2024 ÁSPERO RETAILER MANUAL

cervélo

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IMPORTANT INFORMATION

This manual is intended to assist Cervélo Retailers in the unique assembly requirements of the Áspero bicycle. The assembly of this bicycle requires specialized knowledge and specific tools. Failure to follow the supplied instructions and install only Cervélo specified parts, may result in incorrect and unsafe assembly, resulting in loss of control and serious injury to the rider.

This manual assumes that the retailer has the minimum required background and skill level required of all professional bicycle mechanics. See http://www.probma.org/

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

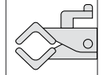
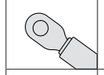
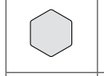
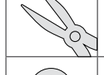
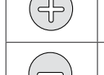
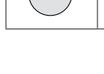
LIST OF TOOLS & SUPPLIES

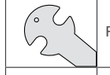
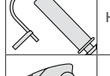
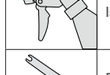
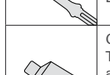
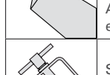
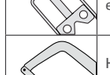
This manual outlines a number of procedures for making adjustments to the Áspero bicycle. The following tools and parts listed are required for these adjustments. Cervélo strongly recommends that all assembly and adjustment procedures be performed by an authorized Cervélo retailer.

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

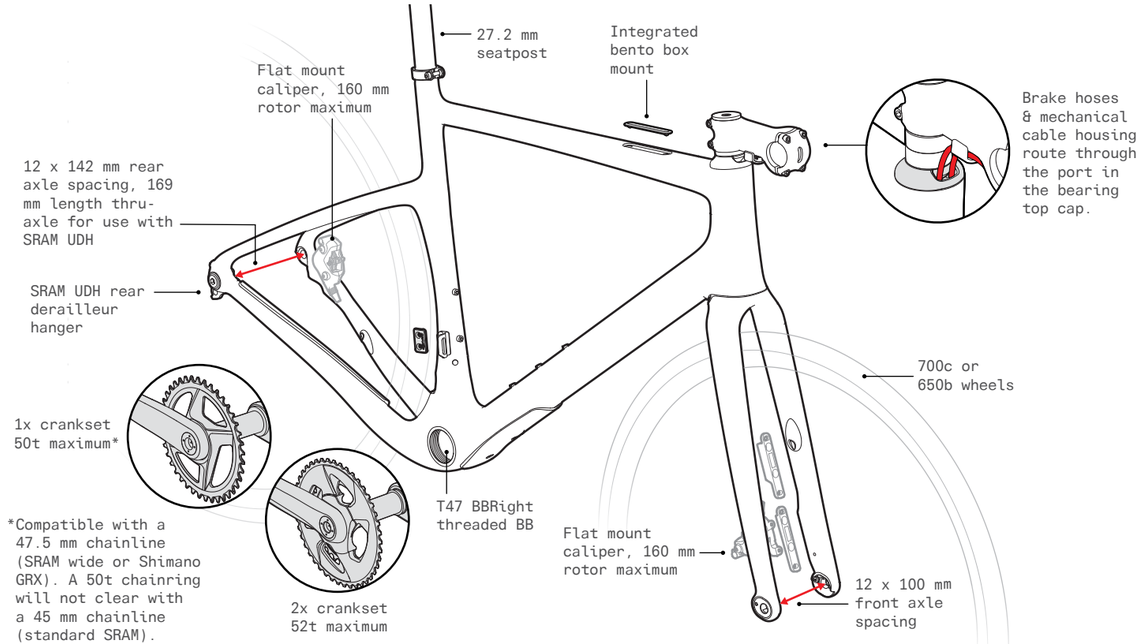
NOTE: This manual was developed to compliment the Cervélo Bicycle User Manual, and is intended as a supplement to the assembly and installation instructions supplied by the component manufacturers (provided with this bicycle).

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

Tools	
	Bicycle workstand (types which secure bike by the seatpost, or pro-type stand with fork mount)
	Torque wrench(es) with 2.5 N·m to 15 N·m and / or 10 N·m to 60 N·m range and adaptors:
	Allen (Hex) head inserts: 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm
	Open ended wrenches: 7 mm, 8 mm, 10 mm, 17 mm
	Cable cutters
	Pliers
	Phillips-head screwdriver
	Slot-head screwdriver

Tools	
	Pedal wrench
	Brake rotor lockring tools
	Hydraulic brake bleed kit
	Isopropyl alcohol
	Di2 wire tool – Shimano
	Good quality bicycle grease (Park Tool HPG-1 or equivalent) & carbon assembly compound (Dynamic Assembly Compound Carbon or equivalent).
	Saw cutting guide (ParkTool SG-7.2 or equivalent)
	Hacksaw (with carbon and aluminum specific blades)

ÁSPERO FRAME FEATURES



ÁSPERO PARTS LIST

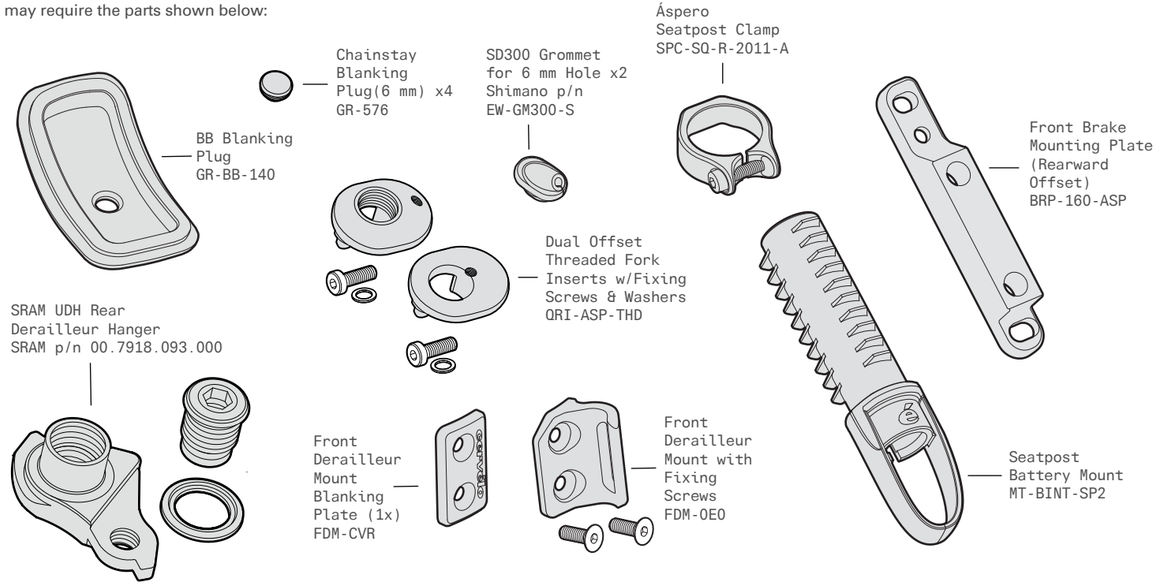
Item Description	Cervélo Part No.
D-Steerer Preload Compression Plug	FKI-CL005-517A
Bearing Cover Plug	PL-601
STA Low Bearing Cover Kit (8 mm) Compatible with hydraulic brake systems and electronic shifting systems ONLY	BC-STA-644
STA Headset Bearing Cap Kit (30 mm & 14 mm)	BC-STA
1-1/4" Headset Microshim	HS-033
STA Headset Split Ring	SR-STA
FSA Headset Bearing (Upper) 1-1/4 45° X 45°	HS-082
FSA Headset Bearing (Lower) 1-1/2 36° x 45°	HS-110
Front Brake Mounting Plate (Rearward Offset)	BRP-160-ASP
Dual Offset Threaded Fork Inserts with Fixing Screws	QRI-ASP-THD

Item Description	Cervélo Part No.
Removable Handle for Cervélo Aero Thru-Axle	QRA-AERO2-HNDL
Cervélo Front Aero Thru-Axle with Removable Handle	QRA-AERO2-F
Cervélo Road UDH Rear Aero Thru-Axle with Removable Handle	QRA-698
Áspero DT Protector	PRO-DT-ASP
FM137 CS Protector	PRO-CS-ASP
BB Blanking Plug R5	GR-BB-140
Shimano SD300 Grommet for 6 mm Hole	EW-GM300-S
6 mm Blanking Plug	GR-576
Front Derailleur Mount with Fixing Screws	FDM-0E0
FDM Blanking Plate	FDM-CVR

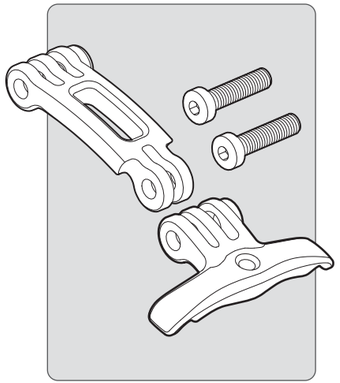
Item Description	Cervélo Part No.
SRAM UDH Rear Derailleur Hanger Assembly	00.7918.093.000
Smartpak 400A	SB-SB05-TT
Bottle Boss Cover Plate	CVR-WB
Accessory Mount Kit - Front	MT-LM-F-004
Accessory Mount Kit - Rear	MT-LM-R-003
Seatpost Clamp	SPC-SQ-R-2011-A
Seatpost Battery Mount	MT-BINT-SP2
SP19 Seatpost with Head 25 mm	SP-SP19-25MM-WH
SP19 Seatpost with Head 15 mm	SP-SP19-15MM-WH-B
SP19 Seatpost with Head 0 mm	SP-SP19-ZERO-WH-B

SMALL PARTS

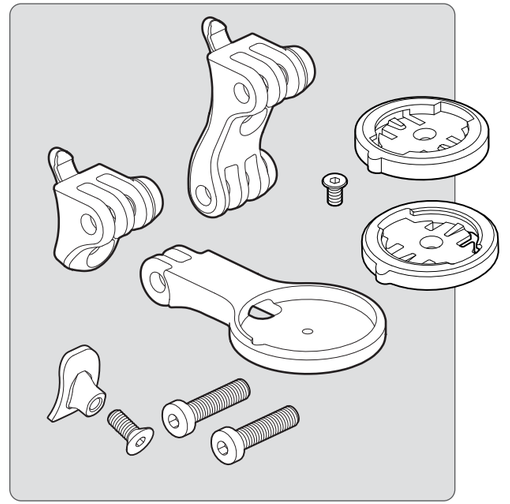
Designed to accommodate electronic, mechanical and hydraulic controls, the Áspero frame is engineered to provide seamless integration of all shifting systems, regardless of method or brand. In order to do so, you may require the parts shown below:



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

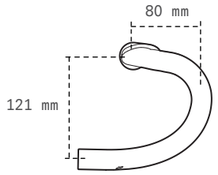


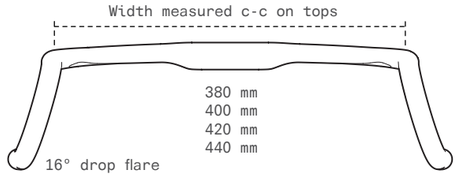
Accessory Mount Kit-Front
MT-LM-F-004



AB09F HANDLEBAR

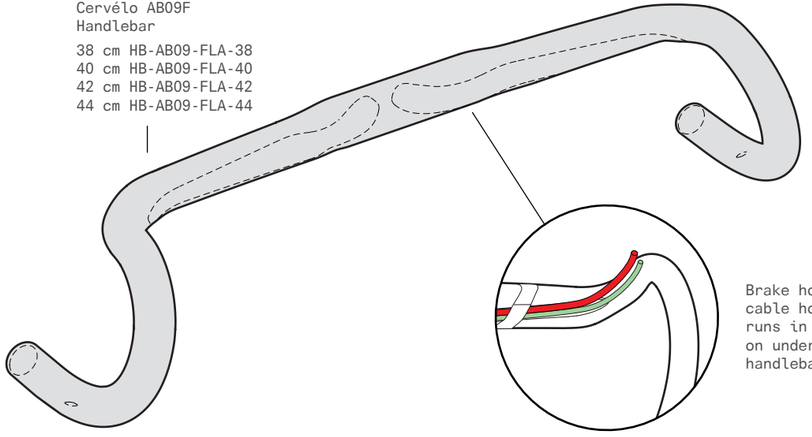
⚠ WARNING
Only use the components specified in this manual for handlebar and stem assembly. Failure to use the specified parts and to follow the supplied assembly instructions may result in a loss of control while riding and serious injury.





Cervélo AB09F
Handlebar

38 cm HB-AB09-FLA-38
40 cm HB-AB09-FLA-40
42 cm HB-AB09-FLA-42
44 cm HB-AB09-FLA-44



Brake hoses and cable housing runs in channels on underside of handlebar.

ST36 STEM

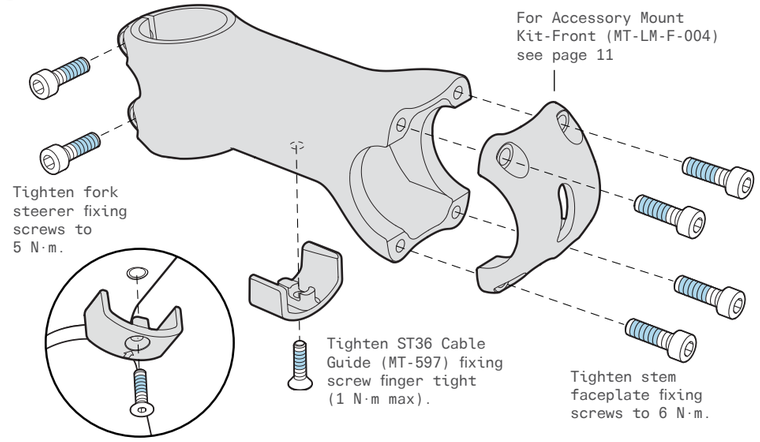
Cervélo ST36 Stem
(Aluminum)

70 mm	ST-A027-70*	*70 mm and 80 mm versions do not include ST36 Cable Guide.
80 mm	ST-A027-80*	
90 mm	ST-A036-90	
100 mm	ST-A036-100	
110 mm	ST-A036-110	
120 mm	ST-A036-120	
130 mm	ST-A036-130	



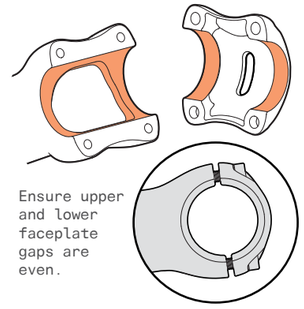
ST36 stem can not be flipped for additional stack.

Threadlocker



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

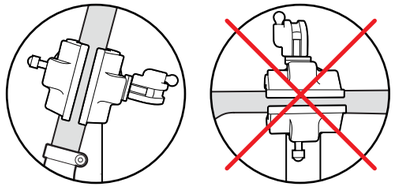
Carbon Assembly Compound



Ensure upper and lower faceplate gaps are even.

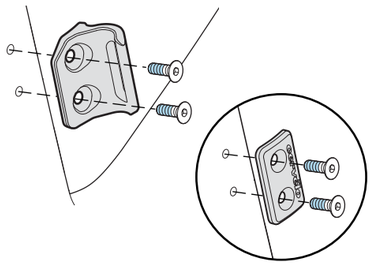
FRAME AND COMPONENT PREPARATION

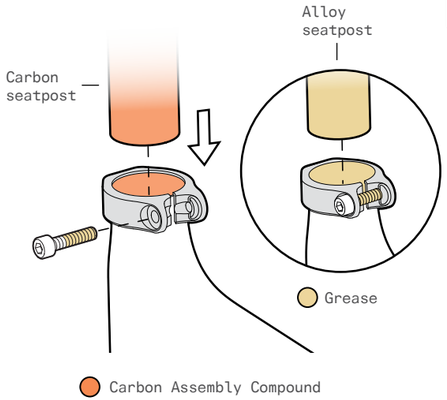
⚠ WARNING
Hold the frame using a secured seatpost only. Clamping the top tube can damage the frame and void your warranty.



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

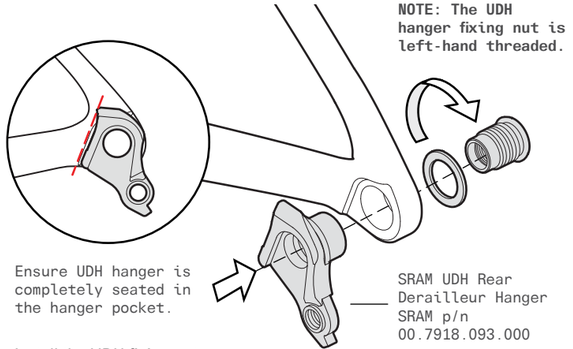
Threadlocker





⚠ 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 to rider.

1. Install the Seatpost Clamp (SPC-SQ-R-2011-A) on to the frame. Lightly grease the supplied M5 fixing screw.
2. With **carbon seatposts**, apply carbon paste to the frame and seatpost to be inserted into the frame. With **alloy seatposts**, apply grease to the frame and seatpost to be inserted into the frame.
3. Adjust height and torque the Seatpost Clamp to 6 N·m maximum.

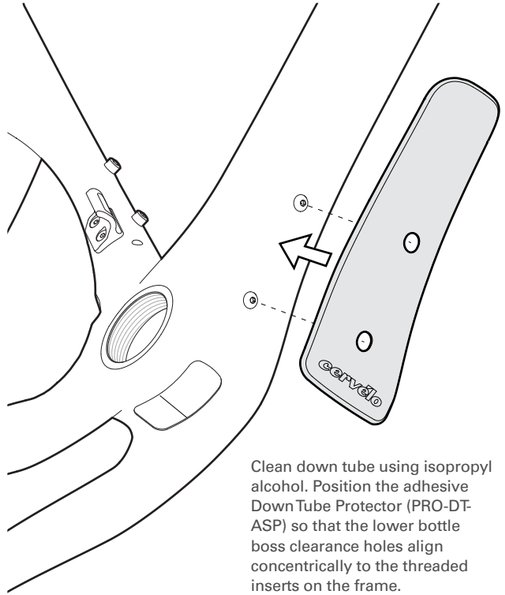


NOTE: The UDH hanger fixing nut is left-hand threaded.

Ensure UDH hanger is completely seated in the hanger pocket.

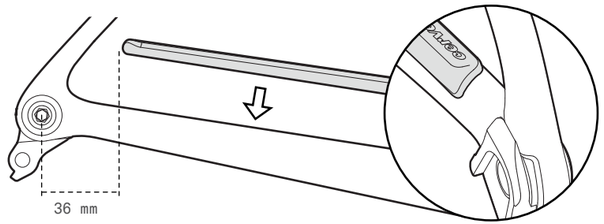
SRAM UDH Rear Derailleur Hanger SRAM p/n 00.7918.093.000

Install the UDH fixing nut through the washer and into the UDH hanger threads. Do not apply grease to the UDH hanger or fixing nut. Tighten to 25 N·m.



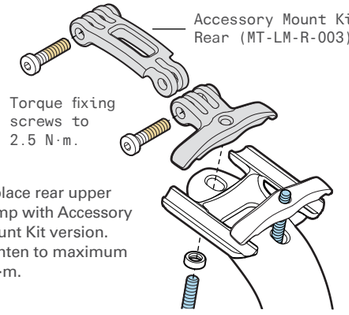
Clean down tube using isopropyl alcohol. Position the adhesive DownTube Protector (PRO-DT-ASP) so that the lower bottle boss clearance holes align concentrically to the threaded inserts on the frame.

FRAME AND COMPONENT PREPARATION

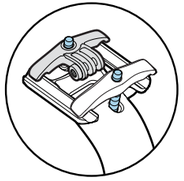


Clean the chainstay using isopropyl alcohol. Install the Chainstay Protector (PRO-CS-508) by removing adhesive backing, and fixing the guard to the frame. The bottom rearward edge should be approximately 36 mm forward from the center of the rear dropout.

Ensure the Chainstay Guard wraps around the inside of the chainstay.



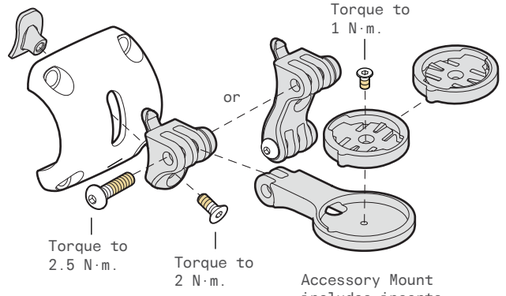
Replace rear upper clamp with Accessory Mount Kit version. Tighten to maximum 8 N·m.



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

To install Accessory Mount- Front (MT-LM-F-004), angle mount into ST36 stem faceplate and torque to 2 N·m.



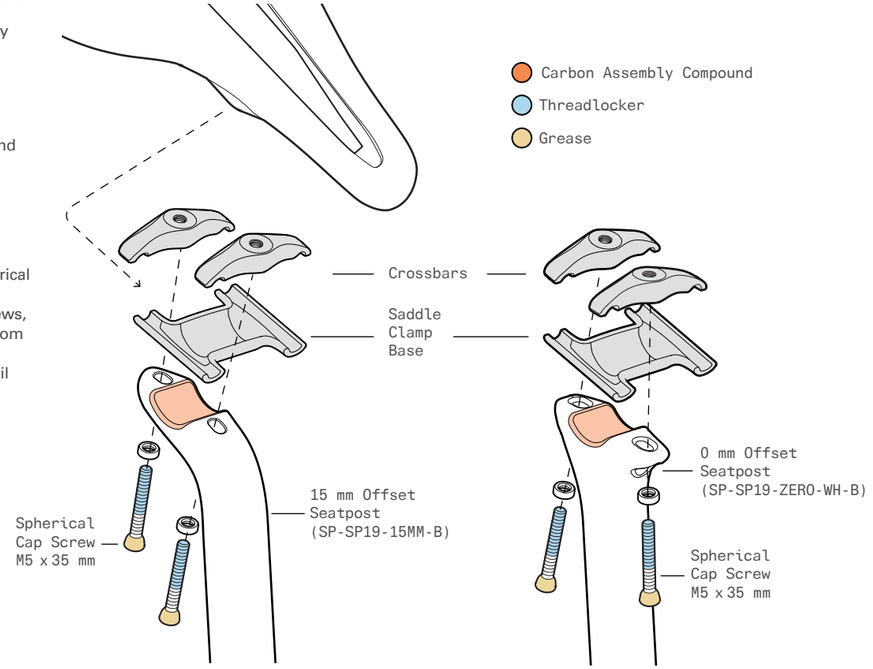


Accessory Mount includes inserts for Garmin & Wahoo computers.

SP19 SEATPOST ASSEMBLY

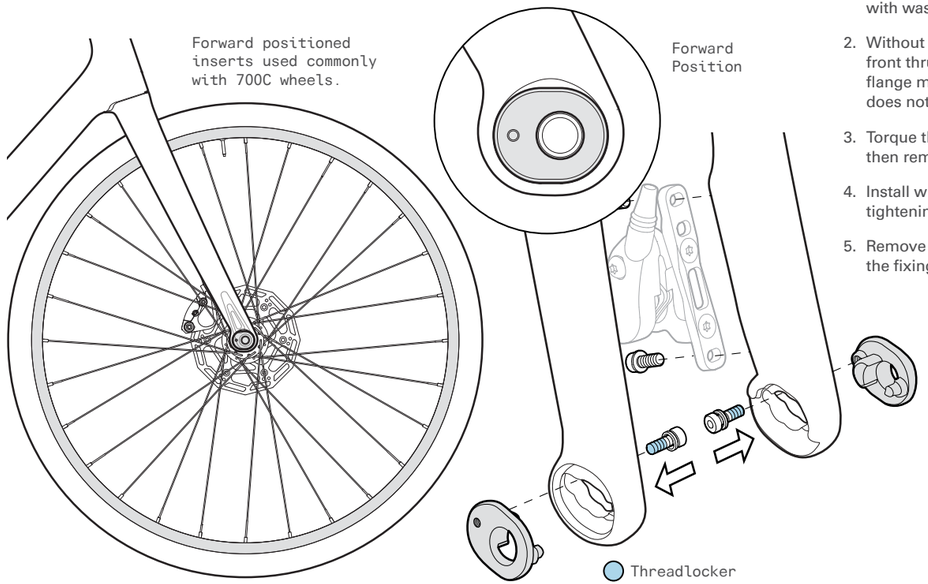
1. Apply a light coat of carbon assembly compound to the upper face of the Seatpost, making sure to cover area around the adjustment slots.
2. Locate the saddle rails between Crossbars and Saddle Clamp Base and place on Seatpost.
3. Ensure threadlocker is applied to the threads on the ends of the 35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

NOTE: For non-Cervélo seatposts, please refer to the seatpost manufacturer's instructions provided with the Áspero for assembly and adjustment.



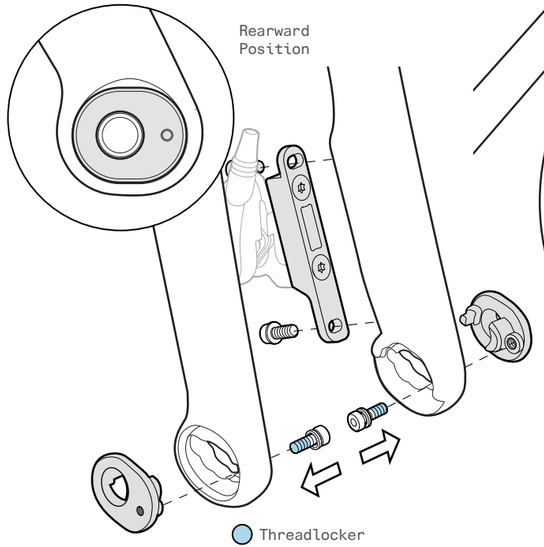
DUAL OFFSET FORK INSERT INSTALLATION

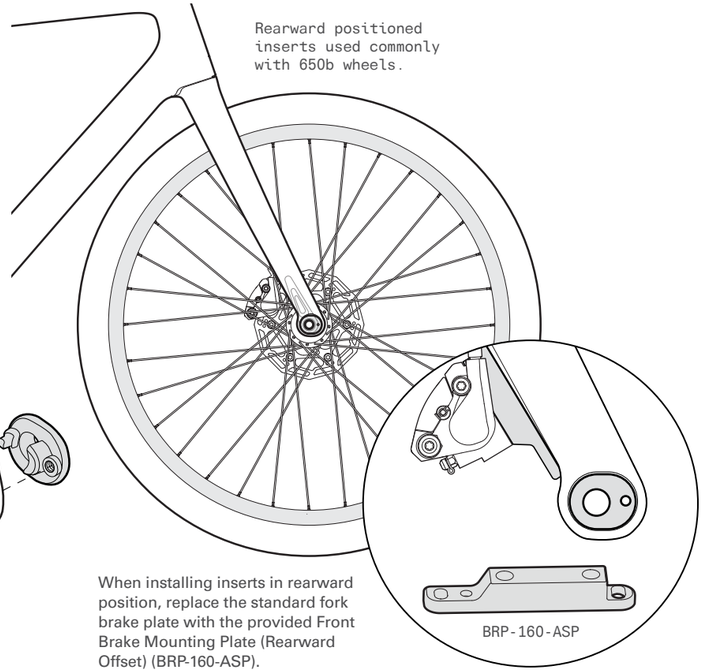
The Áspero fork inserts can be installed in either a forward or rearward position to adjust the bike's handling geometry. Ensure both inserts are oriented correctly to the same position.



1. Apply Loctite 243 to the supplied M4 fixing screws. Install the Offset Fork Inserts (QRI-ASP-THD) and fixing screws with washers, tightening only lightly.
2. Without the wheel in place, install the front thru-axle and tighten until the flange meets the fork dropout face, but does not compress the fork blades.
3. Torque the fixing screws to 2 N·m and then remove the thru-axle.
4. Install wheel and reinstall thru-axle tightening to 12-15 N·m.
5. Remove axle and wheel, and re-torque the fixing screws to 3 N·m.

⚠ WARNING
Cervélo Front Brake Mounting Plate (Rearward Offset) (BRP-160-ASP) must be installed when the fork insert is used in rearward position.





When installing inserts in rearward position, replace the standard fork brake plate with the provided Front Brake Mounting Plate (Rearward Offset) (BRP-160-ASP).

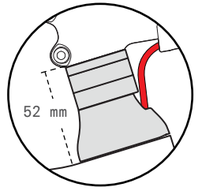
ÁSPERO FORK PREPARATION AND INSTALLATION

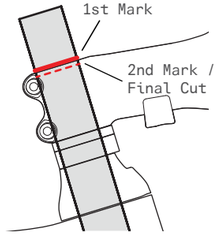
1. Apply grease to the bearing pockets and install the upper and lower headset bearings into the frame.
2. Fit the fork provided with your frame into the head tube with the complete headset, required spacers, and the stem.
3. Apply the minimum pressure needed to ensure the assembly is fully seated. Mark 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 Top 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.

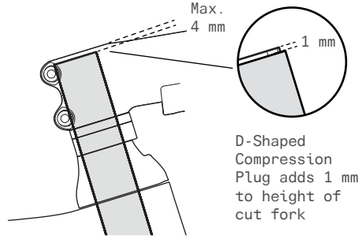
⚠ WARNING
Avoid breathing the dust created during cutting carbon composite materials.

⚠ 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.



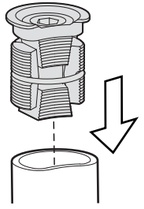




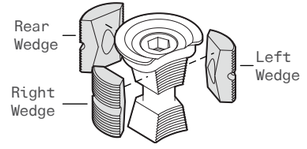
⚠ CAUTION
Do not exceed 5 mm total spacers above the stem.



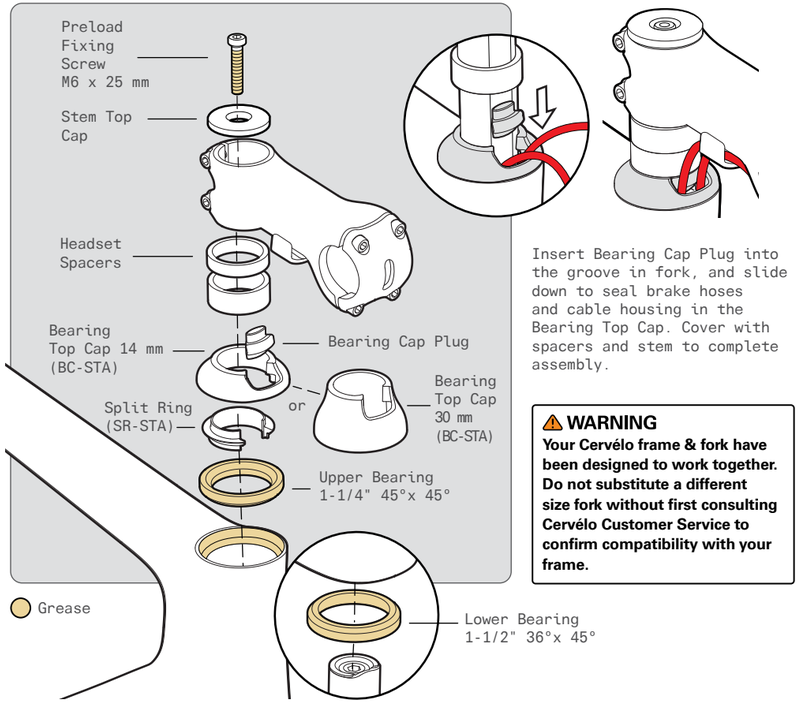
⚠ WARNING
Do not torque Compression Plug past the recommended 8 N·m maximum. If the Compression Plug requires tightening past 8 N·m, please contact Cervélo Customer Service.



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.



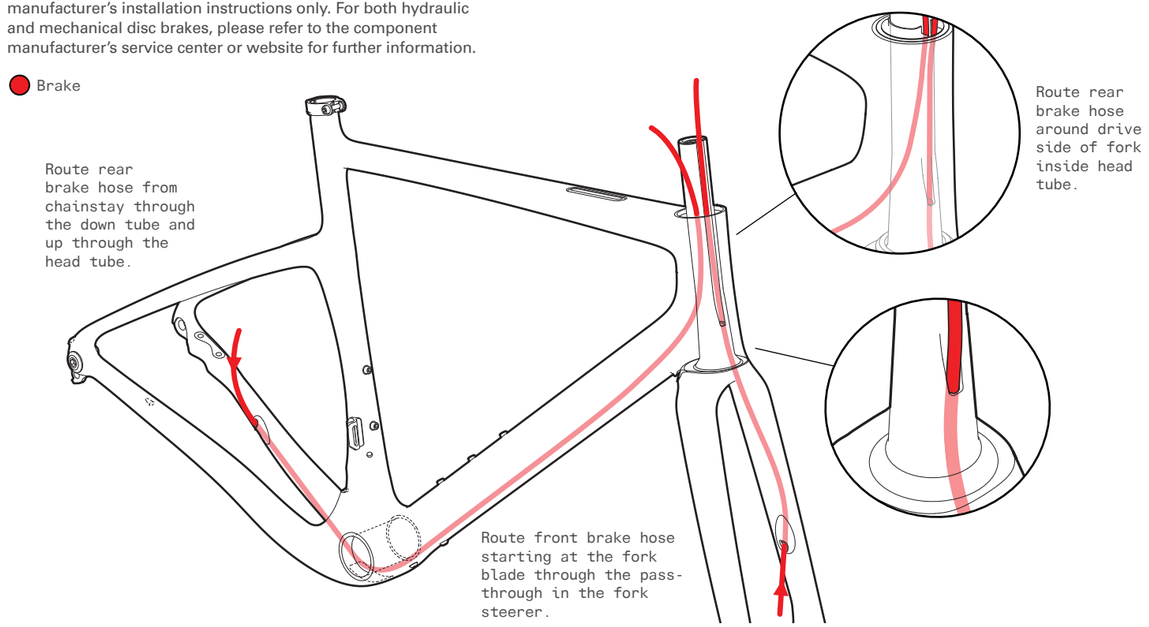
Insert Bearing Cap Plug into the groove in fork, and slide down to seal brake hoses and cable housing in the Bearing Top Cap. Cover with spacers and stem to complete assembly.

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

BRAKE HOSE ROUTING

These routing illustrations are intended as a supplement to the manufacturer's installation instructions only. For both hydraulic and mechanical disc brakes, please refer to the component manufacturer's service center or website for further information.

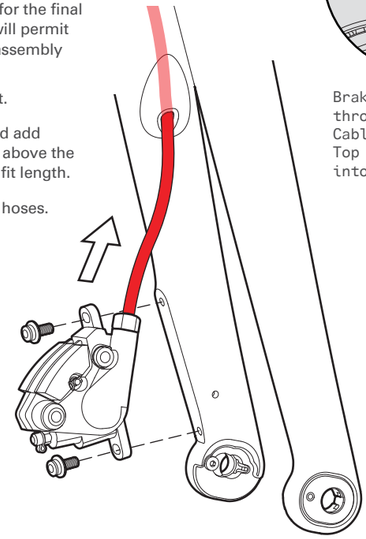
Brake

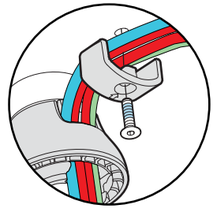


Route hydraulic brake hose through the frame and fork. Install and adjust calipers as per manufacturer's instructions.

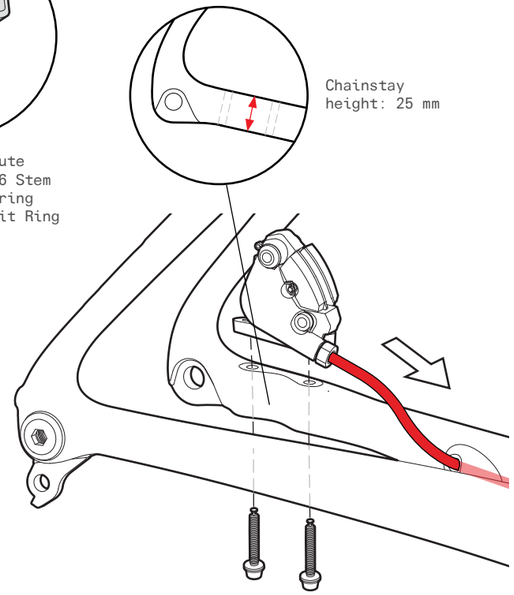
It is recommended to include 20-25 mm of additional brake hose length to the amount required for the final customer fit. Doing so will permit sufficient length for disassembly and service purposes.

1. Measure customer fit.
2. Mark brake hoses and add additional 20-25 mm above the minimum measured fit length.
3. Cut and install brake hoses.
4. Complete assembly.





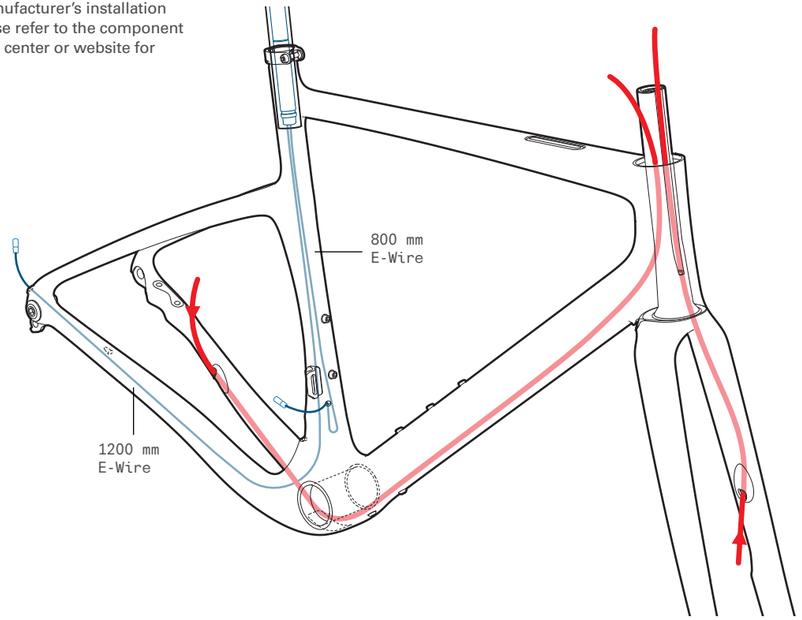
Brakes hoses route through the ST36 Stem Cable Guide,Bearing Top Cap and Split Ring into the frame.

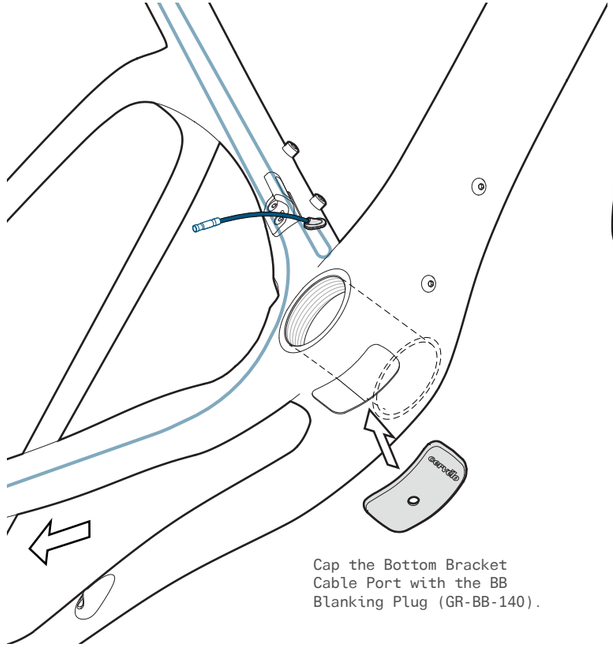


ELECTRIC WIRE ROUTING AND INSTALLATION

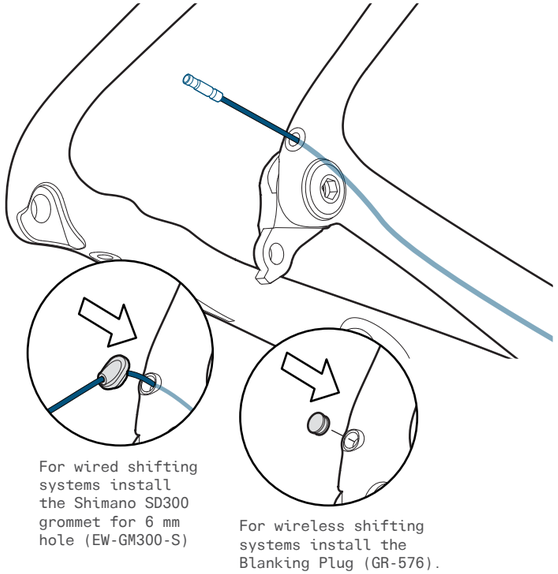
These routing illustrations are intended as a supplement to the manufacturer's installation instructions only. Please refer to the component manufacturer's service center or website for further information.

- Brake
- E-Wire(SD300)





Cap the Bottom Bracket Cable Port with the BB Blanking Plug (GR-BB-140).



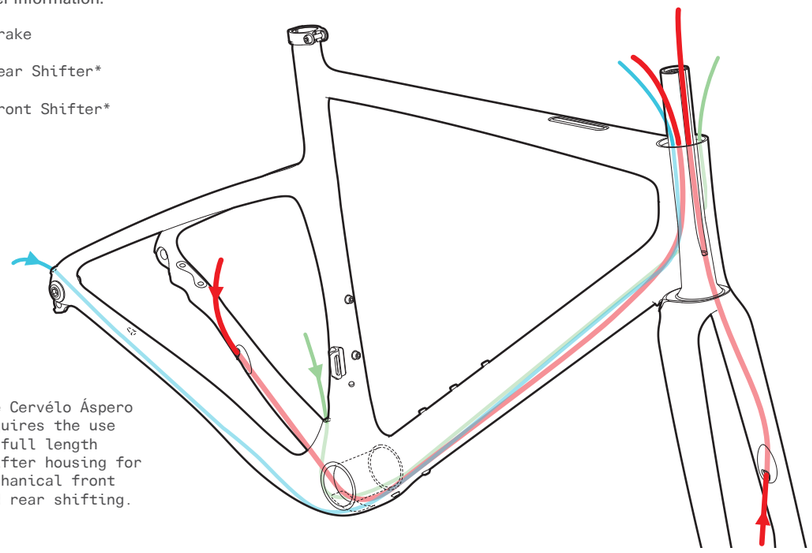
For wired shifting systems install the Shimano SD300 grommet for 6 mm hole (EW-GM300-S)

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

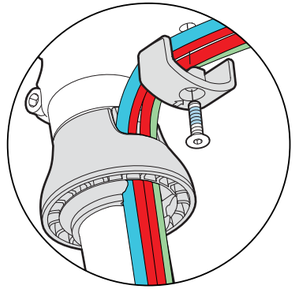
MECHANICAL HOUSING ROUTING AND INSTALLATION

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

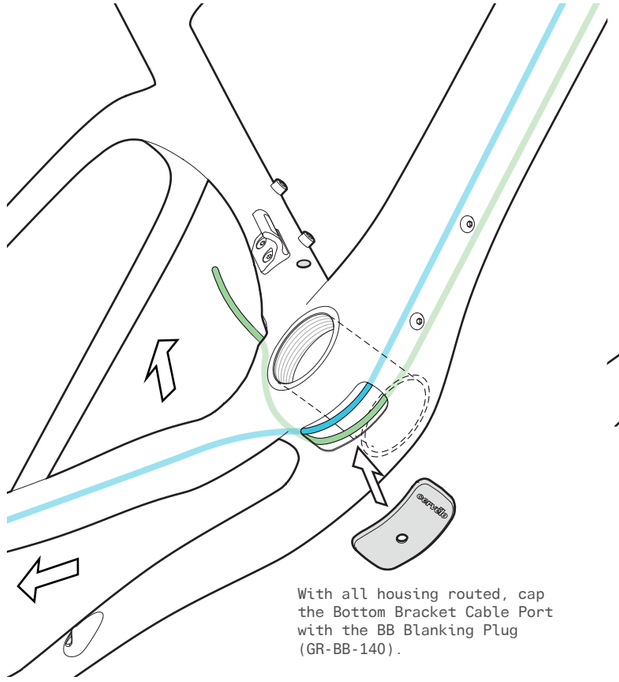
- Brake
- Rear Shifter*
- Front Shifter*



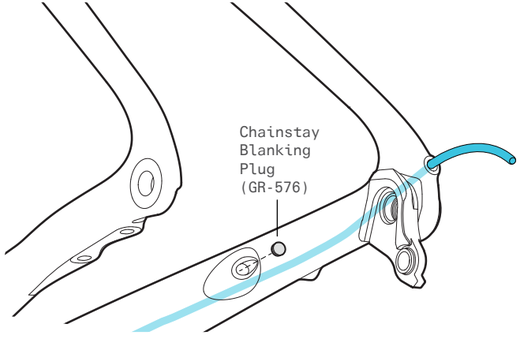
* The Cervélo Áspero requires the use of full length shifter housing for mechanical front and rear shifting.



Brakes hoses and shifter housing route through the ST36 Stem Cable Guide, Bearing Top Cap and Split Ring into the frame.



With all housing routed, cap the Bottom Bracket Cable Port with the BB Blanking Plug (GR-BB-140).



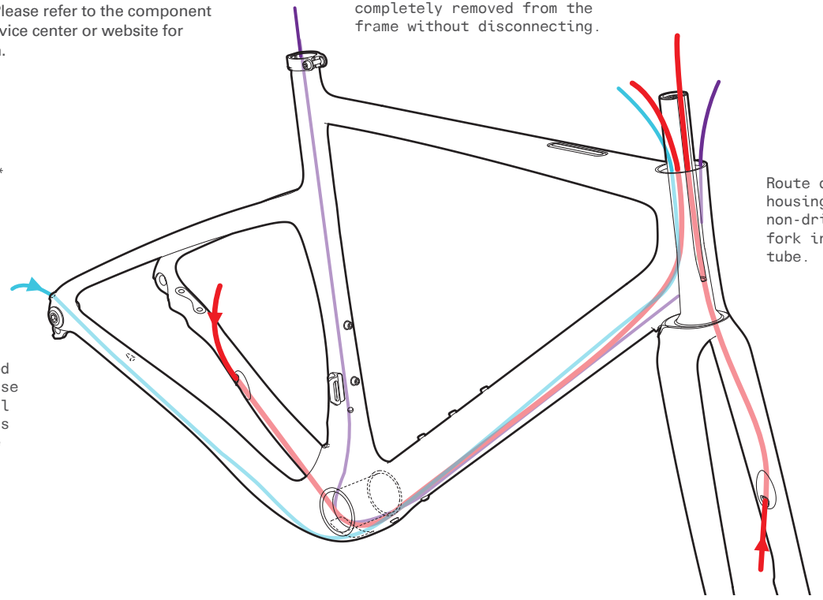
For road/gravel mechanical rear derailleurs, route shifter housing out the rear chainstay exit.

DROPPER POST CABLE ROUTING

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

- Brake
- Rear Shifter
- Dropper Post*

Note: Allow enough housing for the dropper post to be completely removed from the frame without disconnecting.

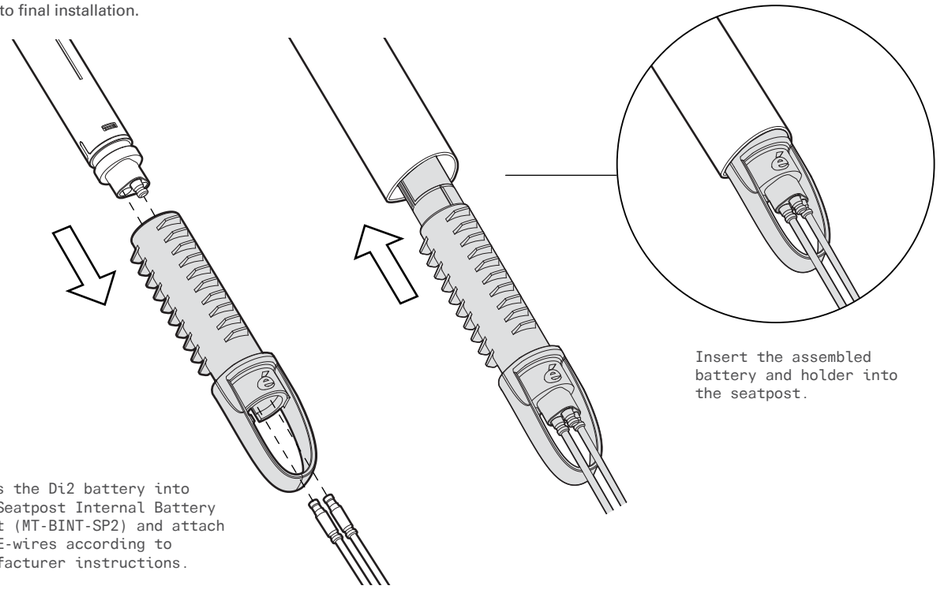


Route dropper post housing around non-drive side of fork inside head tube.

* Cable activated dropper post use with mechanical shifting builds allows the use of 1x groups only.

DI2 BATTERY INSTALLATION

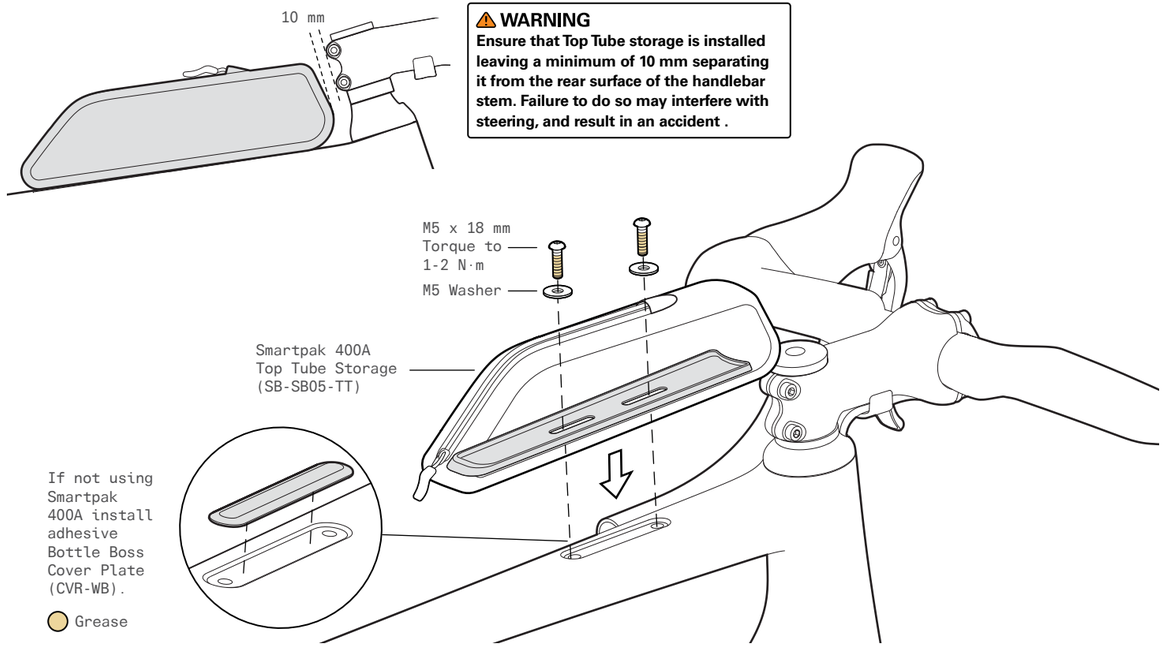
The battery for your Shimano Di2 system mounts inside the seat tube using the Seatpost Internal Battery Mount (MT-BINT-SP2). As this is an enclosed location, it is important to test the system prior to final installation.



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

Insert the assembled battery and holder into the seatpost.

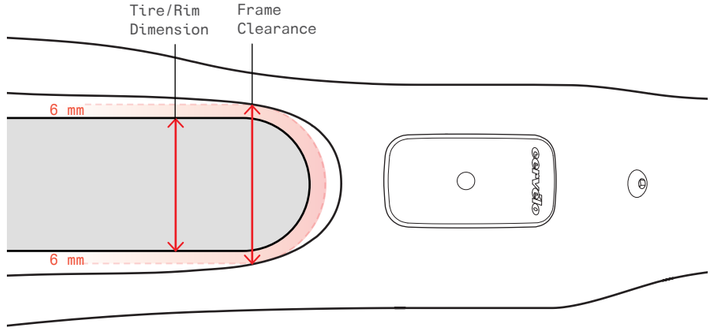
TOP TUBE SMARTPAK INSTALLATION



⚠ 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 .

TIRE/RIM CLEARANCE

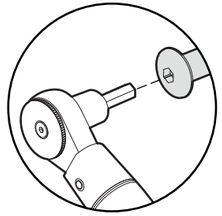
Your Cervélo bicycle complies with the ISO 4210-2:4.10.2 standard for tire clearance. In order to comply with these safety standards and maintain your Limited Lifetime Warranty, a minimum of 6 mm of clearance must remain between the tire and any frame element. Due to the growing complexity of tire and 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.
5. If a 6 mm Allen key does not fit into the smallest gap then the tire clearance is insufficient.

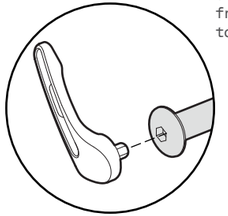
⚠ WARNING
Contact between the tire or rim and the frame or fork may result in a loss of control while riding and potentially serious injury. Failure to follow these guidelines may result in damage to the frame not covered by Cervélo Limited Lifetime Warranty.

AERO THRU-AXLE INSTALLATION

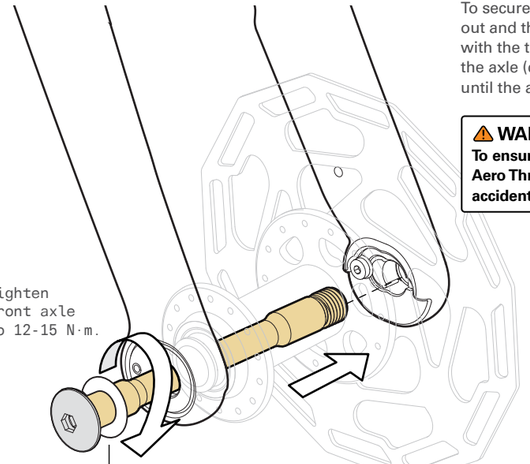


6 mm Allen key
/ torque wrench

or



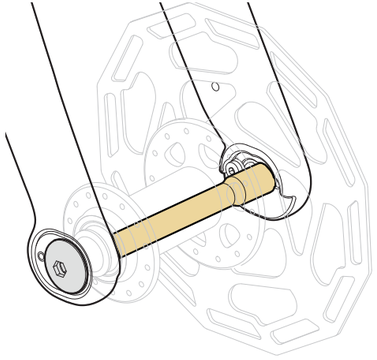
Cervélo Aero Thru-Axle with Removable Handle (QRA-AERO2-F) and Cervélo Road UDH Rear Aero Thru-Axle with Removable Handle (QRA-698)

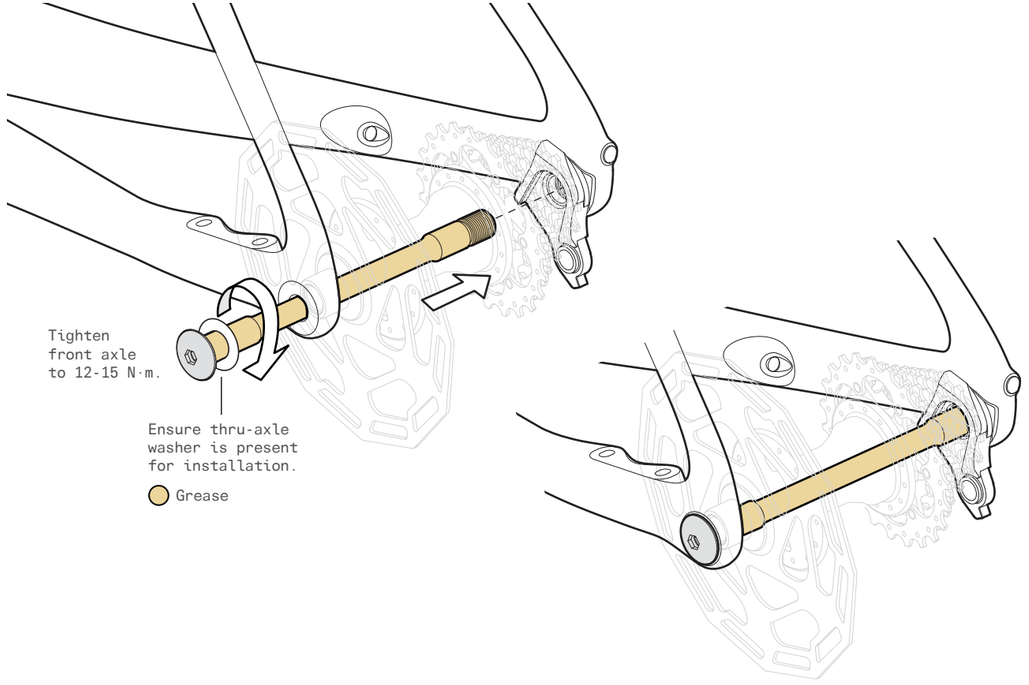


To secure wheels, install the greased axle, through the drop out and the wheel hub, aligning the threaded end of the axle with the threaded insert. Once aligned and engaged, thread the axle (clock-wise) into the threaded component of the insert until the axle is secured tightly.

⚠ WARNING

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





INTENDED USE OF THE ÁSPERO 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

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 TORQUE SPECIFICATIONS

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

Use only a correctly calibrated torque wrench to tighten critical fasteners on your bike. Carefully follow the torque wrench manufacturer's instructions on how to set and use the tool for accurate results. Ensure you read all relevant documentation and have the correct tools prior to attempting any adjustments yourself. It is recommended that you permit your retailer to perform the following adjustments, as they have the proper tools and experience to ensure it is done correctly.

Prior to assembling and tightening any bolts, all threads must be generously greased with a quality, non-lithium type grease (ParkTool HPG-1 or equivalent) unless the bolt is pre-coated with Loctite® thread locker. **All bolts should have either grease or Loctite - but never both.** Torque wrenches with scale appropriate for the particular torque setting are strongly recommended for tightening all threaded fasteners.

Cervélo strongly recommends the use of carbon assembly compound/friction paste (Dynamic Assembly Compound Carbon or equivalent) for all areas of clamping to carbon fiber, such as the seatpost to frame, the stem to fork, and the handlebar to stem joints. Benefits to using this paste include reduced corrosion potential, and a decrease in required clamping force needed to support a given load. The paste should be evenly spread on the carbon surface under the clamped area, and the applicable bolt tightened as per the following recommendations.

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

Component	Torque (N·m)	Notes
Frame		
Bottom bracket - threaded - T47	50 N·m	Clean & 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.
Rear derailleur fixing screw (SRAM UDH)	25 N·m	Apply grease only to the thru axle threads. Do not apply grease to the UDH hanger or fixing screw. Rotate the hanger toward the front of the bike before tightening.
Removable FDM / FDM blanking plate	3 N·m	
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.

ÁSPERO TORQUE SPECIFICATIONS

Component	Torque (N·m)	Notes
Fork dropout inserts	2 N·m	Apply Loctite 243 to bolt threads, install the inserts with washers finger tight on the fork dropouts. Tighten the insert screws to snug fit. Install the axle (no wheel), and tighten the insert bolts to torque. Remove the axle, install the axle & wheel, tighten axle to recommended torque, then remove. Re-torque the fixing screw to recommended torque.
Stem – ST36		
Stem to fork steerer tube	5 N·m	Lightly grease the handlebar fixing screws, and alternately tighten the screws evenly to recommended torque.
Stem to alloy handlebar	6 N·m	Lightly grease the handlebar fixing screws, and alternately tighten the screws evenly to recommended torque.
Stem to carbon handlebar	6 N·m	Lightly grease the handlebar fixing screws, and alternately tighten the screws evenly to recommended torque.
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)		
Round collar - carbon post	6 N·m	Use carbon assembly compound between the seatpost and the frame.
Round collar - alloy post	6 N·m	Use good quality bicycle grease between the seatpost and the frame.
Saddle (seatpost head bolts) – SP19 Carbon		
2 bolt head - carbon post	7 N·m	Apply Loctite 243 to bolt threads
2 bolt head - alloy post	-	Refer to manufacturer's instructions
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.

ÁSPERO FRAME DETAILS

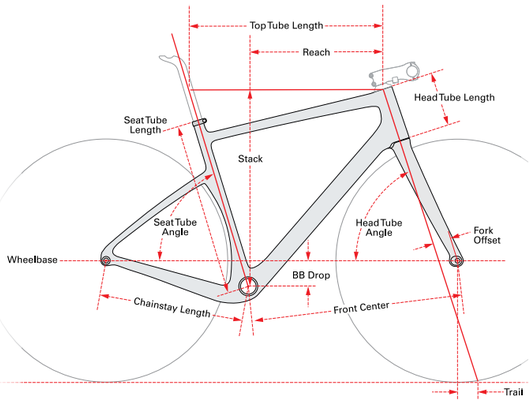
Áspero (FM157)	
Bike Name	Áspero
Model Year	2024
Serial Number Code	SN157
Frame Code	FM157
Fork Code	FK157
Brake Mount Type	Flat Mount Disc
Chainstay Height (Flat Mount)	25 mm
Frame Sizes	48/51/54/56/58/61
Wheel Size	700c
BB Type	T47 BBRight (T47A) Threaded
Headset Type	Integrated 1-1/4" x 1-1/2"

Áspero (FM157)	
Upper Headset Bearing Dimensions	1-1/4", 34 x 46.8 x 7, 45°x45°
Lower Headset Bearing Dimensions	1-1/2", 40 x 51.8 x 7.5, 36°x45°
Seatpost	27.2 mm Round
Seatpost Clamp	SPC-SQ-R-2011-A
Rear Derailleur Hanger	SRAM UDH
Front Derailleur Hanger	FDM-0E0
Front Thru-Axle Dimensions	12 x 127 mm, M12 x 1.5 (100 mm axle spacing)
Rear Thru-Axle Dimensions	12 x 169 mm, M12 x 1.0 (142 mm axle spacing)
Fork Dropout Insert	QRI-ASP-THD
Maximum Tire Width (Actual)	45 mm (700c) / 47 mm (650b) with 6 mm clearance*

* 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 FRAME GEOMETRY

Áspero (FM157)	48 cm	51 cm	54 cm	56 cm	58 cm	61 cm
Reach | mm	370	379	388	397	406	415
Stack | mm	505	530	555	580	605	630
Bottom Bracket Drop | mm	78.5	78.5	76	76	73.5	73.5
Chainstay Length | mm	425	425	425	425	425	425
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	385	385	385	385	385	385
Fork Offset (700c/650b) | mm	52/57	49/54	46/51	46/51	46/51	46/51
Front Center (700c/650b) | mm	577/582	587/592	597/602	614/619	631/637	648/654
Head Tube Length | mm	83	107	133	159	188	214
Wheelbase (700c/650b) | mm	995/990	1004/999	1015/1010	1033/1028	1051/1046	1068/1063
Standover Height | mm	681	704	733	757	784	808
Seat Tube Length | mm	437	461	485	510	530	554
Top Tube Length | mm	512	532	553	575	591	608



MECHANICAL SAFETY CHECK

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

Before Every Ride:

1. Check the frame and fork for signs of stress: scratches, cracks, dents, deformation, or discoloration. Inspect the chainstay guard and ensure it is correctly and securely attached.
2. Check that the front wheel is securely mounted to the fork, and the rear wheel to the frame.
3. Check that the wheels spin straight through the fork and swingarm. Wheels should spin freely and without brake rub.
4. Check the tire pressure is in the recommended range for the tire and rim.
5. Check the brakes, including brake levers, calipers, rotors, brake pads, and brake lines. Verify that the attachment bolts are correctly tightened. Squeeze the brake levers to verify the calipers close and prevent the bike from rolling forward or backwards. The brake levers should not contact the handlebars even at full force.
6. Check that the handlebar and stem are correctly positioned and aligned relative to the front wheel. Check that the stem bolts are correctly tightened. Inspect for signs of stress: scratches, cracks, dents, deformities, and discoloration.
7. Cycle the suspension to check for proper function. Clean the stanchions if any debris is present. Verify that suspension systems are set to your preferences.
8. Check that the lighting system and reflectors are in good working order.
9. Check that the saddle and seatpost are correctly positioned and tightened. The saddle should be aligned with the top tube of the frame.
10. Check for smooth shifting operation, and adjust if needed.
11. Check that the pedals and shoes are free of debris that can interfere with the retention system.
12. Lubricate the chain using a good quality chain lube (ParkTool CL-1 or equivalent).

Every Week (~100 miles):

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

Every Month (~400 miles):

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

MECHANICAL SAFETY CHECK

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

Every 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 Cervélo retailer for service. It is important to remember that service intervals can vary depending on climate, trail conditions, and riding frequency.

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

CERVÉLO CUSTOMER SUPPORT

Contacting Customer Support
Visit www.cervelo.com/contact-us 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.

NOTES

2024 ÁSPERO RETAILER MANUAL

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