

**velo**


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# IMPORTANT INFORMATION


This manual is intended to guide official Cervélo retailers through the assembly and adjustment of the Cervélo Caledonia-5. This manual outlines the process and procedure associated with the installation of Cervélo components, as well as the routing of shifting and braking control lines only. Proprietary parts referenced in this manual are available only through Cervélo or its authorized distributors.

Failure to use the specified parts and follow these assembly instructions may result in loss of control while riding, leading to serious injury. This manual is not intended to replace the assembly and service instruction provided by third-party component manufactures, and assumes that the assembler is a trained, professional bicycle mechanic. See <https://www.probma.org/>.

**WARNING**  
**This product contains one or more button cell or coin batteries.**  
**INGESTION HAZARD: DEATH or serious injury can occur if ingested.**

- **A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours.**
- **KEEP new and used batteries OUT OF REACH OF CHILDREN.**
- **Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.**



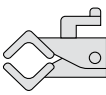
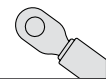
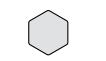


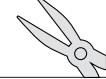
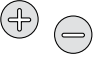

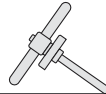
**WARNING**  
**This product contains chemicals known to the State of California to cause Cancer, Birth Defects, or Other Reproductive Harm.**

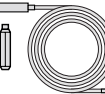

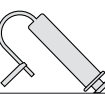
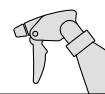
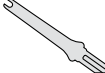

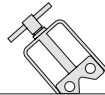
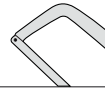
# LIST OF TOOLS AND SUPPLIES

This manual outlines a number of procedures for making adjustments to the Caledonia-5 bicycle. The following tools and parts listed are required for these adjustments. Cervélo strongly recommends that all assembly and adjustment procedures be performed by an authorized Cervélo retailer.

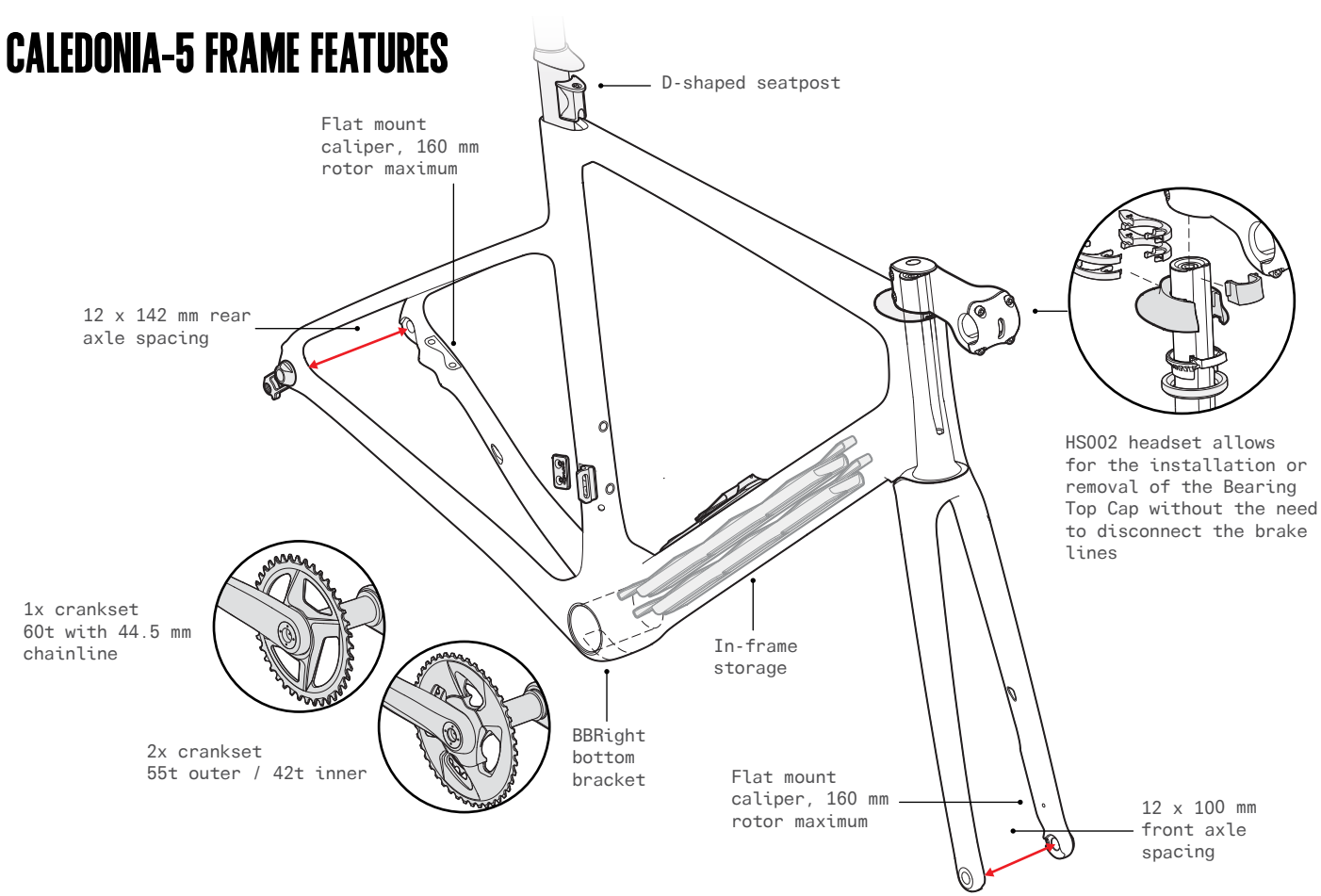
**NOTE:** All non-proprietary components such as those from Shimano or SRAM are available from your local distributor.

**NOTE:** This manual was developed to compliment the Cervélo Bicycle 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 professional stand with fork mount)
	Torque wrench(es) with 2.5 N·m to 15 N·m and / or 10 N·m to 60 N·m range and adaptors:
	Allen (Hex) head inserts: 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm
	Open ended wrenches: 7 mm, 8 mm, 10 mm, 17 mm
	Cable cutters
	Pliers
	Phillips-head and slot-head screwdrivers
	Pedal wrench
	Bottom bracket / bearing press

Tools	
	Internal cable routing tool
	Brake rotor / bottom bracket lockring tools
	Hydraulic brake bleed kit
	Isopropyl alcohol
	Di2 wire tool – Shimano
	Quality bicycle grease (ParkTool HPG-1 or equivalent) and carbon assembly compound (Dynamic Assembly Compound Carbon or equivalent)
	Saw cutting guide (ParkTool SG-7.2 or equivalent)
	Hacksaw (with carbon and aluminum specific blades)

CALEDONIA-5 FRAME FEATURES



CALEDONIA-5 PARTS LIST

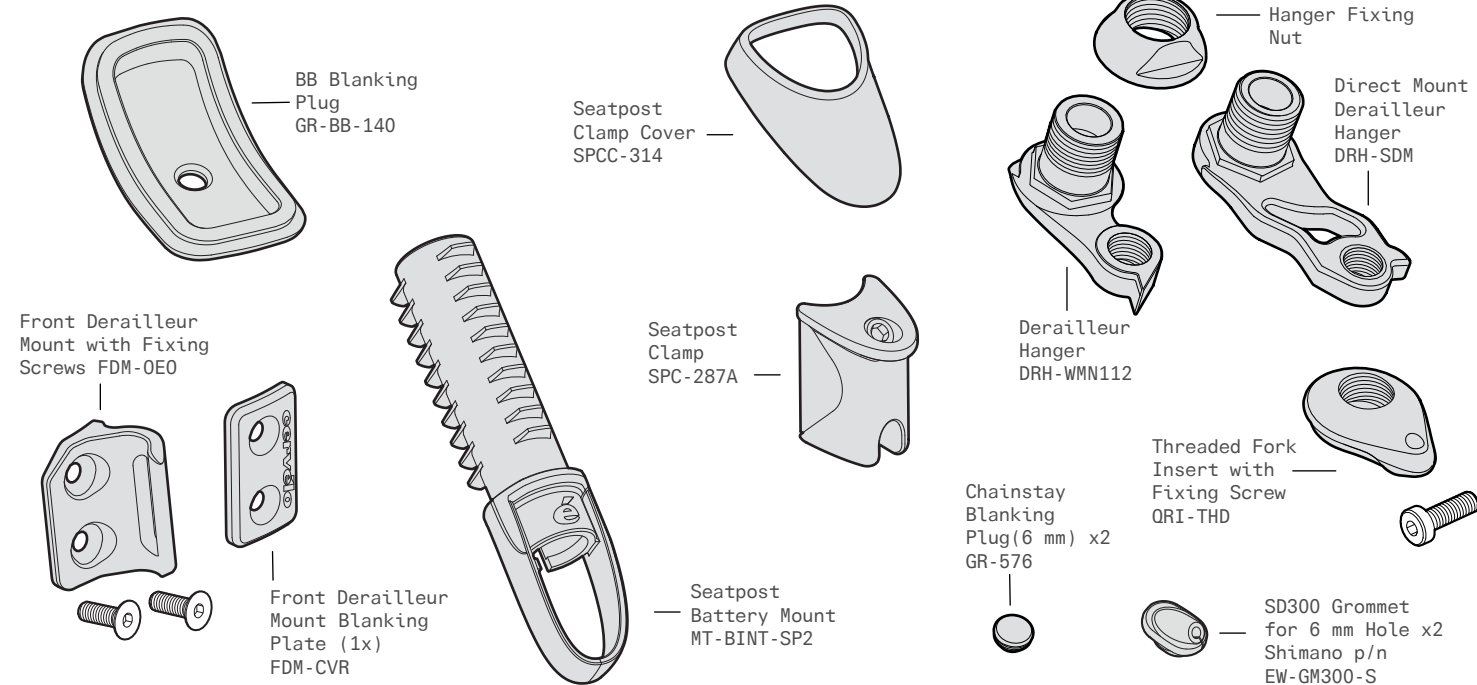
Item Description	Cervélo Part No.
D-Shaped Fork Compression Plug	FKI-CL005-517A
HS002 Headset Split Ring	SR-466
HS002 Headset Bearing Top Cap Plug	PL-807
HS002 Headset Bearing Top Cap Kit (22 mm and 7 mm)	BC-808
HS002 Headset Bearing Micro Shim x 3	HS-865
Headset Bearing 1-1/4" 45° x 45°	HS-082
Headset Bearing 1-1/2" 36° x 45°	HS-110
Cervélo Front Aero Thru-Axle with Removable Handle	QRA-AERO2-F
Removable Handle For Cervélo Aero Thru-Axle	QRA-AERO2-HNDL
Cervélo Rear Aero Thru-Axle with Removable Handle	QRA-AERO2-R

Item Description	Cervélo Part No.
SB05A Down Tube Storage Door with Pull Tab	SB-SB05-DR-V2
SB05 In-Frame Storage Rolls	SB-SB05-BG
BB Blanking Plug R5	GR-BB-140
BB Cable Guide/Cover	BBG-0E0
6 mm Blanking Plug	GR-576
Shimano SD300 Grommet for 6 mm Hole	EW-GM300-S
Front Derailleur Mount with Fixing Screws	FDM-0E0
Front Derailleur Mount Blanking Plate	FDM-CVR
Threaded Fork Insert with Fixing Screw	QRI-THD
Rear Derailleur Hanger with Fixing Nut	DRH-WMN112
Shimano Direct Mount RDH with Fixing Nut	DRH-SDM

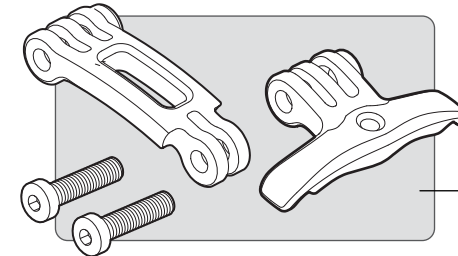
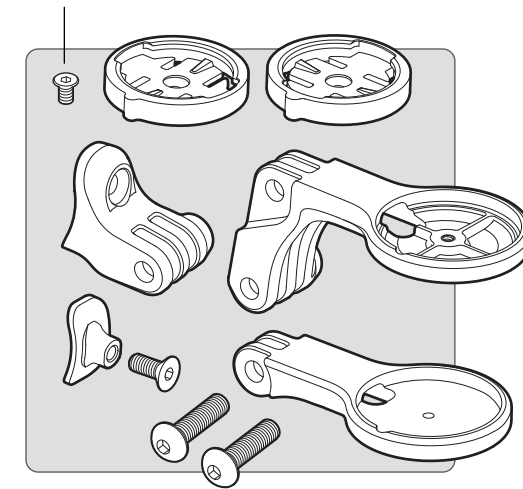
Item Description	Cervélo Part No.
Seat Post Clamp Cover	SPCC-314
Seat Post Clamp Assembly	SPC-287A
ST31 Stem	see page 9
ST32 Stem	see page 9
ST31 / ST32 Stem Spacer Kit	SK-032
Accessory Mount Kit Front 810	MT-LM-F-810
Accessory Mount Kit Rear	MT-LM-R-003
SP24 Carbon Seatpost with Head	SP-SP24-ZERO-B SP-SP24-15MM-B
Seatpost Battery Mount	MT-BINT-SP2
Fender Mount Assembly 844A	MTA-844A
Chainstay Protector	PRO-CS-ASP

## SMALL PARTS

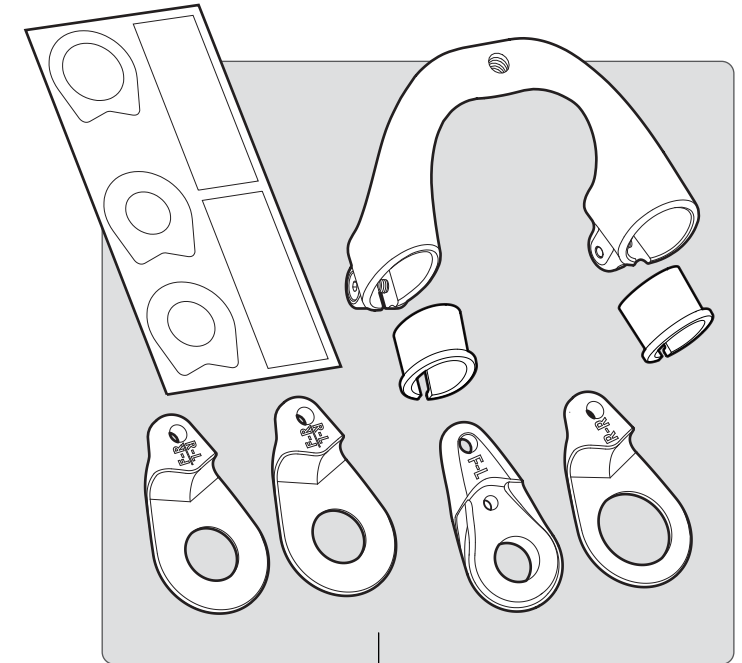
Designed to accommodate electronic and hydraulic controls, the Caledonia-5 frame is engineered to provide seamless integration of all shifting systems, regardless of method or brand. In order to do so, you will require the parts shown below. Depending on the groupset fitted to the bicycle, not all parts will be used.



Accessory Mount Kit Front 810  
MT-LM-F-810

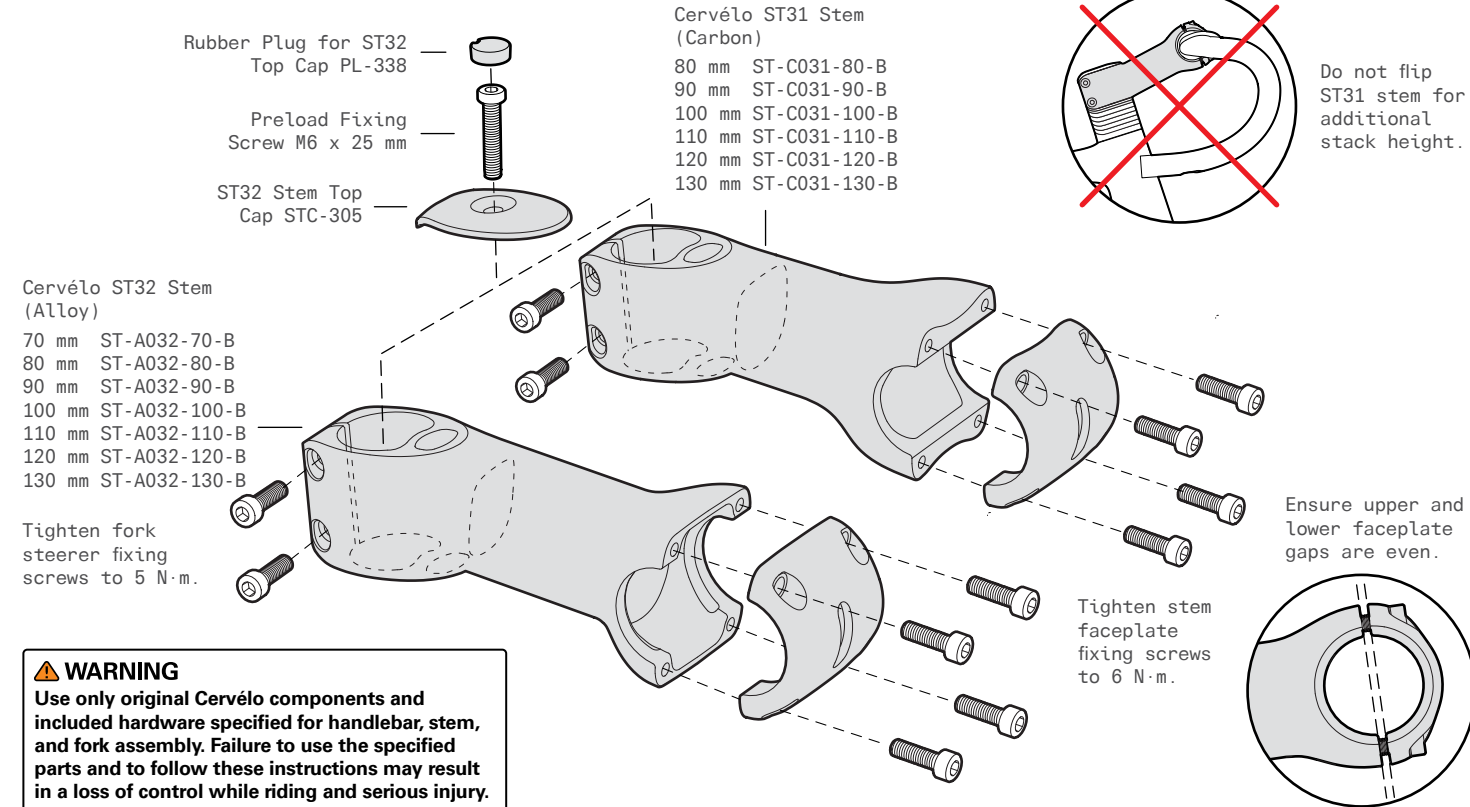


Accessory Mount Kit Rear  
MT-LM-R-003



Fender Mount Assembly 844A  
(MTA-844A)

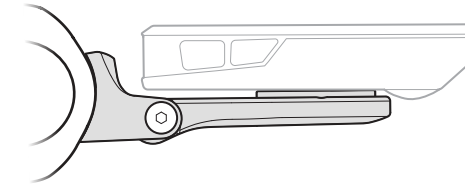
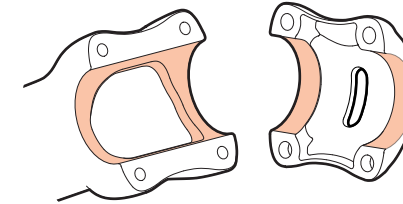
# ST31 AND ST32 STEMS



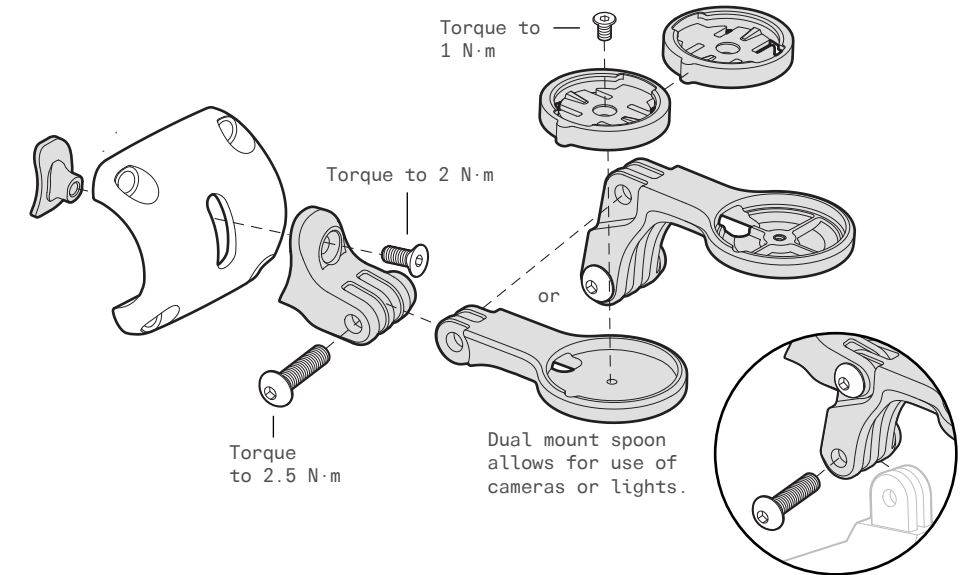
## Installation of ST31 Stem and Carbon Handlebars

1. Coat the surfaces where the stem body and faceplate contact the handlebar clamping area (as shown below) with carbon assembly compound.
2. Center the handlebar against the stem body and secure it in place by mounting the faceplate and tightening all faceplate fixing screws finger-tight.
3. Tighten the faceplate fixing screws evenly following a star pattern until the upper and lower stem to faceplate gaps are even.
4. Perform final tightening in a star pattern using a torque wrench to 6 N·m maximum.

Carbon Assembly Compound



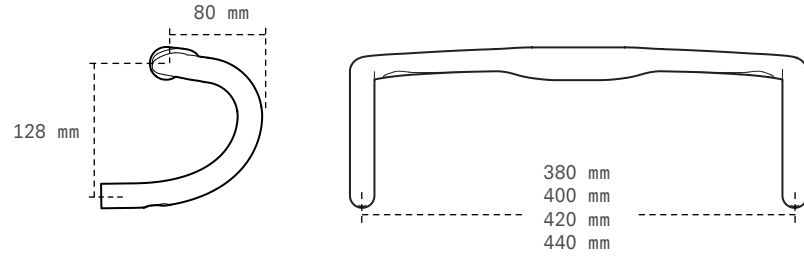
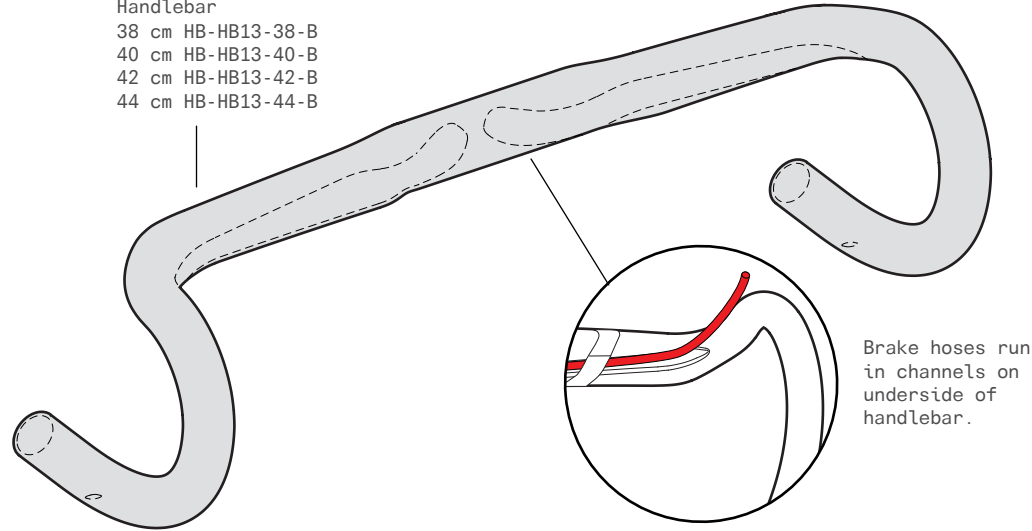
The Accessory Mount Kit Front 810 (MT-LM-F-810) allows cycling computers to sit below the top surface of the stem and includes computer mount adapters for Garmin and Wahoo computers.



## HB13 HANDLEBAR

**⚠ WARNING**  
Use only original Cervélo components and included hardware specified for handlebar, stem, and fork assembly. Failure to use the specified parts and to follow these instructions may result in a loss of control while riding and serious injury.

Cervélo HB13  
Handlebar  
38 cm HB-HB13-38-B  
40 cm HB-HB13-40-B  
42 cm HB-HB13-42-B  
44 cm HB-HB13-44-B



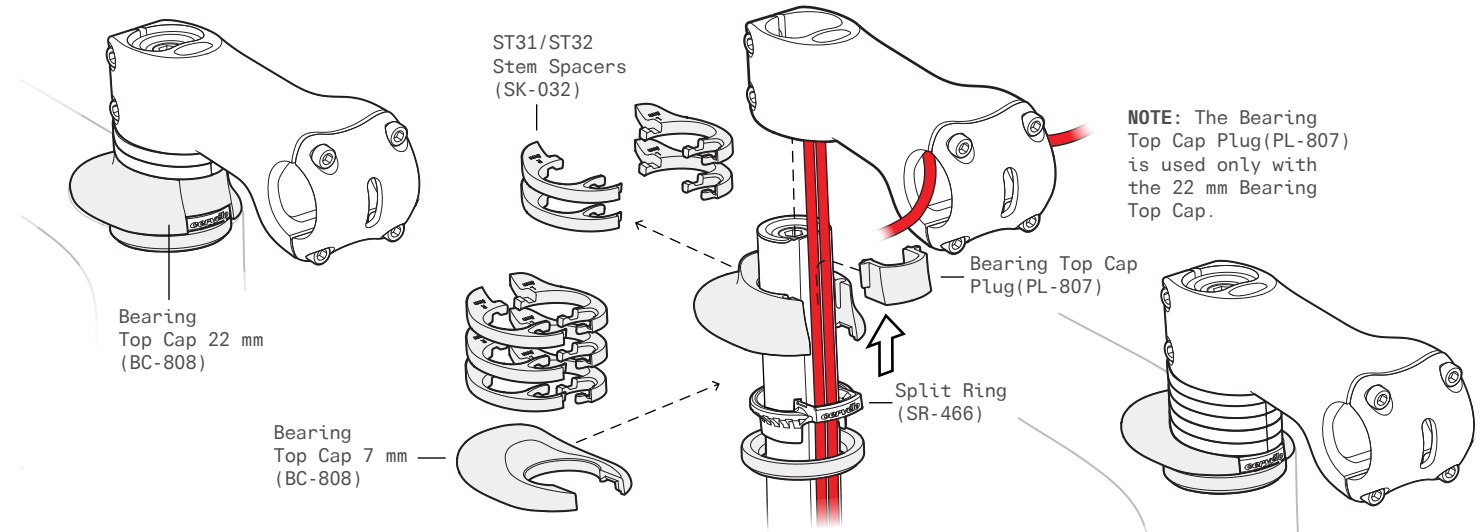
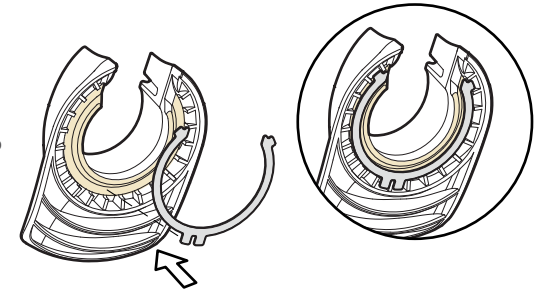
## HS002 HEADSET

The HS002 headset allows for the installation or removal of the Bearing Top Cap without the need to disconnect the brake lines.

Switching between the 22 mm and 7 mm Bearing Top Caps requires removal of the stem from the fork steerer and, to gain extra slack for the brake lines, may require temporarily uninstalling the brake calipers.

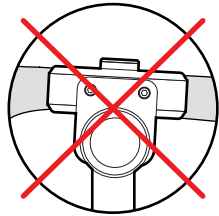
If there is contact between the Bearing Top Cap (BC-808) and the frame, apply grease to the underside of the Bearing Top Cap and install the required number of Micro Shims (HS-865).

● Grease

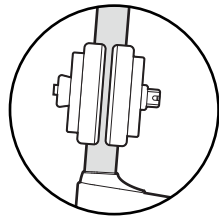




## FRAME PREPARATION

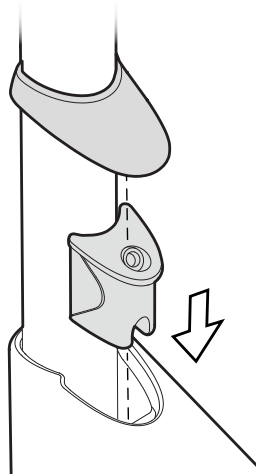


**⚠ WARNING**  
Clamping the top tube can damage the frame and void your warranty.



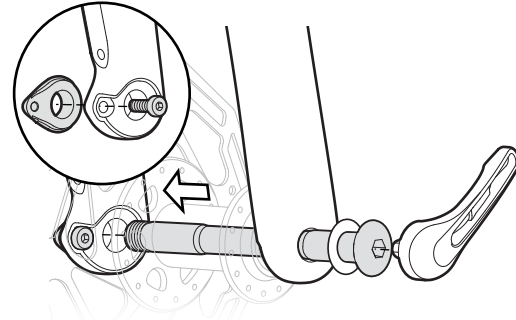
**⚠ WARNING**  
Hold the frame using a secured seatpost only.

Generously grease all internal surfaces of the Seatpost Clamp.



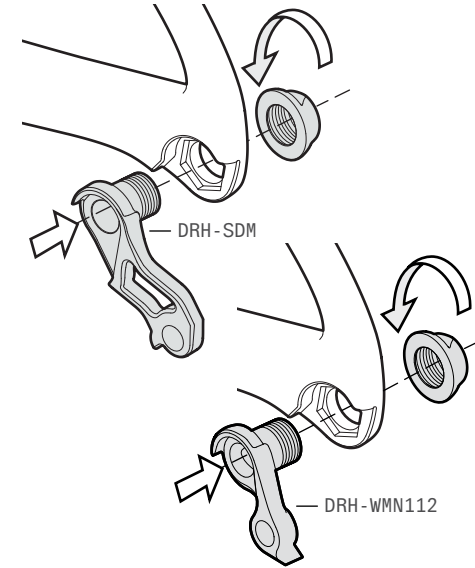
1. Slide the Seatpost Clamp Cover (SPCC-314) onto the seatpost.
2. Apply carbon paste to the frame and seatpost to be inserted into the frame.
3. Insert the seatpost and the Seatpost Clamp (SPC-287A) into the frame.
4. Adjust the seatpost to the desired height and torque the Seatpost Clamp to 8 N·m maximum.
5. Slide down the Seat Clamp Cover to fit over the Seatpost Clamp.

**⚠ WARNING**  
If trimming is required, final length should allow for a minimum of 70 mm of seatpost remaining in the frame, or the minimum insertion dimension indicated on the seatpost, whichever is greater. Failure to meet this requirement, may result in damage to the frame not covered by warranty policy, or serious injury and/or death to rider.

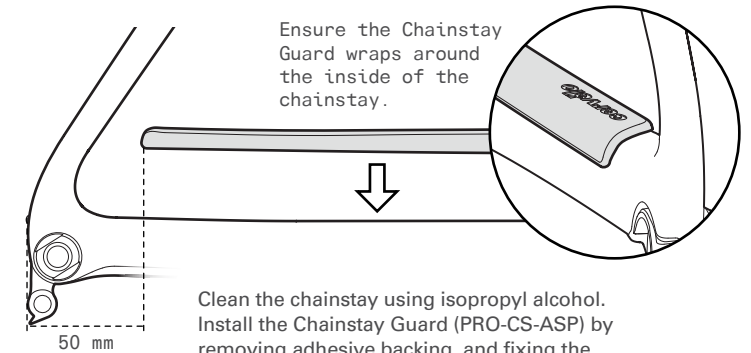


1. Lightly grease supplied M4 fixing screw. Install the Threaded Fork Insert (QRI-THD) and fixing screw, tightening only lightly.
2. Without the wheel in place, install the axle and tighten until the flange meets the fork dropout face, but does not compress the fork blades.
3. Tighten the fixing screw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

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

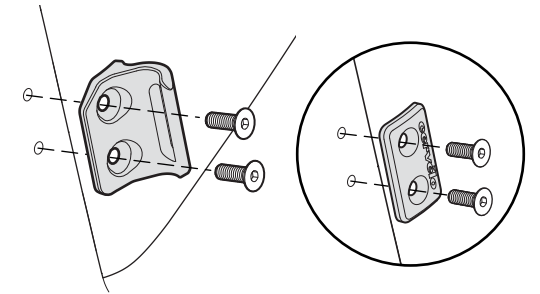


**⚠ WARNING**  
Do not apply final torque to the rear derailleur hanger assembly without rear wheel installed. Doing so may result in a misaligned derailleur and poor shifting.



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

Install Front Derailleur Mount (FDM-0E0), and ensure fixing screws are torqued to 3 N·m. For 1x systems, replace with the Front Derailleur Mount Blanking Plate (FDM-CVR).





# FORK PREPARATION AND INSTALLATION

1. Apply grease to the bearing pockets and install the upper and lower headset bearings into the frame.
2. Fit the fork provided with your frame into the head tube with the complete headset, required spacers, and the stem.
3. Apply the minimum pressure needed to ensure the assembly is fully seated. Mark the steerer tube at the top of the stem.
4. Remove fork and clearly mark the fork steerer tube at a point 4 mm below the first mark. Take care to verify that this measurement is correct as this defines the cut line for the steerer tube.
5. To trim fork steerer, use only a saw suitable for cutting carbon, and a cutting guide.
6. Insert D-Shaped Compression Plug and tighten to hold in place. Do not apply final torque until after the stem is installed.
7. Place Lower Bearing over the fork steerer and insert into the frame from the bottom of the head tube.
8. Install over the steerer in order: Upper Bearing, Split Ring, Bearing Cap, Spacers, and Stem. Do not install the Stem Top Cap.
9. Tighten the Compression Plug to 8 N-m using a torque wrench.

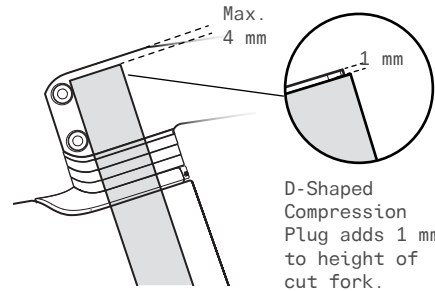
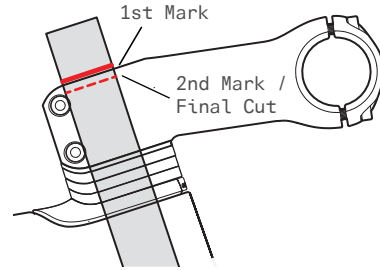
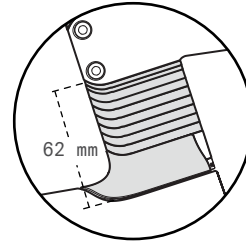
10. Install the Stem Top Cap and Preload Fixing Screw into the stem. Tighten the Preload screw only enough to remove all play from the headset, and ensure the bearings rotate freely (typically 1 to 2 N-m).

11. Tighten the stem to fork fixing screws to 5 N-m maximum.

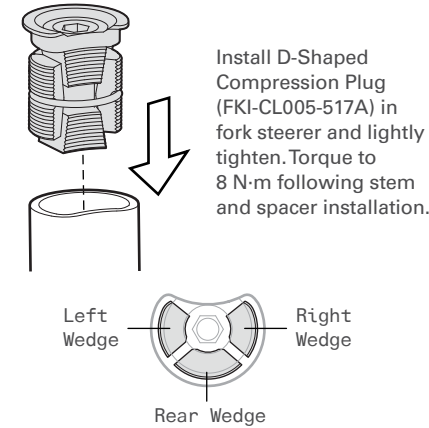
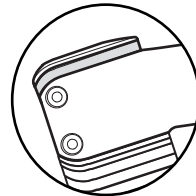
**⚠ WARNING**  
Avoid breathing the dust created during cutting carbon composite materials.

**⚠ WARNING**  
Improper cutting of the steerer tube could cause a failure that may result in severe injury or death.

**⚠ WARNING**  
Do not exceed 62 mm maximum total spacer height, including the Bearing Top Cap (40 mm Stem Spacers plus 22 mm Bearing Top Cap).

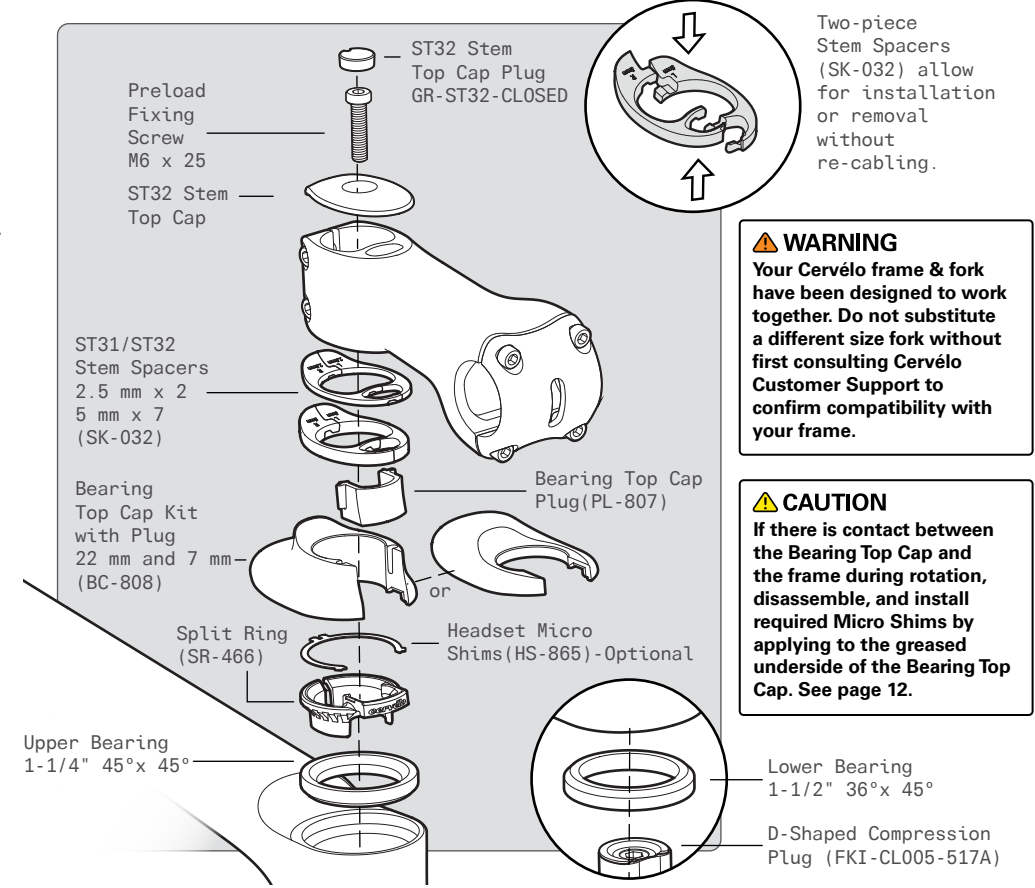


**⚠ CAUTION**  
Do not exceed 5 mm total spacers above the stem.



**⚠ CAUTION**  
The component parts of the compression plug are specific to the left and right sides of the bicycle. Re-assembling parts incorrectly may result in loss of preload in the system. Refer to the images shown for correct assembly.

**⚠ WARNING**  
Do not torque Compression Plug past the recommended 8 N-m maximum. If the Compression Plug requires tightening past 8 N-m, please contact Cervélo Customer Support.



**⚠ WARNING**  
Your Cervélo frame & fork have been designed to work together. Do not substitute a different size fork without first consulting Cervélo Customer Support to confirm compatibility with your frame.

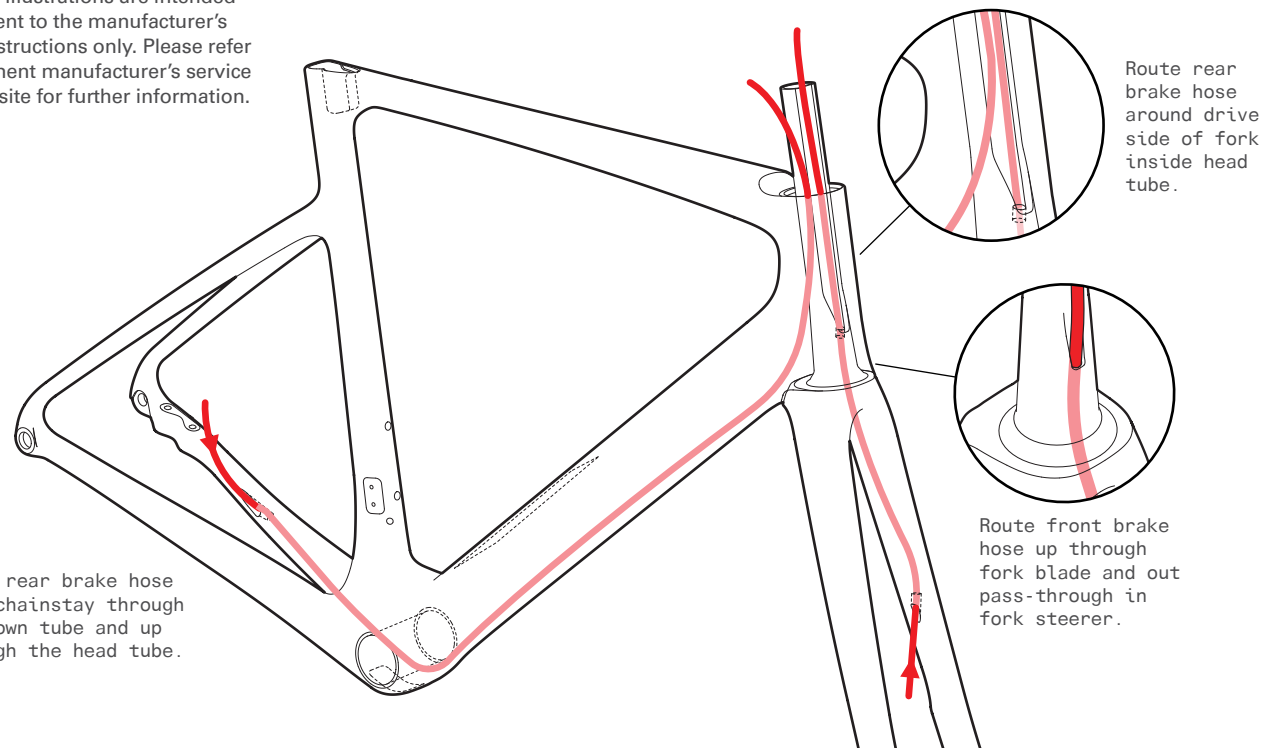
**⚠ CAUTION**  
If there is contact between the Bearing Top Cap and the frame during rotation, disassemble, and install required Micro Shims by applying to the greased underside of the Bearing Top Cap. See page 12.

## BRAKE HOSE ROUTING

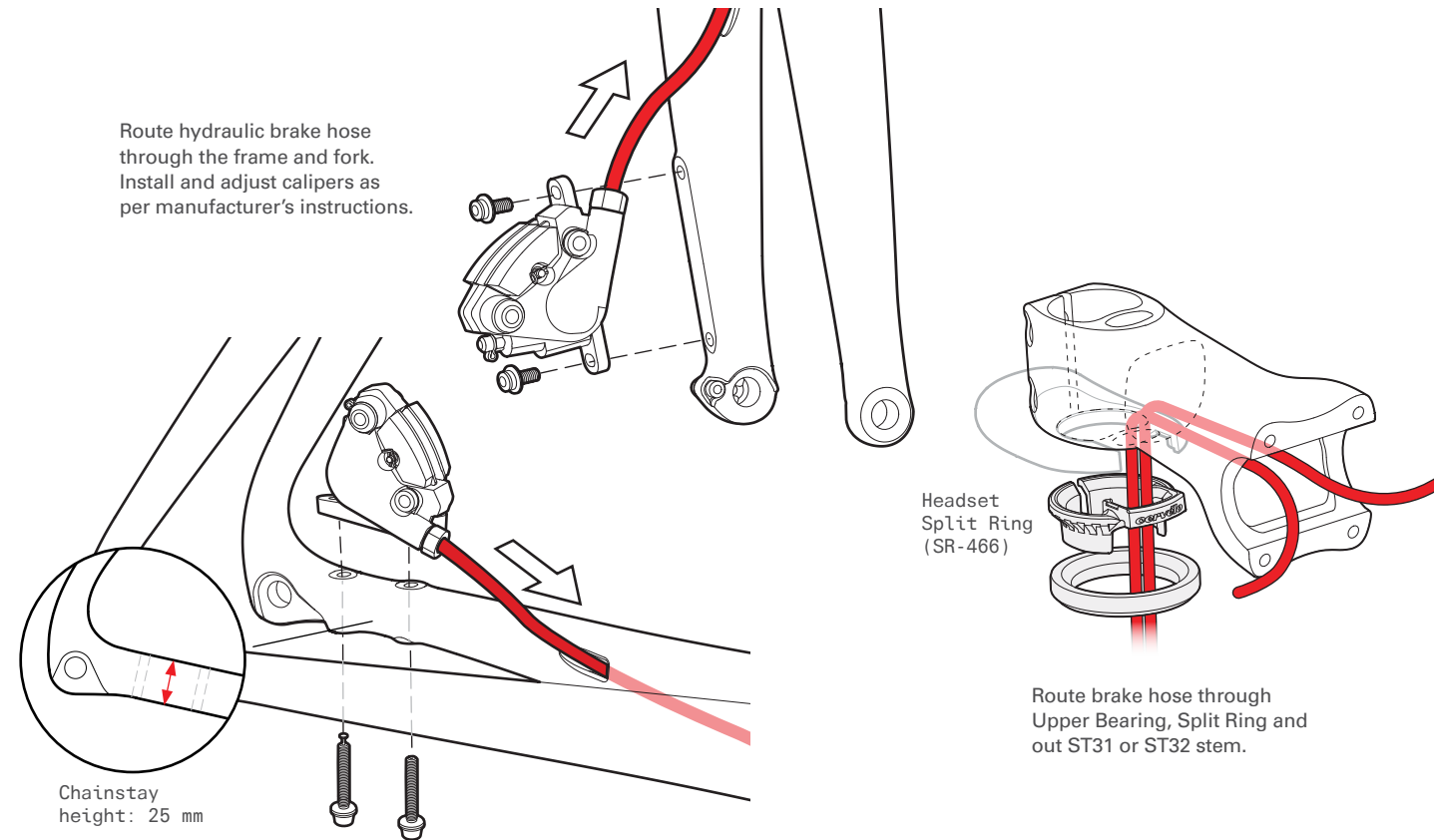
It is recommended that the rear hydraulic brake hose is installed first. These routing illustrations are intended as a supplement to the manufacturer's installation instructions only. Please refer to the component manufacturer's service center or website for further information.

● Brake

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



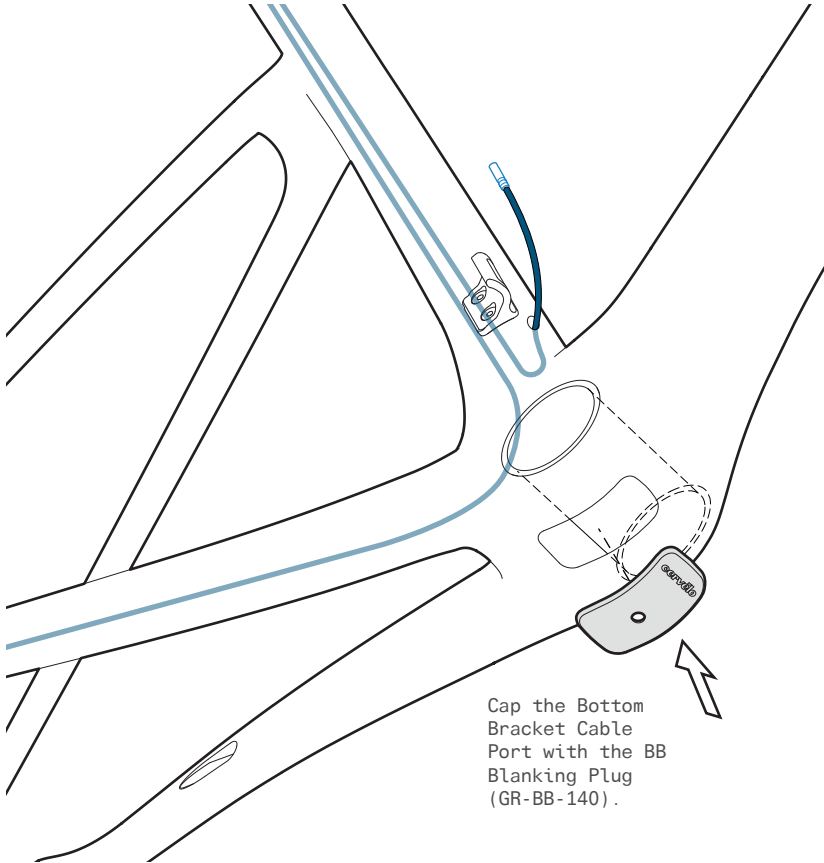
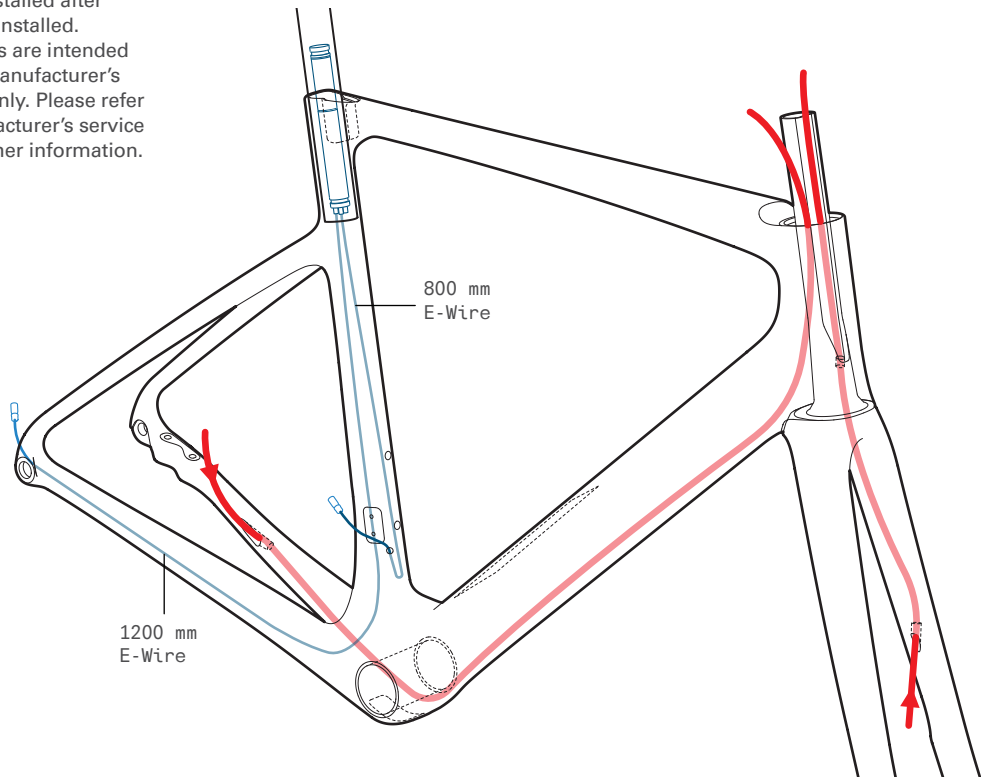
Route hydraulic brake hose through the frame and fork. Install and adjust calipers as per manufacturer's instructions.



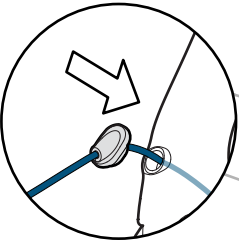
# ELECTRIC WIRE ROUTING AND INSTALLATION

It is recommended that electric cabling and junction points be installed after the brake hose has been installed. 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.

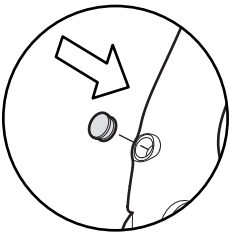
- Brake
- E-Wire(SD300)



For wired shifting systems install the Shimano EW-SD300 grommet for 6 mm hole (sold by Shimano).



For wireless shifting systems install the Blanking Plug (GR-576).



## SP24 SEATPOST ASSEMBLY AND INSTALLATION

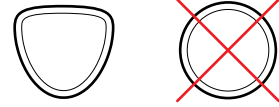
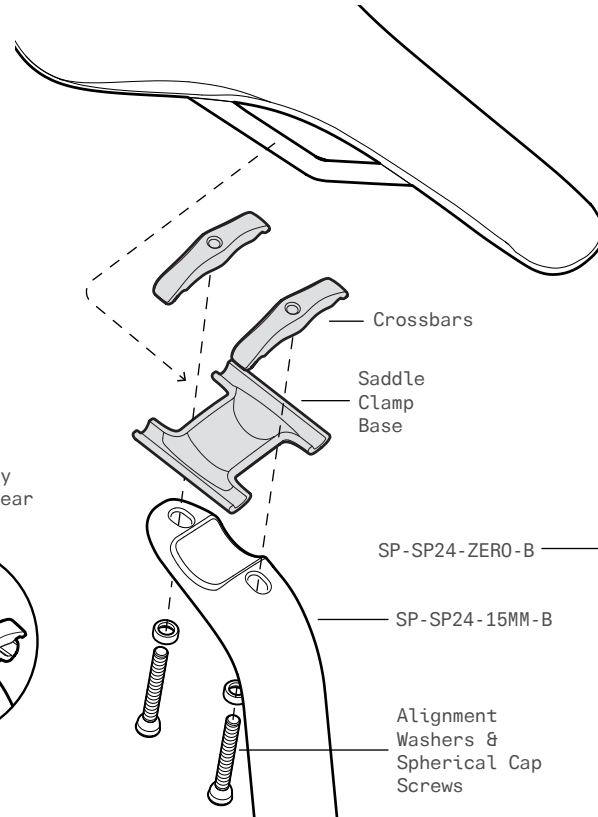
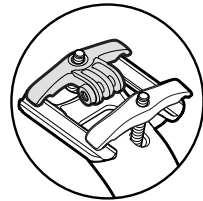
1. Apply a light coat of carbon assembly compound to the upper face of the Seatpost, making sure to cover area around the adjustment slots.
2. Locate the saddle rails between Crossbars and Saddle Clamp Base and place on Seatpost.
3. Ensure Loctite 243 is applied to the threads on the ends of the 35 mm Spherical Cap screws.
4. Lightly grease the heads of the Spherical Cap Screws. Slide the alignment washers onto the Spherical Cap Screws, then install them into the Seatpost from underneath (as shown). Tighten by alternating 1/2 turn on each side, until you reach a maximum of 7 N·m.

Accessory Mount Kit Rear (MT-LM-R-003)

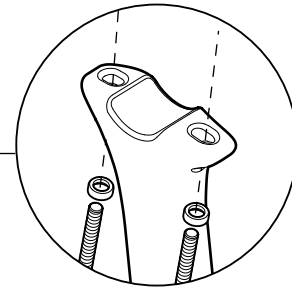
Torque fixing screws to 2.5 N·m.

Replace rear upper clamp with Accessory Mount Kit version. Tighten to maximum 7 N·m.

For use without accessory, clip may be hidden by reversing the rear crossbar.

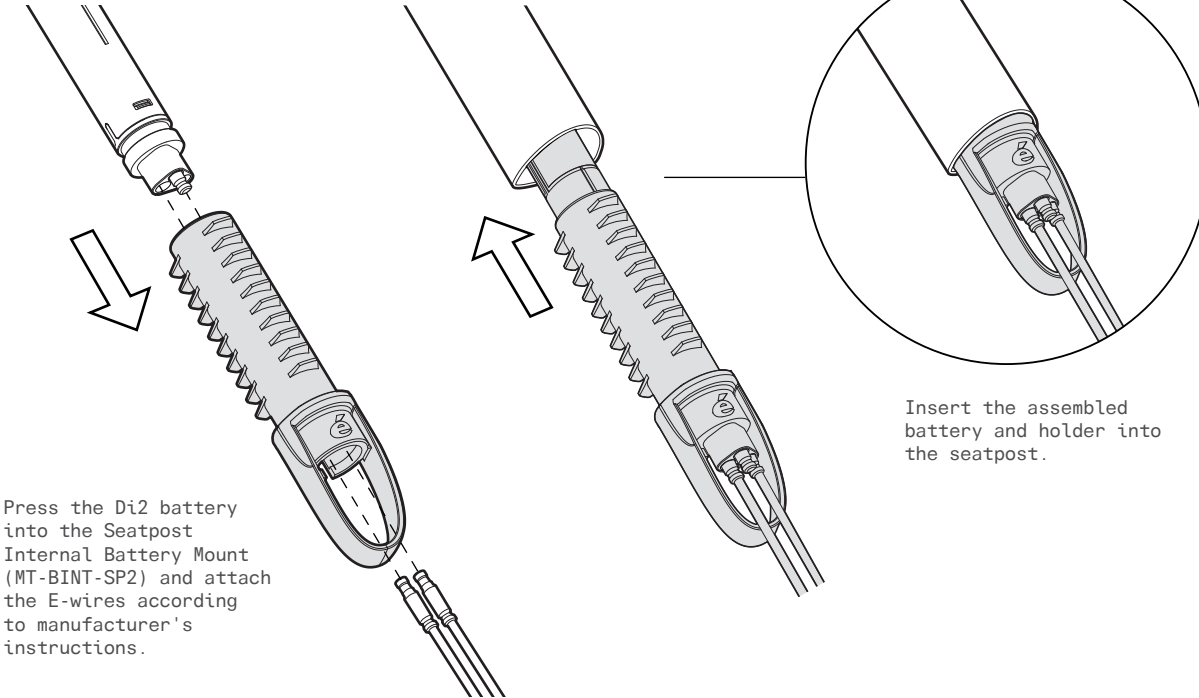


The Caledonia-5 uses a proprietary shaped seatpost. Do not attempt to use any seatpost other than the model provided by Cervélo.



## DI2 BATTERY INSTALLATION

The battery for your Shimano Di2 system mounts inside the seat tube using the Seatpost Internal Battery Mount (MT-BINT-SP2). As this is an enclosed location, it is important to test the system prior to final installation.

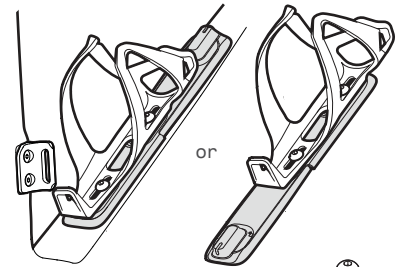


Insert the assembled battery and holder into the seatpost.

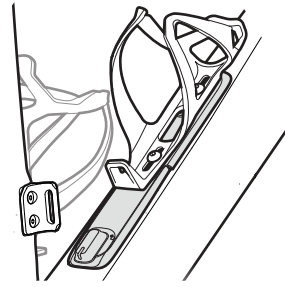
Press the Di2 battery into the Seatpost Internal Battery Mount (MT-BINT-SP2) and attach the E-wires according to manufacturer's instructions.

# SB05A IN-FRAME STORAGE DOOR

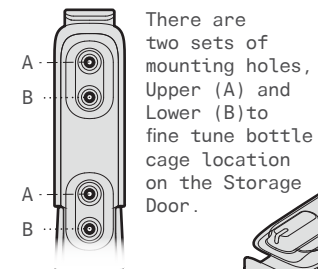
**1. Single bottle cage:** Storage Door can be oriented in either the low or high bottle cage position.



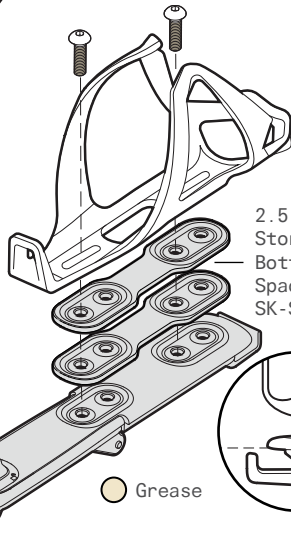
**2. Dual bottle cages:** Storage Door must be oriented in the high bottle cage position.



Choose preferred Storage Door orientation and install bottle cage using two lightly greased M5 x 16 mm fixing screws and optional 2.5 mm spacers for clearance purposes; two spacers maximum. Tighten to 2-3 N·m.



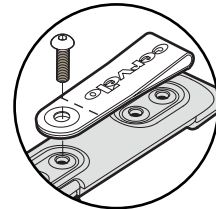
There are two sets of mounting holes, Upper (A) and Lower (B) to fine tune bottle cage location on the Storage Door.



2.5 mm Storage Door Bottle Cage Spacers SK-SB05-DR

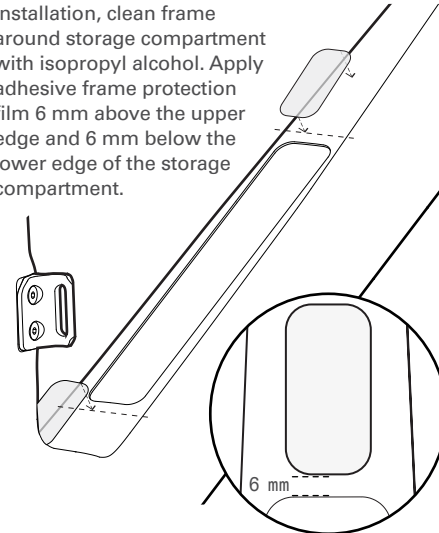
● Grease

If no bottle cage is to be used, install the Storage Door Pull Tab. Tighten to 2-3 N·m.



Use up to a maximum of two SB05A spacers between the bottle cage and Storage Door to avoid any interference between the bottle cage and the frame during Storage Door installation or removal.

Before Storage Door installation, clean frame around storage compartment with isopropyl alcohol. Apply adhesive frame protection film 6 mm above the upper edge and 6 mm below the lower edge of the storage compartment.



## ⚠ CAUTION

Not all bottle cages are compatible with the SB05A Storage Door. If the chosen bottle cage installed with up to two SB05A 2.5 mm spacers contacts the down tube during Storage Door removal, that bottle cage may be considered incompatible with the Storage Door. Using an incompatible bottle cage may put the bottle cage, the frame (including paint), or the Storage Door at risk of damage, and may prevent the Storage Door from being removed from the frame.

## Installation

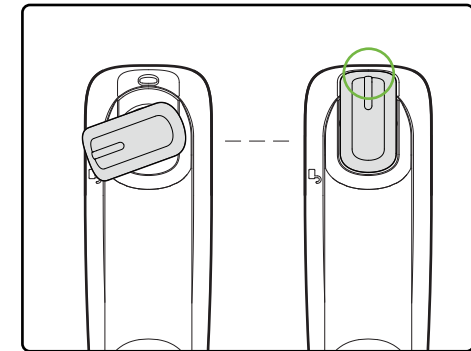
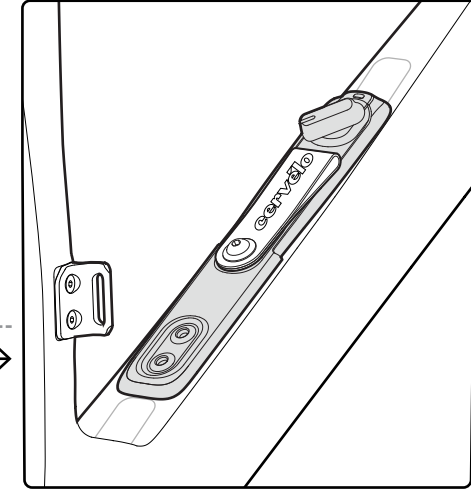
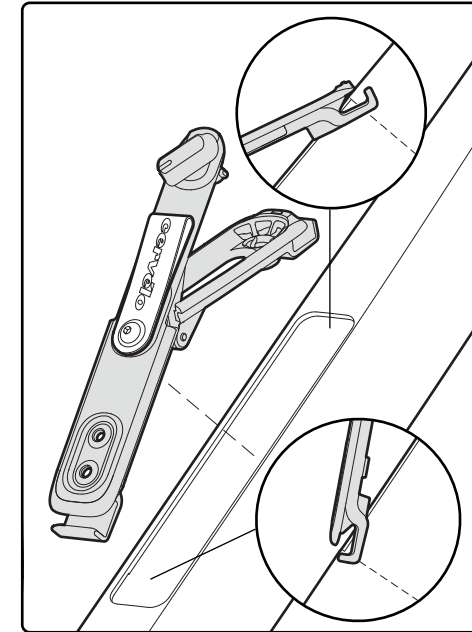
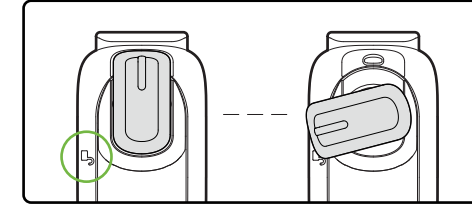
1. Turn latch towards the unlock icon and fold open the Storage Door.
2. Insert upper hooked end of the Storage Door into the down tube storage compartment and slide upwards.
3. Insert lower hooked end into the down tube storage compartment and press down on the Storage Door until it clicks into place.
4. Finish by rotating the latch back to the top to lock.

## Removal

1. Turn latch towards the unlock icon.
2. If no bottle cage is mounted to the Storage Door, use the Pull Tab handle to pull upwards and remove the Storage Door from the frame.
3. If a bottle cage is installed, the cage can be used instead of the Pull Tab to removed the Storage Door.

## ⚠ CAUTION

Do not attempt to remove the Storage Door without using the included Pull Tab or a bottle cage. The edges of the Storage Door can be sharp and result in injury when attempting to pry the Door from the frame.

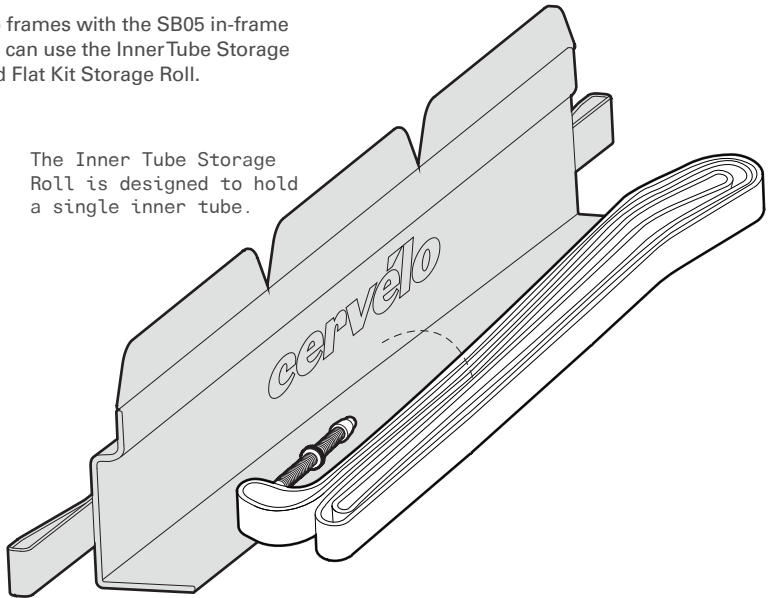




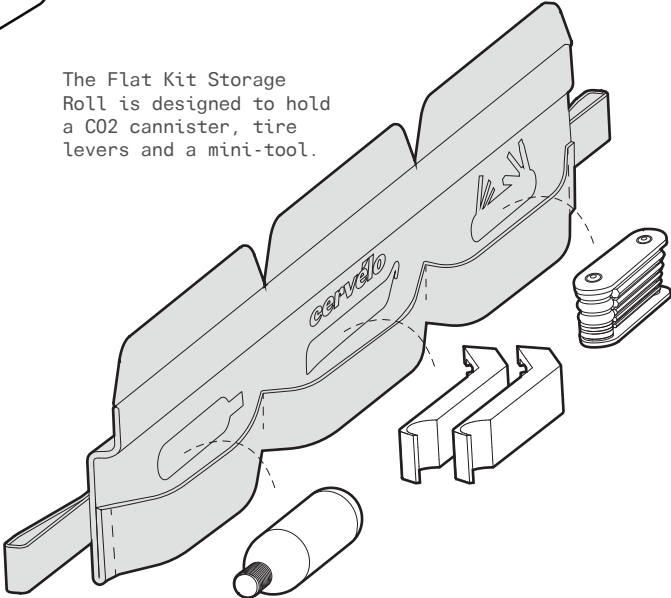
# SB05 IN-FRAME STORAGE ROLLS

Cervélo frames with the SB05 in-frame storage can use the InnerTube Storage Roll and Flat Kit Storage Roll.

The Inner Tube Storage Roll is designed to hold a single inner tube.



The Flat Kit Storage Roll is designed to hold a CO2 cannister, tire levers and a mini-tool.

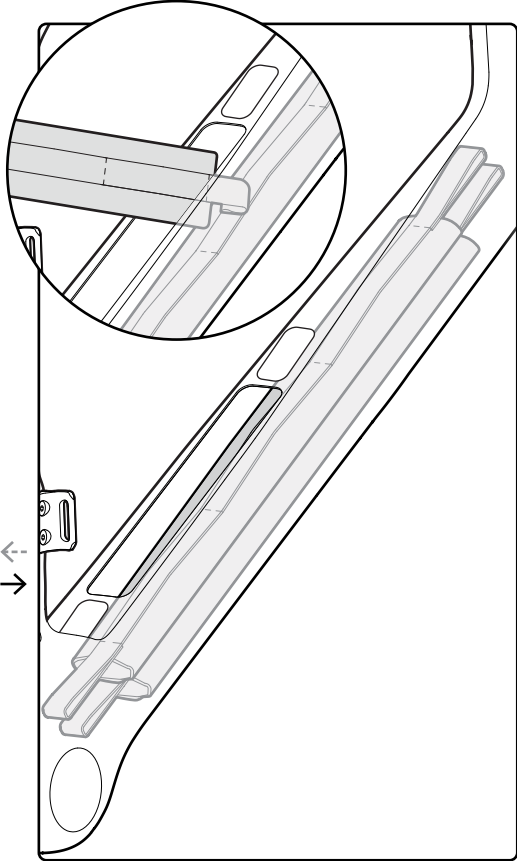
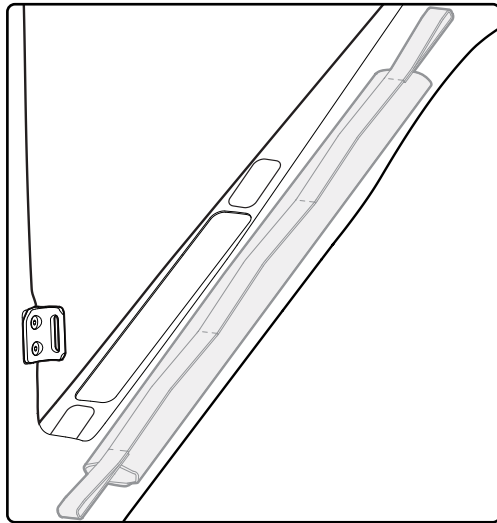
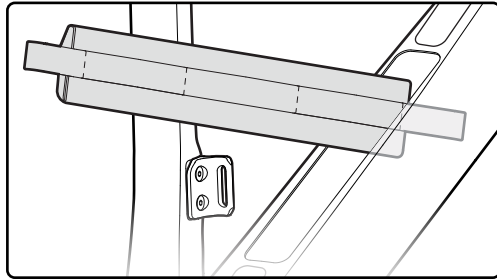


## Installation

1. Remove Storage Door. Insert the first roll into storage compartment.
2. Position the first roll so that it lies flat in the down tube with the pull tag/handle side facing up.
3. Repeat the procedure to install the second storage roll. Reinstall the Storage Door.

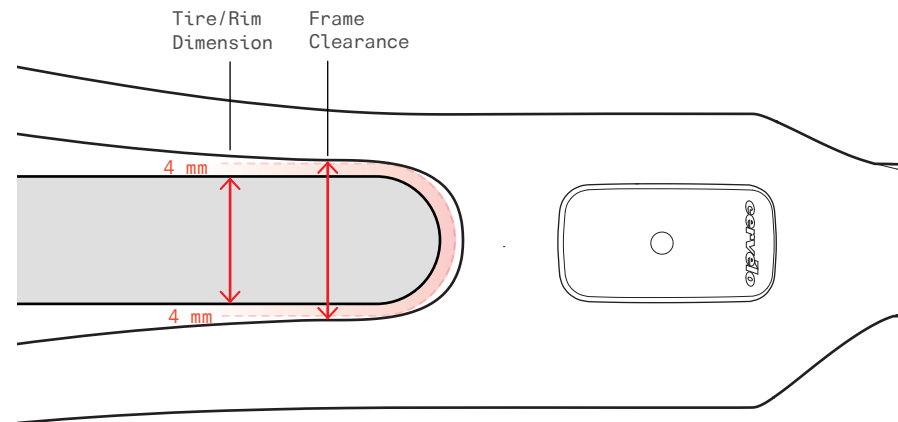
## Removal

1. Remove Storage Door. Grab the first roll by its tag/ handle and remove from the storage compartment.
2. Repeat the procedure to remove the second storage roll. Reinstall the Storage Door.



## 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 4 mm 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.



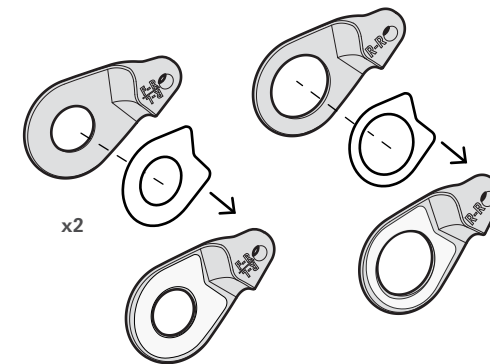
1. Measure the space between the chainstays at the bottom bracket junction.
2. Measure the space between the seatstays at the top of the tire.
3. Using the smaller of those two numbers (Frame Clearance), subtract 8 mm (4 mm per side) to determine the maximum Allowable Tire/Rim Dimension.
4. With the 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.
5. If a 4 mm Allen key does not fit into the smallest gap then the tire clearance is insufficient.

### ⚠ WARNING

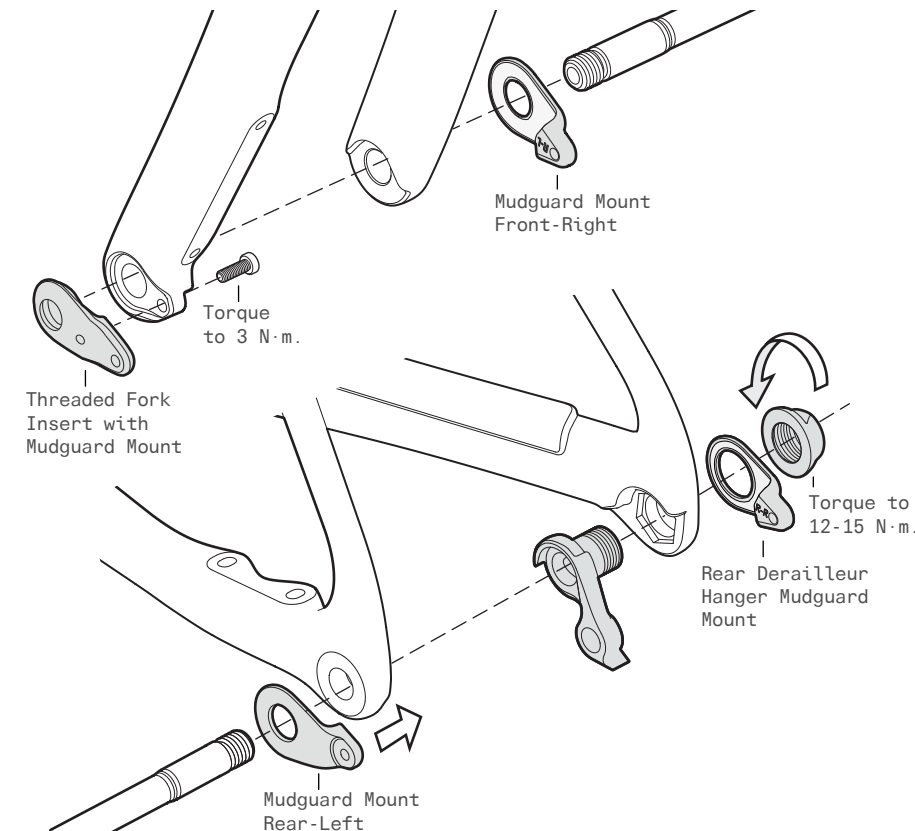
Contact between the tire or rim and the frame or fork may result in a loss of control while riding and potentially serious injury and/or death. Failure to follow these guidelines may result in damage to the frame not covered by Cervélo Limited Lifetime Warranty.

## MUDGUARD INSTALLATION

1. Remove the existing Threaded Fork Insert.
2. Install the Threaded Fork Insert with Mudguard Mount following the standard assembly procedure found on **page 13**.
3. Clean the inner faces of the Mudguard Mounts with isopropyl alcohol, and install the appropriate frame protection film paying attention to matching hole sizes.



4. Remove the Rear Derailleur Hanger Fixing Nut, and install the Rear Derailleur Hanger Mudguard Mount.
5. Reinstall fixing nut as per procedure outlined on **page 14**.

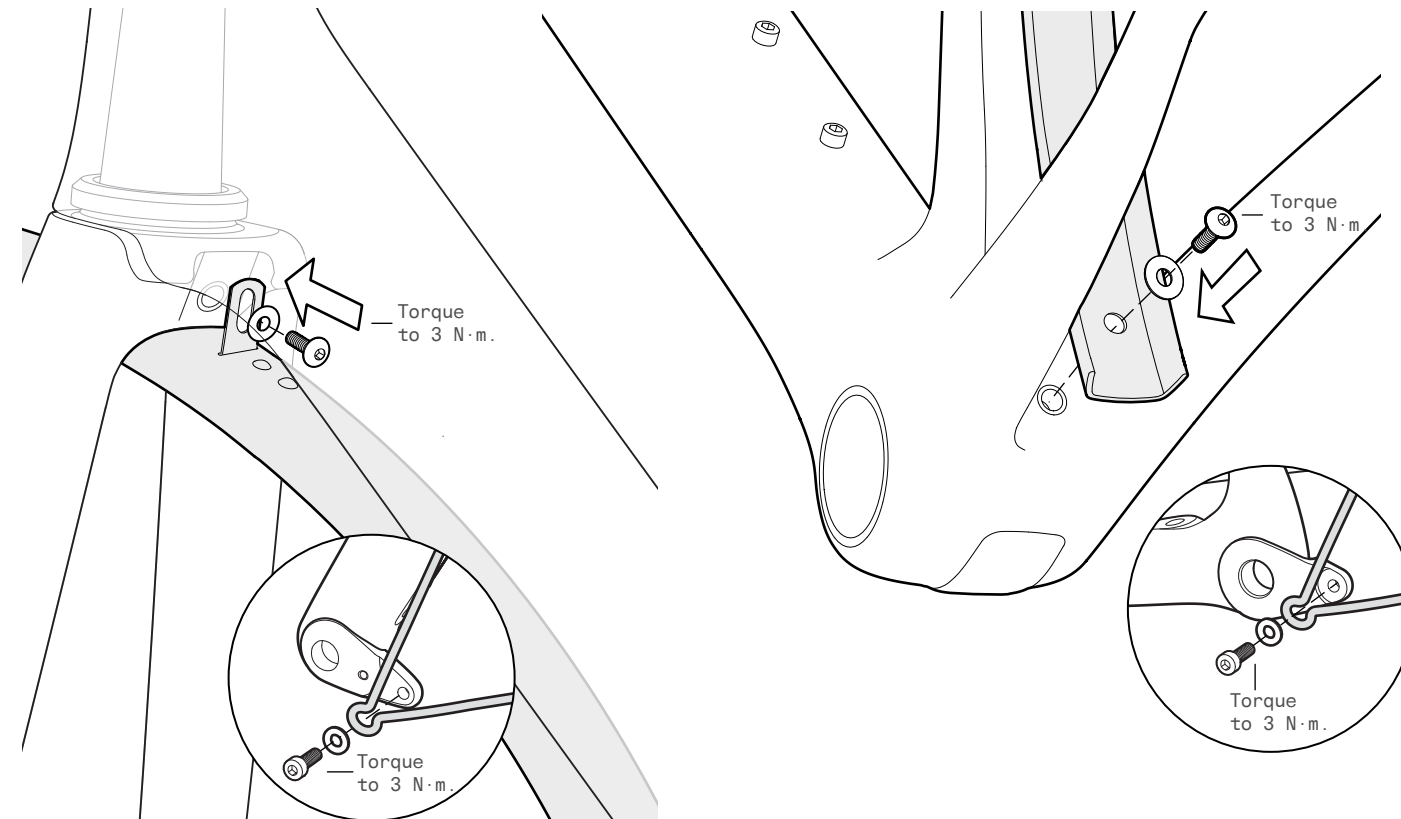
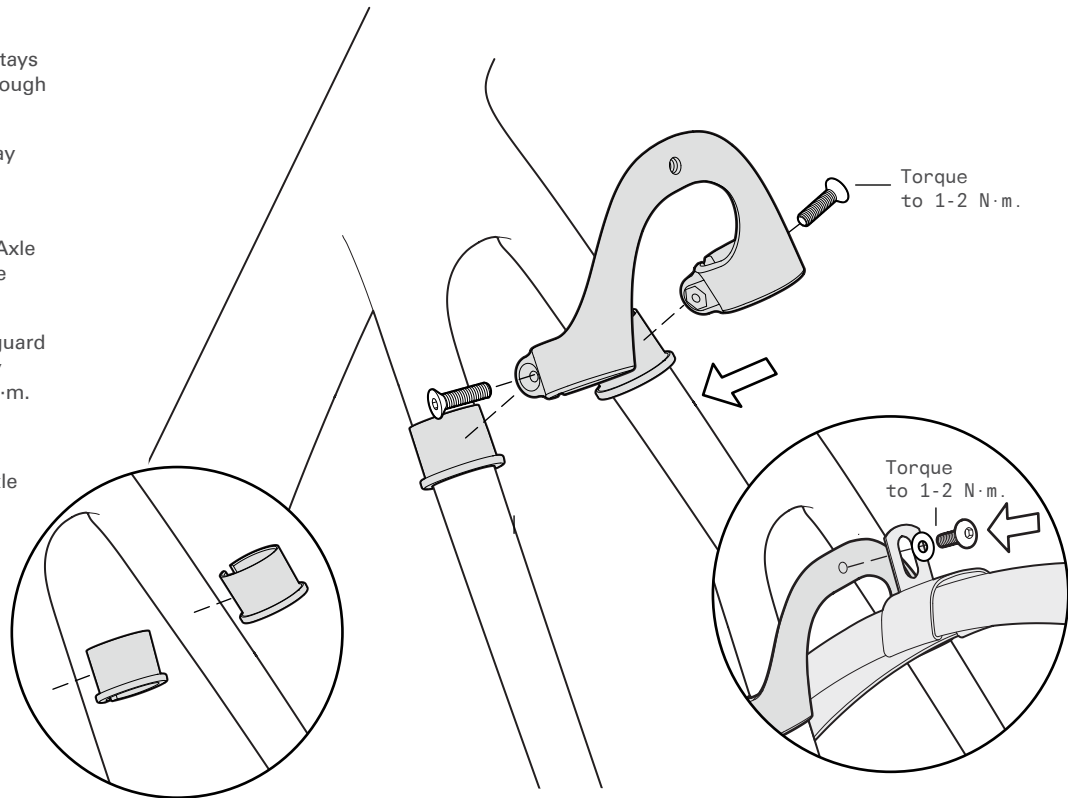




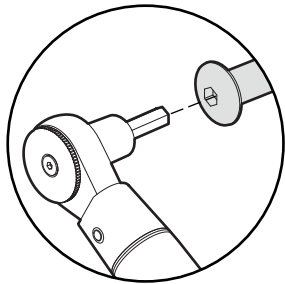
# MUDGUARD INSTALLATION

6. Install Seatstay Mount Bridge Shims onto seatstays.
7. Install Seatstay Mount Bridge onto seatstays over shims, leaving fixing bolts loose enough that the assembly can slide.
8. Loosely attach mudguards to the Seatstay Mount Bridge, and to the fork as per manufacturer's instructions.
9. Reinstall front wheel including the Thru-Axle Mudguard Mount as per front wheel/axle installation instructions on **page 31**.
10. Complete installation by attaching mudguard stays to Mudguard Mounts, using lightly greased M5 fixing screws. Torque to 3 N·m.
11. Torque Fork fixing screw to 3 N·m.
12. Reinstall rear wheel as per rear wheel/axle installation instructions on **page 32** and attach mudguard stays.

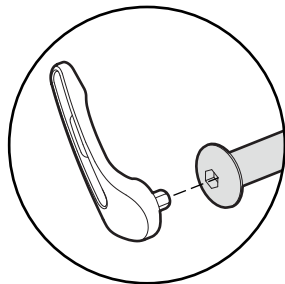
Install  
Seatstay  
Mount Bridge  
Shims



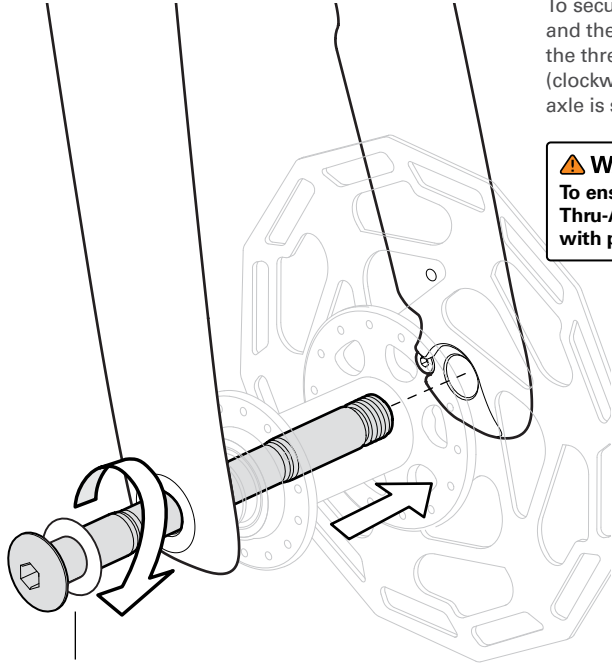
# AERO THRU-AXLE INSTALLATION



6 mm Allen key /  
torque wrench  
or



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



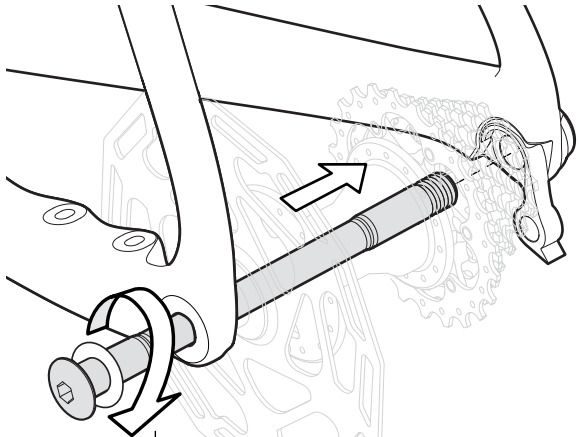
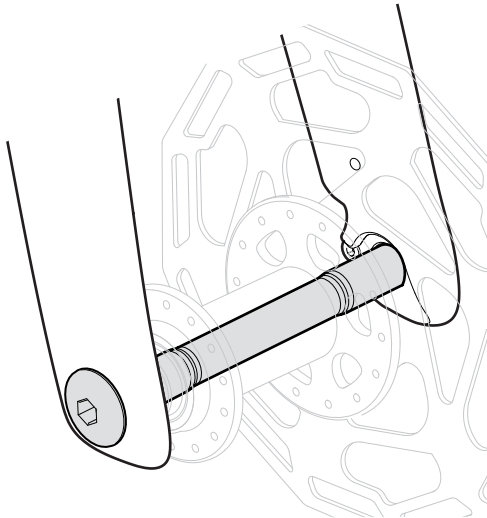
Ensure thru-axle  
washer is present  
for installation.

Tighten front axle  
to 12-15 N·m.

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 (clockwise) into the threaded component of the insert until the axle is secured tightly to 12-15 N·m.

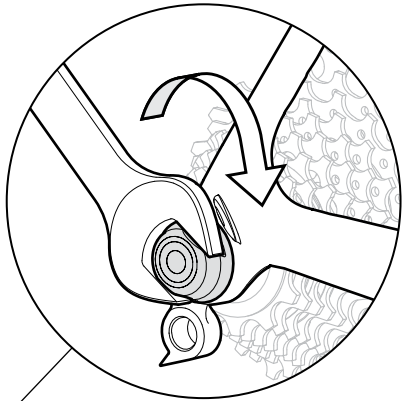
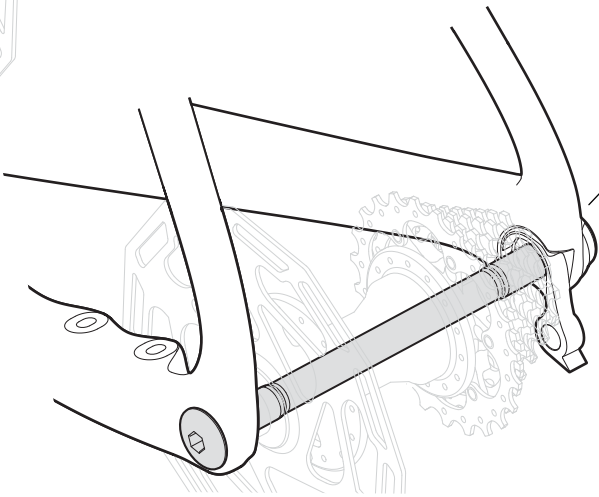
## ⚠ WARNING

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 and/or death to the rider.




Ensure thru-axle  
washer is present  
for installation.

Tighten front axle  
to 12-15 N·m.



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

# INTENDED USE OF THE CALEDONIA-5 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 Support about how you intend to use your bike.

**NOTE:** Cervélo bicycles are tested to a maximum combined bicycle/rider/luggage weight of 100 kg. 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 Caledonia-5

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 2

Bikes designed for riding Condition 1, plus unpaved and gravel roads and trails with moderate grades. Contact with irregular terrain and loss of tire contact with the ground may occur. Drops should be no more than 6” (15 cm).

**Intended** For paved roads, gravel or dirt roads that are in good condition, and bike paths.

**Not Intended** For off-road or mountain bike use, or any kind of jumping. Some bikes come with relatively wide tires, well suited for gravel or dirt paths. Some come with relatively narrow tires, best suited to faster riding on pavement. If you ride on gravel or dirt paths, carry heavier loads, or want more tire durability talk to your Authorized Retailer about wider tires. Not intended for touring with racks or panniers, or mounting child seats or trailers.

# CALEDONIA-5 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. 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 (Park Tool HPG-1 or equivalent) 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 (Dynamic Assembly Compound Carbon or equivalent) 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 (N · m)	Notes
<b>Frame and Fork</b>		
Front derailleur mount	3 N·m	Apply Loctite 243 to fixing screws if not already present.
Bottom bracket - Press-fit	35 to 50 N·m	Clean and 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 DS cup into the drive side of the frame and press in by hand until it contacts the NDS cup. Using a torque wrench tighten the DS cup of the BB until it is flush to the frame.
Rear derailleur hanger fixing nut	12 to 15 N·m	Grease the RDH threads and install on the dropout with the fixing nut finger tight. Install the rear axle and tighten 2 turns to align. Tighten the RDH fixing nut to torque spec.
Water bottle cage bolts	2 N·m	Lightly grease the fixing screws.
Fender mounting screw to frame	3 N·m	Lightly grease the fixing screw.

Component	Torque (N·m)	Notes
<b>Frame and Fork</b>		
Fork dropout insert	3 N·m	Lightly grease the fixing screw.
Fork steerer compression plug	8 N·m	Lightly grease the fixing screw and tighten to recommended torque.
Fender mount screw to fork	3 N·m	Lightly grease the fixing screw.
<b>Stem</b>		
Stem to fork steerer tube	5 N·m	Apply Loctite 243 to fixing screws if not already present, then evenly and alternately tighten to recommended torque.
Stem to carbon handlebar	6 N·m	Coat the stem body and faceplate contact surfaces with the handlebar with carbon assembly paste. Apply Loctite 243 to fixing screws if not already present, then evenly and alternately tighten to recommended torque.
Accessory mount- front	2 N·m	Lightly grease the fixing screw.
<b>Handlebar</b>		
Brake/shift levers (to handlebar)	6 to 8 N·m	Refer to manufacturer's instructions for installation of brake/shift levers.
<b>Seatpost Clamp (frame to seatpost)</b>		
Wedge clamp- rounded (front)	8 N·m	Use carbon assembly compound between the seatpost and the frame.
<b>Saddle (seatpost head bolts) – SP24 Carbon</b>		
2 bolt head	7 N·m	Apply Loctite 243 to bolt threads.
<b>Wheels</b>		
Cervélo aero thru-axle with removable handle	12 to 15 N·m	Requires the use of a 6 mm allen key type wrench or removable handle.
<b>Other</b>		
SB05A Storage Door water bottle fixing screws	2 to 3 N·m	Lightly grease the fixing screws.
Pedals	25 to 35 N·m	Refer to manufacturer's instructions.

## CALEDONIA-5 FRAME DETAILS

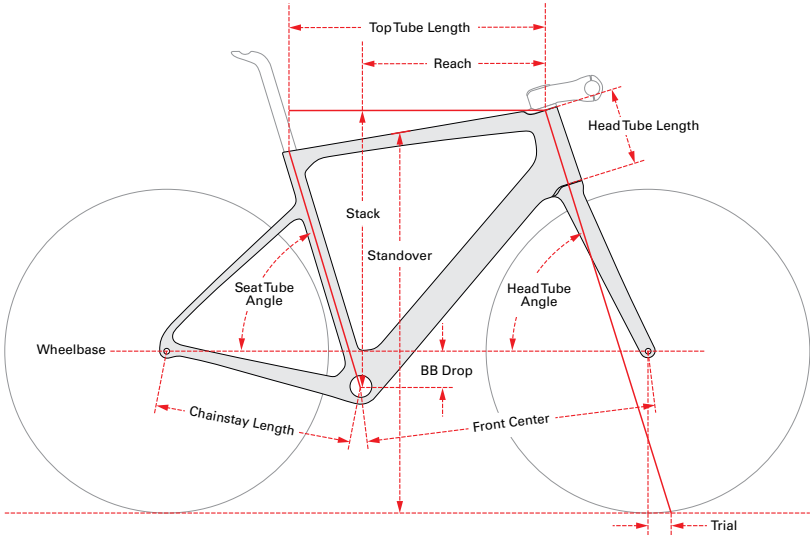
Caledonia-5 (FM158)	
Bike Name	Caledonia-5
Model Year	2025
Serial Number Code	SN158
Frame Code	FM158
Fork Code	FK158
Brake Mount Type	Flat Mount Disc
Chainstay Height (Flat Mount)	25 mm
Frame Sizes	48/51/54/56/58/61
Wheel Size	700c
BB Type	BBRight
Headset Type	Integrated 1-1/4" x 1-1/2"
Upper Headset Bearing Dimensions	1-1/4", 34 x 46.8 x 7, 45° x 45°
Lower Headset Bearing Dimensions	1-1/2", 40 x 51.8 x 7.5, 36° x 45°

\* Tire measurements shall be taken at the widest point of the tire when it is installed on the rim and inflated. 4 mm of distance is required between the tire and any frame or fork element.

Caledonia-5 (FM158)	
Maximum Chainring Size 1x	60t with 44.5 mm chainline
Maximum Chainring Size 2x	55t outer / 42t inner
Seatpost	SP-SP24-ZERO-B SP-SP24-15MM-B
Seatpost Clamp	SPC-287A
RD Hanger	DRH-WMN112
RD Hanger (Shimano DM)	DRH-SDM
FD Hanger	FDM-0E0
Front Axle Dimensions	127 mm Length, M12 x 1.5, 11 mm Thread Length, for 100 x 12 spacing
Rear Axle Dimensions	170.5 mm Length, M12 x 1.75, 12 mm Thread Length, for 142 x 12 spacing
Maximum Tire Width (Actual)	36 mm with 4 mm clearance*

# CALEDONIA-5 FRAME GEOMETRY

Caledonia-5 (FM158)	48 cm	51 cm	54 cm	56 cm	58 cm	61 cm
Reach   mm	360	369	378	387	396	405
Stack   mm	505	530	555	580	605	630
Bottom Bracket Drop   mm	76.5	76.5	74	74	71.5	71.5
Chainstay Length   mm	415	415	415	415	415	415
Seat Tube Angle	74.5°	74°	73.5°	73°	73°	73°
Head Tube Angle	70.5°	71.5°	72°	72°	72°	72°
Fork Length (Axle to Crown)   mm	385	385	385	385	385	385
Fork Offset   mm	60	54	51	51	51	51
Front Center   mm	580.5	582.7	592.5	609.5	627	644.1
Head Tube Length   mm	89.8	110.3	136.3	162.6	191.5	217.8
Wheelbase   mm	983.3	985.6	996.3	1013.4	1031.8	1048.9
Standover Height   mm	701	743	775	798	824	847
Seat Tube Length   mm	412	460	493	517	540	564
Top Tube Length   mm	502	522	543	565	581	598



# MECHANICAL SAFETY CHECK

**NOTE:** Cervélo recommends that you bring your new bicycle to your authorized retailer after 30 to 60 days of use for an initial service inspection. This is an important service to address components that have been broken in, stretched, or seated themselves, which is a normal occurrence in all new bicycles. The first service will make the required adjustments to enhance the safety, performance, and durability of your Cervélo bicycle over the long haul.

## Before Every Ride:

1. Check the frame and fork for signs of stress: scratches, cracks, dents, deformation, or discoloration. Inspect the chainstay guard and ensure it is correctly and securely attached.
2. Check that the front wheel is securely mounted to the fork, and the rear wheel to the frame.
3. Check that the wheels spin straight through the fork and swingarm. Wheels should spin freely and without brake rub.
4. Check the tire pressure is in the recommended range for the tire and rim.
5. Check the brakes, including brake levers, calipers, rotors, brake pads, and brake lines. Verify that the attachment bolts are correctly tightened.

Squeeze the brake levers to verify the calipers close and prevent the bike from rolling forward or backwards. The brake levers should not contact the handlebars even at full force.

6. Check that the handlebar and stem are correctly positioned and aligned relative to the front wheel. Check that the stem bolts are correctly tightened. Inspect for signs of stress: scratches, cracks, dents, deformities, and discoloration.
7. Cycle the suspension to check for proper function. Clean the stanchions if any debris is present. Verify that suspension systems are set to your preferences.
8. Check that the lighting system and reflectors are in good working order.
9. Check that the saddle and seatpost are correctly positioned and tightened. The saddle should be aligned with the top tube of the frame.
10. Check for smooth shifting operation, and adjust if needed.
11. Check that the pedals and shoes are free of debris that can interfere with the retention system.
12. Lubricate the chain using a good quality chain lube (ParkTool CL-1 or equivalent).

## Every Week (~100 miles):

1. Check that all bolts are tightened to proper torque specifications. Make sure to include pedals and any accessories.
2. Check the rims for signs damage, and check for any loose spokes.
3. Clean the bicycle. Do not use a high-pressure washer, or harsh chemical cleaners or solvents. Do not use compressed air to dry. Avoid direct spray into head tube, bottom bracket, or wheel bearings.
4. Check the tires for damage and wear to verify they are in good condition.
5. Clean the dust seals on any suspension parts for cracking or leaks.
6. Check the battery level in any electronic drivetrain, suspension, or accessory components.

## Every Month (~400 miles):

1. Check the shifter and brake cables/hoses for wear, leaks, fraying, rust, or other damage.
2. Check that no cables are pulled or caught on other parts in normal operation.

# MECHANICAL SAFETY CHECK

1. Check that the bottom bracket is tightened to the proper torque specification, and there is no friction, noise, or play in the crankarms when rotated. Adjust or overhaul if needed- consult your retailer.

2. Check that the headset is adjusted correctly, with no play when the front brake is locked. Adjust or overhaul if needed- consult your retailer.

3. Check that the chain is tensioned correctly. Inspect the chain for broken parts, kinks, or rust.

4. Check that the brake pads are not worn (replace if thinner than 1 mm)

5. Check the chainstay guard and bottom bracket guard for wear.

6. Check the wheel hubs for smooth operation (not loose or grinding). Adjust or overhaul if needed- consult your retailer.
3. Check tire sealant levels (if running tubeless setup).

4. Inspect any suspension parts for wear or damage.

5. Clean and inspect the frame pivot bearings, shock link, and pivot axles. Re-grease the parts with a high-quality bicycle (ParkTool HPG-1 or equivalent), and replace them if worn or damaged. If running a tubeless setup, check tire sealant levels and replace if thinner than 1 mm.

6. Check the chainstay guard and bottom bracket guard for wear.

7. Clean and inspect the frame pivot bearings, shock link, and pivot axles. Re-grease the parts with a high-quality bicycle (ParkTool HPG-1 or equivalent), and replace them if worn or damaged.

## Every 3 Months (~1500 miles):

1. Inspect the drivetrain components for damage or wear.

2. Inspect the crank arms and pedals to ensure they are tight, with no movement or play. Look for signs of wear or damage.

## Every Year (~6000 miles):

1. Perform an annual service at your retailer: overhaul service and inspection of frame, suspension, and all other components.

2. Repair, service, and/or replace parts as needed.

3. Clean and lubricate all parts as recommended by your component manufacturer's


instructions or consult your retailer.

4. Check for service instructions and intervals for your bicycle at [www.cervelo.com](http://www.cervelo.com)

5. Perform brake bleed and suspension overhaul as directed by the component manufacturer.

**NOTE:** This section provides guidelines to ensure safe operation of your bicycle, but it should not be considered a complete safety inspection. Following these guidelines will help maintain the performance of your bicycle, and help to prevent more serious problems from occurring.

For service instructions for your specific components, please visit the manufacturer's website. If you detect any problems with your bike, and you are not able to repair them, take your bike to your authorized Cervélo retailer for service. It is important to remember that service intervals can vary depending on climate, trail conditions, and riding frequency.



**WARNING**  
**Have your bicycle inspected by a professional bicycle mechanic any time you have a crash or accident to make sure it is safe to ride. Riding a bicycle with damage can be hazardous and may lead to serious injury and/or death.**

# CERVÉLO CUSTOMER SUPPORT

## Contacting Customer Support

Visit [www.cervelo.com/contact-us](http://www.cervelo.com/contact-us) to submit a question to Cervélo or for service and maintenance support.

## Product Registration

Visit [www.cervelo.com/support/registration](http://www.cervelo.com/support/registration) to register your Cervélo bicycle through your MyCervélo account.

## Manuals

Visit [www.cervelo.com/product-manuals](http://www.cervelo.com/product-manuals) for additional information on Cervélo products.



## Warranty

Visit [www.cervelo.com/warranty](http://www.cervelo.com/warranty) for information on Cervélo's warranty policy.

## NOTES

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# ***2025 CALEDONIA-5 ASSEMBLY MANUAL***

CER-CFB-V1 2024-07-20

[www.cervelo.com](http://www.cervelo.com)

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