

2027 SOLOIST RETAILER ASSEMBLY MANUAL

cervélo

velo

TABLE OF CONTENTS

Important Information	3	SP27 Seatpost Assembly	21
List of Tools and Supplies.	4	Seatpost Cutting Instructions	23
Soloist Frame Features.	5	Aero Water Bottle and Cage.	24
Soloist Parts List.	6	Aero Thru-Axle Installation	25
Small Parts	7	Tire Clearance and Pressure	27
HB18 Carbon One Piece Handlebar and Stem.	9	Intended Use of the Soloist Bicycle	28
Frame and Component Preparation	11	Soloist Torque Specifications.	29
Bearing Top Cap Kit 997	14	Soloist Frame Geometry.	31
Fork Preparation and Installation	15	Soloist Frame Details	32
Brake Hose Routing.	17	Mechanical Safety Check	33
Electric Wire Routing	19	Cervélo Customer Support.	35

IMPORTANT INFORMATION

This manual is intended to guide official Cervélo retailers through the assembly and adjustment of the Cervélo Soloist. 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 or death. 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.

⚠ 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 can expose you to Lead and lead compounds, which is known to the State of California to cause Cancer, Birth Defects, and Other Reproductive Harm. For more information, go to www.p65warnings.ca.gov.

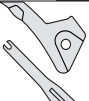
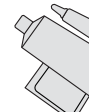
LIST OF TOOLS AND SUPPLIES

This manual outlines a number of procedures for making adjustments to the Soloist 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.

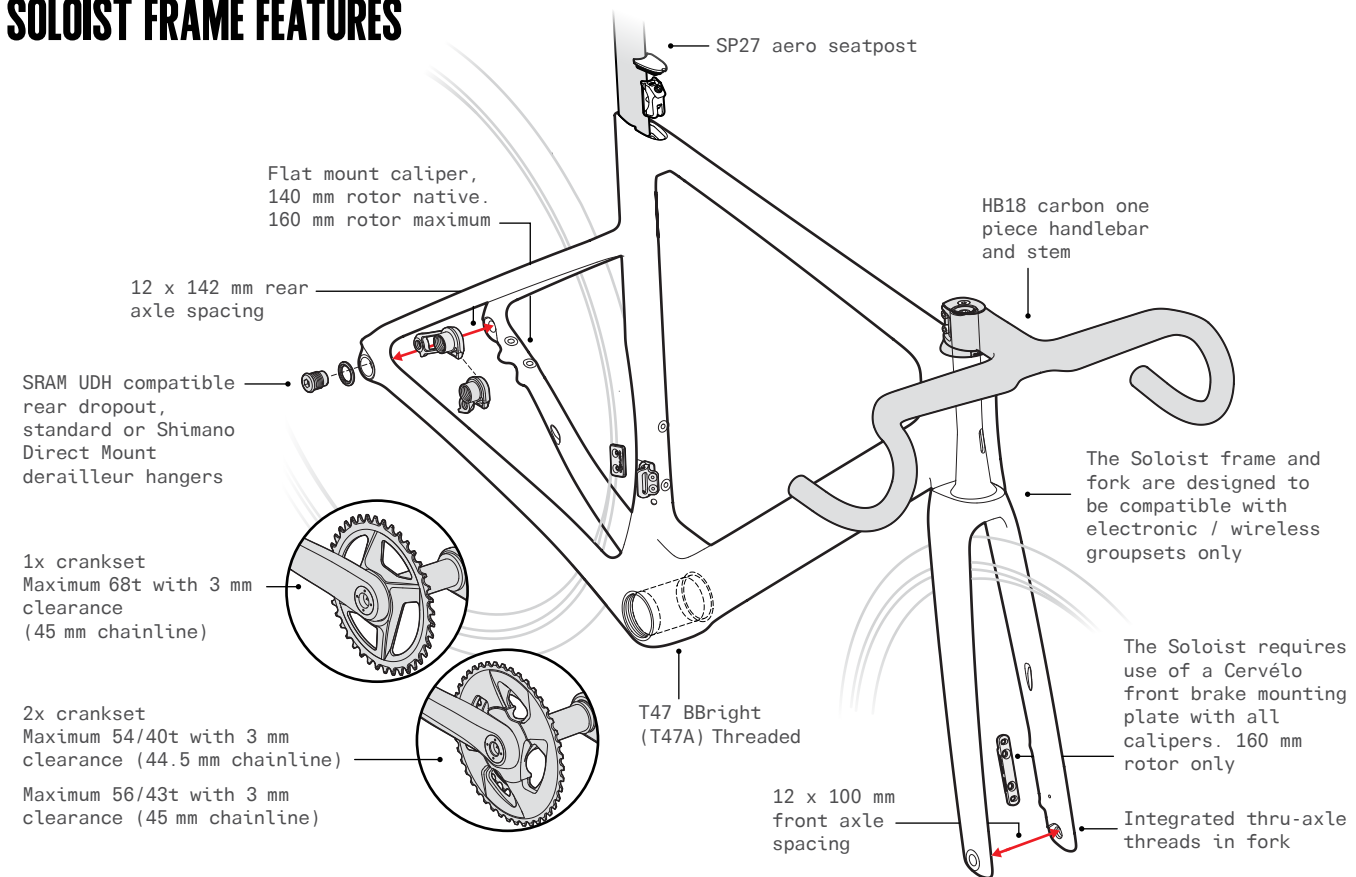
NOTE: All non-proprietary components such as those from Shimano or SRAM are available from your local distributor.

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 and Supplies	
	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 Torx head inserts: T10, T25
	Phillips-head and slot-head screwdrivers
	Open ended wrenches: 7 mm, 8 mm, 10 mm, 15 mm, 17 mm
	Cable cutters and / or brake hose cutting tools
	Pliers
	Brake rotor locking and / or bottom bracket cup tools

Tools and Supplies	
	Internal cable routing tool
	Hydraulic brake bleed kit
	Isopropyl alcohol
	Parts group specific tools: Shimano - Di2 wire tool SRAM - FD setup tool, RD Chaingap Adjustment Gauge
	Quality bicycle grease (ParkTool HPG-1 or equivalent), carbon assembly compound (Dynamic Carbon Assembly Paste or equivalent), and threadlocking compound (Loctite 243 or equivalent)
	Saw cutting guide (ParkTool SG-72 or equivalent)
	Hacksaw (with carbon and aluminum specific blades)

SOLOIST FRAME FEATURES



SOLOIST PARTS LIST

Item Description	Cervélo Part No.
D-Steerer HS Preload SL Compression Plug	FKI-CL014-3047A
HS002 Headset Split Ring with Micro Shims (x3)	SR-466
HS002 Headset Bearing Micro Shims (x3)	HS-865
Bearing Cap Kit 997 (22 mm Top Cap with Plug and 7 mm Top Cap)	BC-997
HS002 Headset Bearing Top Cap Plug	PL-807
ST31 / ST32 Stem Spacer Kit (2.5 mm x2, 5 mm x7)	SK-032
FSA Headset Bearing 1-1/4" 45° x 45°	HS-082
FSA Headset Bearing 1-1/2" 36° x 45°	HS-110
FSA SL Headset Bearing 1-1/4" 45° x 45°	HS-082SL
FSA SL Headset Bearing 1-1/2" 36° x 45°	HS-110SL
Front Brake Mounting Plate 004	BRP-3004

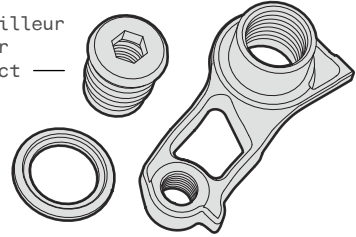
Item Description	Cervélo Part No.
HB18 Carbon One Piece Handlebar and Stem	See Page 10
Cervélo Front Aero Thru-Axle V2 with Removable Handle	QRA-882
Removable Handle For Cervélo Aero Thru-Axle	QRA-AERO2-HNDL
Rear Road UDH Thru Axle with Removable Handle	QRA-698
6 mm Blanking Plug	GR-576
Shimano SD300 Grommet for 6 mm Hole	EW-GM300-S
Front Derailleur Mount with Fixing Screws	FDM-0E0
Front Derailleur Mount Blanking Plate	FDM-CVR
Chainstay Protector	PRO-CS-ASP
Cervélo Derailleur Hanger V2 Standard Mount (for UDH frames)	DRH-896
Cervélo Derailleur Hanger V2 for Shimano Direct Mount (for UDH frames)	DRH-897

Item Description	Cervélo Part No.
Seatpost Clamp Assembly 108	SPC-108
Seatpost Clamp Cover 110	SPCC-110
Accessory Mount Kit Front 887	MT-LM-F-887
Accessory Mount Kit Rear 974	MT-LM-R-974
Accessory Mount Kit Rear	MT-LM-R-003
SP27 Carbon Seatpost 0 mm Offset V2	SP-SP27-ZERO-V2-B
SP27 Carbon Seatpost 15 mm Offset	SP-SP27-15MM-B
SP27 Seatpost Battery Mount	BTM-596
WB03 Aero Bottle / Cage Assembly	WB-BC03
WB03 Aero Bottle Replacement	WB-WB03

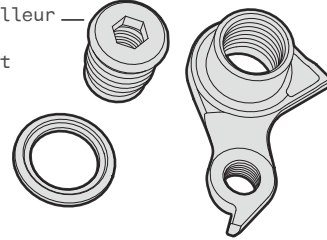
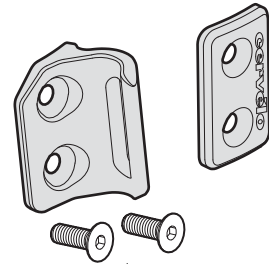
SMALL PARTS

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

Cervélo Derailleur Hanger V2 for Shimano Direct Mount
DRH-897

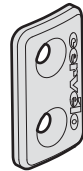


Cervélo Derailleur Hanger V2 Standard Mount
DRH-896



Front Derailleur Mount with Fixing Screws FDM-0E0

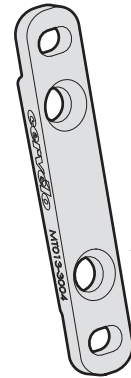
Front Derailleur Mount Blanking Plate (1x)
FDM-CVR



6 mm Blanking Plug (x2)
GR-576



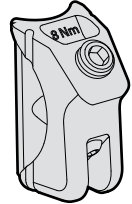
SD300 Grommet for 6 mm Hole (x2)
Shimano p/n EW-GM300-S



Front Brake Mounting Plate 004 (BRP-3004)

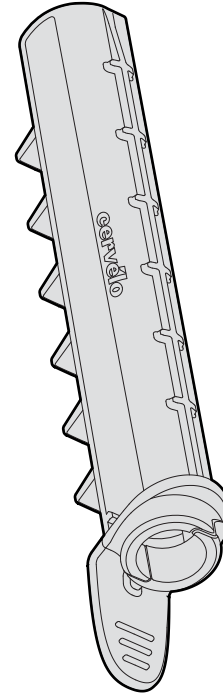


Seatpost Clamp Cover 110
SPCC-110

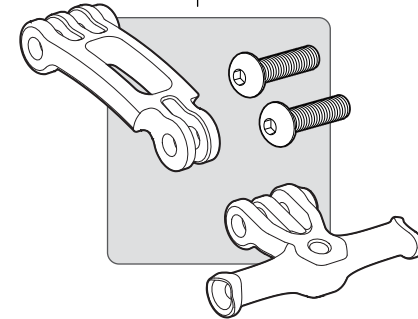
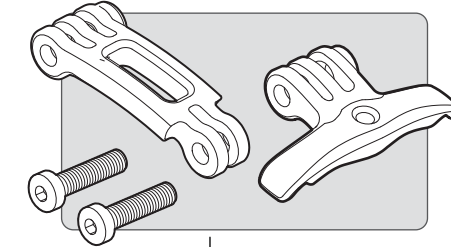


Seatpost Clamp Assembly 108
SPC-108

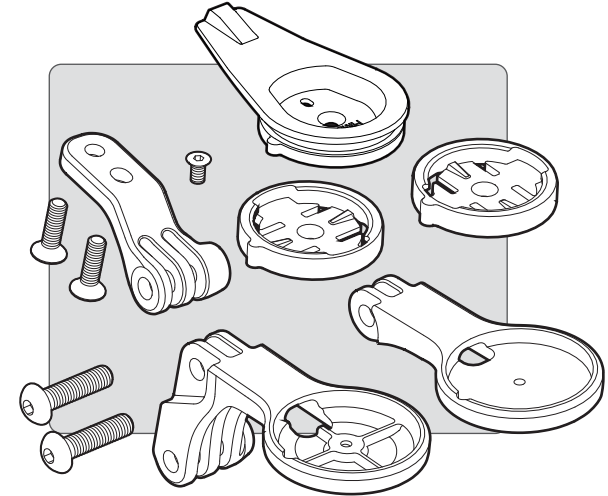
SP27 Seatpost Battery Mount
BTM-596



Accessory Mount Kit Rear 974
(for SP27 0 mm V2/SP33/SP34)
MT-LM-R-974



Accessory Mount Kit Rear
(for SP27 15 mm)
MT-LM-R-003

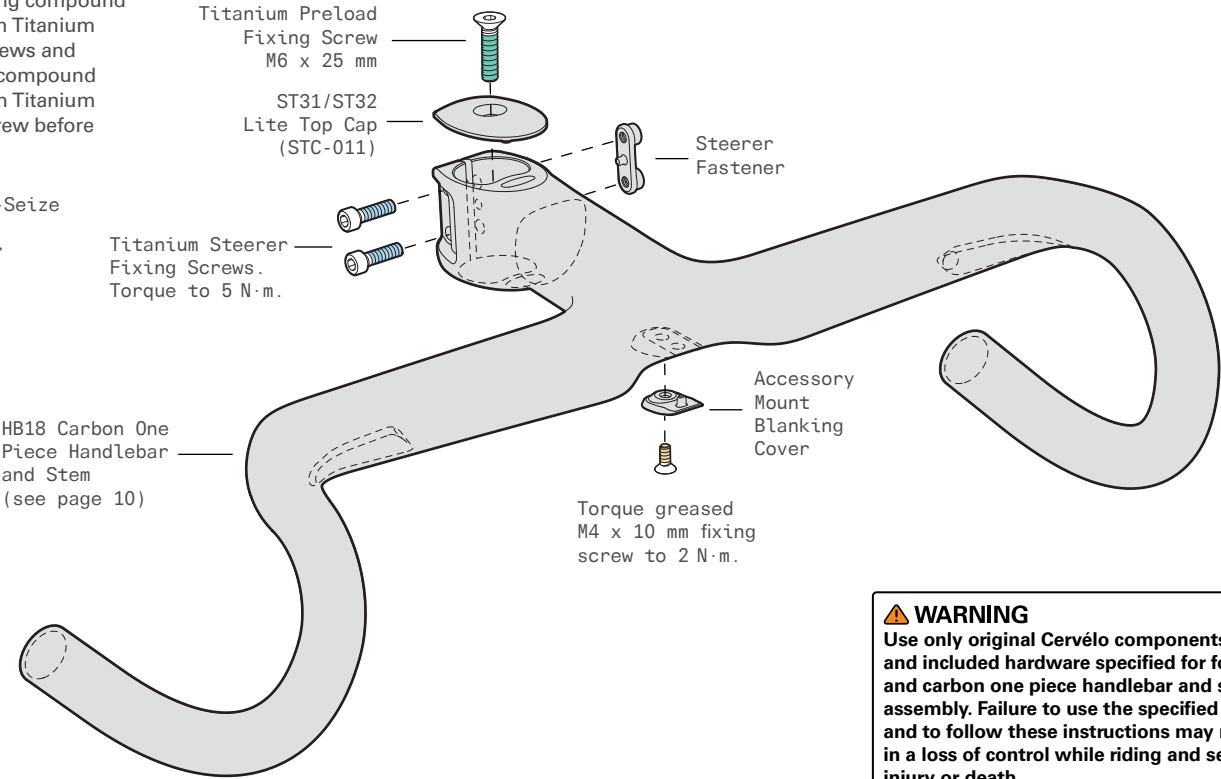


Accessory Mount Kit Front 887
(for HB16/HB18/HB19)
MT-LM-F-887

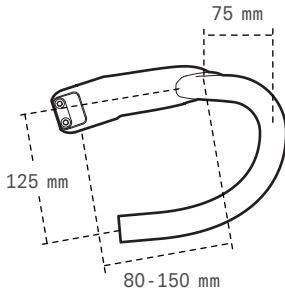
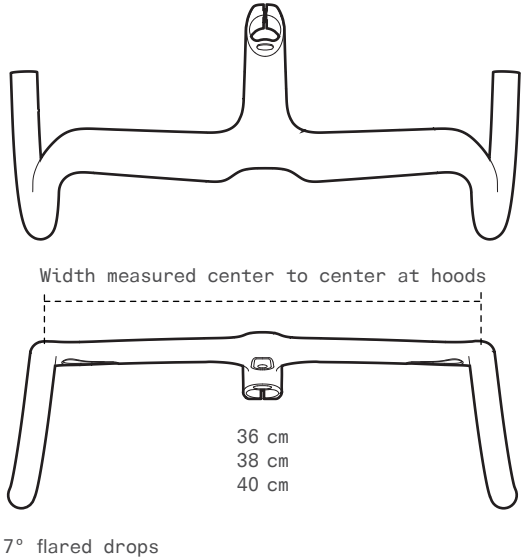
HB18 CARBON ONE PIECE HANDLEBAR AND STEM

Apply threadlocking compound to the M5 x 18 mm Titanium Steerer Fixing Screws and copper anti-seize compound to the M6 x 25 mm Titanium Preload Fixing Screw before installation.

- Copper Anti-Seize
- Threadlocker
- Grease

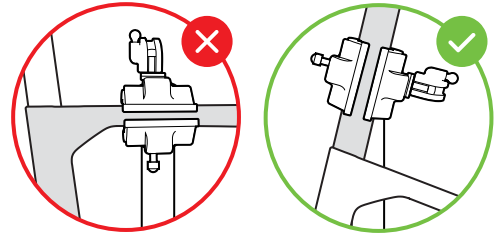


⚠ WARNING
Use only original Cervélo components and included hardware specified for fork and carbon one piece handlebar and stem assembly. Failure to use the specified parts and to follow these instructions may result in a loss of control while riding and serious injury or death.

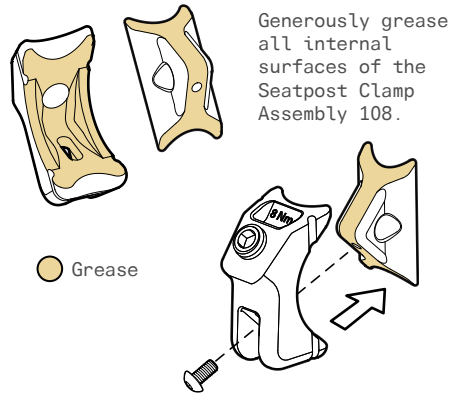


Part No.	Stem Length	Handlebar Width
36 cm - HB18 Carbon One Piece Handlebar and Stem		
HB-HB18-80-36/40-B	80 mm	36 cm (40 cm at drops)
HB-HB18-90-36/40-B	90 mm	
HB-HB18-100-36/40-B	100 mm	
HB-HB18-110-36/40-B	110 mm	
HB-HB18-120-36/40-B	120 mm	
HB-HB18-130-36/40-B	130 mm	
HB-HB18-140-36/40-B	140 mm	
38 cm - HB18 Carbon One Piece Handlebar and Stem		
HB-HB18-90-38/42-B	90 mm	38 cm (42 cm at drops)
HB-HB18-100-38/42-B	100 mm	
HB-HB18-110-38/42-B	110 mm	
HB-HB18-120-38/42-B	120 mm	
HB-HB18-130-38/42-B	130 mm	
HB-HB18-140-38/42-B	140 mm	
HB-HB18-150-38/42-B	150 mm	
40 cm - HB18 Carbon One Piece Handlebar and Stem		
HB-HB18-100-40/44-B	100 mm	40 cm (44 cm at drops)
HB-HB18-110-40/44-B	110 mm	
HB-HB18-120-40/44-B	120 mm	
HB-HB18-130-40/44-B	130 mm	
HB-HB18-140-40/44-B	140 mm	

FRAME AND COMPONENT PREPARATION



⚠ WARNING
Hold the frame using a secured seatpost only. Clamping the top tube can damage the frame and void your warranty.

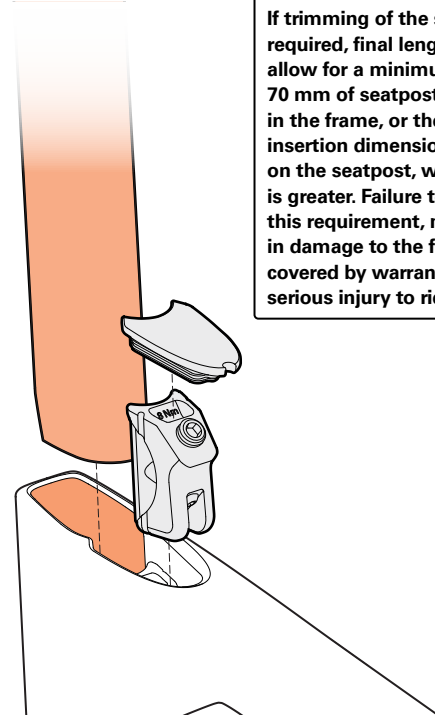
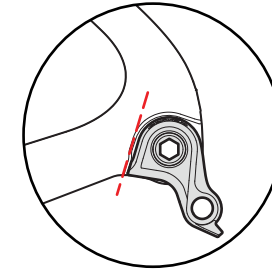


1. Apply carbon assembly compound to the frame and the seatpost shaft to be inserted into the frame.
2. Insert the seatpost and Seatpost Clamp Assembly 108 (SPC-108) into the frame.
3. Adjust height and torque the Seatpost Clamp 108 to 8 N·m maximum.
4. Press fit the Seatpost Clamp Cover 110 (SPCC-110) into the frame to finish.

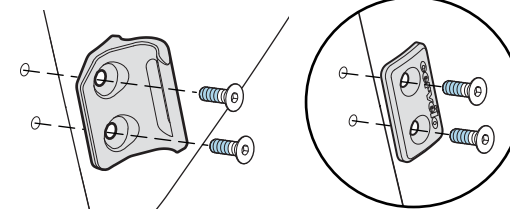
● Carbon Assembly Compound

⚠ WARNING

If trimming of the seatpost 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 to rider.

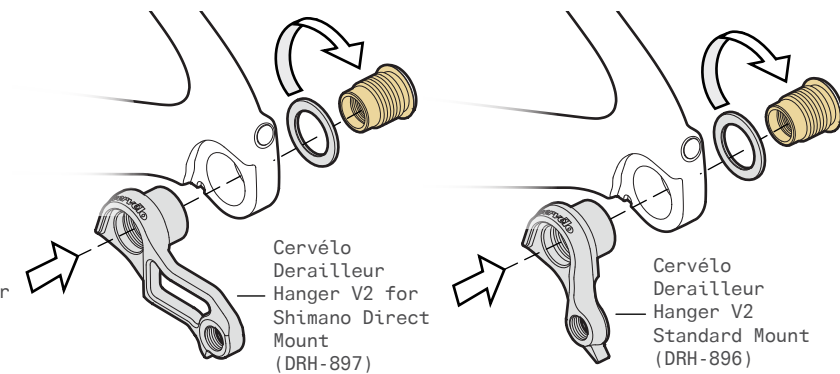


Ensure that the Deraillleur Hanger V2 (Shimano Direct Mount or Standard Mount) is completely seated in the hanger pocket.



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

● ThreadLocker

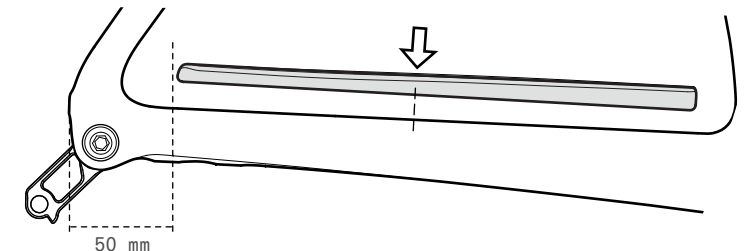


NOTICE: The Deraillleur HangerV2 hanger fixing screws are left-hand threaded.

Install the lightly greased Deraillleur HangerV2 fixing screw through the washer and into the hanger threads. Tighten to 25 N·m.

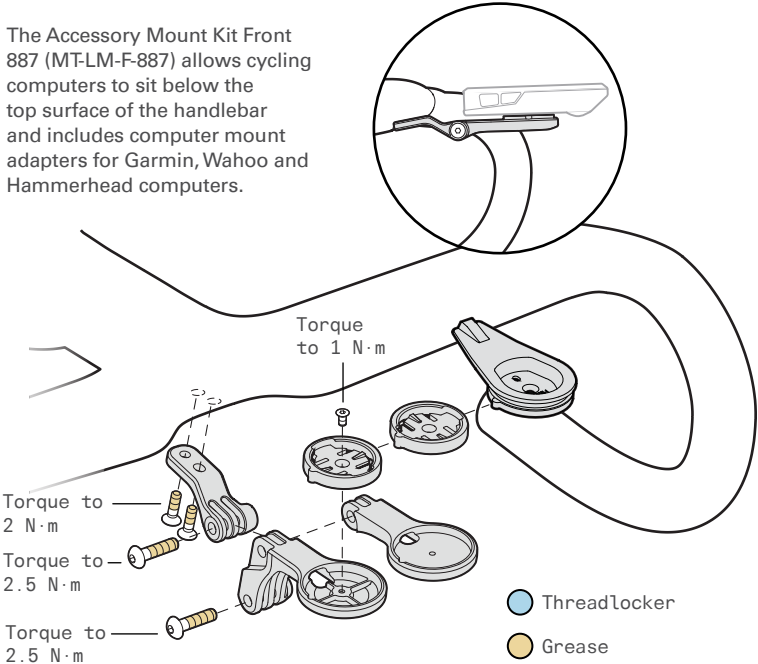
● Grease

Clean the chainstay using isopropyl alcohol. Install the Chainstay Protector (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 edge of the rear dropout.

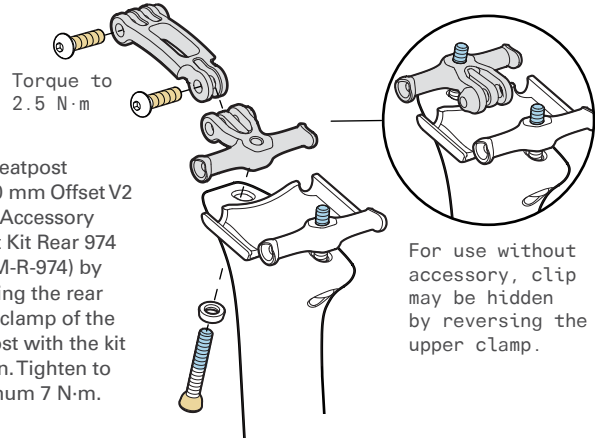


FRAME AND COMPONENT PREPARATION

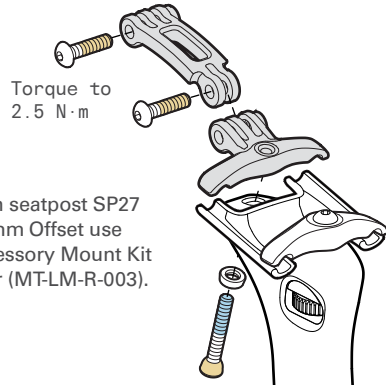
The Accessory Mount Kit Front 887 (MT-LM-F-887) allows cycling computers to sit below the top surface of the handlebar and includes computer mount adapters for Garmin, Wahoo and Hammerhead computers.



With seatpost SP27 0 mm Offset V2 install Accessory Mount Kit Rear 974 (MT-LM-R-974) by replacing the rear upper clamp of the seatpost with the kit version. Tighten to maximum 7 N·m.



With seatpost SP27 15 mm Offset use Accessory Mount Kit Rear (MT-LM-R-003).



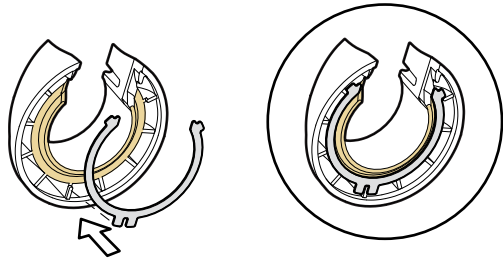
BEARING TOP CAP KIT 997

The BC-997 headset allows for the installation or removal of the Bearing Top Cap without the need to disconnect the brake lines.

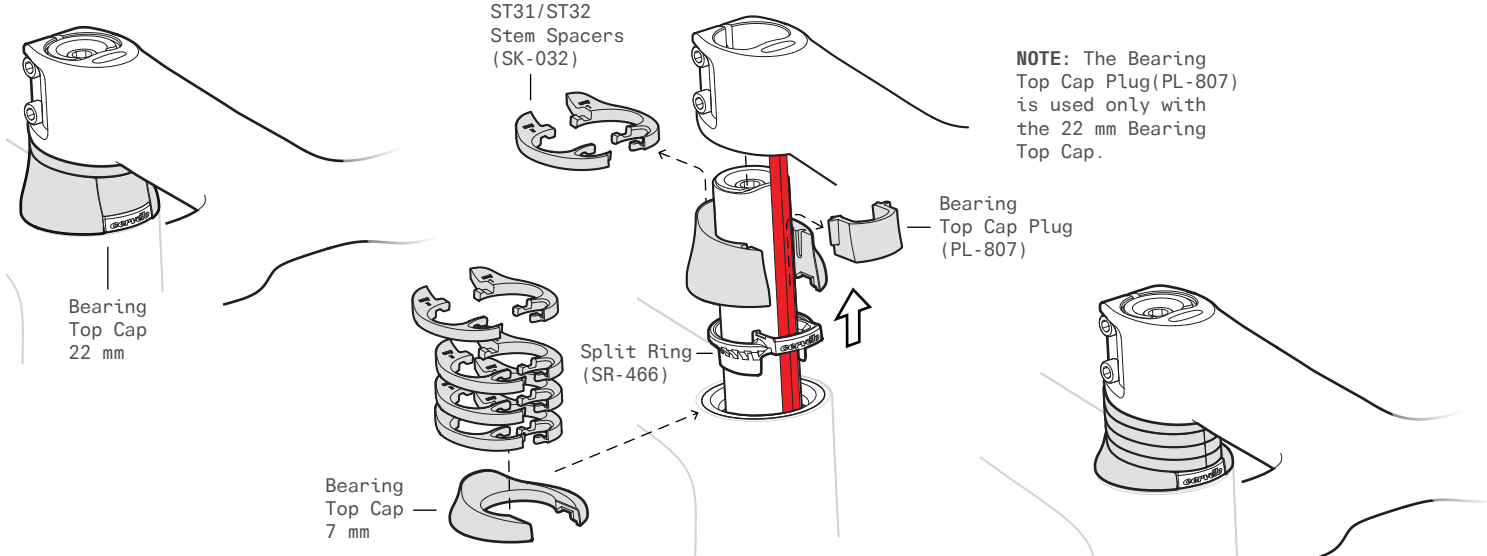
To switch between the 22 mm and 7 mm Bearing Top Caps, you will need to remove the stem from the fork steerer. This may require you to temporarily remove and then reinstall the brake calipers to create extra slack for the brake lines.

If there is contact between the Bearing Top Cap (BC-997) and the frame, apply grease to the underside of the Bearing Top Cap and install the required number of Micro Shims (HS-865).

Grease



NOTE: The Bearing Top Cap Plug (PL-807) is used only with the 22 mm Bearing Top Cap.



FORK PREPARATION AND INSTALLATION

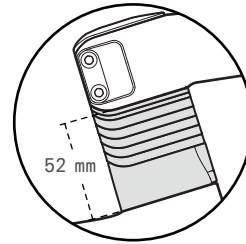
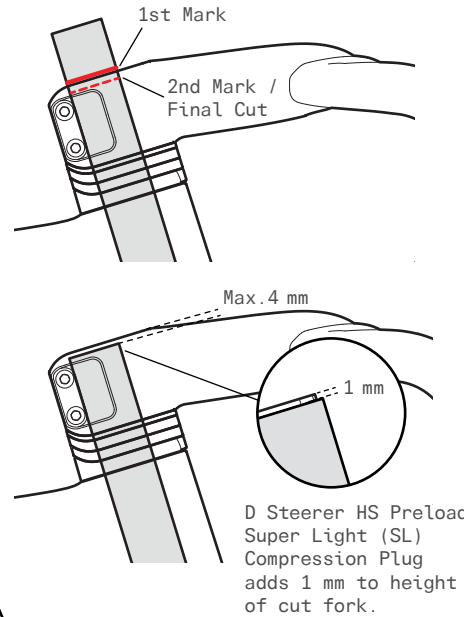
1. Apply grease to the bearing pockets and install the upper and lower headset bearings into the frame.
2. Fit the fork provided with your frame into the head tube with the complete headset, required spacers, and the stem.
3. Apply the minimum pressure needed to ensure the assembly is fully seated. Mark the steerer tube at the top of the stem.
4. Remove fork and clearly mark the fork steerer tube at a point 2 to 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 Carbon One Piece Handlebar 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.

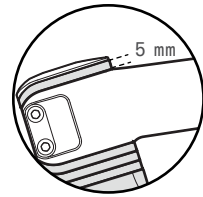
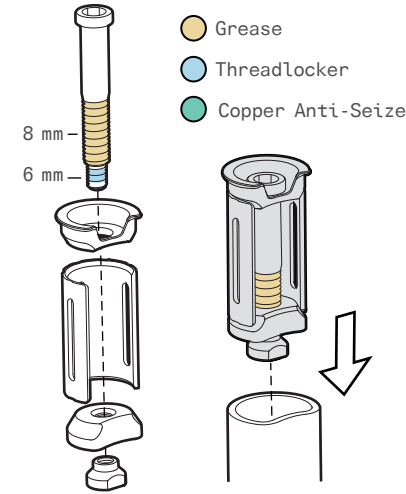
⚠ WARNING
Avoid breathing the dust created during cutting carbon composite materials.

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

⚠ WARNING
Do not exceed 52 mm maximum total spacer height, including the Bearing Top Cap (30 mm Stem Spacers plus 22 mm Bearing Top Cap).

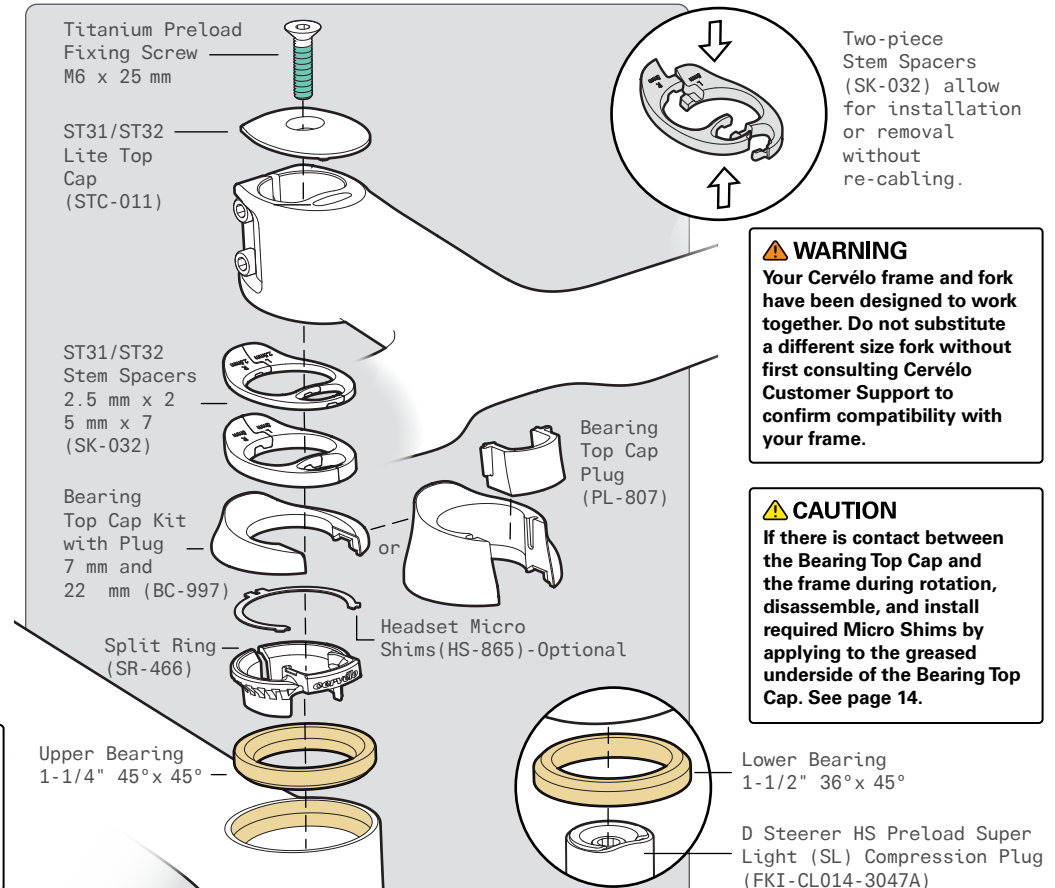


⚠ CAUTION
Do not exceed 5 mm total spacers above the stem.



Add threadlocking compound to the 6 mm threads and grease to the 8 mm threads of the compression plug fixing screw. Assemble and install the D Steerer HS Preload Super Light (SL) Compression Plug (FKI-CL014-3047A) in the fork steerer and lightly tighten. Torque to 8 N·m following stem and spacer installation.

⚠ 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.



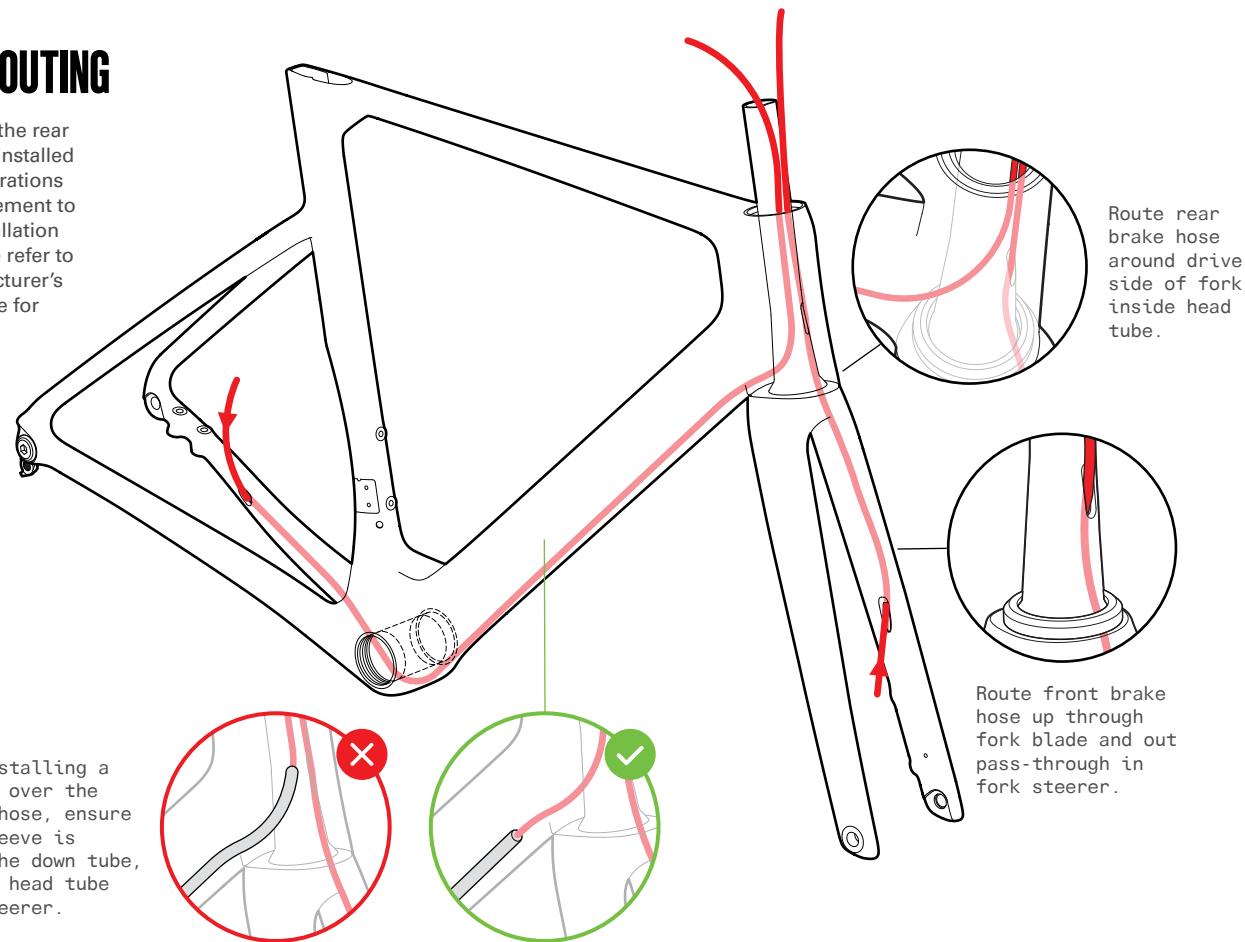
BRAKE HOSE ROUTING

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.

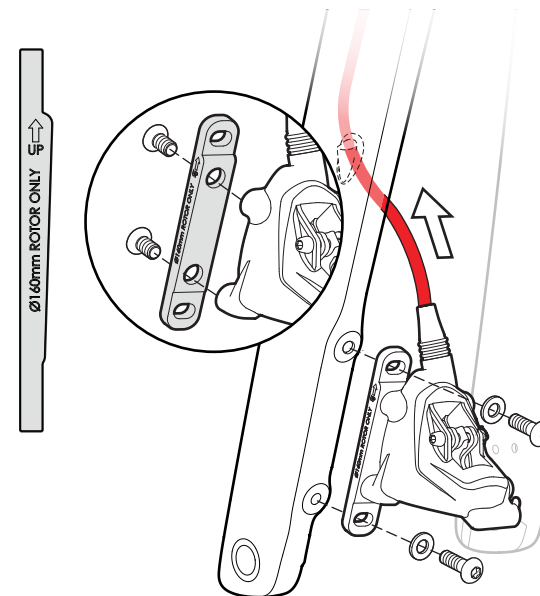
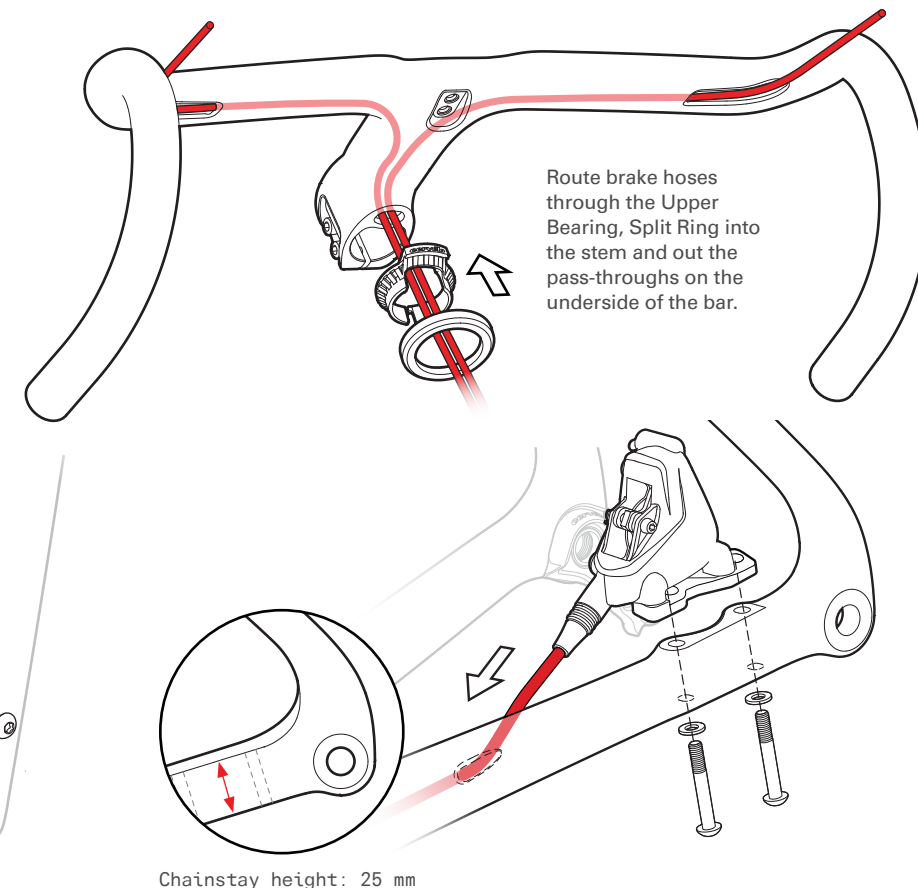
● Brake

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

NOTE: If installing a foam sleeve over the rear brake hose, ensure that the sleeve is placed in the down tube, free of the head tube and fork steerer.



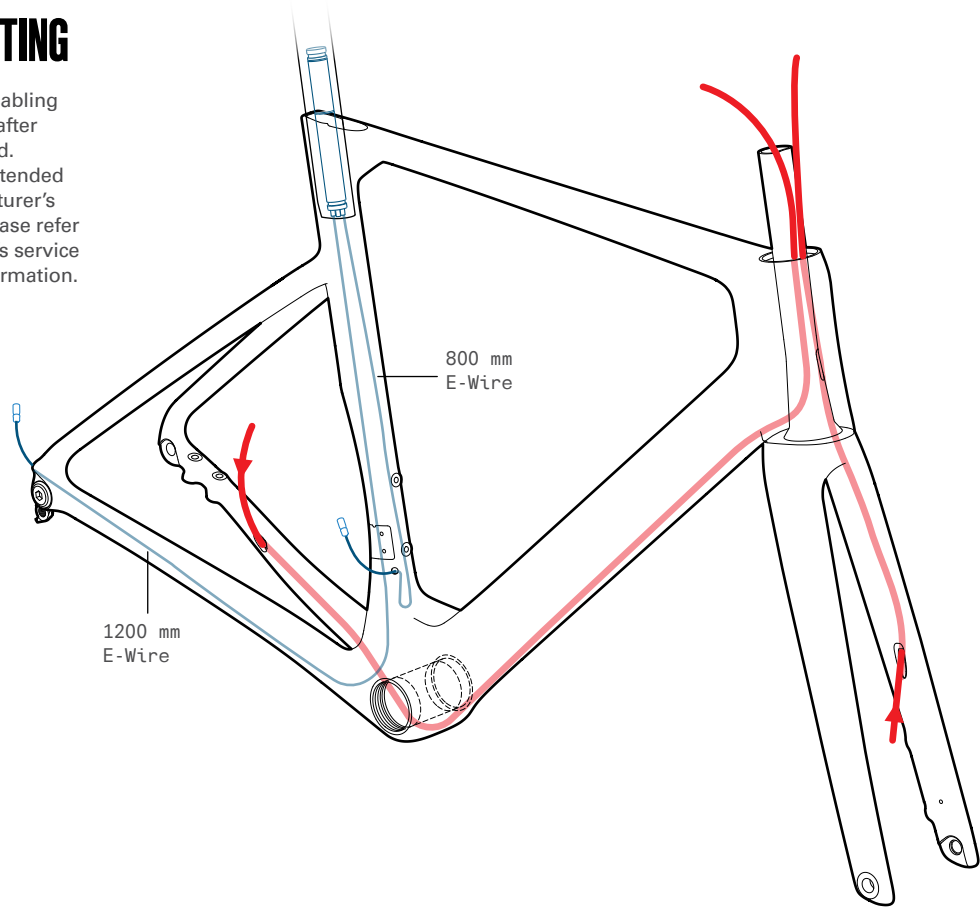
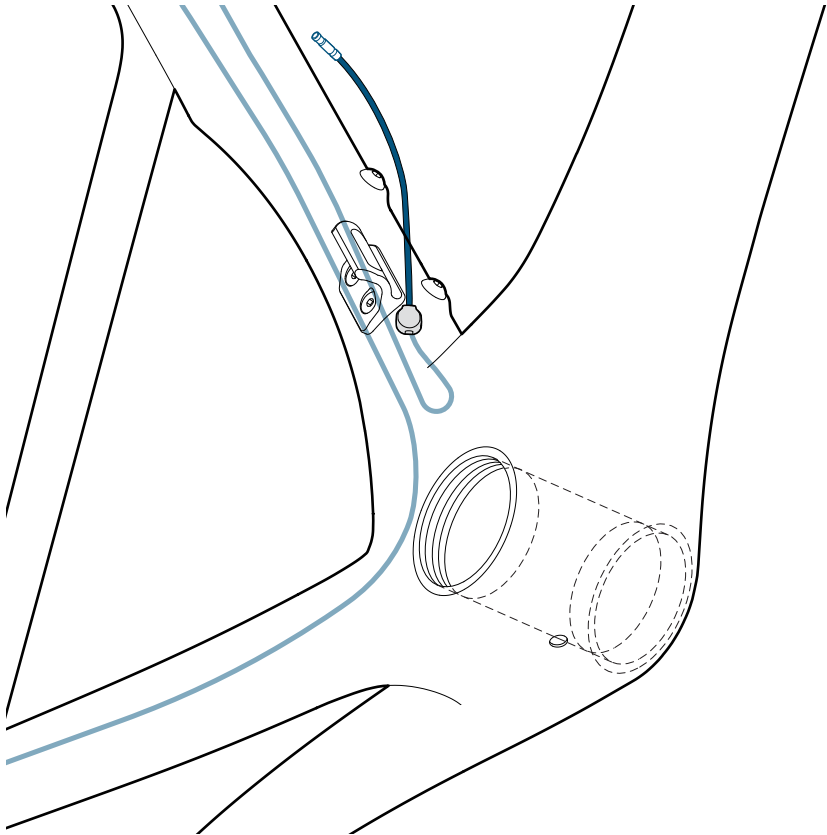
NOTICE: All front brake calipers must be installed using the Front Brake Mounting Plate 004 (BRP-3004). For use with 160 mm rotors only.



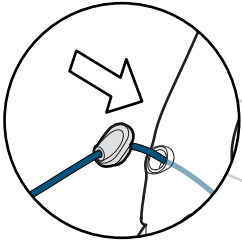
ELECTRIC WIRE ROUTING

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.

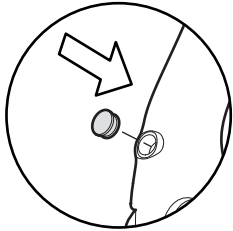
- Brake
- E-Wire(SD300)



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



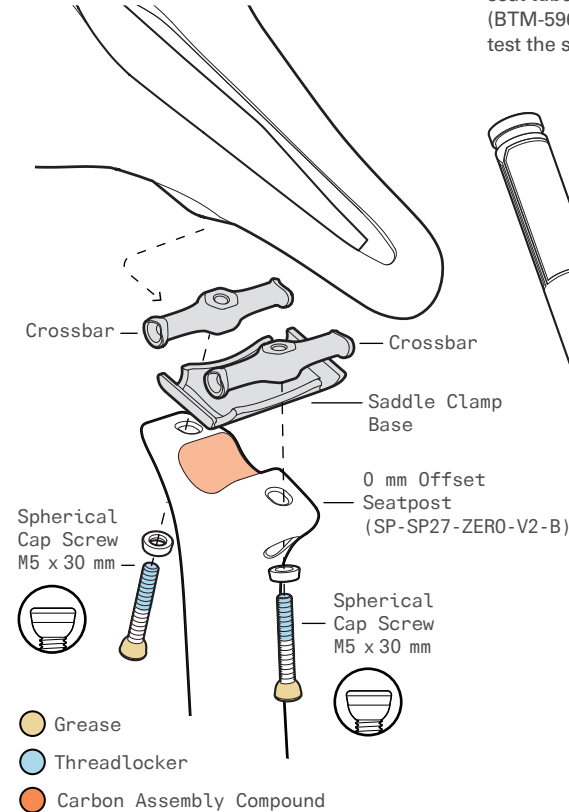
For wireless shifting systems install the Blanking Plug (GR-576).



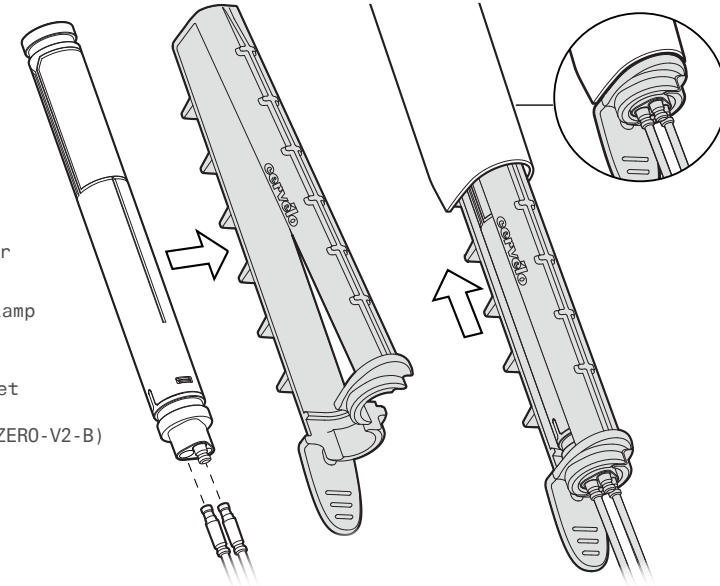
SP27 SEATPOST ASSEMBLY

SP27 0 mm Offset V2

1. Apply threadlocking compound to the initial threads of the titanium 30 mm Spherical Cap Screws.
2. Coat the upper face of the Seatpost with carbon assembly compound.
3. Lightly grease the curved outside surfaces of the 30 mm Spherical Cap Screw heads, then install the Spherical Washers with the concave side facing the screw head.
4. Insert the screws and washer through the Seatpost and attach the Crossbars.
5. Position the saddle rails between the Crossbars and Saddle Clamp Base on the Seatpost. Tighten alternating 1/2 turns on each side to a maximum of 7 N·m.



The battery for your Shimano Di2 system mounts inside the seat tube using the SP27 Seatpost Internal Battery Mount (BTM-596). As this is an enclosed location, it is important to test the system prior to final installation.

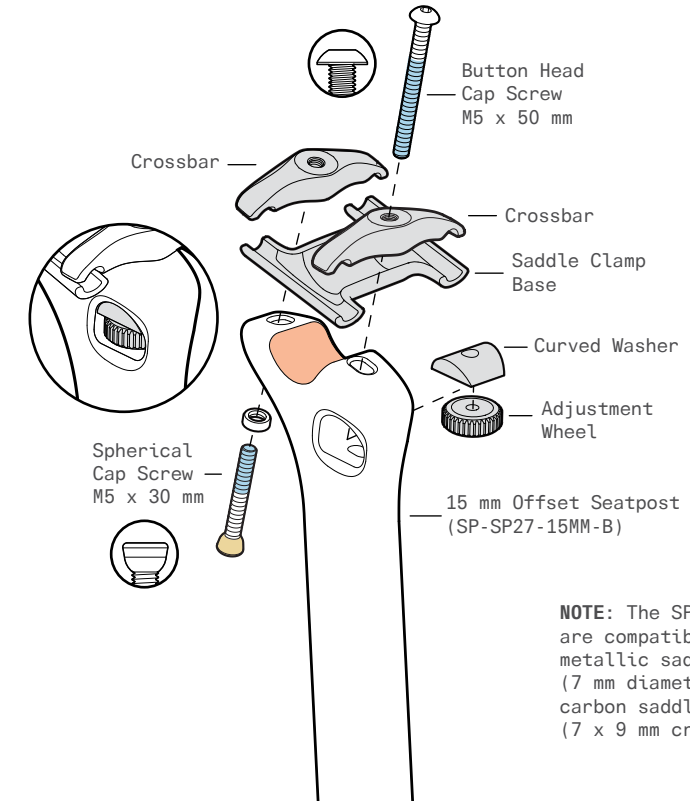


Place the battery into the SP27 Seatpost Internal Battery Mount (BTM-596) and attach the E-wires according to manufacturer instructions.

Insert the assembled battery and holder into the seatpost.

SP27 15 mm Offset (Aftermarket Only)

1. Apply threadlocking compound to the initial threads of the 50 mm Button Head Cap Screw and 30 mm Spherical Cap Screw.
2. Assemble the Crossbar with the 50 mm Button Head Cap Screw and tighten.
3. Place the curved washer and adjustment wheel in the Seatpost cutout, then install the Button Head Cap Screw and turn the wheel until threads engage.
4. Lightly grease the curved outside surface of the 30 mm Spherical Cap Screw head, then install the Spherical Washer with the concave face facing the screw head.
5. Insert the 30 mm Spherical Cap Screw and Spherical Washer into the rear pass-through on the Seatpost, then attach the Crossbar.
6. Apply a light coat of carbon assembly compound to the Seatpost's upper face and install the Saddle Clamp Base.
7. Position the saddle rails between the clamping surfaces and adjust the saddle angle using the wheel.
8. Tighten the angle adjusting screws to 7 N·m to secure the saddle.



NOTE: The SP27 seatposts are compatible with both metallic saddle rails (7 mm diameter) and carbon saddle rails (7 x 9 mm cross section).

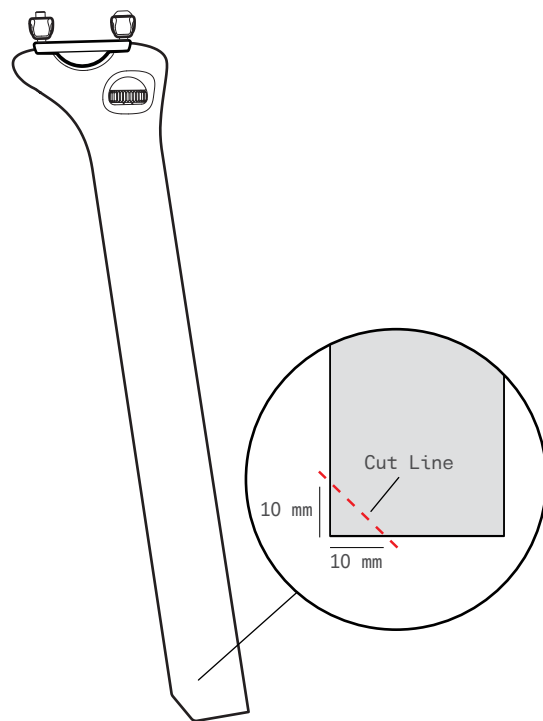
SEATPOST CUTTING INSTRUCTIONS

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 70 mm and maximum of 85 mm, carefully measure and use a light colored grease pencil to accurately mark the cut-off location on the seatpost.
2. Insert the 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 100 mm from the cut end.
5. With a grease pencil, mark a point 10 mm from the cut end on the trailing edge of the Seatpost, and another 10 mm 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.

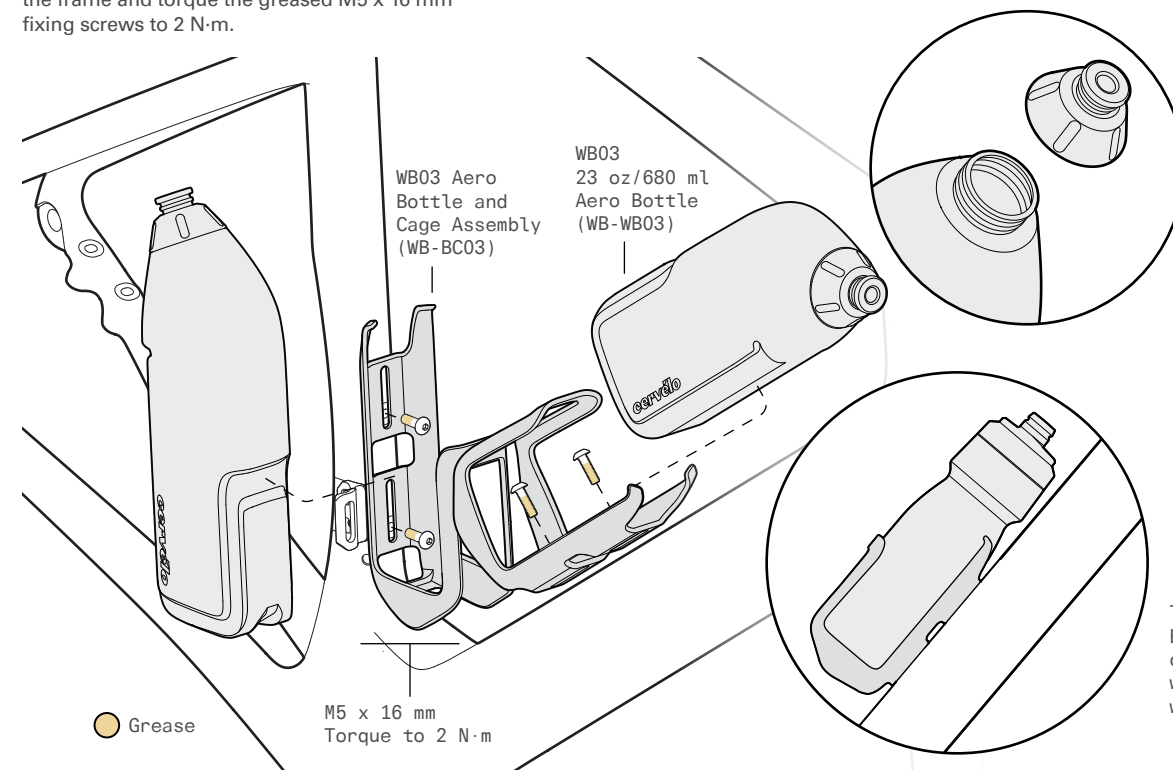
⚠ WARNING

If trimming is required, final length should allow for a minimum 70 mm 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.



AERO WATER BOTTLE AND CAGE

Attach Aero Water Bottle Cage (WB-BC03) to the frame and torque the greased M5 x 16 mm fixing screws to 2 N·m.

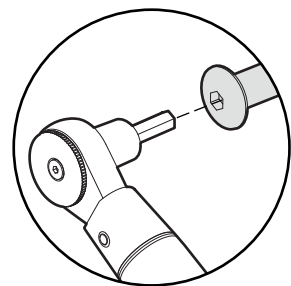


To clean the WB03 Aero Water Bottle (WB-WB03), open the cap valve and remove it from the bottle. Wash both the bottle and cap with warm, soapy water using a bottle brush. Bottle cleaning tablets may be used for added convenience. Rinse thoroughly and allow both the bottle and cap to air-dry completely. For best results, clean immediately after riding.

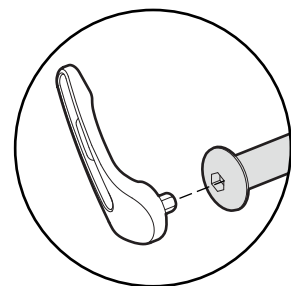
NOTE: Cleaning the WB03 Aero Water Bottle in a dishwasher is not recommended.

The WB03 Aero Water Bottle Cage is compatible for use with standard round water bottles.

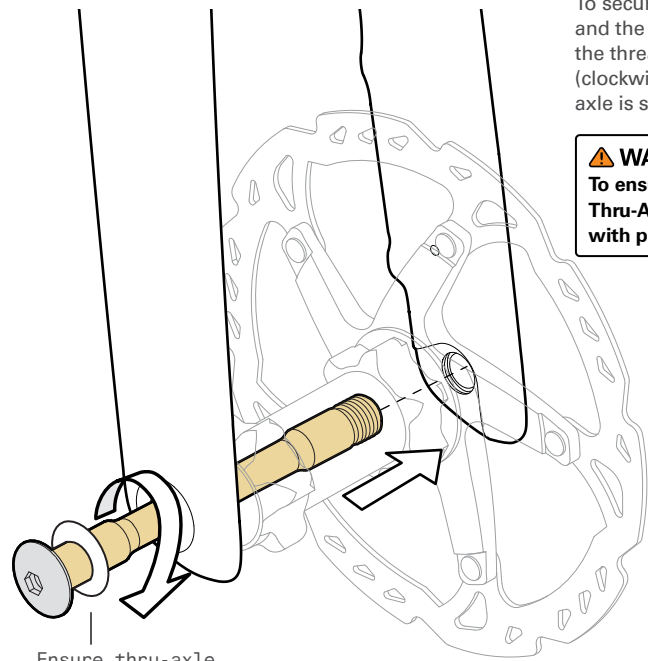
AERO THRU-AXLE INSTALLATION



6 mm Allen key /
torque wrench
or



Cervélo Front Aero
Thru-Axle V2 with
Removable Handle
(QRA-882)



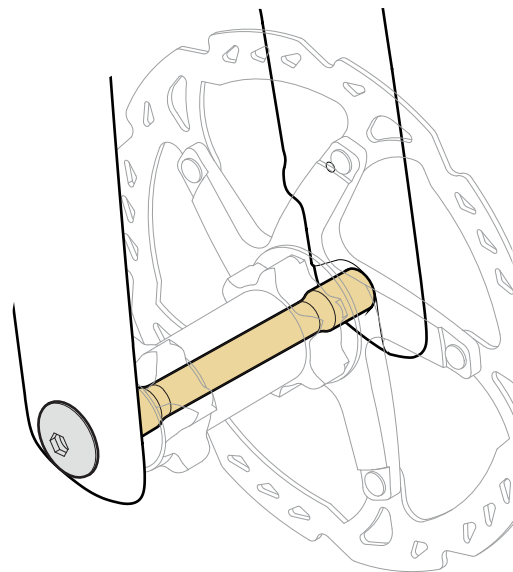
Ensure thru-axle
washer is present
for installation.
Tighten front axle
to 12-15 N·m.

 Grease

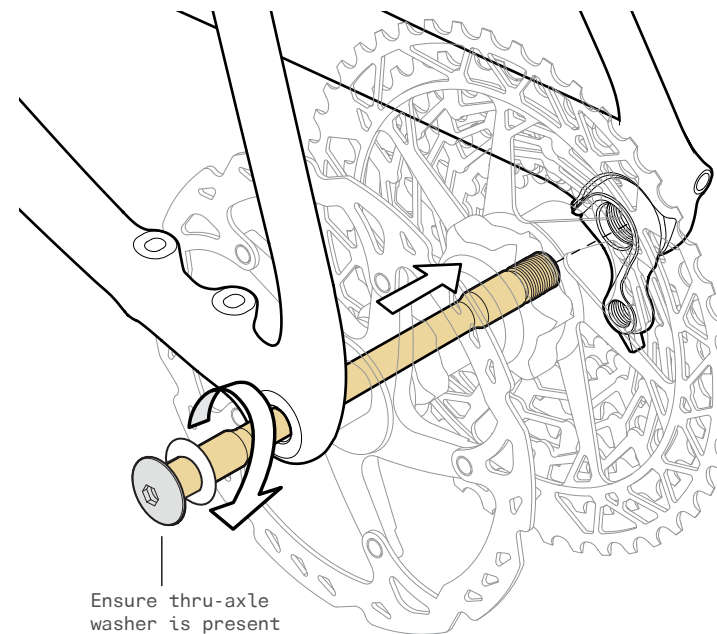
To secure wheels, install the greased axle through the drop out and the wheel hub, aligning the threaded end of the axle with the threaded insert. Once aligned and engaged, thread the axle (clockwise) into the threaded component of the insert until the axle is secured tightly to 12-15 N·m.

⚠ 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.



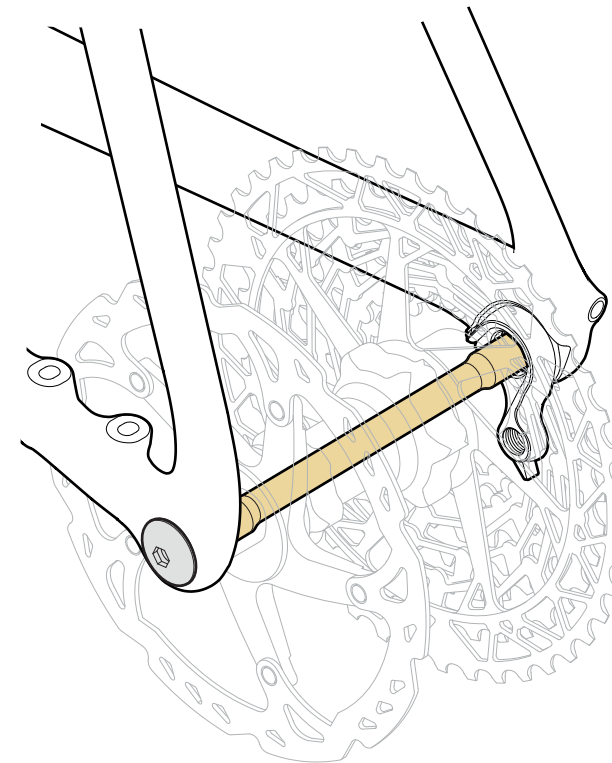
Cervélo Road UDH Rear Aero
Thru-Axle with Removable
Handle (QRA-698)



Ensure thru-axle
washer is present
for installation.

Tighten front axle
to 12-15 N·m.

 Grease

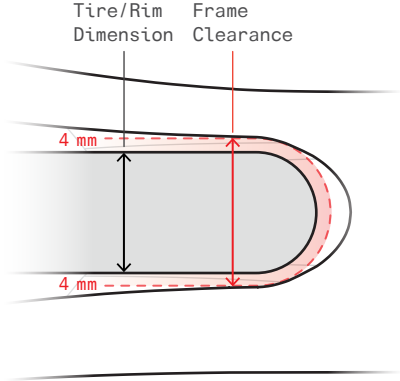


TIRE CLEARANCE AND PRESSURE

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.

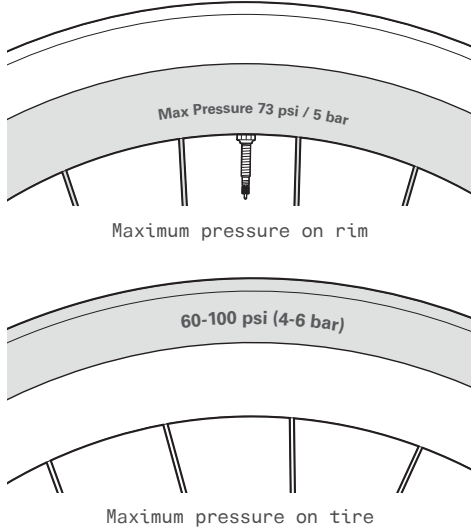
1. Measure the space between the chainstays at the bottom bracket junction.
2. Measure the space between the seatstays at the top of the tire.
3. Using the smaller of those two numbers (Frame Clearance), subtract 8 mm (4 mm per side) to determine the maximum Allowable Tire/Rim Dimension.
4. With the 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.

 **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.



 **WARNING**
In the event of a puncture, stop as quickly as possible and change the wheel or repair the puncture where feasible. Punctured tires can lose pressure rapidly, and riding on a punctured tire can cause you to lose control and fall.

 **WARNING**
A tire should not be inflated beyond the lower of the maximum inflation pressures marked on the tire sidewall and on the wheel rim that correspond to your wheel setup (tubed or tubeless). The lower of these pressures defines the safe maximum inflation pressure limit for this system when properly assembled. Exceeding the safe inflation pressure may blow the tire off the rim, which could cause damage to the bike and injury to the rider and bystanders.



INTENDED USE OF THE SOLOIST 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 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 Soloist

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.

SOLOIST 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

make these adjustments as they have the correct tools and experience to do it properly.

Prior to assembling and tightening any fasteners, all threads must be properly treated as directed: **Steel fixing screws must be prepared using either grease (Park Tool HPG-1 or equivalent) or threadlocker (Loctite 243 or equivalent). Titanium fixing screws must be prepared using threadlocker or anti-seize. Take care to ensure the specified coatings are kept separate and do not come into contact or mix.** 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/paste (Dynamic Carbon Assembly Paste 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.

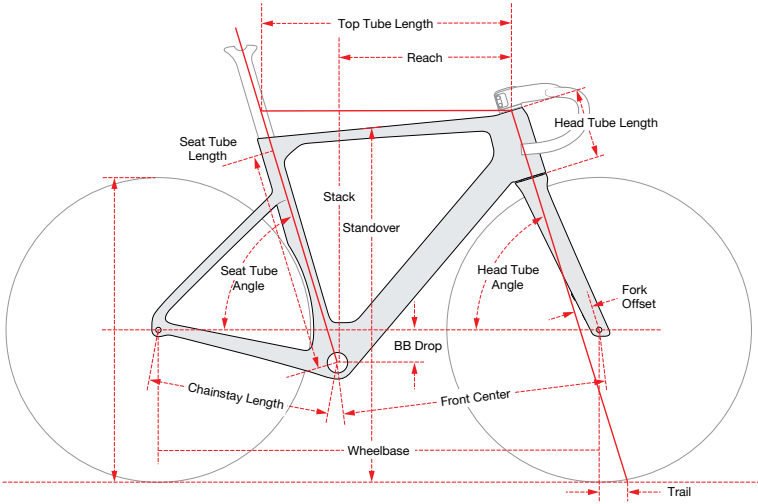
**WARNING**
In case of a disagreement or a conflict between the following list and any supplier literature on recommended torque values for original equipment components, please contact Cervélo Customer Support for review and clarification of the required torque prior to installation.

Component	Torque(N·m)	Notes
Frame		
Bottom bracket- T47 BBright (T47A) threaded	35 to 50 N·m	Clean and grease the BB shell threads inside the frame. Grease the outside threads of the BB cups.Thread both sides of the BB cups into the frame- noting that the right side cup is reverse threaded. Using a torque wrench and the appropriate adaptor, tighten both sides to the specified torque until they are flush with the frame.
Cervélo derailleur hanger V2 (Standard and direct mount for Shimano for UDH frames)	25 N·m	Apply grease to both the thru-axle threads and Cervélo Derailleur Hanger v2 fixing screw. Rotate the hanger toward the front of the bike before tightening. The Derailleur Hanger v2 hanger fixing screws are left-hand threaded.
Front derailleur mount / FDM blanking plate	3 N·m	Apply Loctite 243 to fixing screws if not already present.
Water bottle cage fixing screws	2 to 3 N·m	Lightly grease the fixing screws.

Component	Torque(N·m)	Notes
Fork		
Fork steerer compression plug	8 N·m	Lightly grease the 8 mm section of the fixing screw and tighten to recommended torque.
HB18 Carbon One Piece Handlebar and Stem		
Stem to fork steerer tube	5 N·m	Apply anti-seize compound to titanium to fixing screws, then evenly and alternately tighten to recommended torque.
Accessory mount- front	2 N·m	Lightly grease the fixing screws.
Brake/shift levers (to handlebar)	6 to 8 N·m	Refer to manufacturer's instructions for installation of brake/shift levers.
Seatpost Clamp (frame to seatpost)		
Wedge clamp	8 N·m	Use carbon assembly compound between the seatpost and the frame; grease the sliding surfaces between the wedge and clamp body.
Saddle (seatpost head bolts) – SP27 Carbon 0 mm Offset V2		
2 bolt head	7 N·m	Apply Loctite 243 to titanium screw threads. Lightly apply carbon assembly compound to the Seatpost's upper face and install the Saddle Clamp Base. Lightly grease the curved outside surface of the 30 mm Spherical Cap Screw heads.
Wheels		
Cervélo aero thru-axle / 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.
Other		
Pedals	30 to 35 N·m	Refer to manufacturer's instructions.

SOLOIST FRAME GEOMETRY

Soloist (FM161)	48 cm	51 cm	54 cm	56 cm	58 cm	61 cm
Reach mm	368.7	376.5	383.3	391.1	400.3	408.3
Stack Reach mm	496.1	520.2	544.6	567.5	590.7	610.7
Bottom Bracket Drop mm	76.5	76.5	74	74	71.5	71.5
Chainstay Length mm	410	410	410	410	410	410
Seat Tube Angle	74.5°	74°	73.5°	73°	73°	73°
Head Tube Angle	71°	72°	73°	73°	73°	73°
Fork Length (Axle to Crown) mm	373	373	373	373	373	373
Fork Offset mm	57.5	51.5	45.5	45.5	45.5	45.5
Front Center mm	579.1	579.9	579.5	594.2	610.8	624.8
Head Tube Length mm	89.6	109.3	132	156	182.8	203.7
Wheelbase mm	976.8	977.6	978	992.8	1010.3	1024.5
Standover Height mm	707.6	747.1	773.8	811.6	820.7	839
Seat Tube Length mm	432.2	481.7	507	530.4	553	571.6
Top Tube Length mm	506	526	545	565	581	595



SOLOIST FRAME DETAILS

Soloist (FM161)	
Bike Name	Soloist
Model Year	2027
Serial Number Code	SN161
Frame Code	FM161
Fork Code	FK161
Brake Mount Type	Flat Mount Disc
Chainstay Height (Flat Mount)	25 mm
Frame Sizes (cm)	48/51/54/56/58/61
Wheel Size	700c
BB Type	T47 BBright (T47A) Threaded
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°

* 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.

Soloist (FM161)	
Lower Headset Bearing Dimensions	1-1/2", 40 x 51.8 x 7.5, 36° x 45°
Seatpost	SP-SP27-ZERO-V2-B
Seatpost Clamp	SPC-108
Rear Derailleur Hanger	DRH-896 (Standard)
	DRH-897 (Shimano Direct Mount)
Front Derailleur Hanger	FDM-0E0
Front Thru-Axle Dimensions	122 mm length, M12 x 1.5, for 100 x 12 spacing, 9.5 mm thread length
Rear Thru-Axle Dimensions	169 mm length, M12 x 1, for UDH derailleur hanger, 142 x 12 spacing, 13 mm thread length
Maximum Tire Width (Actual)	36 mm (700c) with 4 mm clearance*

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 protector 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 frame rear triangle. 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. Check that the lighting system and reflectors are in good working order.
 8. Check that the saddle and seatpost are correctly positioned and tightened. The saddle should be aligned with the top tube of the frame.
 9. Check for smooth shifting operation, and adjust if needed.
 10. Check that the pedals and shoes are free of debris that can interfere with the retention system.
 11. 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. Check the battery level in any electronic drivetrain 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.
3. 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.
4. Check that the headset is adjusted correctly, with no play when the front brake is locked. Adjust or overhaul if needed- consult your retailer.

5. Check that the chain is tensioned correctly. Inspect the chain for broken parts, kinks, or rust.
6. Check that the brake pads are not worn (replace if thinner than 1 mm).
7. Check the chainstay guard protector for wear.
8. Check the wheel hubs for smooth operation (not loose or grinding). Adjust or overhaul if needed- consult your retailer.

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.
3. Check tire sealant levels (if running tubeless setup) and replace if dried or thinner than 1 mm.
4. Check the chainstay protector for wear.

Every Year (~6000 miles):

1. Perform an annual service at your retailer: overhaul service and inspection of frame 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
5. Perform brake bleed overhaul as directed by the component manufacturer.

**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.

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.

CERVÉLO CUSTOMER SUPPORT

Contacting Customer Support

Visit 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 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.

2027 SOLOIST RETAILER ASSEMBLY MANUAL

CER-STB-V1 - 2026-01-10

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