Adding spacers after first assembly (go higher) may require replacement of the hoses to get the required length.
- Whenever possible, it is best to establish the correct fit before performing final cabling of the S5.
- It is recommended to include 20mm of additional brake hose length to the amount required for the final customer fit. Doing so will permit sufficient length for disassembly and service purposes.

Here are a few tricks that we have learned along the way that may help with reinstallation:

Before reinstalling the stem with no spacers:

- Loosen the handlebar fixing screws a few turns.
- In order to avoid pinching the rear brake hose during reinstallation of the stem, simply remove the rear brake caliper from the frame and draw the extra hose length out, by gently pulling the caliper toward the rear of the bike.
- Carefully reinstall the stem by feeding the extra hose into the frame, and tighten the stem fixing screws (alternating between the three) to 8Nm.
- Reinstall the rear brake caliper by pushing the extra hose into the frame.
- Ensure the hoses are located in the appropriate slot in the bar, and tighten the handlebar fixing bolts to 5Nm.

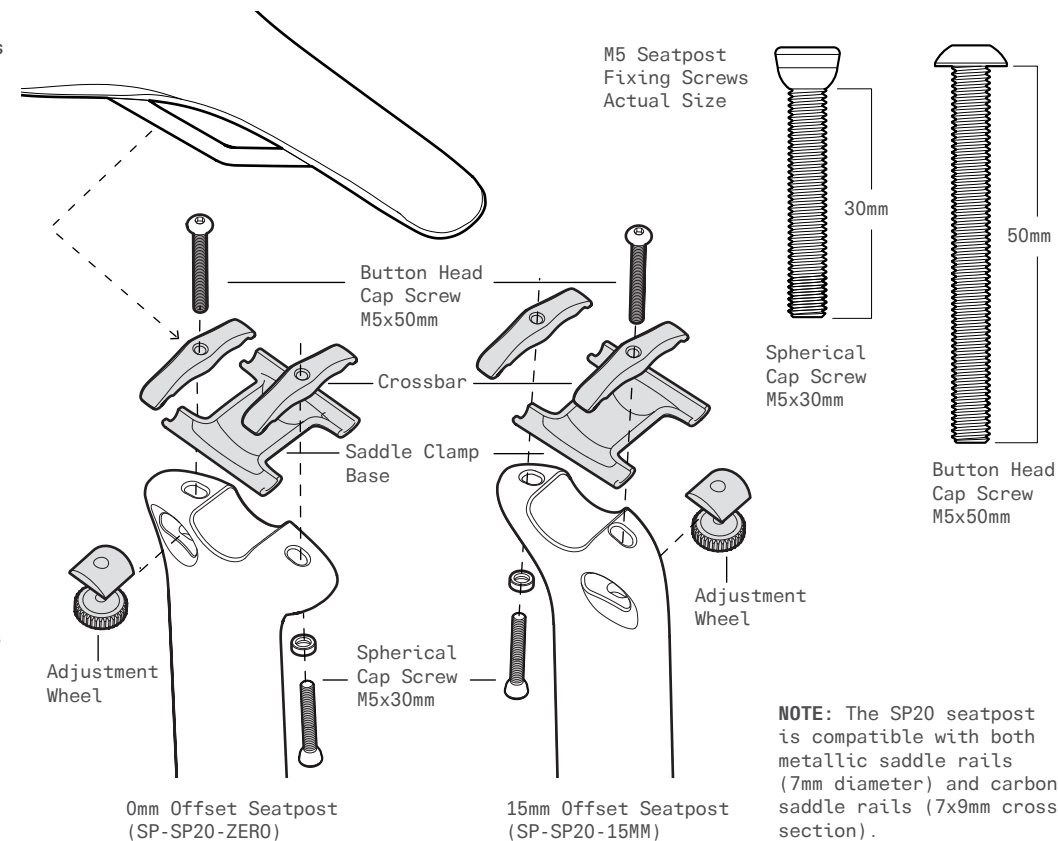


⚠ WARNING

Do not attempt to force hydraulic brake hose that will not slide smoothly into the frame through the fork/head tube. This may result in the cables becoming kinked or cracked, and cause a fluid leak which can result in a loss of brake function and a risk of serious injury.

SEATPOST ASSEMBLY

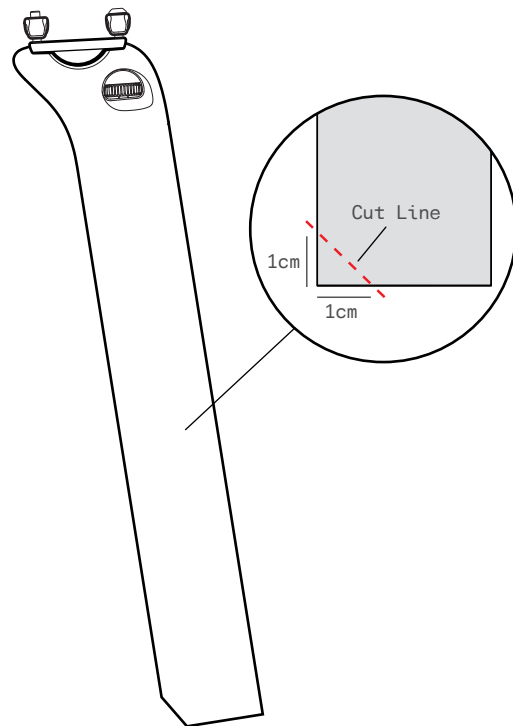
1. Ensure Loctite 242 is applied to threads below the head of the 50mm button head cap screw. Install crossbar on 50mm button head cap screw and tighten together.
2. Install the curved washer and adjustment dial in the seatpost cutout.
3. Install the button head cap screw with crossbar installed, and turn the dial until threads are engaged.
4. Install the spherical washer on the 30mm spherical cap screw, so that the concave face, mates with the convex surface of the screw.
5. Ensure Loctite 242 is applied to the lower threads of the 30mm spherical cap screw.
6. Install cross bar.
7. Apply light coat of carbon assembly compound to the radius on the upper face of the seatpost.
8. Install the lower saddle clamp base, as per the diagram.
9. Locate saddle rails between upper and lower clamping surfaces.
10. Establish desired saddle angle by first using adjustment wheel.
11. Tighten opposing angle adjusting screw to secure saddle at 8-9Nm.



SEATPOST CUTTING INSTRUCTIONS

Note: It is essential that all Cervélo Aero Seatposts have a 45 degree chamfer cut on the rear trailing edge of the post. If trimming is required after fitting, the following method is recommended.

1. Taking care to maintain the minimum required seatpost insertion of 6.5cm and maximum of 8.5cm, carefully measure and use a light coloured grease pencil to accurately mark the cut-off location on the seatpost.
2. Insert the SP20 seatpost in the ParkTool SG-7.2 Saw Guide (or equivalent) so that the cut-off line can be seen clearly through the blade guide in the tool.
3. Using a blade designed specifically for cutting carbon composite materials (or a fine tooth blade with greater than 32 teeth per inch); proceed with cutting the Seatpost (as per ParkTool's instructions).
4. Use fine grit sandpaper to carefully remove any fraying or burring from the cut end. Reposition clamp approximately 10cm from the cut end.
5. With a grease pencil, mark a point 1cm from the cut end on the trailing edge of the Seatpost, and another 1cm from the back, on the bottom edge. Draw a line connecting them, forming a 45 degree guideline.
6. Placing the blade of your saw on the grease pencil mark, very carefully proceed to cut, resulting in a 45 degree chamfer being cut onto the trailing edge of the Seatpost.
7. Carefully sand the end and after applying carbon assembly compound, return to the frame.

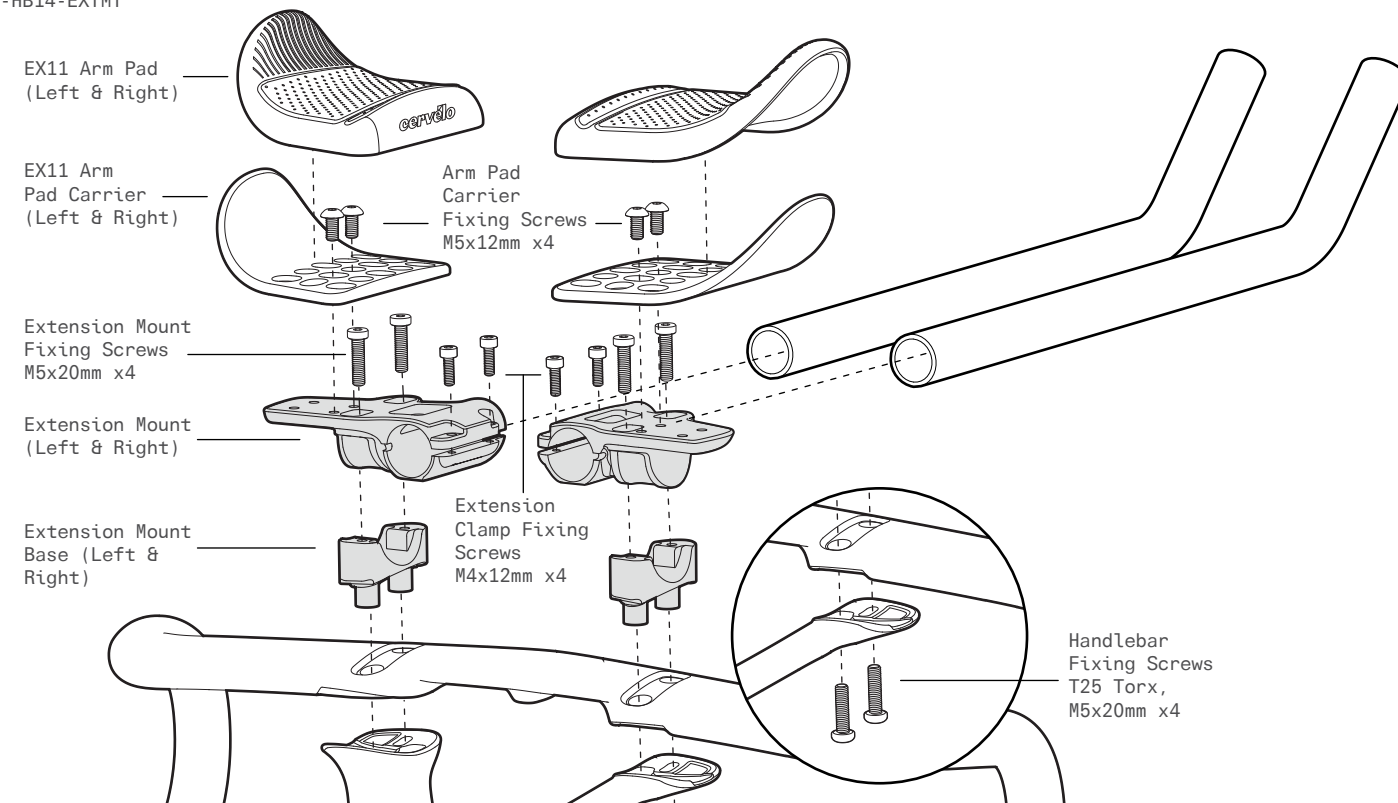


⚠ WARNING

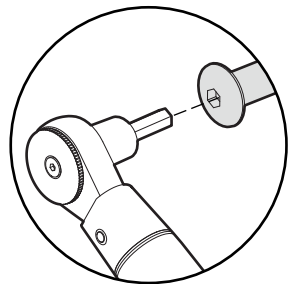
If trimming is required, final length should allow for a minimum 6.5cm of seatpost remaining in the frame. Failure to meet this requirement, may result in damage to the frame not covered by warranty policy, or serious injury to rider.

COMPATIBLE PARTS - HB14 TRI EXTENSION MOUNT ASSEMBLY

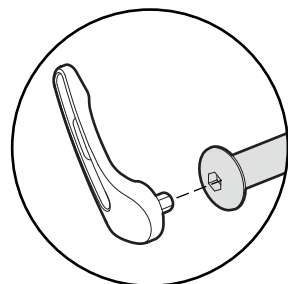
HBP-HB14-EXTMT



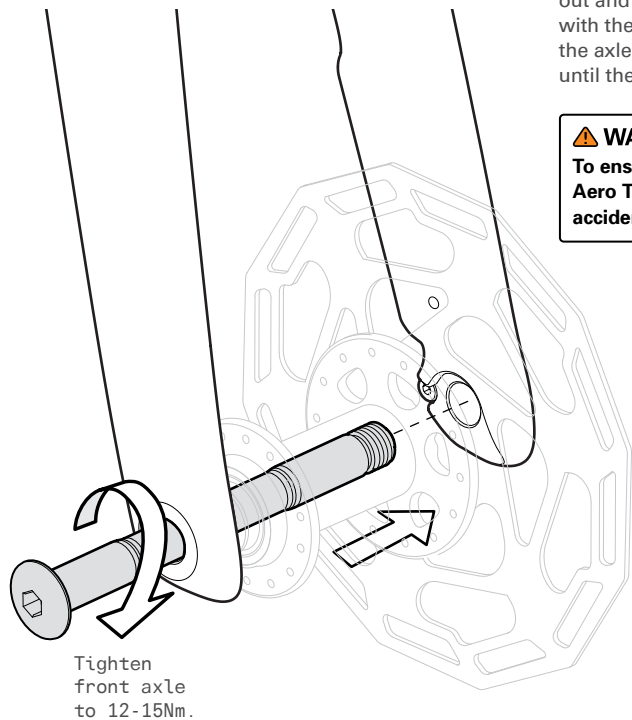
AERO THRU-AXLE INSTALLATION



6mm Allen key / torque wrench
or



Cervélo Aero Thru-Axle with Removable Handle (QRA-AER02-F & QRA-AER02-R)

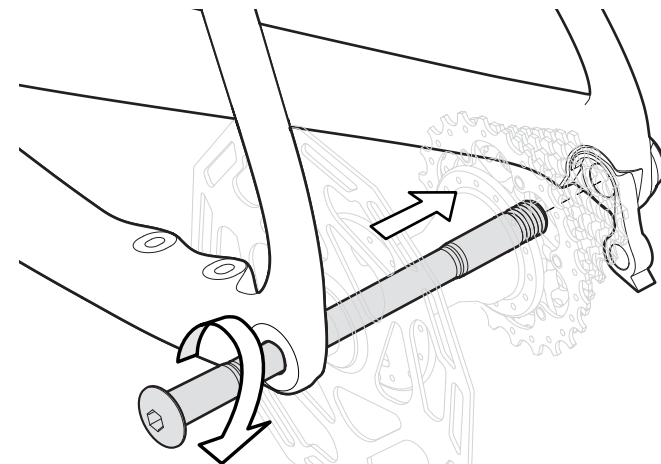
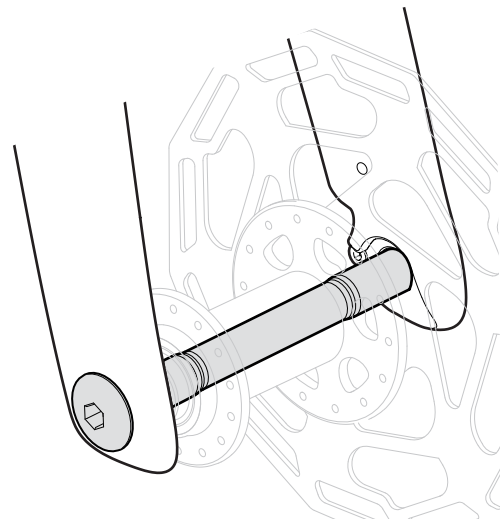


Tighten front axle to 12-15Nm.

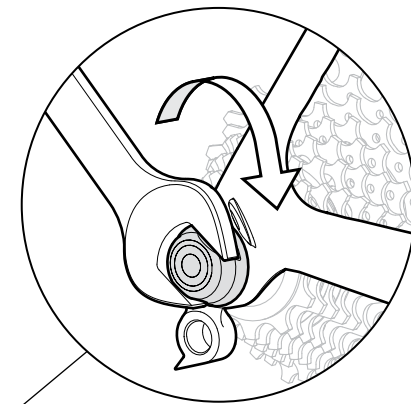
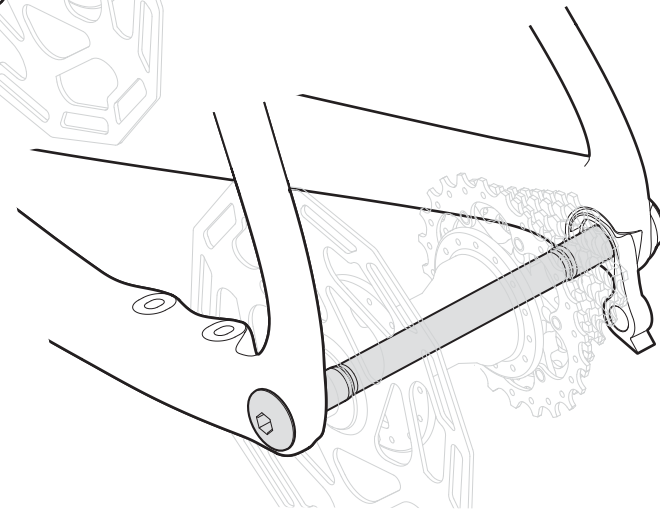
To secure wheels, install the greased axle, through the drop out and the wheel hub, aligning the threaded end of the axle with the threaded insert. Once aligned and engaged, thread the axle (clock-wise) into the threaded component of the insert until the axle is secured tightly.

⚠ WARNING

To ensure rider safety, it is critical to install the Cervélo Aero Thru-Axle correctly. Failure to do so may result in an accident with potential for serious injury to the rider.



Tighten rear axle to 12-15Nm.



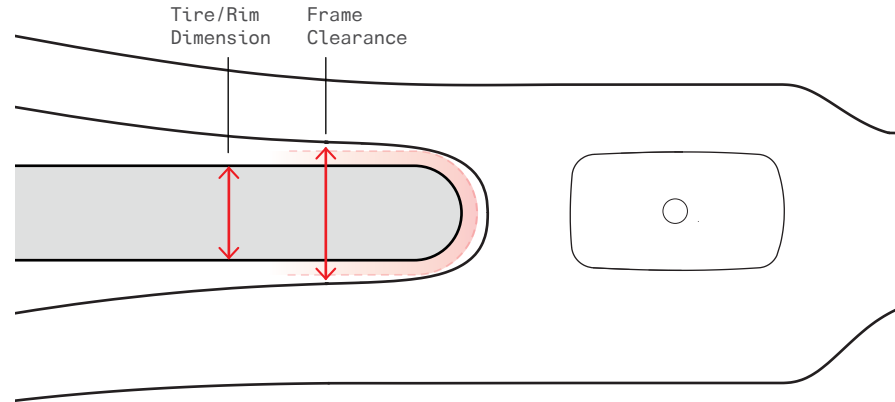
Perform final tightening on Rear Derailleur Hanger Nut using a 17mm wrench. Torque to 12-15Nm. This action is unique to initial assembly, and should not require additional adjustment.

⚠ WARNING

Adjust brakes as per manufacturer's instructions.

TIRE/RIM CLEARANCE

Your Cervélo bicycle complies with the ISO 4210-2:4.10.2 standard for tire clearance. In order to comply with these safety standards and maintain your Limited Lifetime Warranty, a minimum of 4mm of clearance must remain between the tire and any frame element. Due to the growing complexity of tire and rim interfaces, Cervélo recommends identifying the available space before choosing a tire.



1. Measure the space between the chainstays at the bottom bracket junction.
2. Measure the space between the seatstays at the top of the tire.
3. Using the smaller of those two numbers (Frame Clearance), subtract 8mm (4mm per side) to determine the maximum Allowable Tire/Rim Dimension.
4. With the tire installed and fully inflated on your wheel, measure the greater of the rim or tire width and ensure it is less than the calculated Allowable Tire/Rim Dimension width to ensure that it fits.

⚠ WARNING
Contact between the tire or rim and the frame or fork may result in a loss of control while riding and potentially serious injury. Failure to follow these guidelines may result in damage to the frame not covered by Cervélo Limited Lifetime Warranty.

INTENDED USE OF THE S5 BICYCLE

⚠ WARNING
Understand your bike and its intended use. Choosing the wrong bicycle for your purpose can be hazardous. Using your bike the wrong way is dangerous.

No one type of bicycle is suited for all purposes. Your retailer can help you pick the “right tool for the job” and help you understand its limitations. There are many types of bicycles and many variations within each type. There are many types of mountain, road, racing, hybrid, touring, cyclocross and tandem bicycles. There are also bicycles that mix features. For example, there are road/racing bikes with triple cranks. These bikes have the low gearing of a touring bike, the quick handling of a racing bike, but are not well suited for carrying heavy loads on a tour. For that purpose you want a touring bike.

Within each of type of bicycle, one can optimize for certain purposes. Visit your bicycle shop and find someone with expertise in the area that interests you. Do your own homework. Seemingly small changes such as the choice of tires can improve or diminish the performance of a bicycle for a certain purpose.

NOTE: Usage conditions are generalized and evolving. Consult your retailer or Cervélo Customer Service about how you intend to use your bike.

NOTE: Cervélo bicycles are tested to a maximum combined bicycle/rider/luggage weight of 100kg. Components have different weight limits, and if replaced can alter the maximum safe bike weight limit. Consult your retailer or Cervélo Customer Service about what components are appropriate for your bicycle.

Maximum Weight Limit - Cervélo S5

Rider	194 lbs	88 kg
Gear*	11 lbs	5 kg
Total	220.5 lbs	100 kg

*Seat bag / water bottles / bento bag / handlebar bottle / storage mounts only

High-Performance Road - Condition 1

Bikes designed for riding on a paved surface where the tires do not lose ground contact.

Intended To be ridden on paved roads only.

Not Intended For off-road, cyclocross, touring with racks or panniers, or mounting child seats or trailers.

Trade-Off Material use is optimized to deliver both light weight and specific performance. You must understand that (1) these types of bikes are intended to give an aggressive racer or competitive cyclist a performance advantage over a relatively short product life, (2) a less aggressive rider will enjoy longer frame life, (3) you are choosing light weight (shorter frame life) over more frame weight and a longer frame life, (4) you are choosing light weight over more dent resistant or rugged frames that weigh more. All frames that are very light need frequent inspection. These frames are likely to be damaged or broken in a crash. They are not designed to take abuse or be a rugged workhorse.

S5 TORQUE SPECIFICATIONS

Correct tightening torque of threaded fasteners is crucial to your safety. Always tighten fasteners to the correct torque. In case of a conflict between the instructions in this manual and those provided by a component manufacturer, consult with your retailer or with Cervélo Customer Service for clarification. Fasteners that are too tight can stretch and deform. Fasteners that are too loose can move and fatigue. Either mistake can lead to a sudden failure of the fastener.

Use only a correctly calibrated torque wrench to tighten critical fasteners on your bike. Carefully follow the torque wrench manufacturer's instructions on how to set and use the tool for accurate results. Ensure you read all relevant documentation and have the correct tools prior to attempting any adjustments yourself.

Component	Torque (Nm)	Notes
Frame		
Bottom bracket- Press-fit thread together	35 to 50 Nm	Clean & grease the inside of the BB shell in the frame. Grease the outside of the BB cups. Using a BB Press tool, press the non-drive side (NDS) cup into the NDS side of the frame until flush. Fit the drive side (DS) BB cup into the drive side of the frame and press in by hand until it contacts the NDS cup. Using a torque wrench and the appropriate adaptor, tighten the DS cup of the BB until it is flush to the frame.
Bottom bracket- Press-fit		Clean & grease the inside of the BB shell in the frame. Grease the outside of the BB cups. Using a BB Press tool, press the non-drive side (NDS) cup into the NDS side of the frame until flush. Repeat for the drive side (DS)
Rear derailleur fixing nut (disc brake)	12 to 15 Nm	Finger tight prior to rear wheel installation, final torque to approximate torque using open ended wrench.
Removable FDM / FDM Blanking Plate	3 Nm	Lightly grease the fixing screws.
Di2 internal battery mount	2.5 Nm	Apply Loctite 242 to fixing screws.

It is recommended that you permit your retailer to perform the following adjustments, as they have the proper tools and experience to ensure it is done correctly.

Prior to assembling and tightening any bolts, all threads must be generously greased with a quality, non-lithium type grease unless the bolt is pre-coated with Loctite® thread locker. All bolts should have either grease or Loctite - but never both. Torque wrenches with scale appropriate for the particular torque setting are strongly recommended for tightening all threaded fasteners.

Cervélo strongly recommends the use of carbon assembly compound/friction paste for all areas of clamping to carbon fiber, such as the seatpost

to frame, the stem to fork, and the handlebar to stem joints. Benefits to using this paste include reduced corrosion potential, and a decrease in required clamping force needed to support a given load. The paste should be evenly spread on the carbon surface under the clamped area, and the applicable bolt tightened as per the following recommendations.

WARNING: In case of a disagreement or a conflict between the following list and any supplier literature on recommended torque values for original equipment components, please contact Cervélo Customer Support for review and clarification of the required torque prior to installation.

Component	Torque (Nm)	Notes
Water bottle cage bolts	2 to 3 Nm	Lightly grease the fixing screws.
Fork		
Upper bearing gap spacer	1 Nm	Thread fixing screws into Gap spacer on fork separate from the bike until the spacer is flush to the fork upper. Remove the spacer until assembly. For assembly turn the fork 90 degrees & slide the gap spacer between the fork upper & frame. Tighten the fixing screws until the spacer is flush to the fork upper.
Tension rod / Preload cone to fork (1 bolt)	2 Nm	Apply grease to the preload cone & threaded end of the tension rod
Fork preload fixing screw	4 Nm	After Stem bolts are tightened, re-tighten the Preload fixing screw to recommended torque.
Fork dropout insert	3 Nm	Lightly grease screw, install finger tight on NDS fork dropout. Install the axle (no wheel), and tighten until the axle flange meets the fork dropout- then tighten the fixing screw to recommended torque. Remove the axle, install the axle & wheel to recommended torque, then remove. Re-torque the fixing screw to recommended torque
Stem		
Stem to carbon fork (3 bolts)	8 Nm	Apply grease to the M6 stem fixing screws, and tighten while alternating repeatedly to recommended torque.
Stem to carbon handlebar (4 Torx bolts)	5 Nm	Lightly grease the handlebar fixing screws and evenly & alternately tighten to recommended torque.
Handlebar		
Brake/shift levers (to handlebar)	6 to 8 Nm	Refer to manufacturer's instructions for installation of brake/shift levers.
Two bolt accessory mount- front	2 Nm	Lightly grease the fixing bolts.
Seatpost Clamp (frame to seatpost)		
Wedge clamp – Rounded front	8 Nm	Use carbon assembly compound between the seatpost and the frame.
Saddle (seatpost head bolts) – SP20 Aero Carbon		
2 bolt head	8 to 9 Nm	Ensure Loctite 242 is used on both bolts (1 is pre-applied).
Wheels		
Cervélo aero thru-axle / Cervélo aero thru-axle with removable handle	12 to 15 Nm	Requires the use of a 6mm allen key type wrench or Removable handle.
Other		
Pedals	30 to 35 Nm	Refer to manufacturer's instructions.

CERVÉLO CUSTOMER SUPPORT

Contacting Customer Support

Visit www.cervelo.com/contact-us to submit a question to Cervélo.

Product Registration

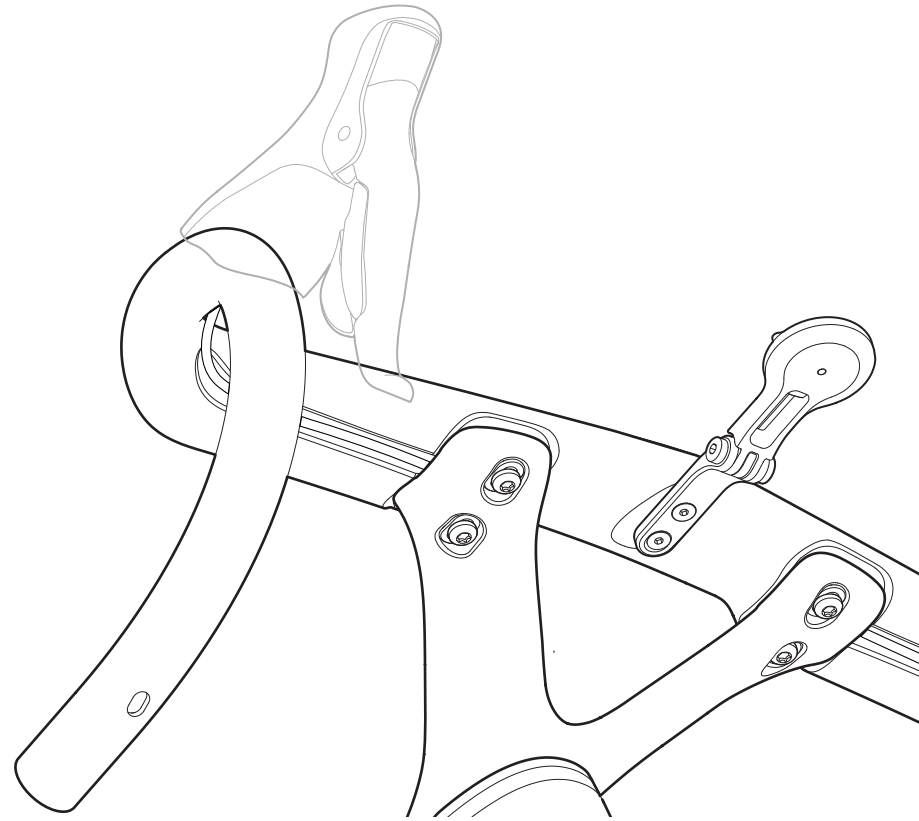
Visit www.cervelo.com/support to register your Cervélo bicycle through your MyCervélo account.

Manuals

Visit www.cervelo.com/product-manuals for additional information on Cervélo products.

Warranty

Visit www.cervelo.com/warranty for information on Cervélo's warranty policy.



NOTES

2023 S5 RETAILER ASSEMBLY MANUAL

CER-S5F-V1 - 2021-12-22

www.cervelo.com

cervelo