

velo

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IMPORTANT INFORMATION

This manual is intended to guide official Cervélo retailers through the assembly and adjustment of the Cervélo Áspero-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 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 Áspero-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.

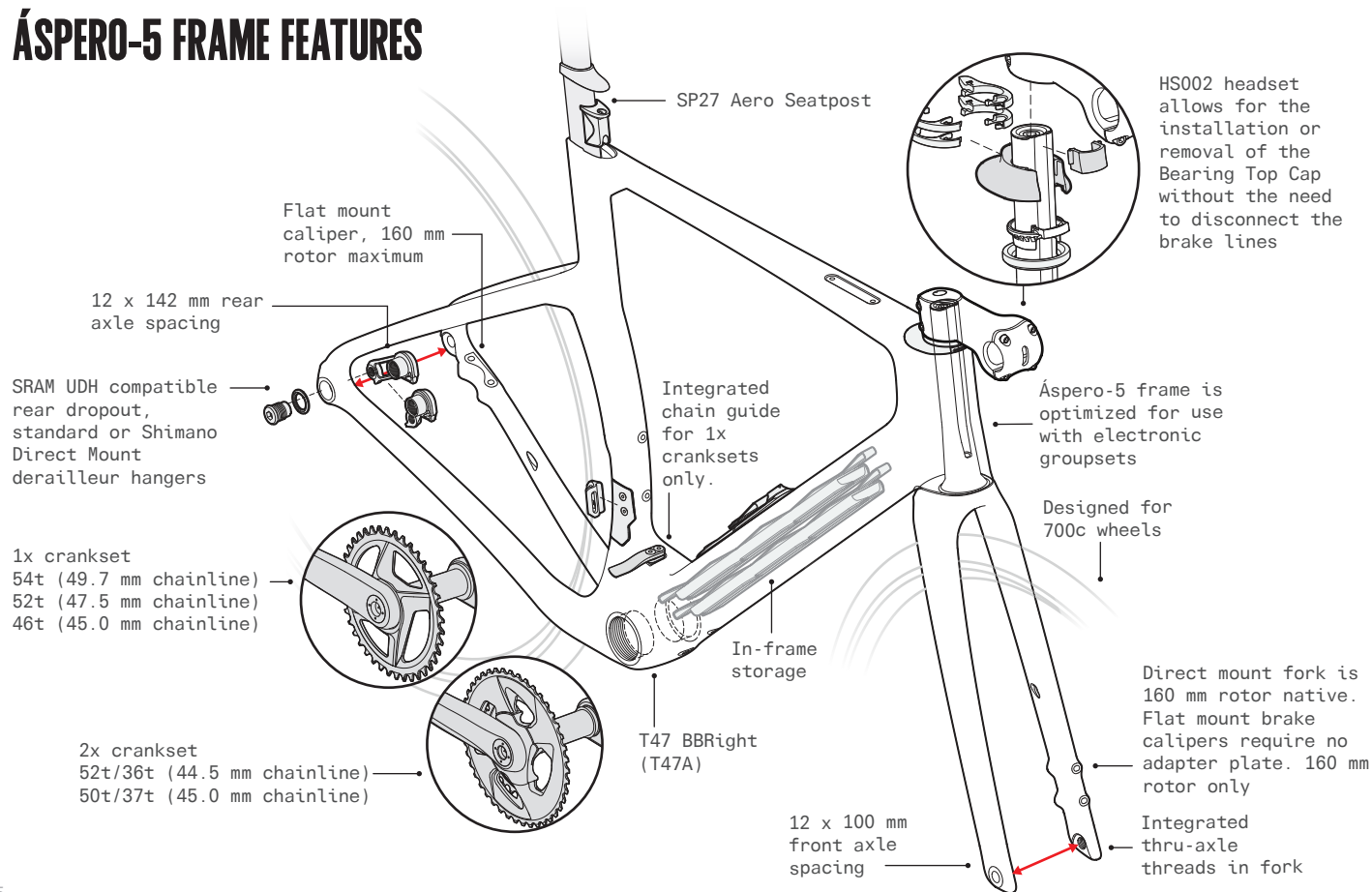
NOTE: All non-proprietary components such as those from Shimano or SRAM are available from your local distributor.

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 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	
	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-7.2 or equivalent)
	Hacksaw (with carbon and aluminum specific blades)

ÁSPERO-5 FRAME FEATURES



ÁSPERO-5 PARTS LIST

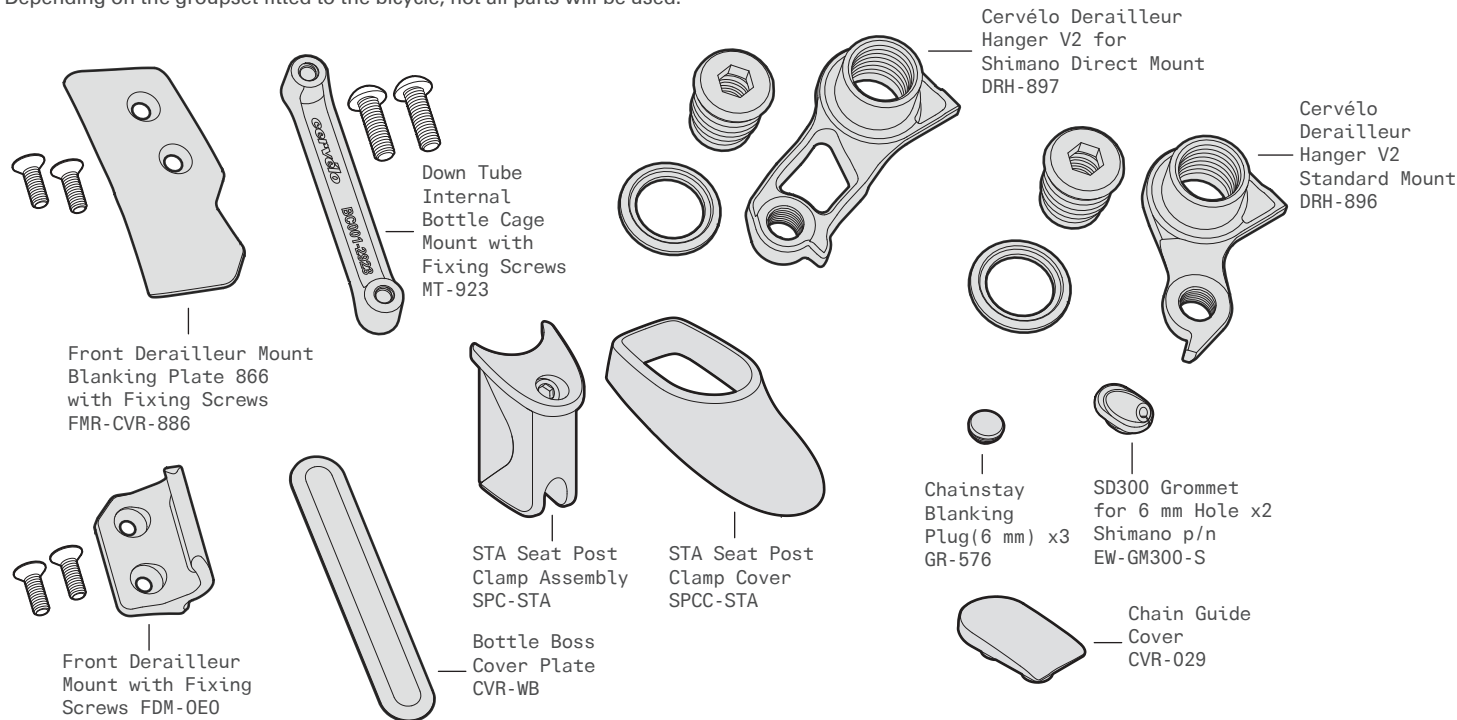
Item Description	Cervélo Part No.
D-Shaped Fork Compression Plug	FKI-CL005-517A
HS002 Headset Split Ring with Micro Shims	SR-466
HS002 Headset Bearing Micro Shim	HS-865
HS002 Headset Bearing Top Cap Kit (22 mm Top Cap with Plug and 7 mm Top Cap)	BC-808
HS002 Headset Bearing Top Cap Plug	PL-807
ST31 / ST32 Stem Spacer Kit (2.5 mm x2, 5 mm x7)	SK-032
Upper Headset Bearing 1-1/4" 45° x 45°	HS-082
Lower Headset Bearing 1-1/2" 36° x 45°	HS-110
Cervélo Front Aero Thru-Axle V2 with Removable Handle	ORA-882
Removable Handle For Cervélo Aero Thru-Axle	ORA-AERO2-HNDL
Cervélo Road UDH Rear Aero Thru-Axle with Removable Handle	ORA-698

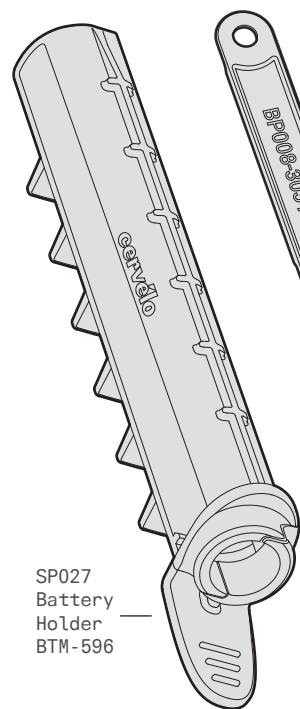
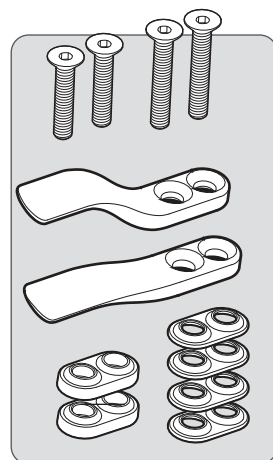
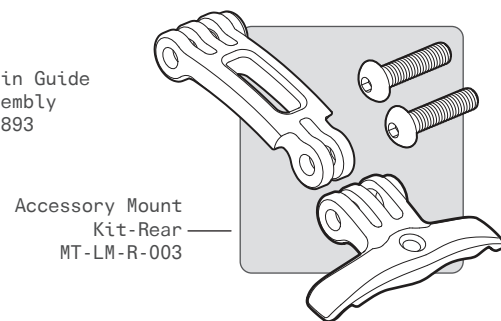
Item Description	Cervélo Part No.
SB05A Down Tube Storage Door with Pull Tab	SB-SB05-DR-V2
SB05A 2.5 mm Storage Door Bottle Cage Spacers	SK-SB05-DR
SB05 In-Frame Storage Rolls	SB-SB05-BG
Down Tube Internal Bottle Cage Mount with Fixing Screws	MT-923
6 mm Blanking Plug	GR-576
Shimano SD300 Grommet for 6 mm Hole	EW-GM300-S
Chain Guide Cover	CVR-029
Integrated Chain Guide Kit	CG-893
Front Derailleur Mount with Fixing Screws	FDM-0E0
Front Derailleur Mount Blanking Plate 866 with Fixing Screws	FMR-CVR-886
Chainstay Protector	PRO-CS-ASP
Cervélo Derailleur Hanger V2 for Shimano Direct Mount	DRH-897
Cervélo Derailleur Hanger V2 Standard Mount	DRH-896

Item Description	Cervélo Part No.
STA Seat Post Clamp Cover	SPCC-STA
STA Seat Post Clamp Assembly	SPC-STA
Smartpak 400 V2 Top Tube Storage Bag	SB-SB05-TT-V2
Smartpak Top Tube Storage Bag Spacer Plate	SPP-031
Bottle Boss Cover Plate	CVR-WB
Accessory Mount Kit - Rear	MT-LM-R-003
Accessory Mount Kit - Front for HB16 Handlebar	MT-LM-F-887
SP027 15 mm Offset Carbon Aero Seatpost	SP-SP27-15MM-B
SP027 0 mm Offset Carbon Aero Seatpost V2	SP-SP27-ZERO-V2-B
SP027 Battery Holder	BTM-596
HB16 Carbon Handlebar	See Page 9
ST31B Carbon Stem	See Page 11

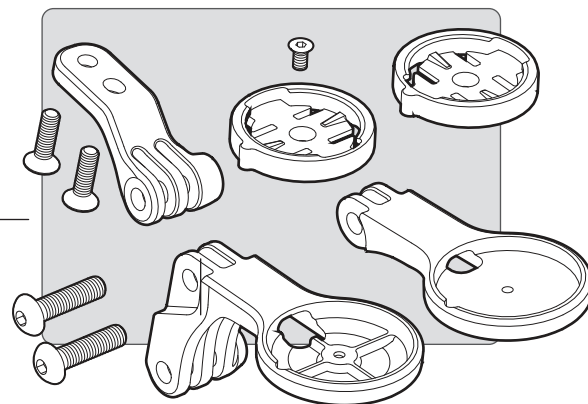
SMALL PARTS

Designed to accommodate electronic and hydraulic controls, the Áspero-5 frame is engineered to provide seamless integration of all compatible shifting systems, regardless of 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.

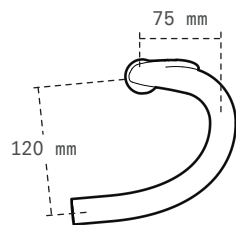
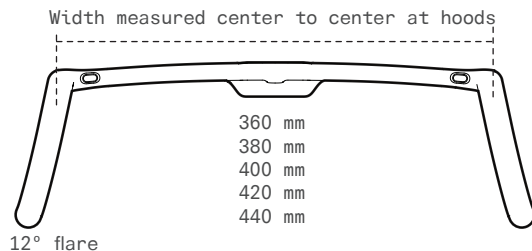
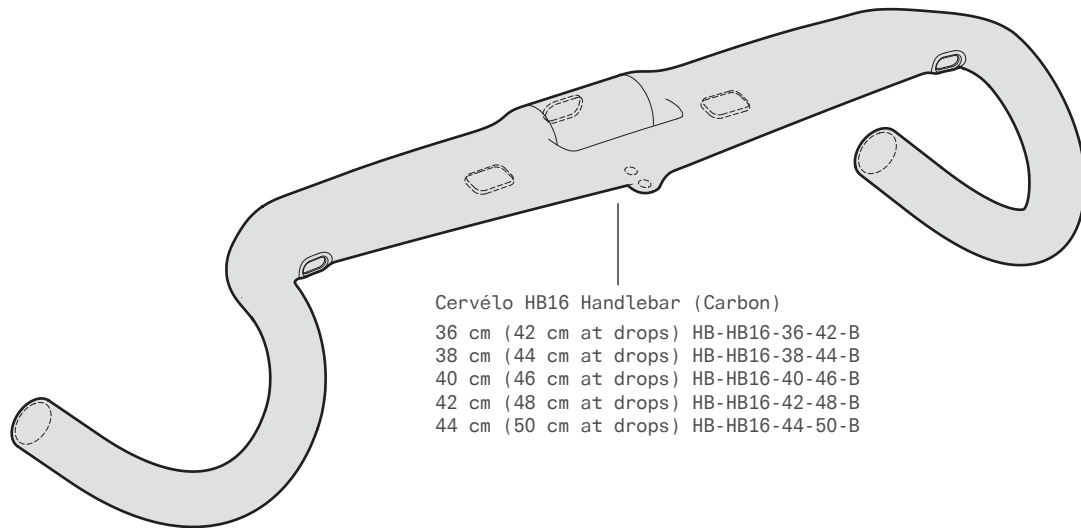




Accessory Mount
Kit-Front for
HB16 Handlebar
MT-LM-F-887

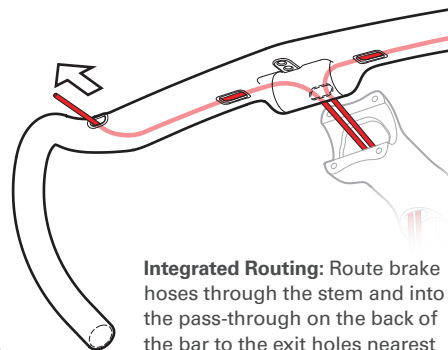


HB16 HANDLEBAR

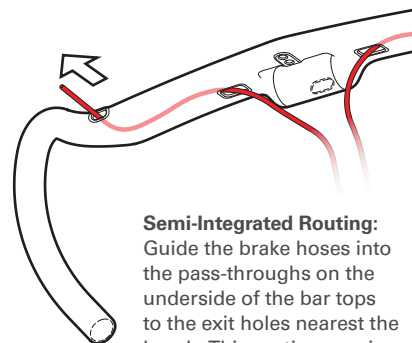


Cervélo HB16 Handlebar (Carbon)

36 cm (42 cm at drops)	HB-HB16-36-42-B
38 cm (44 cm at drops)	HB-HB16-38-44-B
40 cm (46 cm at drops)	HB-HB16-40-46-B
42 cm (48 cm at drops)	HB-HB16-42-48-B
44 cm (50 cm at drops)	HB-HB16-44-50-B



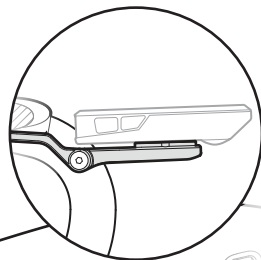
Integrated Routing: Route brake hoses through the stem and into the pass-through on the back of the bar to the exit holes nearest the hoods.



Semi-Integrated Routing: Guide the brake hoses into the pass-throughs on the underside of the bar tops to the exit holes nearest the hoods. This routing requires use of the HS003 Bearing Top Cap Kit (BC-687). See page 12.

The Accessory Mount Kit-Front for HB16 Handlebar (MT-LM-F-887) allows cycling computers to sit below the top surface of the stem and includes computer mount adapters for Garmin and Wahoo computers.

● Grease

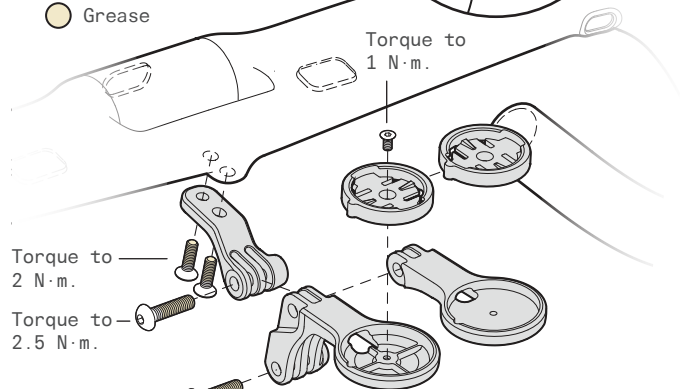


Torque to
1 N·m.

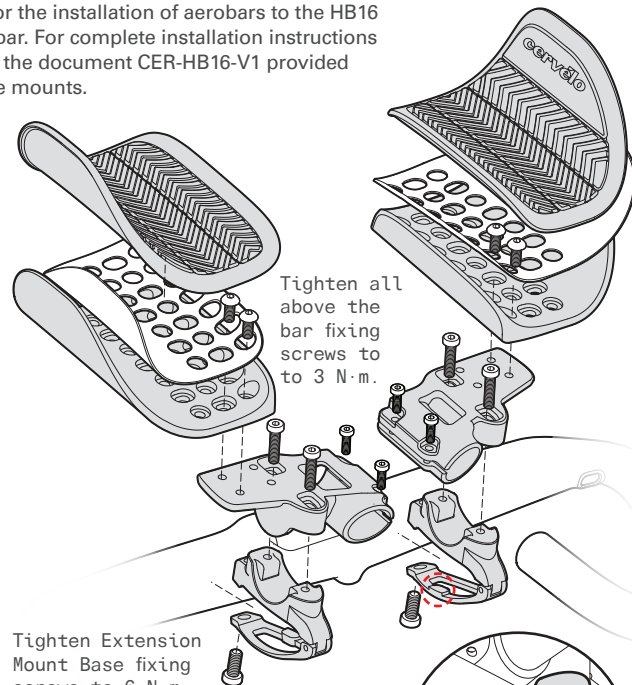
Torque to
2 N·m.

Torque to
2.5 N·m.

Torque to
2.5 N·m.



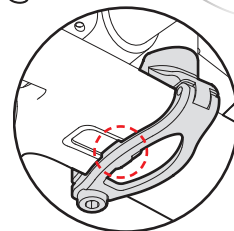
HB16 Extension Mounts (HBP-HB16-EXTMT) allow for the installation of aerobars to the HB16 handlebar. For complete installation instructions refer to the document CER-HB16-V1 provided with the mounts.



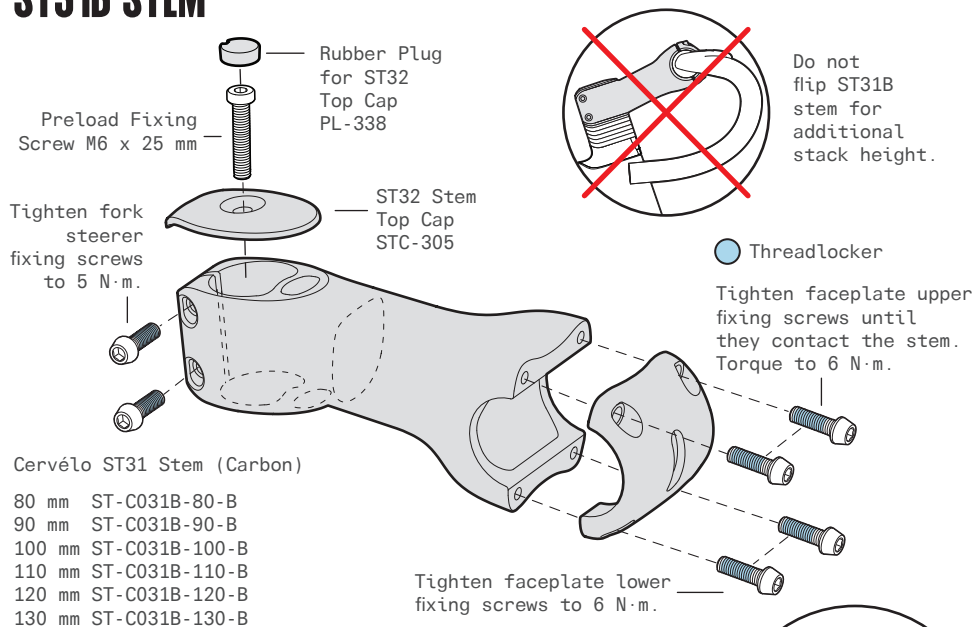
Tighten all
above the
bar fixing
screws to
to 3 N·m.

Tighten Extension
Mount Base fixing
screws to 6 N·m.

The right and left side specific
HB16 Extension Mount Bases
install into the pass-throughs on
the underside of the bar, aligning
to the outside edges.



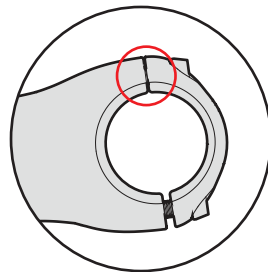
ST31B STEM



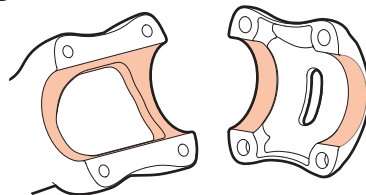
⚠ WARNING

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.

Tighten the top two fixing screws until the faceplate is contacting the stem at the top. Gap should only be visible at the bottom.



● Carbon Assembly Compound



1. With carbon handlebars, apply carbon assembly compound to the surfaces where the stem body and faceplate contact the handlebar clamping area (as shown above).
2. Apply the included threadlocking compound onto the threads of the faceplate fixing screws prior to installation.
3. Center the handlebar against the stem body and secure it in place by mounting the faceplate and tightening the two upper faceplate fixing screws finger-tight.
4. Evenly and alternately tighten the upper faceplate fixing screws until the top of the faceplate is in contact with the top of the stem. Tighten the upper faceplate fixing screws to 6 N·m maximum.
5. Evenly and alternately tighten the lower faceplate fixing screws to 6 N·m maximum. When complete there should be a gap between the bottom of the faceplate and the stem body.
6. Once installation is complete, allow the assembly to set prior to first use.

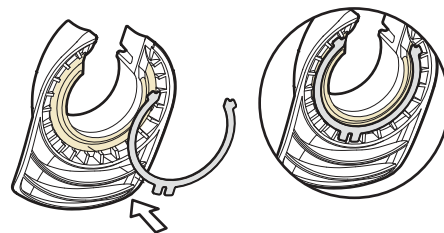
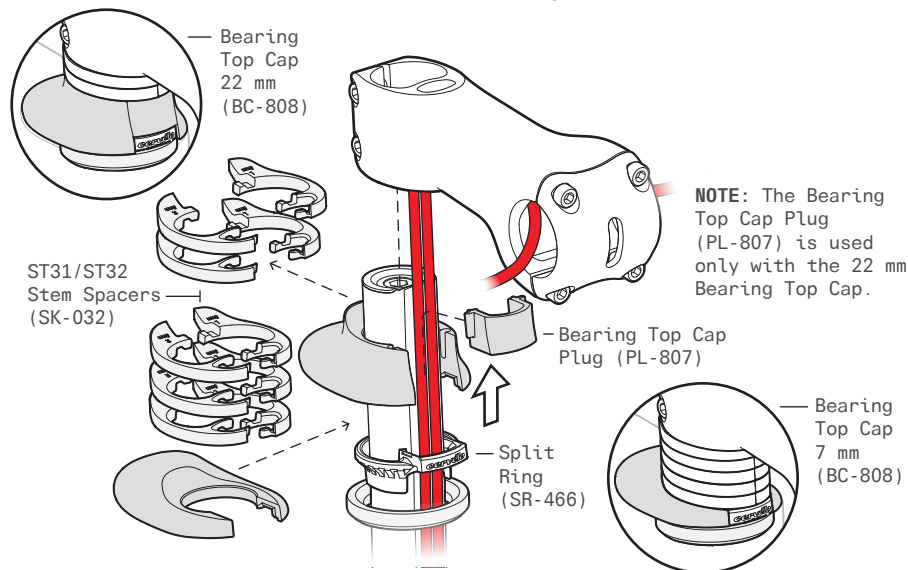
HS002 HEADSET

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

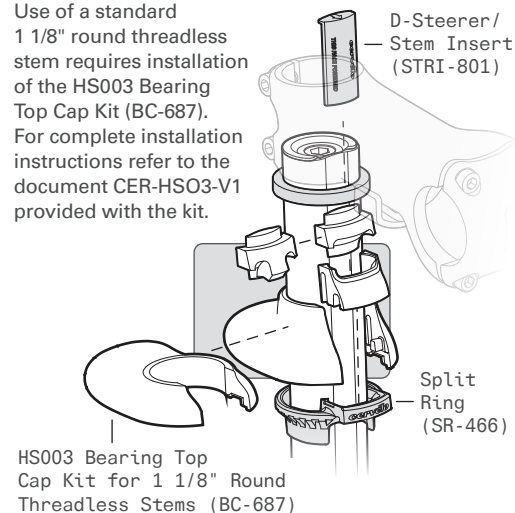
Switching between the 22 mm and 7 mm Bearing Top Caps requires removal of the stem from the fork steerer and, to gain extra slack for the brake lines, may require temporarily uninstalling the brake calipers.

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) to eliminate the contact.

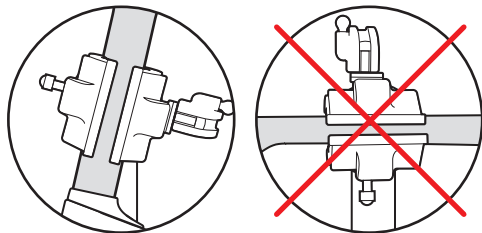
 Grease



Use of a standard 1 1/8" round threadless stem requires installation of the HS003 Bearing Top Cap Kit (BC-687). For complete installation instructions refer to the document CER-HS03-V1 provided with the kit.

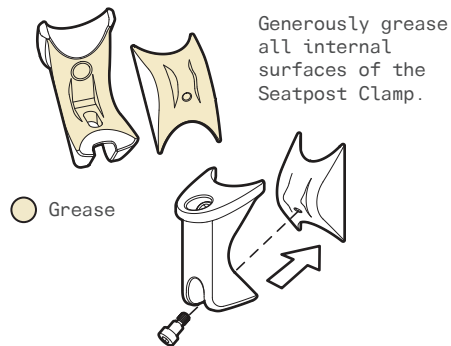


FRAME AND COMPONENT PREPARATION



⚠ WARNING

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

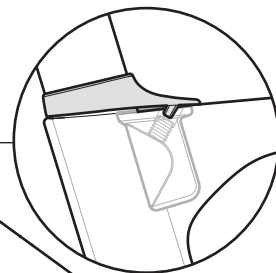


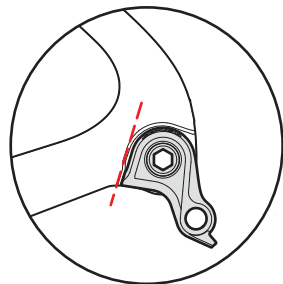
NOTE: Failure to install the Seatpost Clamp Cover may result in seatpost binding due to accumulated debris.

1. Slide Seatpost Clamp Cover onto seatpost.
2. Apply carbon paste to the frame and seatpost shaft to be inserted into the frame.
3. Insert the seatpost and the assembled Seatpost Clamp (SPC-STA) into the frame.
4. Adjust height and torque the Seatpost Clamp to 8 N·m maximum.

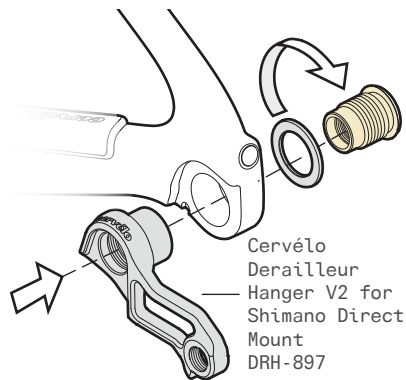
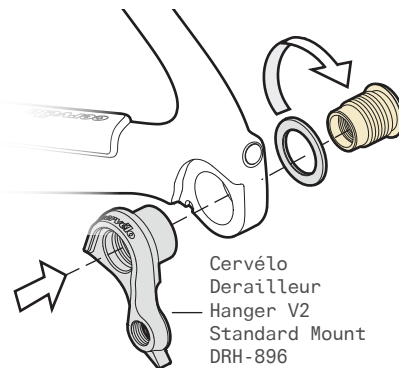
⚠ WARNING

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.





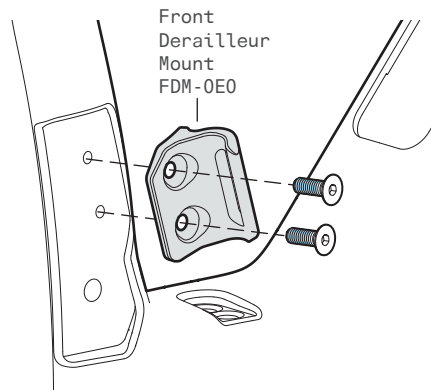
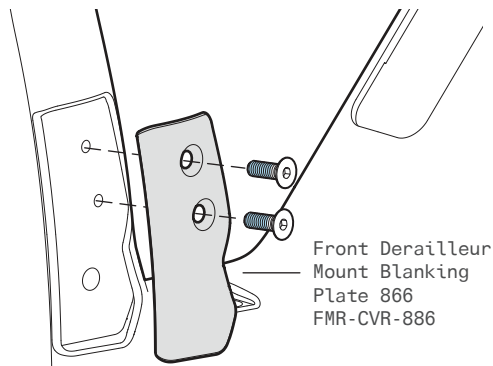
Ensure that the Deraillieur Hanger V2 (Shimano Direct Mount or Standard Mount) is completely seated in the hanger pocket.



NOTE: The Deraillieur Hanger V2 hanger fixing screws are left-hand threaded.

Install the lightly greased Deraillieur Hanger V2 fixing screw through the washer and into the hanger threads. Tighten to 25 N·m.

 Grease

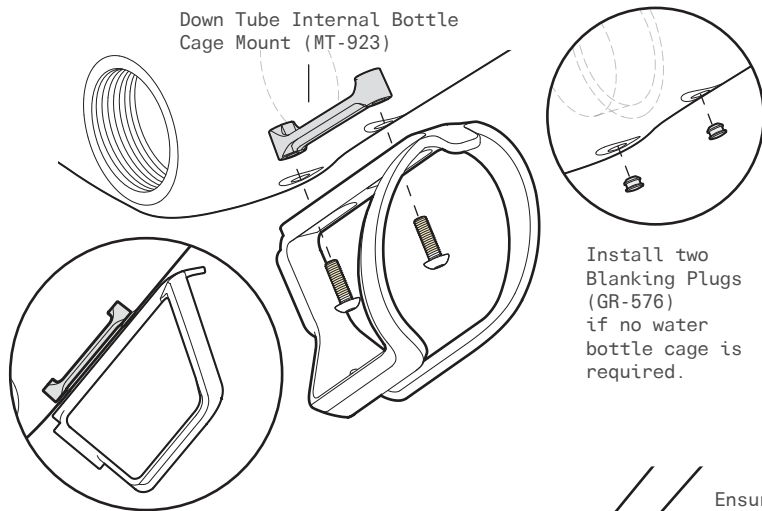


For 2x systems install Front Deraillieur Mount (FDM-0E0), and ensure fixing screws are torqued to 3 N·m.

For 1x systems, replace with the Front Deraillieur Mount Blanking Plate 866 (FMR-CVR-886). Tighten the fixing screws to 1.5 N·m maximum.

 Threadlocker

FRAME AND COMPONENT PREPARATION

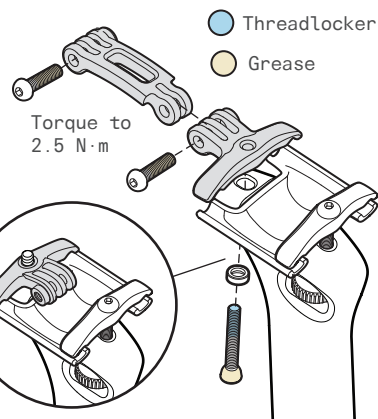
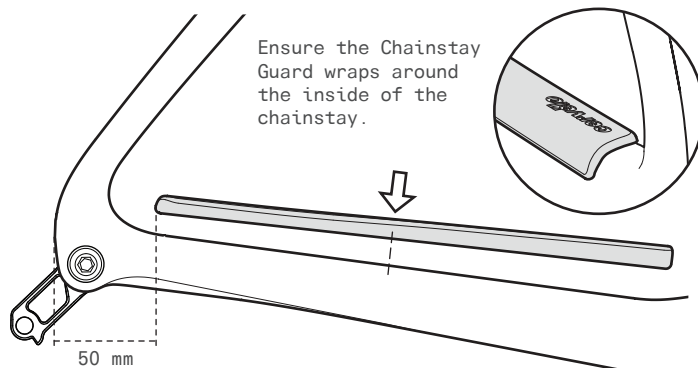


To install a water bottle cage on the down tube, insert the Down Tube Internal Bottle Cage Mount (MT-923) into the frame through the bottom bracket or the internal frame storage opening.

Align with the through holes in the frame and tighten the two lightly greased M5 fixing screws to 2-3 N·m.

Install Accessory Mount-Rear (MT-LM-R-003), by replacing the rear upper clamp of the seatpost with the kit version. Tighten to maximum 8 N·m.

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



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 edge of the rear dropout.

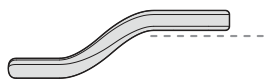
CHAIN GUIDE - 1X CRANKSETS ONLY

1. Identify the number of teeth on the chainring installed on the bicycle. Refer to the table on the right to choose the appropriate guide, its orientation, the number of spacers, and the length of the fixing screws.
2. Apply medium strength threadlocking compound (such as Loctite 243) to the fixing screw threads.
3. Install the guide and spacers, tightening the two M4 bolts in an alternating pattern to 2.5 N·m.
4. With the bike in a stand or the rear wheel elevated, shift the chain to the largest cog on the cassette and spin the cranks forward.
5. Throughout chain rotation there should be a minimum 1 mm gap between the top of the chain and the bottom of the guide.
6. If the gap is less than 1 mm or if you notice contact between the chain and the guide, add an additional 1 mm spacer and re-tighten to 2.5 N·m.
7. If the measured minimum gap is still less than 1 mm, repeat step 6 again.

High-Up Guide Orientation



High-Down Guide Orientation



Low-Up Guide Orientation

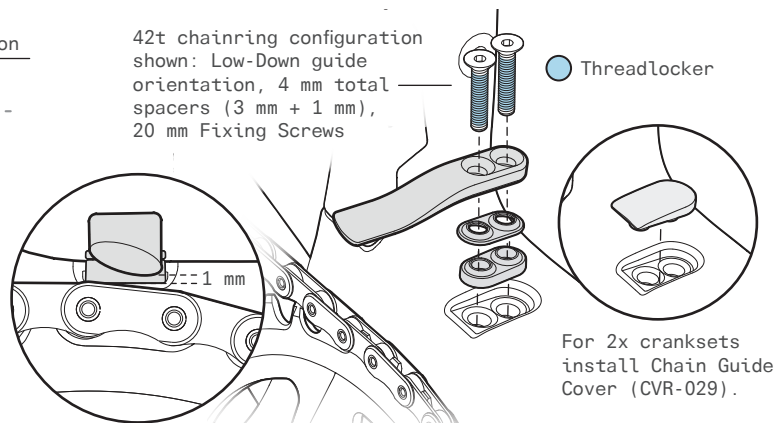


Low-Down Guide Orientation



⚠ WARNING
The Chain Guide may only be used with 1x cranksets. Do not assemble the Chain Guide if using a 2x crankset. Failure to follow these instructions may result in a loss of control while riding and lead to serious injury.

Chainring Size	Guide Orientation	Minimum Spacer Count	Fixing Screw Length
36 t	High-Down	None	20 mm
38 t	High-Down	4 mm (3 mm + 1 mm)	20 mm
40 t	Low-Down	None	20 mm
42 t	Low-Down	4 mm (3 mm + 1 mm)	20 mm
44 t	Low-Up	None	20 mm
46 t	Low-Up	4 mm (3 mm + 1 mm)	20 mm
48 t	High-Up	None	20 mm
50 t	High-Up	4 mm (3 mm + 1 mm)	20 mm
52 t	High-Up	8 mm (3 mm x2 + 1 mm x2)	25 mm



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.



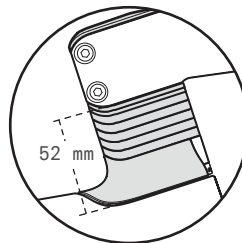
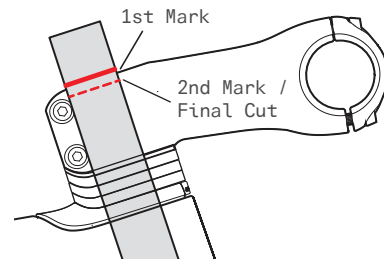
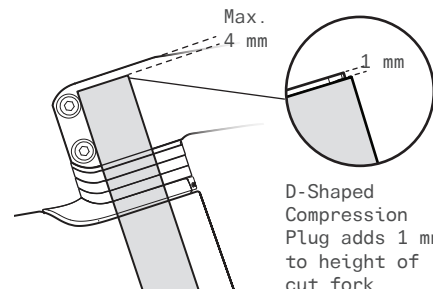
WARNING

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



WARNING

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

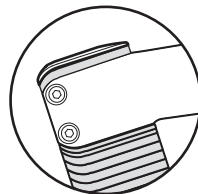


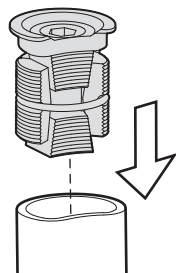
D-Shaped Compression Plug adds 1 mm to height of cut fork.



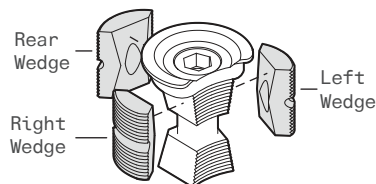
CAUTION

Do not exceed 5 mm total spacers above the stem.





Install D-Shaped Compression Plug (FKI-CL005-517A) in fork steerer and lightly tighten. Torque to 8 N-m following stem and spacer installation.

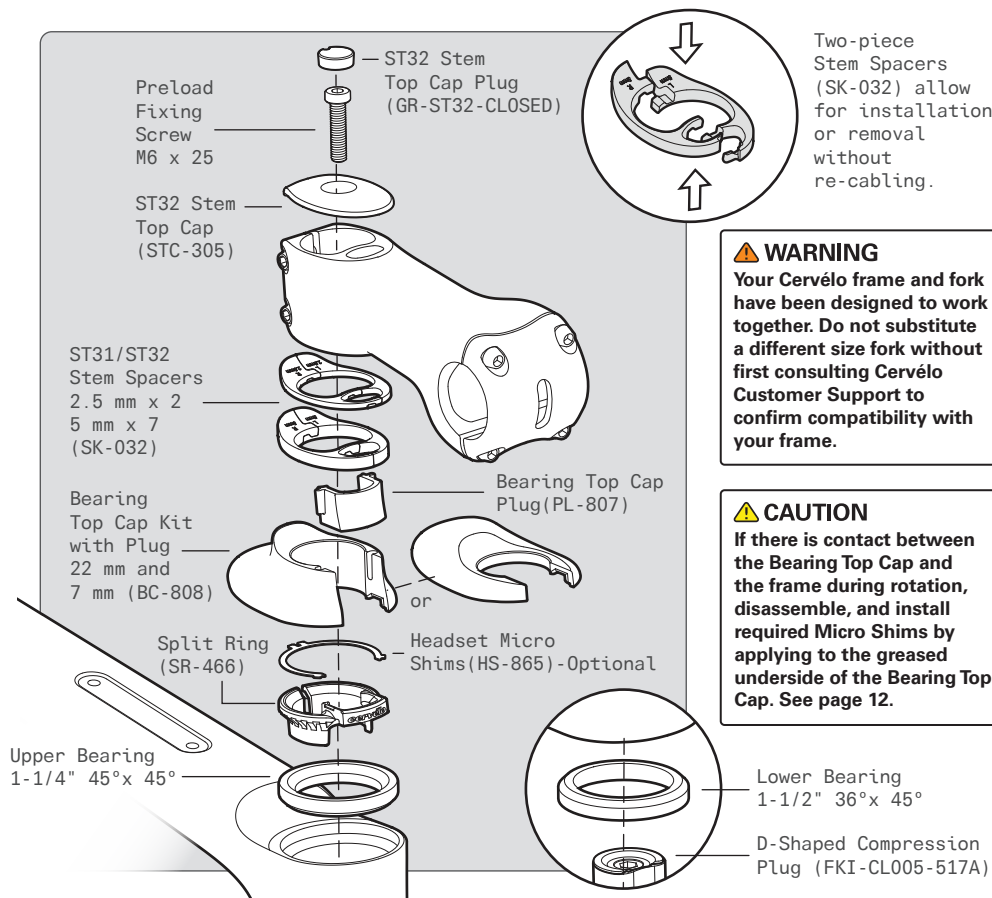


⚠ CAUTION

The component parts of the compression plug are side-specific. 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.



Two-piece Stem Spacers (SK-032) allow for installation or removal without re-cabling.

⚠ WARNING

Your Cervélo frame and 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

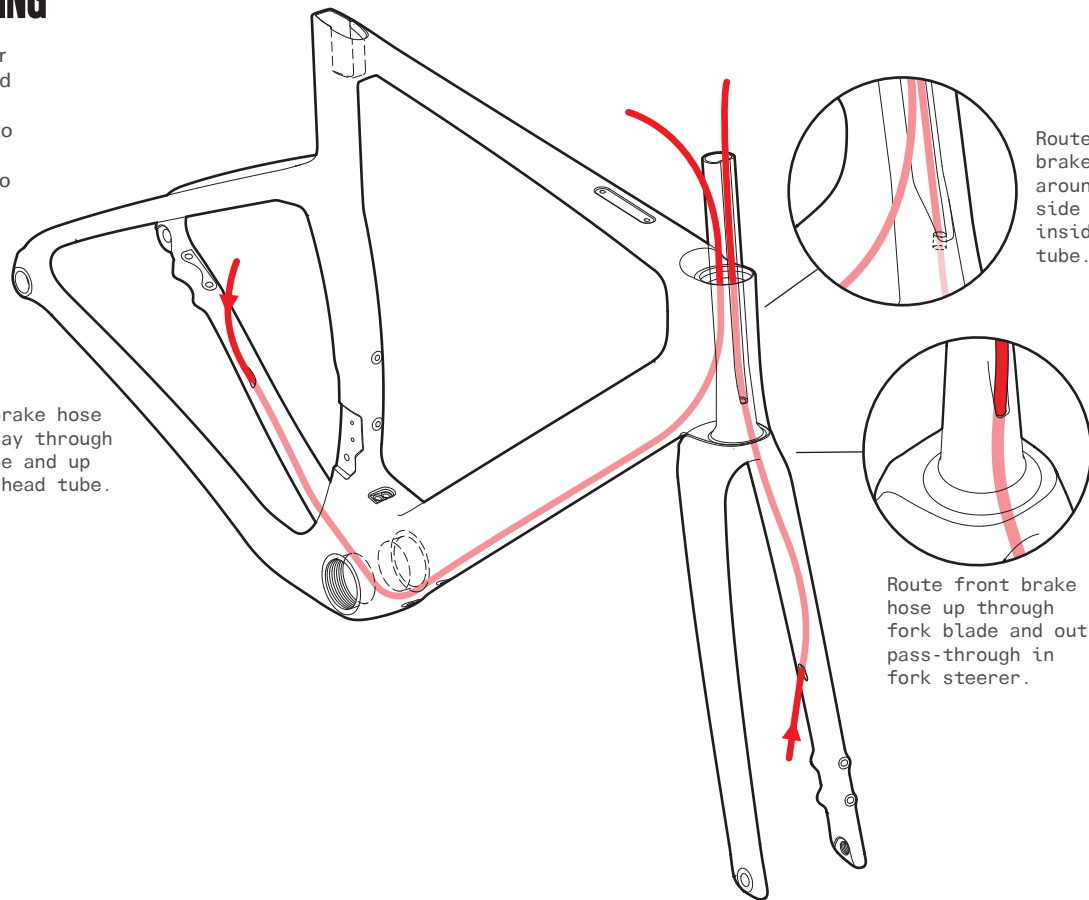
If there is contact between the Bearing Top Cap and the frame during rotation, disassemble, and install required Micro Shims by applying to the greased underside of the Bearing Top Cap. See page 12.

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

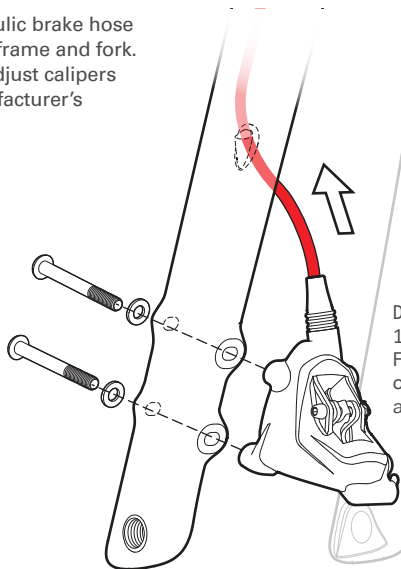
Route rear brake hose from chainstay through the down tube and up through the head tube.



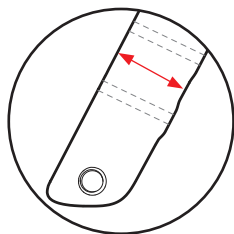
Route rear brake hose around drive side of fork inside head tube.

Route front brake hose up through fork blade and out pass-through in fork steerer.

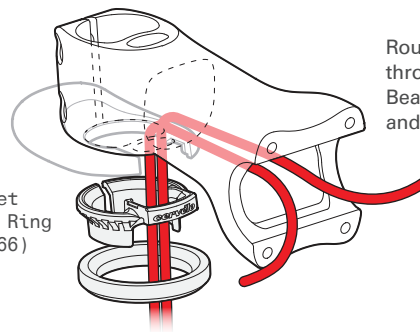
Route hydraulic brake hose through the frame and fork. Install and adjust calipers as per manufacturer's instructions.



Direct mount fork is 160 mm rotor native. Flat mount brake calipers require no adapter plate.

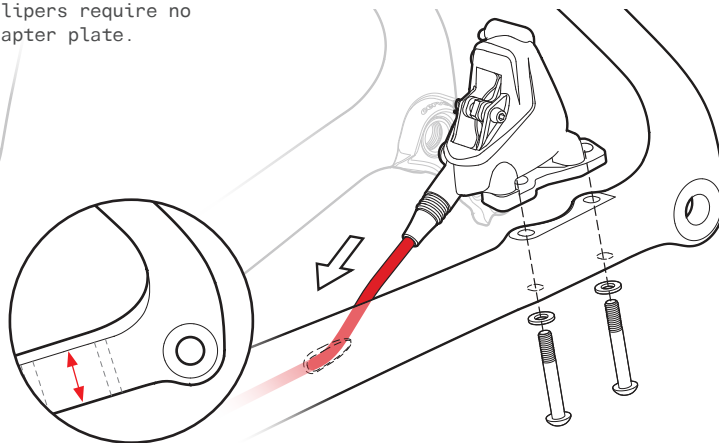


Fork blade depth: 40 mm



Headset
Split Ring
(SR-466)

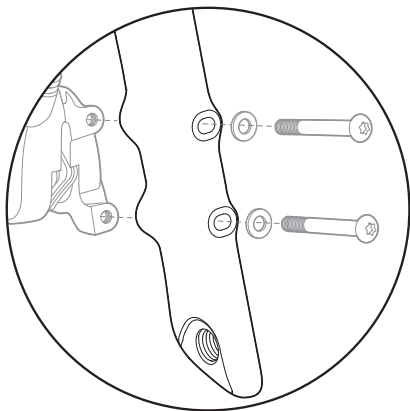
Route brake hose through Upper Bearing, Split Ring and out ST31B stem.



Chainstay height: 25 mm

BRAKE CALIPER INSTALLATION

Identify if you are using SRAM or Shimano components. Install the front and rear brake calipers using the correct hardware. Install and adjust calipers as per manufacturer's instructions. These 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.

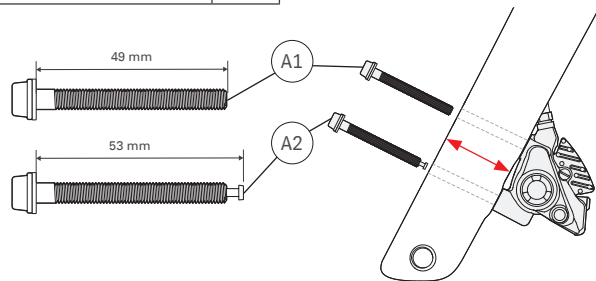


The Áspero-5 direct mount fork is 160 mm rotor native. **Flat mount disc brake calipers require no adapter plate.**

SHIMANO FLAT MOUNT FIXING SCREWS

Item	Shimano Part No.	Description	Qty.
A1	Y2FT9802T	Type C2 Flat Mount Fixing Screw- 49 mm	1
A2	Y2FT9801T	Type C Flat Mount Fixing Screw- 53 mm	1

Shimano bolt lengths differ and **do not use washers** for flat mount. Install the 49 mm bolt (A1) through the upper caliper mount and into caliper. Install 53 mm bolt (A2) through lower caliper mounting hold and into caliper. Torque to manufacturer's specifications.

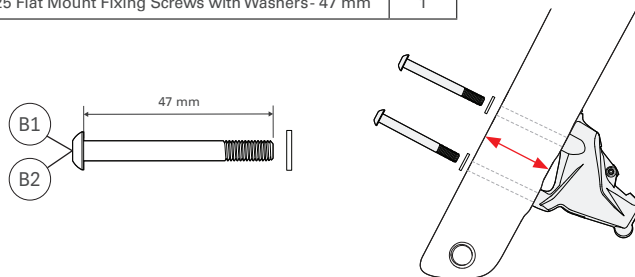


Fork blade depth:40 mm

SRAM FLAT MOUNT FIXING SCREWS

Item	SRAM Part No.	Description	Qty.
B1	00.5318.005.016	T25 Flat Mount Fixing Screws with Washers- 47 mm	1
B2	00.5318.005.017	Titanium T25 Flat Mount Fixing Screws with Washers- 47 mm	1

SRAM bolt lengths are the same (47 mm) **and use washers** for flat mount. Install the B1 or B2 bolts through the caliper mounting holes and into the caliper. Torque to manufacturer's specifications.

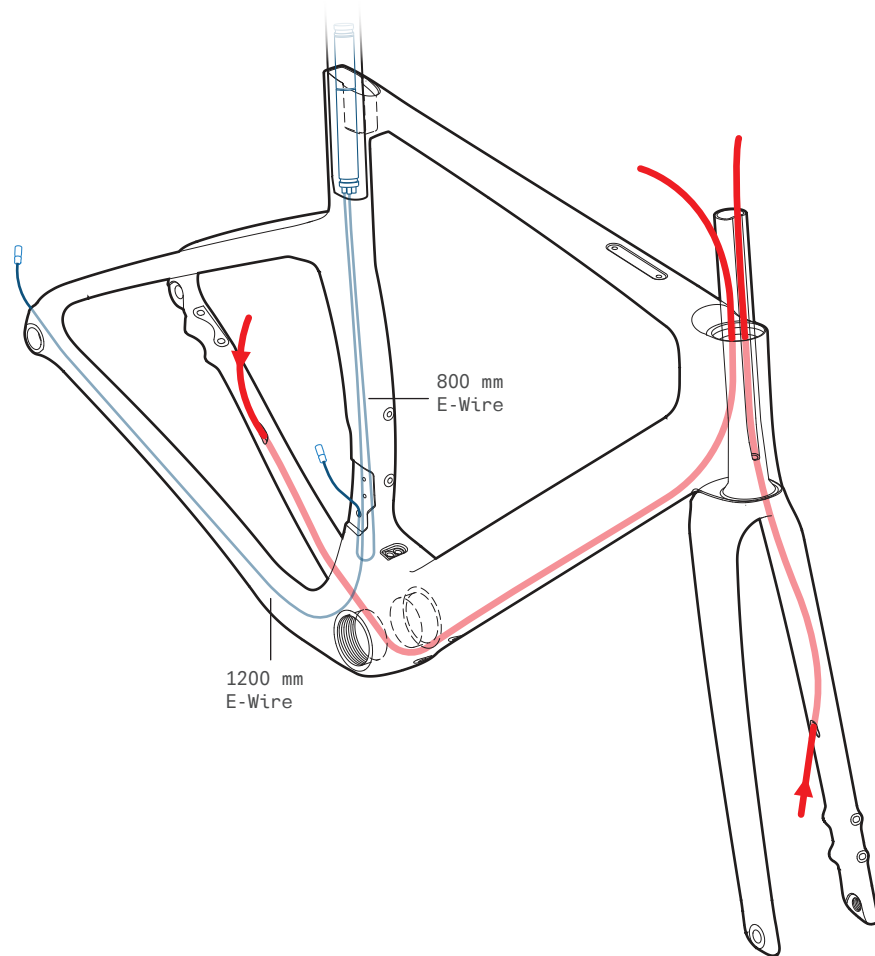


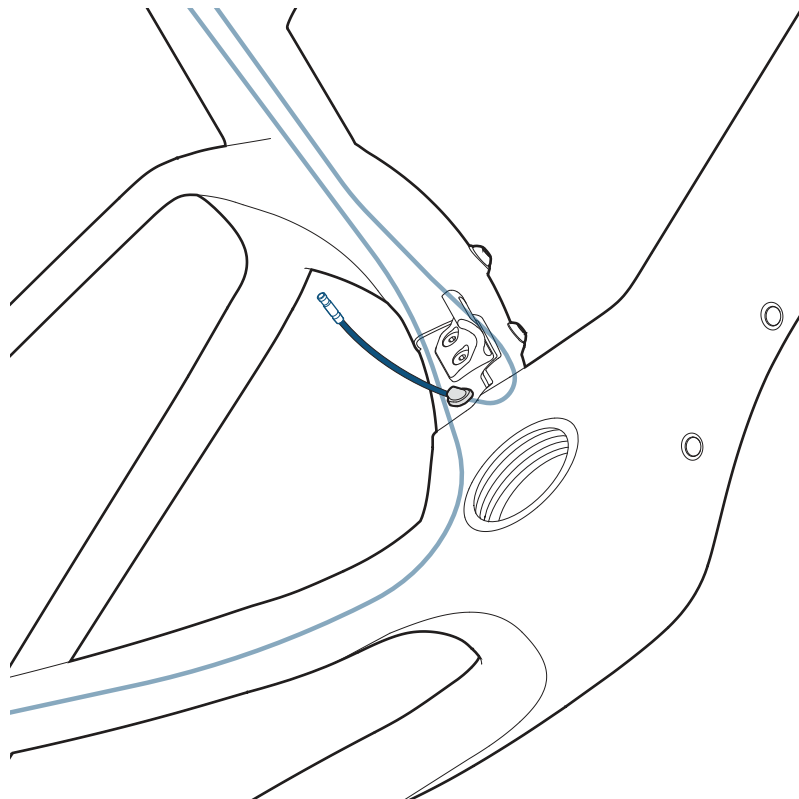
Fork blade depth:40 mm

ELECTRIC WIRE ROUTING

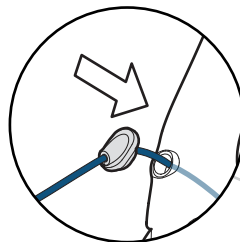
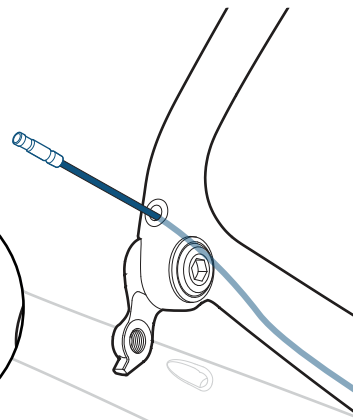
It is recommended that electric cabling and junction points be installed after the brake hose has been installed. These routing illustrations are intended as a supplement to the manufacturer's installation instructions only. Please refer to the component manufacturer's service center or website for further information.

- Brake
- E-Wire(SD300)

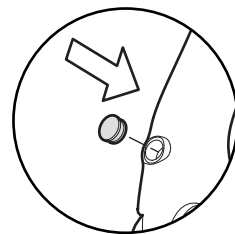




For wired shifting systems install the Shimano EW-SD300 grommet for 6 mm hole (sold by Shimano).



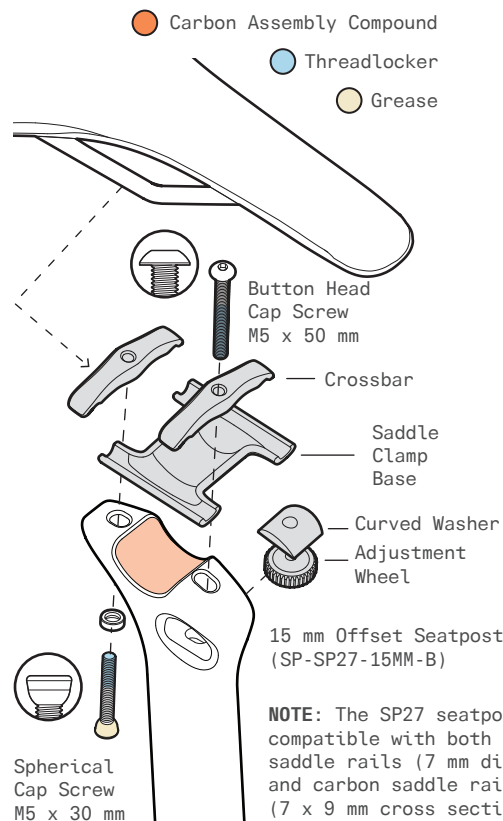
For wireless shifting systems install the Blanking Plug (GR-576).



SP27 SEATPOST ASSEMBLY

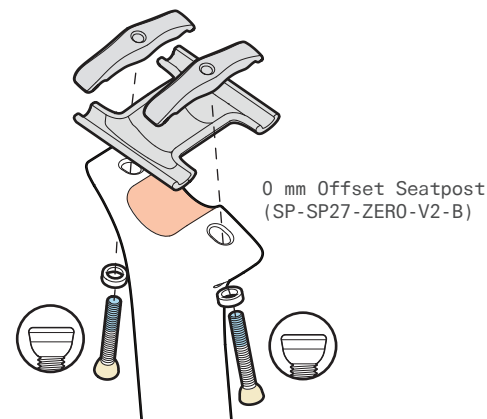
SP27 15 mm Offset

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.



SP27 0 mm Offset V2

1. Apply threadlocking compound to the initial threads of the 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.



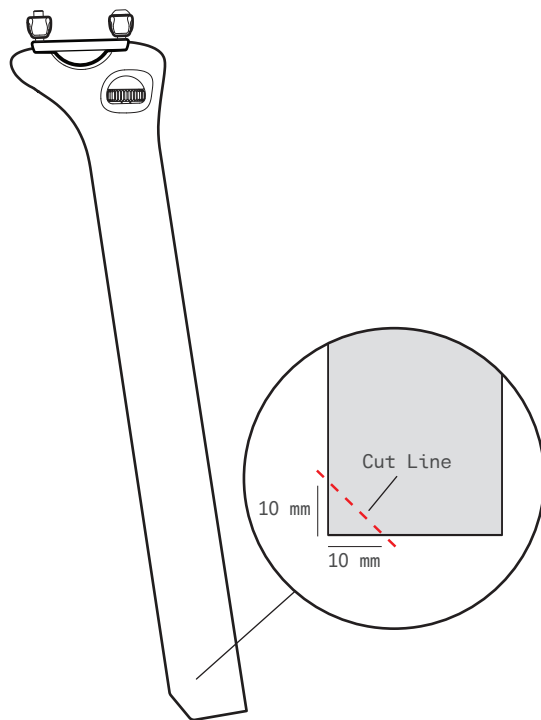
SEATPOST CUTTING INSTRUCTIONS

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.

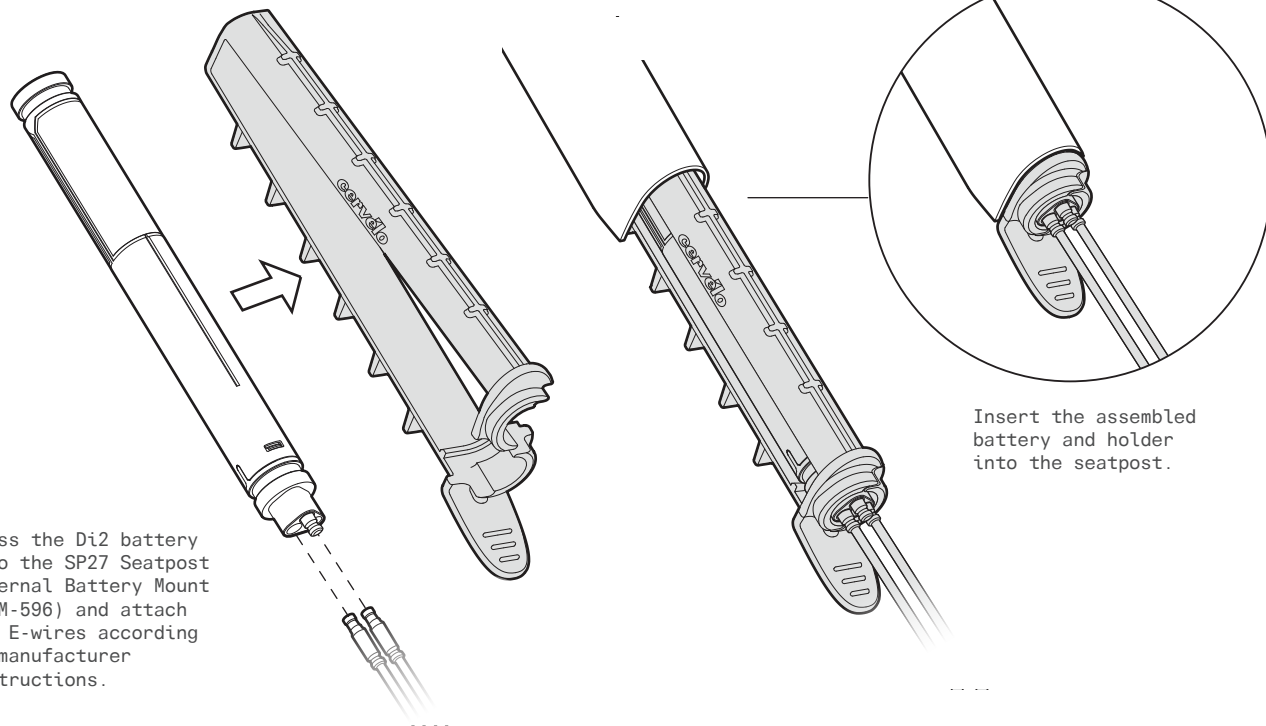
WARNING

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.



DI2 BATTERY INSTALLATION

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.



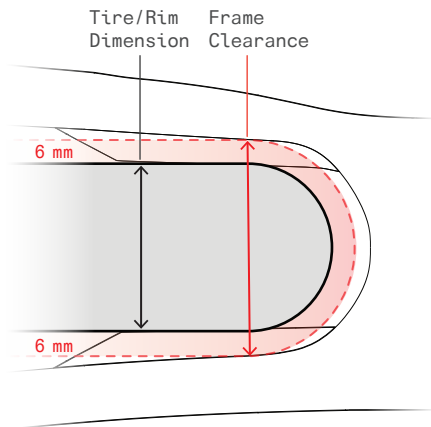
TIRE CLEARANCE AND PRESSURE

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 6 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 12 mm (6 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.

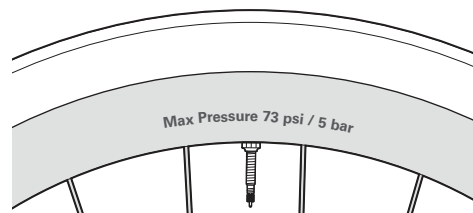
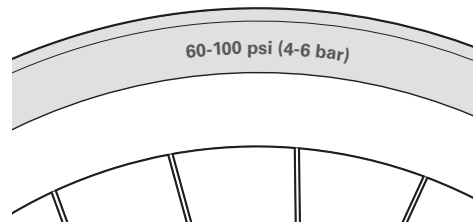


⚠ WARNING

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.

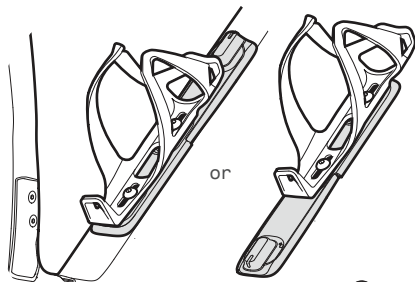
⚠ WARNING

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.

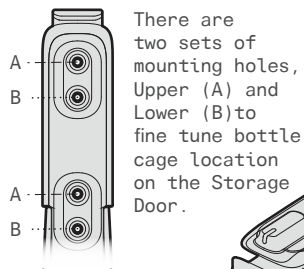


SB05A IN-FRAME STORAGE DOOR

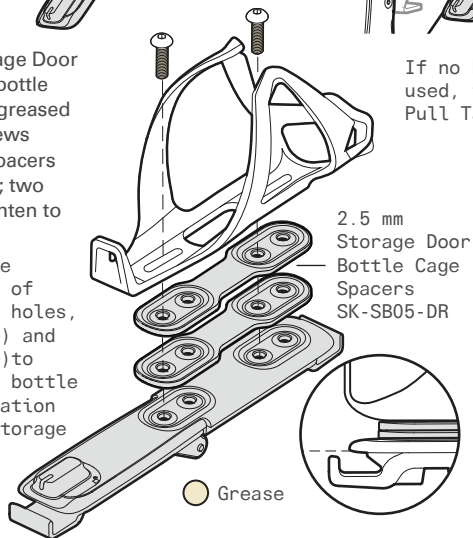
1. Single bottle cage: Storage Door can be oriented in either the low or high bottle cage position.



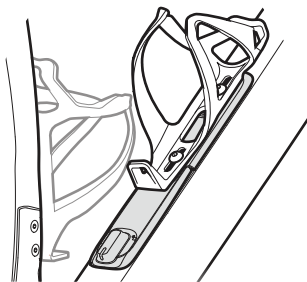
Choose preferred Storage Door orientation and install bottle cage using two lightly greased M5 x 16 mm fixing screws and optional 2.5 mm spacers for clearance purposes; two spacers maximum. Tighten to 2-3 N·m.



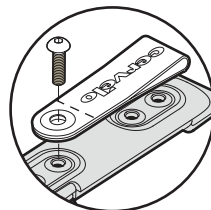
There are two sets of mounting holes, Upper (A) and Lower (B) to fine tune bottle cage location on the Storage Door.



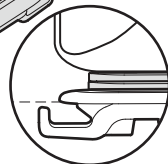
2. Dual bottle cages: Storage Door must be oriented in the high bottle cage position.



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



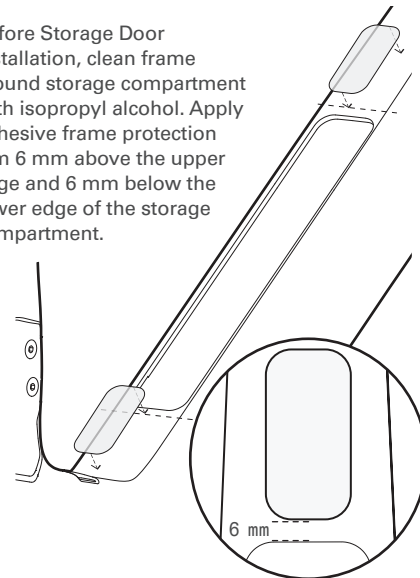
Use up to a maximum of two SB05A spacers between the bottle cage and Storage Door to avoid any interference between the bottle cage and the frame during Storage Door installation or removal.



⚠ 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.

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.



Installation

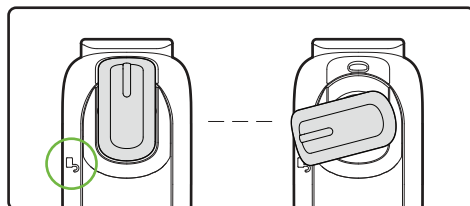
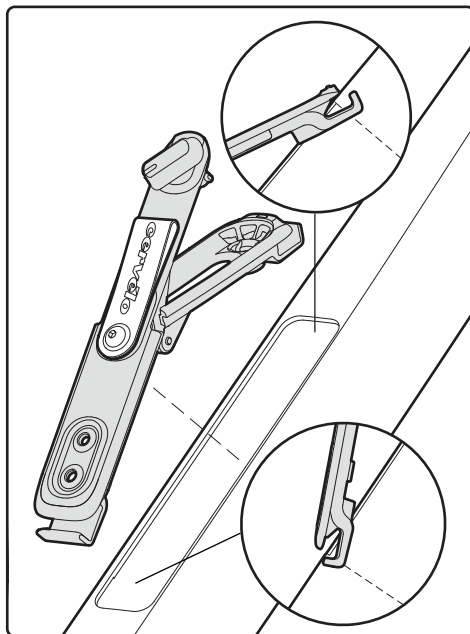
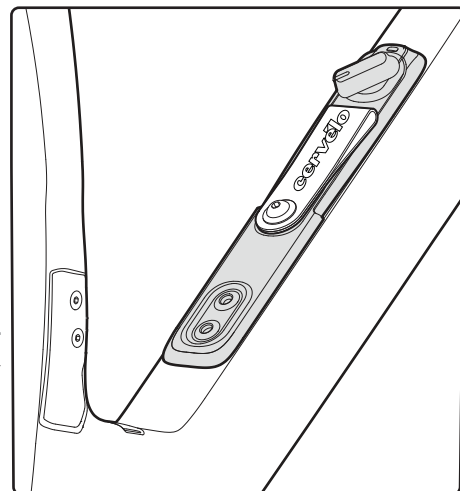
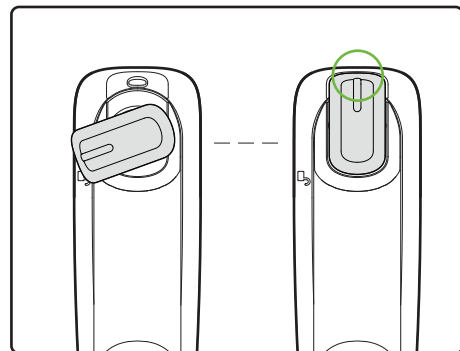
1. Turn latch towards the unlock icon and fold open the Storage Door.
2. Insert upper hooked end of the Storage Door into the down tube storage compartment and slide upwards.
3. Insert lower hooked end into the down tube storage compartment and press down on the Storage Door until it clicks into place.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

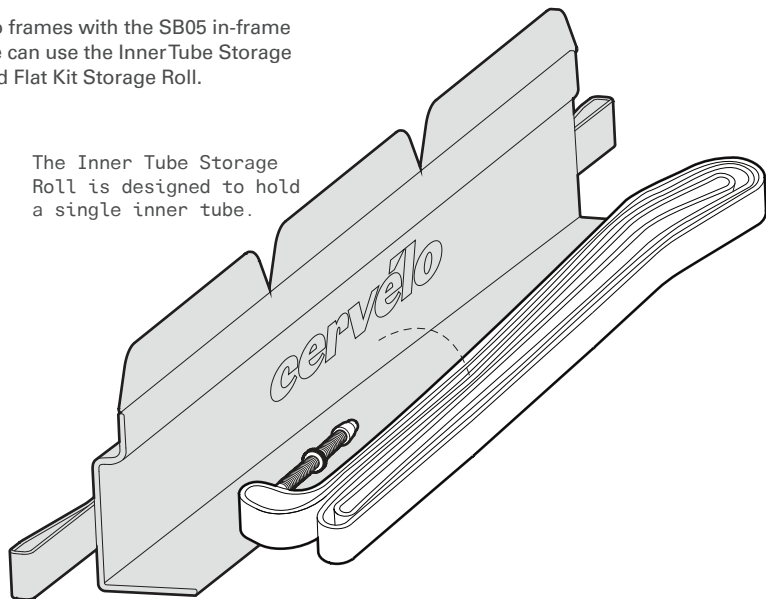
Do not attempt to remove the Storage Door without using the included Pull Tab or a bottle cage. The edges of the Storage Door can be sharp and result in injury when attempting to pry the Door from the frame.



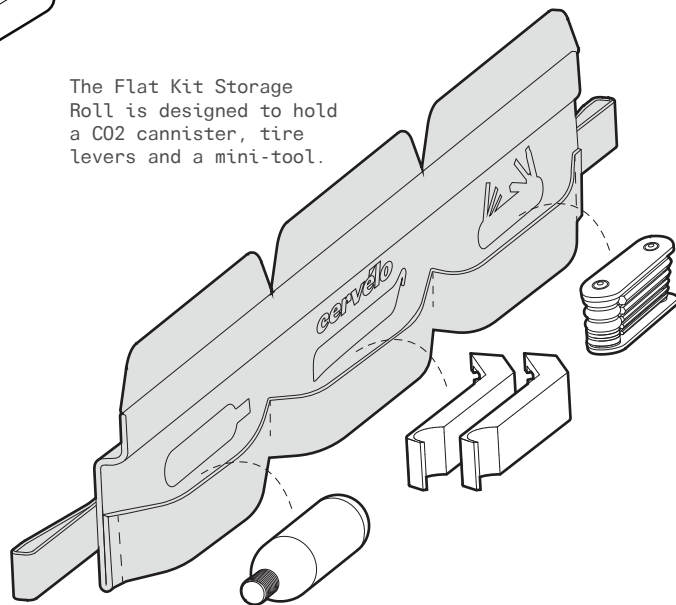
SB05 IN-FRAME STORAGE ROLLS

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

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

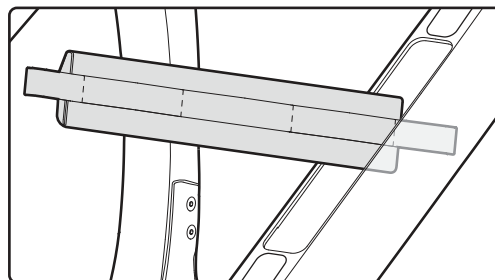


The Flat Kit Storage Roll is designed to hold a CO2 cannister, tire levers and a mini-tool.



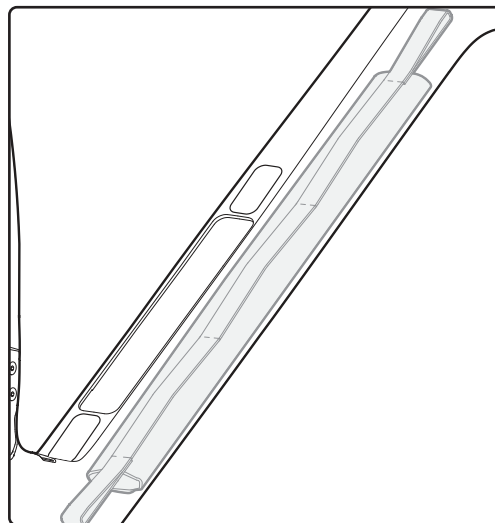
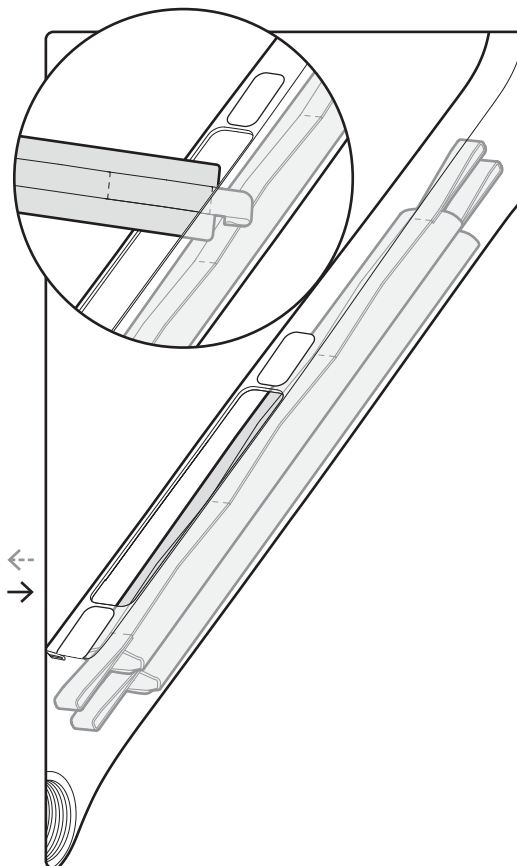
Installation

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.

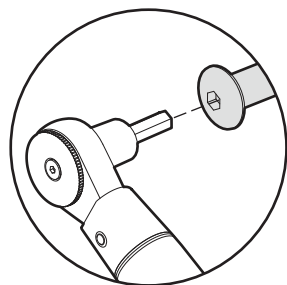


Removal

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.

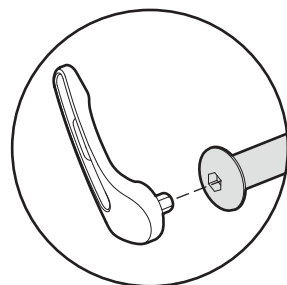


AERO THRU-AXLE INSTALLATION

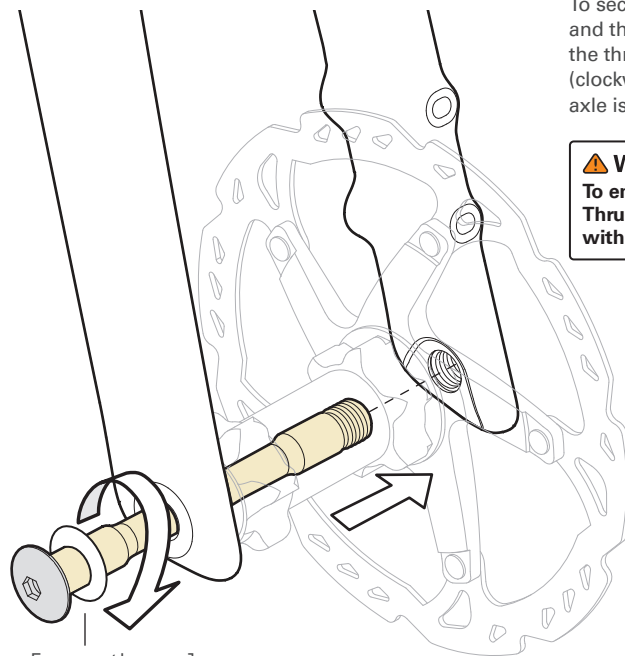


6 mm Allen key /
torque wrench

or



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



Ensure thru-axle
washer is present
for installation.

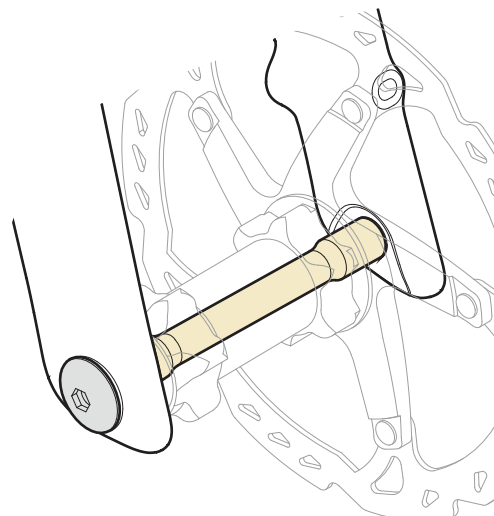
Tighten front axle
to 12-15 N·m.

 Grease

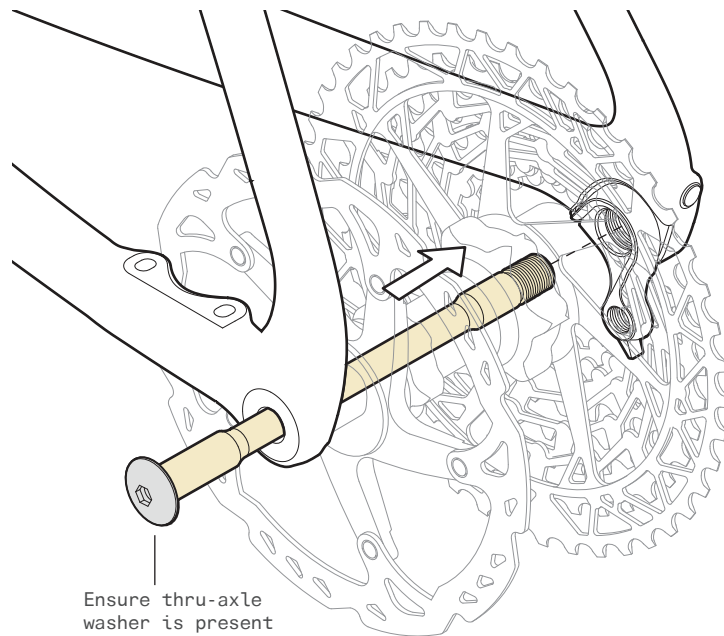
To secure wheels, install the greased axle through the drop out and the wheel hub, aligning the threaded end of the axle with the threaded insert. Once aligned and engaged, thread the axle (clockwise) into the threaded component of the insert until the axle is secured tightly to 12-15 N·m.

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.



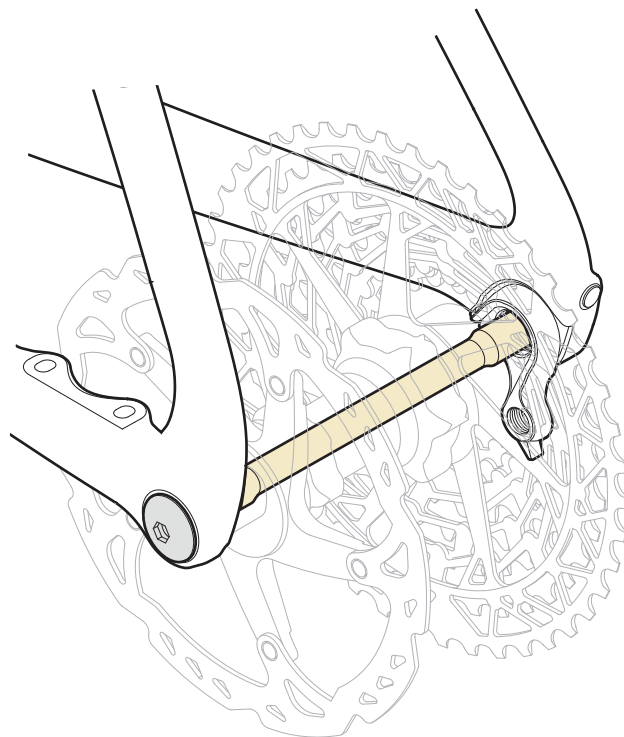
Cervélo Road UDH Rear Aero
Thru-Axle with Removable
Handle (QRA-698)



Ensure thru-axle
washer is present
for installation.

Tighten front axle
to 12-15 N·m.

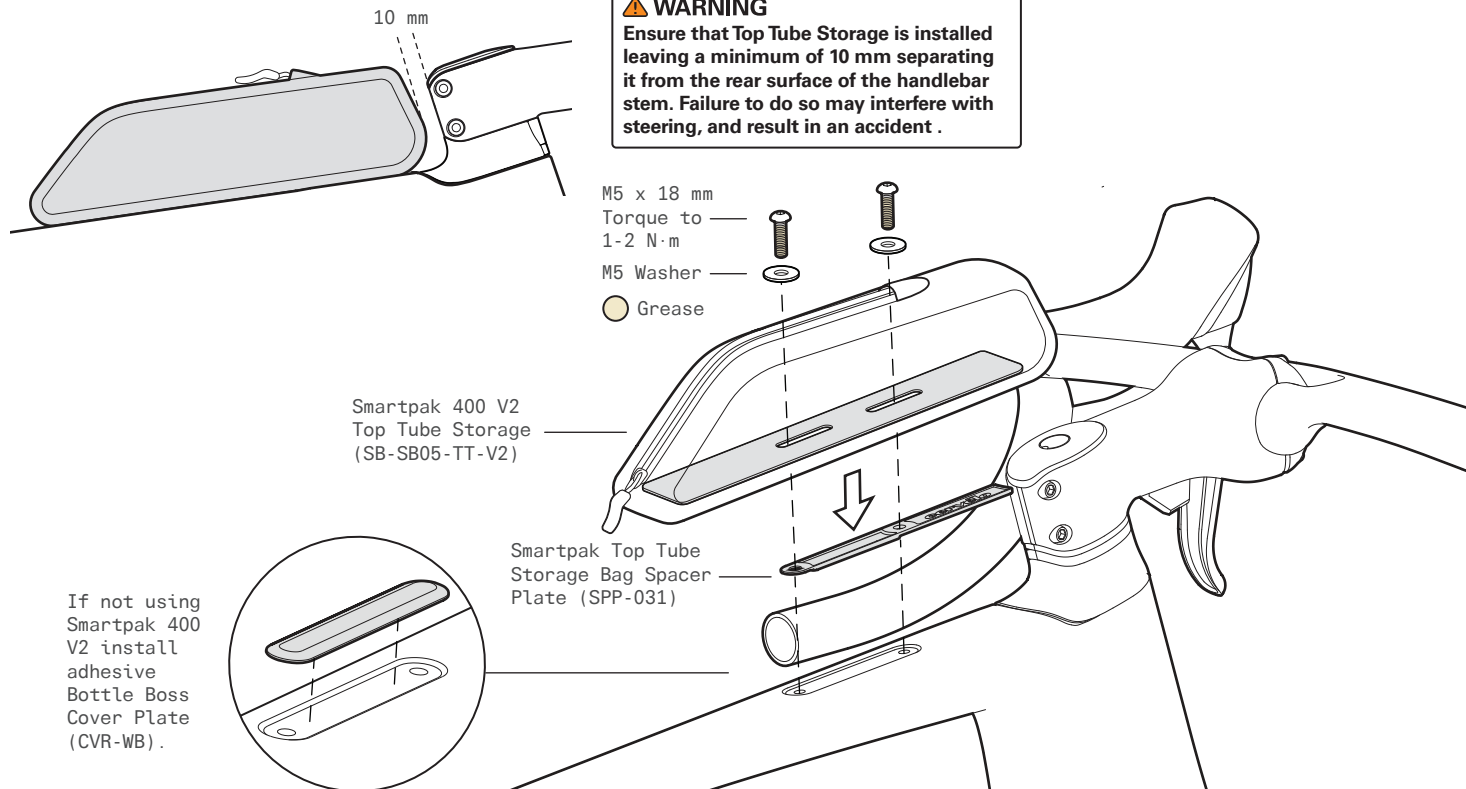
 Grease



TOP TUBE SMARTPAK INSTALLATION

⚠ WARNING

Ensure that Top Tube Storage is installed leaving a minimum of 10 mm separating it from the rear surface of the handlebar stem. Failure to do so may interfere with steering, and result in an accident .



INTENDED USE OF THE ÁSPERO-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 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 Áspero-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

General Purpose Riding - 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. Not Compatible with touring racks or panniers, child seats, or trailers. 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.

CAUTION

Replacement of tires or cranks with components of different sizes can reduce the available toe clearance and result in “toe overlap”.

ÁSPERO-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 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 generously greased with a quality, non-lithium type grease (Park Tool HPG-1 or equivalent) unless the screw is pre-coated with threadlocking compound (Loctite 243 or equivalent). **All fixing screws should have either grease or threadlocker - 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/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- threaded -T47A	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)	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	3 N·m	Apply Loctite 243 to fixing screws if not already present.
Front derailleur mount blanking plate	1.5 N·m	Apply Loctite 243 to fixing screws if not already present.

Component	Torque (N·m)	Notes
Water bottle cage fixing screws	2 to 3 N·m	Lightly grease the fixing screws.
Fork		
Fork steerer compression plug	8 N·m	Lightly grease the fixing screw and tighten to the recommended torque.
Stem – ST31B		
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.
Handlebar		
Brake/shift levers (to handlebar)	6 to 8 N·m	Refer to manufacturer's instructions for installation of brake/shift levers.
Accessory mount - front	2 N·m	Lightly grease the fixing screws.
Seatpost Clamp (frame to seatpost)		
Wedge clamp - rounded (front)	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		
2 bolt head	7 N·m	Apply Loctite 243 to bolt threads.
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		
SB05A Storage Door water bottle cage fixing screws	2 to 3 N·m	Lightly grease the fixing screws.
Pedals	30 to 35 N·m	Refer to manufacturer's instructions.

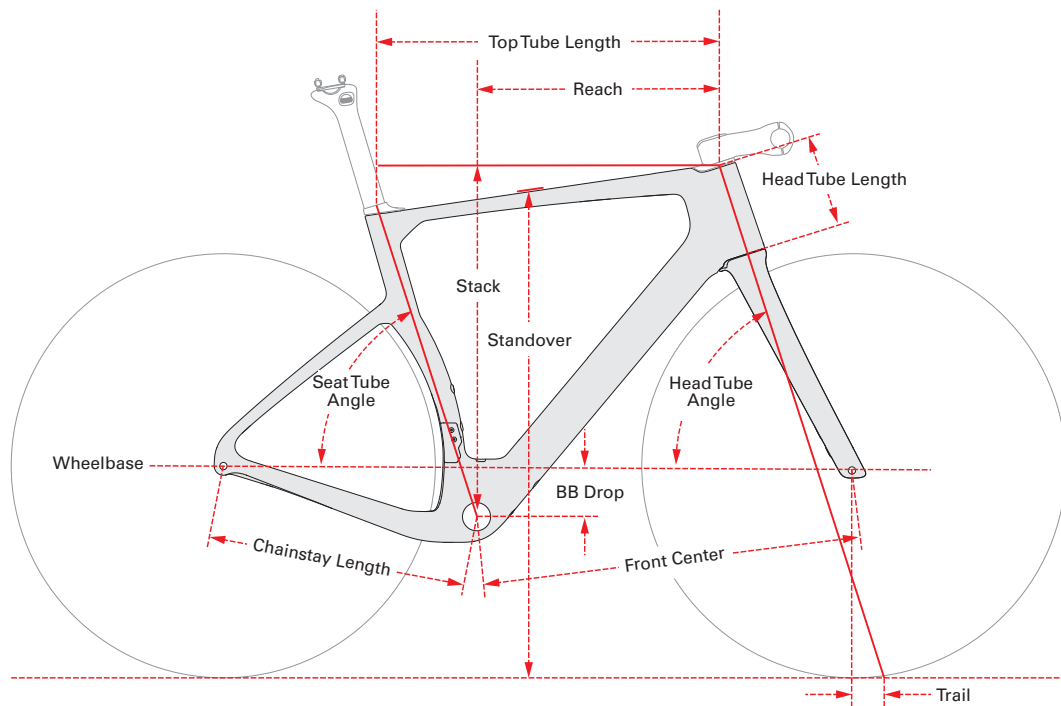
ÁSPERO-5 FRAME GEOMETRY

Balanced Geometry (Front and rear tires same width, 700c wheels.)

Áspero-5 (FM164)	48 cm	51 cm	54 cm	56 cm	58 cm	61 cm
Reach mm	369	377	386	395	404	413
Stack mm	500	525	550	575	600	625
Bottom Bracket Drop mm	80	80	80	80	78	78
Chainstay Length mm	422.5	422.5	422.5	422.5	422.5	422.5
Seat Tube Angle	74.1°	73.6°	73.1°	72.6°	72.6°	72.6°
Head Tube Angle	70.6°	71.1°	71.6°	71.6°	71.6°	71.6°
Fork Length (Axle to Crown) mm	389	389	389	389	389	389
Fork Offset mm	57.5	54.5	51.5	51.5	51.5	51.5
Front Center mm	584	593	602	619	636	653
Head Tube Length mm	75	99	122	148	177	203
Wheelbase mm	993	1002	1012	1029	1047	1064
Standover Height mm	720	753	779	801	826	851
Seat Tube Length mm	433	471	499	519	542	568
Top Tube Length mm	516	531	552	574	591	607

Mixed Geometry (Front tire width 4 mm narrower than rear tire, 700c wheels.)

Áspero-5 (FM164)	48 cm	51 cm	54 cm	56 cm	58 cm	61 cm
Reach mm	373	381	390	399	408	417
Stack mm	497	522	547	572	597	622
Bottom Bracket Drop mm	80	80	80	80	78	78
Chainstay Length mm	422.5	422.5	422.5	422.5	422.5	422.5
Seat Tube Angle	74.5°	74°	73.5°	73°	73°	73°
Head Tube Angle	71°	71.5°	72°	72°	72°	72°
Fork Length (Axle to Crown) mm	389	389	389	389	389	389
Fork Offset mm	57.5	54.5	51.5	51.5	51.5	51.5
Front Center mm	584	593	602	619	636	653
Head Tube Length mm	75	99	122	148	177	203
Wheelbase mm	993	1002	1012	1029	1047	1064
Standover Height mm	720	753	779	801	826	851
Seat Tube Length mm	433	471	499	519	542	568
Top Tube Length mm	516	531	552	574	591	607



ÁSPERO-5 FRAME DETAILS

Áspero-5 (FM164)	
Bike Name	Áspero-5
Model Year	2026
Serial Number Code	SN164
Frame Code	FM164
Fork Code	FK164
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	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°
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. 6 mm of distance is required between the tire and any frame or fork element.

Áspero-5 (FM164)	
Seatpost	SP-SP27-15MM-B
	SP-SP27-ZERO-V2-B
Seatpost Clamp	SPC-STA
Rear Derailleur Hanger	DRH-896 (Standard)
	DRH-897 (Shimano Direct Mount)
Front Derailleur Hanger	FDM-0EO
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)	45 mm (700c) with 6 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 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 (Park Tool 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

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 and bottom bracket guard 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).
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 (Park Tool 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 (Park Tool HPG-1 or equivalent), and replace them if worn or damaged.

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
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 Cervelo 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 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.

2026 ÁSPERO-5 ASSEMBLY MANUAL

CER-ALB-V1 2025-01-20

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