2026 S5 RETAILER ASSEMBLY MANUAL

cervélo

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IMPORTANT INFORMATION

This manual is intended to guide official Cervélo retailers through the assembly and adjustment of the Cervélo S5. 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.

⚠ 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.

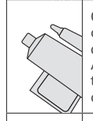
LIST OF TOOLS AND SUPPLIES

This manual outlines a number of procedures for making adjustments to the S5 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.

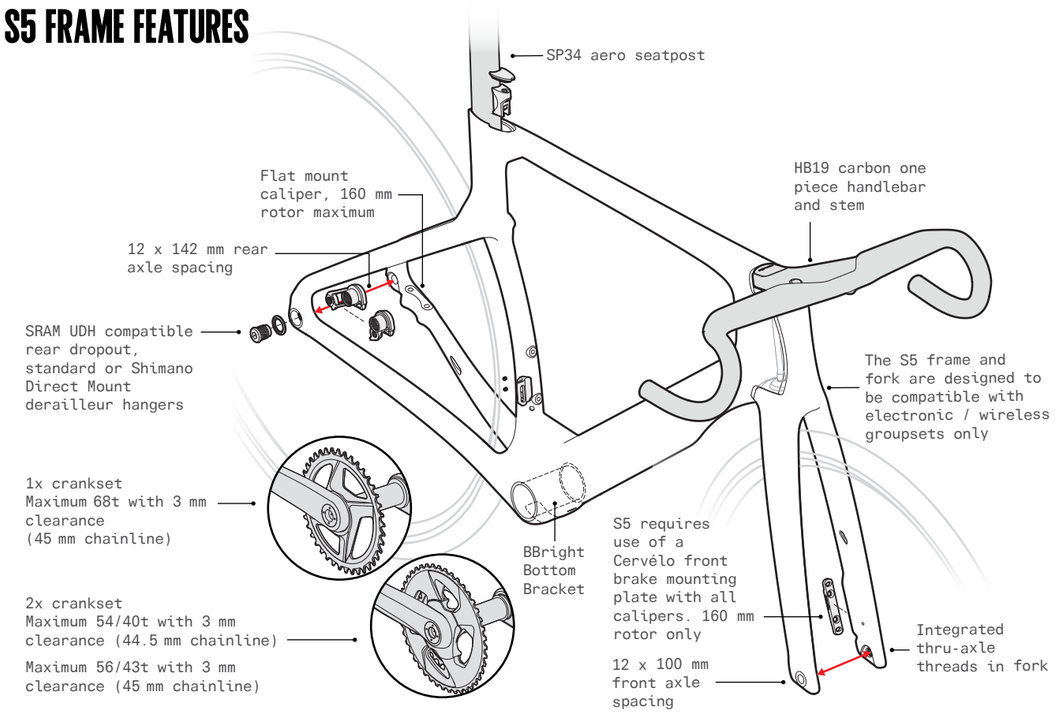
NOTE: All non-proprietary components such as those from Shimano or SRAM are available from your local distributor.

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
	Cable cutters and / or brake hose cutting tools
	Pliers
	Brake rotor lockring and / or bottom bracket cup tools
	Bottom bracket / bearing press

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)

S5 FRAME FEATURES



S5 PARTS LIST

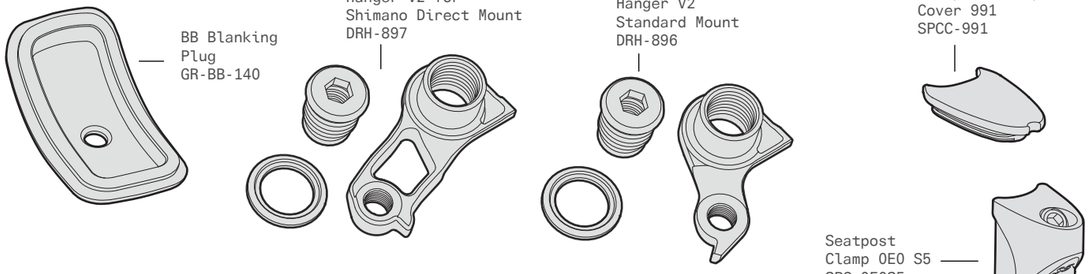
Item Description	Cervélo Part No.
Upper Headset Bearing FSA 1-1/8" 36° x 45°	HS-054
Lower Headset Bearing FSA 1-3/8" 36° x 45°	HS-031
Upper Headset Bearing FSA Super Light (SL) 1-1/8" 36° x 45°	HS-054SL
Lower Headset Bearing FSA Super Light (SL) 1-3/8" 36° x 45°	HS-031SL
S5F FK Tension Rod Kit with Tension Rod, Bumper, Preload Cone and Fork Fixing Screw	**See Page 11**
Tension Rod Bumper	HS-581
S5F Fork Gap Spacer Kit	FKI-GPSP
S5G Headset Spacer Kit	HSS-S5G-KT
HB19 Carbon One Piece Handlebar Stem	**See Page 9**
HB19 Bolt Cover Kit	GR-HB19
HB19 Mounting Hardware Kit	SK-HB19

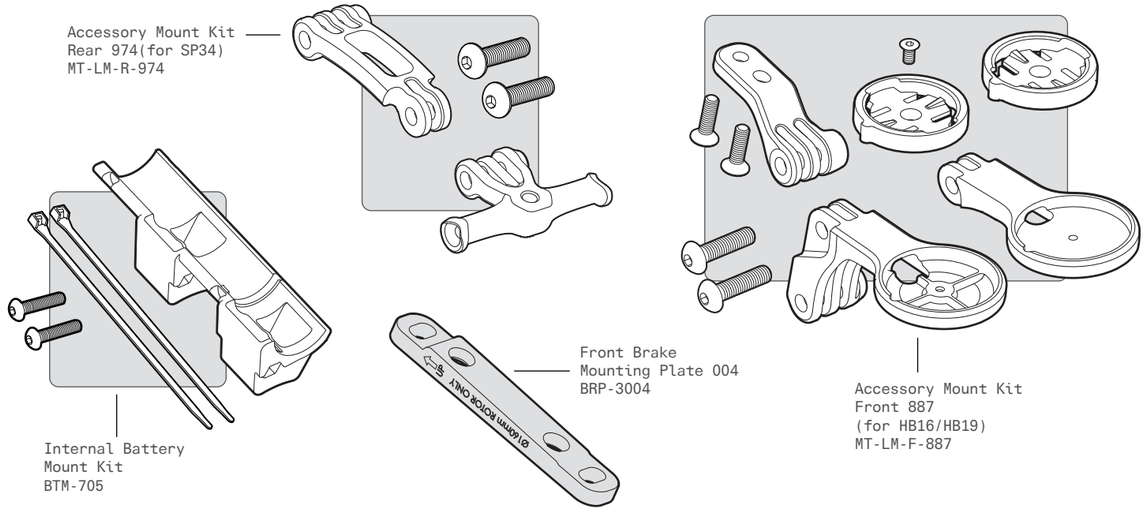
Item Description	Cervélo Part No.
Front Brake Mounting Plate 004	BRP-3004
Front Derailleur Mount 907 with Fixing Screws	FDM-907
Set Screw Blanking FDM	SS-FDM-192
Down Tube Internal Battery Mount Assembly	BTM-705
Bottom Bracket Blanking Plug	GR-BB-140
6 mm Blanking Plug	GR-576
Shimano SD300 Grommet for 6 mm Hole	EW-GM300-S
Chainstay Protector	PRO-CS-508
Seatpost Clamp Assembly 0E0 S5	SPC-0E0S5
Seatpost Clamp Cover 991	SPCC-991

Item Description	Cervélo Part No.
SP34 Carbon Seatpost 0 mm Offset	SP-SP34-ZERO-B
SP34 Carbon Seatpost 15 mm Offset	SP-SP34-15MM-B
Accessory Mount Kit Front 887 (for HB16/HB19)	MT-LM-F-887
Accessory Mount Kit Rear 974 (for SP34)	MT-LM-R-974
Cervélo Front Aero Thru-Axle V2 with Removable Handle	QRA-882
Removable Handle For Cervélo Aero Thru-Axle	QRA-AERO2-HNDL
Cervélo Road UDH Rear Aero Thru-Axle with Removable Handle	QRA-698
Cervélo Derailleur Hanger V2 Standard Mount (for UDH frames)	DRH-896
Cervélo Derailleur Hanger V2 for Shimano Direct Mount (for UDH frames)	DRH-897

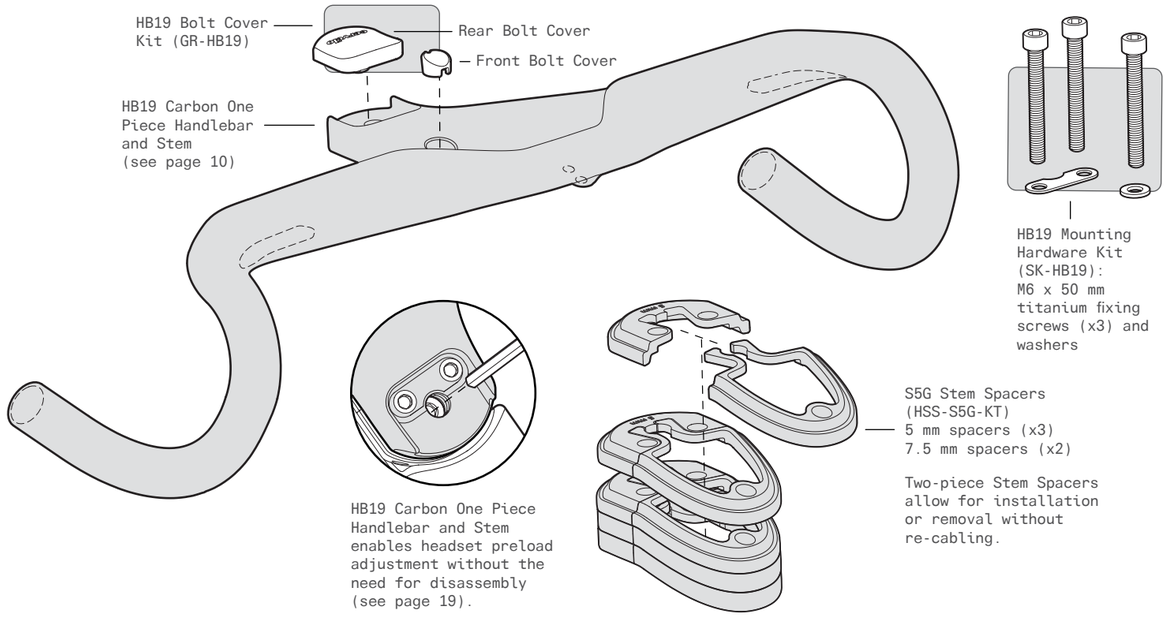
SMALL PARTS

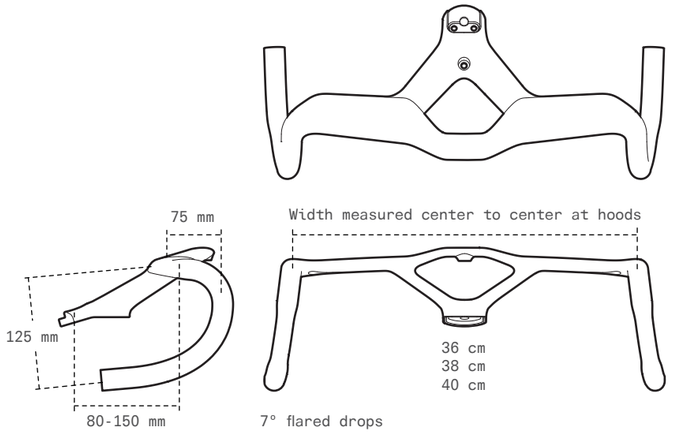
The S5 frame is engineered to provide seamless integration of electronic shifting systems. In order to do so, you may require the parts shown below:





HB19 CARBON ONE PIECE HANDLEBAR AND STEM

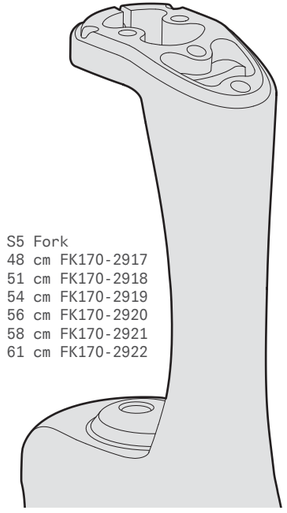




Part No.	Stem Length	Handlebar Width
36 cm - HB19 Carbon One Piece Handlebar and Stem		
HB-HB19-80-36/40-B	80 mm	36 cm (40 cm at drops)
HB-HB19-90-36/40-B	90 mm	
HB-HB19-100-36/40-B	100 mm	
HB-HB19-110-36/40-B	110 mm	
HB-HB19-120-36/40-B	120 mm	
HB-HB19-130-36/40-B	130 mm	
HB-HB19-140-36/40-B	140 mm	
38 cm - HB19 Carbon One Piece Handlebar and Stem		
HB-HB19-90-38/42-B	90 mm	38 cm (42 cm at drops)
HB-HB19-100-38/42-B	100 mm	
HB-HB19-110-38/42-B	110 mm	
HB-HB19-120-38/42-B	120 mm	
HB-HB19-130-38/42-B	130 mm	
HB-HB19-140-38/42-B	140 mm	
HB-HB19-150-38/42-B	150 mm	
40 cm - HB19 Carbon One Piece Handlebar and Stem		
HB-HB19-100-40/44-B	100 mm	40 cm (44 cm at drops)
HB-HB19-110-40/44-B	110 mm	
HB-HB19-120-40/44-B	120 mm	
HB-HB19-130-40/44-B	130 mm	
HB-HB19-140-40/44-B	140 mm	

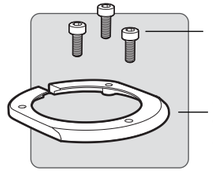
FORK AND HEADSET COMPONENTS

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



S5 Fork
48 cm FK170-2917
51 cm FK170-2918
54 cm FK170-2919
56 cm FK170-2920
58 cm FK170-2921
61 cm FK170-2922

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

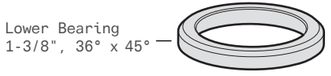


M3 x 8 mm Fixing Screws (x3)

Upper Bearing Gap Spacer with Fixing Screws (FKI-GPSP)



Upper Bearing
1-1/8", 36° x 45°

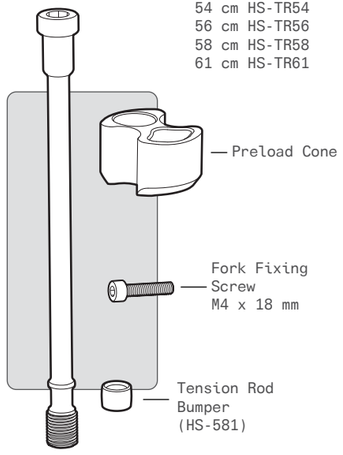


Lower Bearing
1-3/8", 36° x 45°

Tension Rod (Frame size specific)

S5F FK Tension Rod Kit(Tension Rod, Tension Rod Bumper, Preload Cone and Fork Fixing Screw)

48 cm HS-TR48
51 cm HS-TR51
54 cm HS-TR54
56 cm HS-TR56
58 cm HS-TR58
61 cm HS-TR61

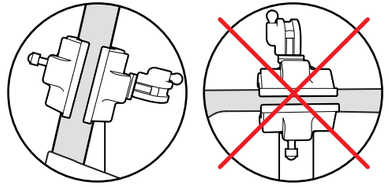


Preload Cone

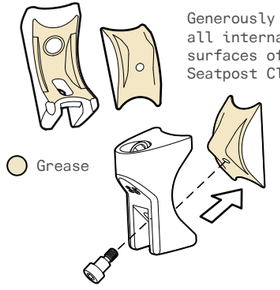
Fork Fixing Screw M4 x 18 mm

Tension Rod Bumper (HS-581)

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.

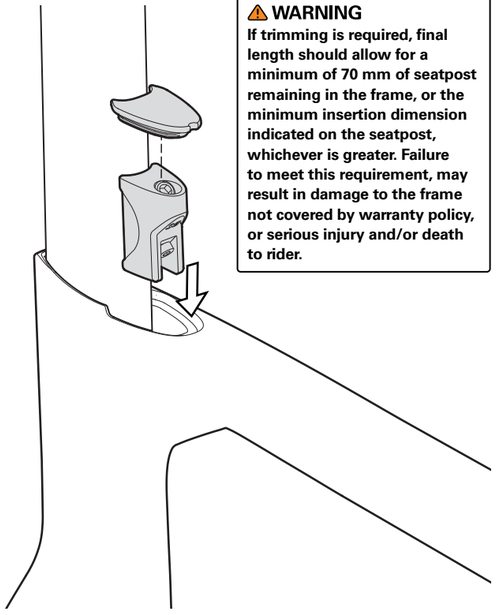


Generously grease all internal surfaces of the Seatpost Clamp.

Grease

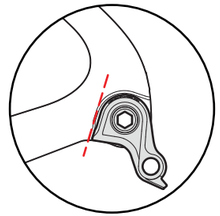
NOTE: Failure to install the Seatpost Clamp Cover may result in seatpost binding due to accumulated debris.

1. Apply carbon paste to the frame and seatpost shaft to be inserted into the frame.
2. Insert the seatpost and the assembled Seatpost Clamp 0E0 S5 (SPC-0E0S5) into the frame.
3. Adjust the seatpost height and torque the Seatpost Clamp to 8 N·m maximum.
4. Install Seatpost Clamp Cover 991 (SPCC-991) to finish.

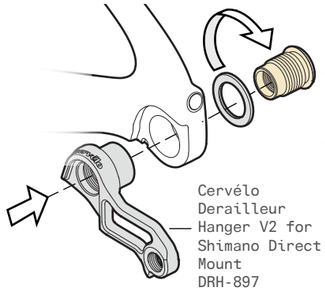


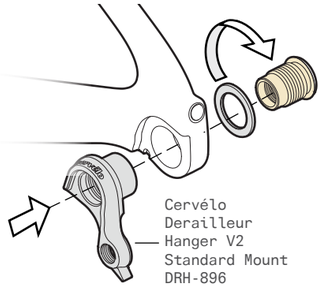
⚠ WARNING
If trimming is required, final length should allow for a minimum of 70 mm of seatpost remaining in the frame, or the minimum insertion dimension indicated on the seatpost, whichever is greater. Failure to meet this requirement, may result in damage to the frame not covered by warranty policy,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

FRAME AND COMPONENT PREPARATION



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

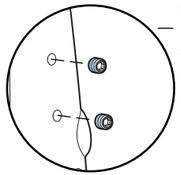




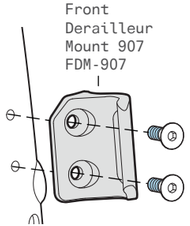
NOTICE: The Derailleur Hanger V2 hanger fixing screws are left-hand threaded.

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

Grease



Ensure threadlocker is applied to the M4 fixing screws.

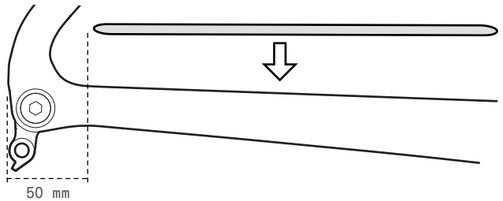


For 2x systems, install Front Derailleur Mount 907 (FDM-907), and ensure fixing screws are torqued to 3 N·m.

For 1x systems, replace with the Set Screw Blanking FDM (SS-FDM-192). Tighten the set screws to 1 N·m maximum.

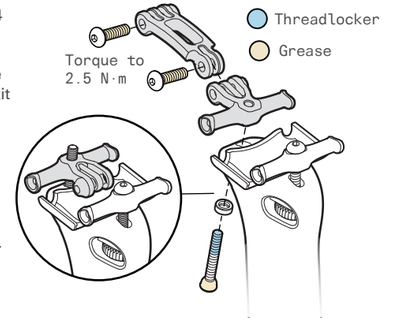
Threadlocker

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.



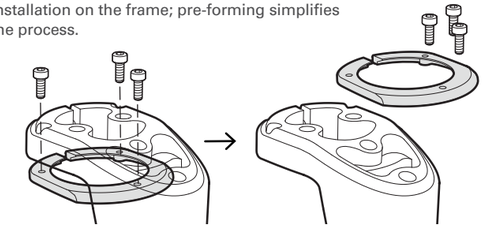
Install Accessory Mount Kit Rear 974 (MT-LM-R-974) by replacing the rear upper clamp of the seatpost with the kit version. Tighten to maximum 7 N·m.

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

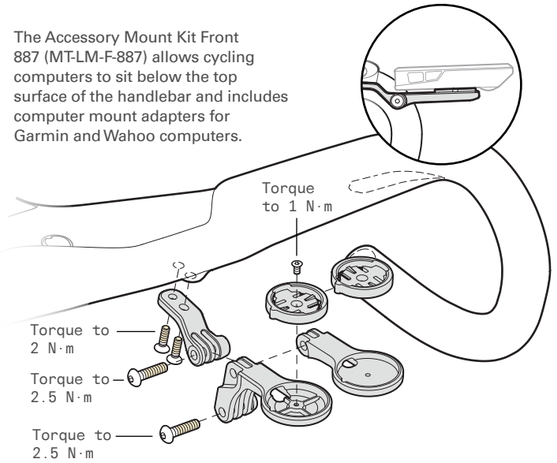


In preparation for assembly, pre-form threads in the Upper Bearing Gap Spacer (FKI-GPSP) by installing the supplied M3 x 8 mm fixing screws with the fork separate from the frame.

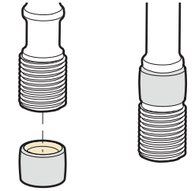
Remove the screws and Gap Spacer. The Gap Spacer will be reinstalled on the fork after installation on the frame; pre-forming simplifies the process.



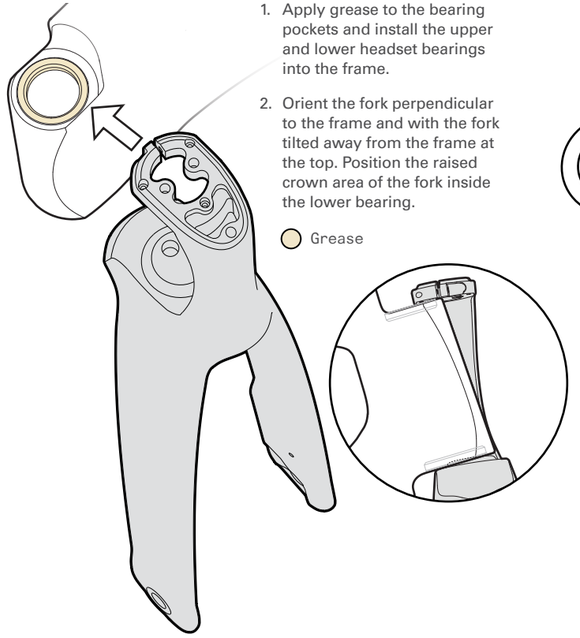
The Accessory Mount Kit Front 887 (MT-LM-F-887) allows cycling computers to sit below the top surface of the handlebar and includes computer mount adapters for Garmin and Wahoo computers.



Lightly grease interior of the Tension Rod Bumper (HS-581) and install onto Tension Rod (see page 19).

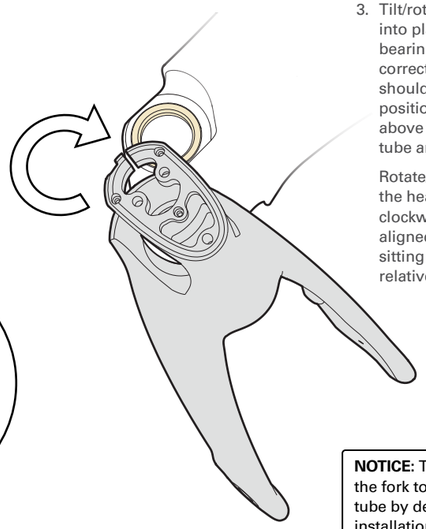


FORK INSTALLATION



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

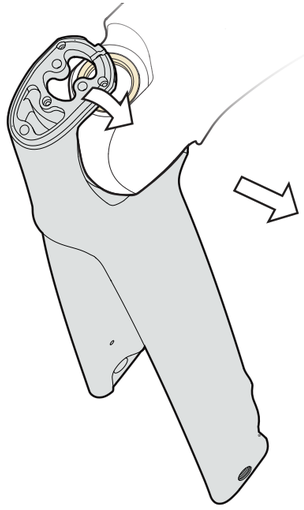
Grease



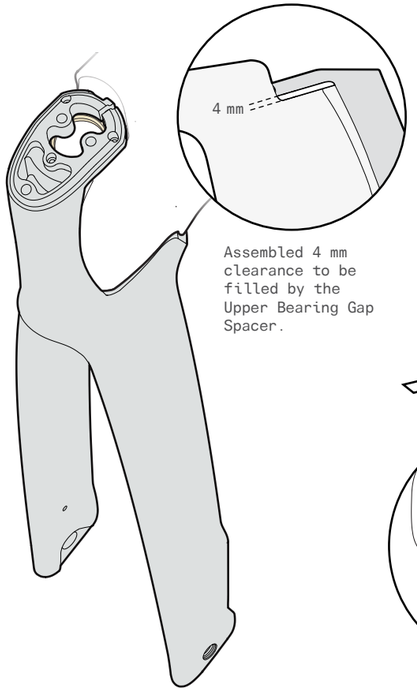
3. Tilt/rotate the top of the fork into place over the upper bearing. When positioned correctly, little or no effort should be required to position the top of the fork above the front of the head tube and upper bearing.

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

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

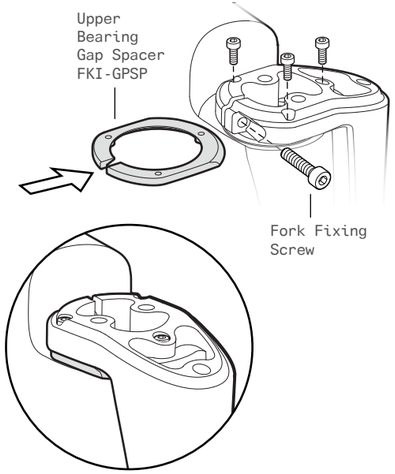


4. With the lower bearing mostly seated in this position, gently slide the fork laterally and let the crown settle fully into the lower bearing. Once fully seated, the top of the fork can be fully aligned above the upper bearing.



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

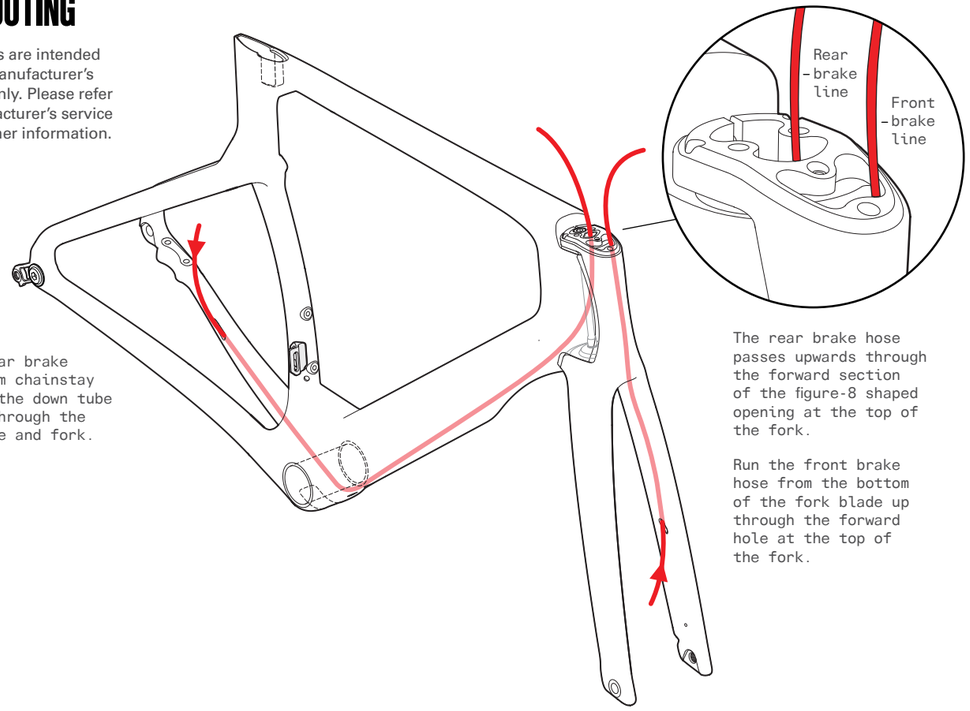
5. Rotate the fork perpendicular to the frame, and install the Fork Fixing Screw finger tight. Install the Upper Bearing Gap Spacer. Fasten with the M3 x 8 mm fixing screws, torque to 1 N·m (finger tight).



BRAKE HOSE ROUTING

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

Brake

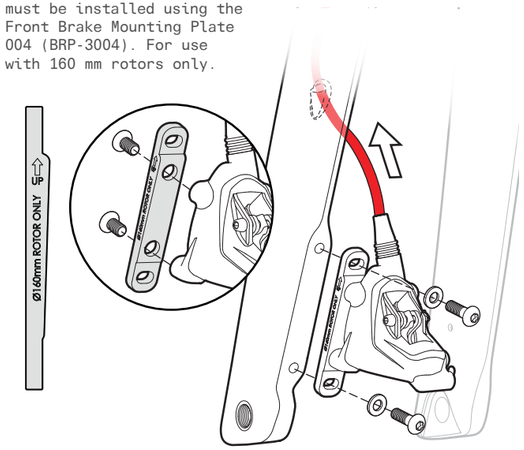


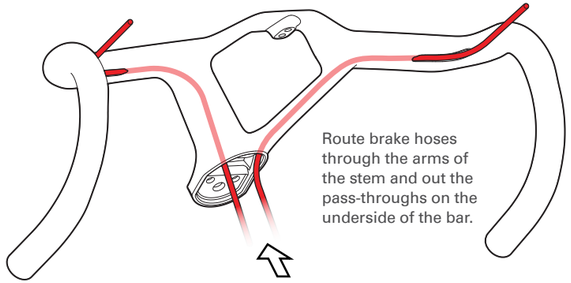
Route rear brake hose from chainstay through the down tube and up through the head tube and fork.

The rear brake hose passes upwards through the forward section of the figure-8 shaped opening at the top of the fork.

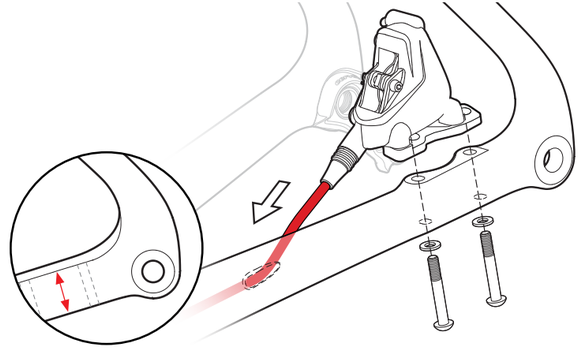
Run the front brake hose from the bottom of the fork blade up through the forward hole at the top of the fork.

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





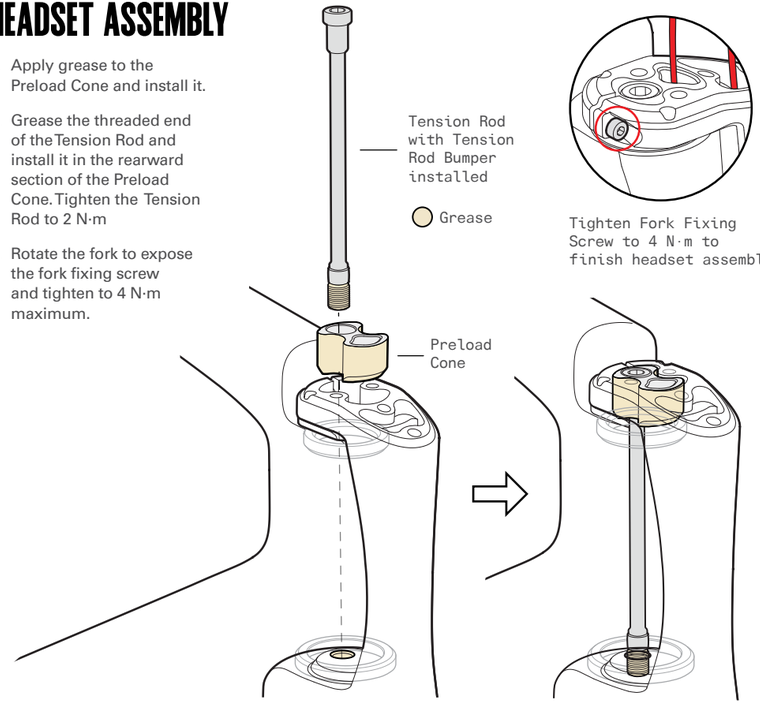
Route brake hoses through the arms of the stem and out the pass-throughs on the underside of the bar.



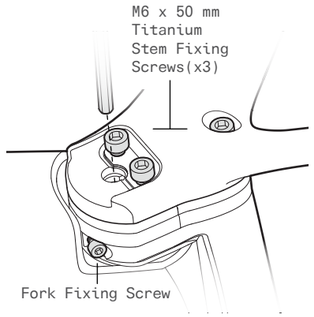
Chainstay height: 25 mm

HEADSET ASSEMBLY

1. Apply grease to the Preload Cone and install it.
2. Grease the threaded end of the Tension Rod and install it in the rearward section of the Preload Cone. Tighten the Tension Rod to 2 N·m
3. Rotate the fork to expose the fork fixing screw and tighten to 4 N·m maximum.



Tighten Fork Fixing Screw to 4 N·m to finish headset assembly.

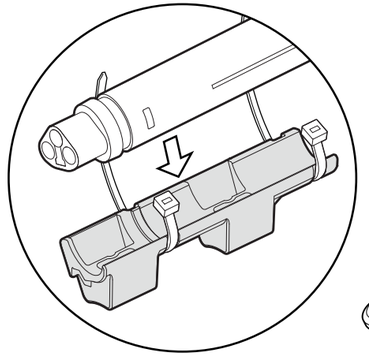


To adjust the headset preload with HB19 installed:

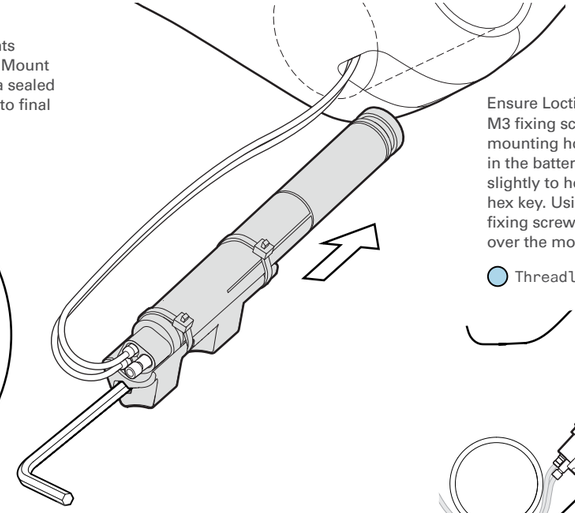
1. Loosen the Fork Fixing Screw and the three M6 x 50 mm Titanium Stem Fixing Screws.
2. Tighten the Tension Rod to 2 N·m.
3. Re-tighten Fork Fixing Screw to 4 N·m.
4. Re-tighten the three Titanium Stem Fixing Screws, alternating repeatedly, until all fixing screws reach 8 N.m torque.
5. To finish, tighten the Fork Fixing Screw a second time to 4 N·m.

DI2 BATTERY INSTALLATION

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



Attach battery to mount using two zip ties.

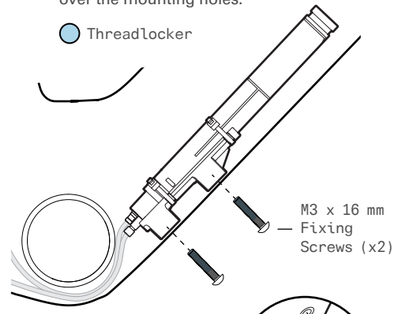


Insert a long 5 mm hex key into the lower end of the holder to work as an insertion tool.

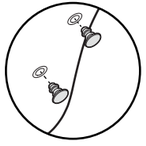
Pass the battery and holder assembly through the opening in the bottom bracket shell and position it in the down tube, so that the fixing nuts are located over the mounting holes.

Ensure Loctite 242 is applied to the M3 fixing screws. Pass through the mounting holes to catch the fixing nuts in the battery holder, tightening only slightly to hold in place. Remove 5 mm hex key. Using a 2 mm hex key, tighten fixing screws to maximum of 2.5 N·m over the mounting holes.

Threadlocker



Install the M5 Blanking Plugs if not using the Internal Battery Mount.



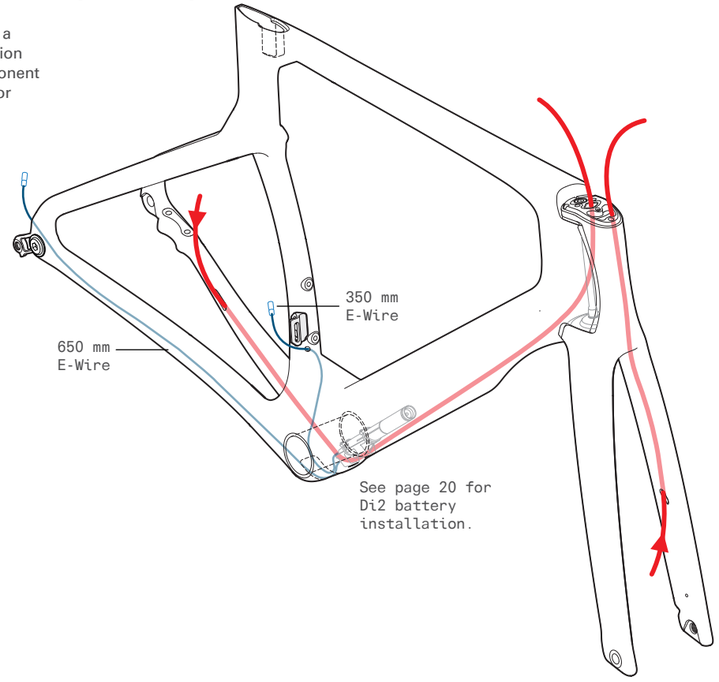
ELECTRIC WIRE ROUTING AND INSTALLATION

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.

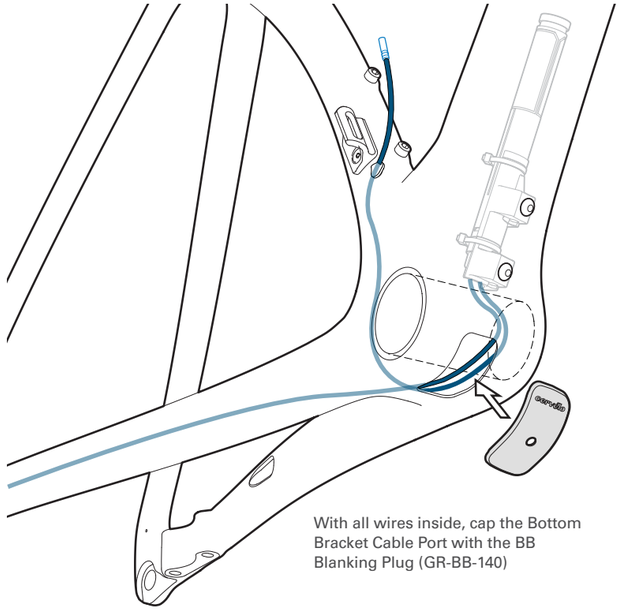
Brake

E-Wire(SD300)

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

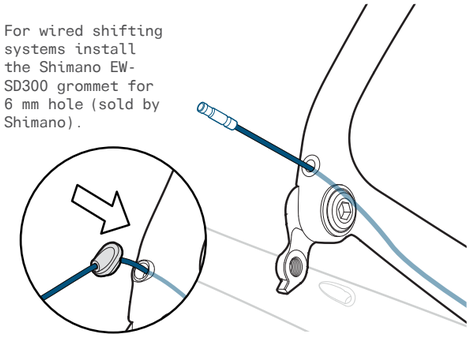


See page 20 for Di2 battery installation.

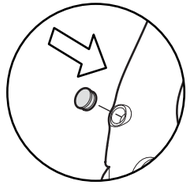


With all wires inside, cap the Bottom Bracket Cable Port with the BB Blanking Plug (GR-BB-140)

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



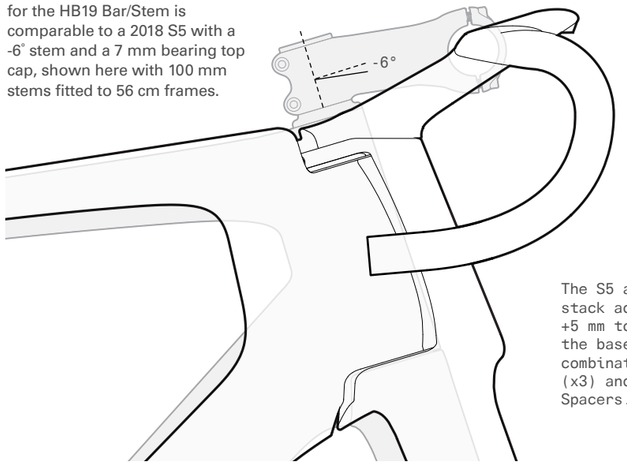
For wireless shifting systems install the Blanking Plug (GR-576).



HB19 STACK AND REACH

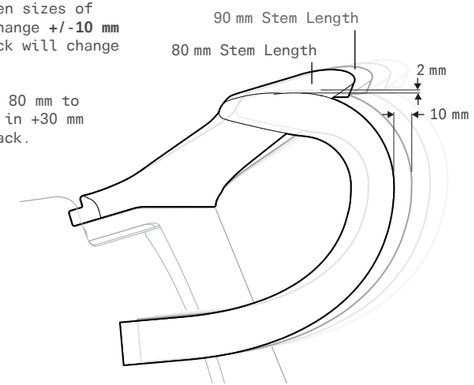
⚠ WARNING
Cervélo S5 Headset Spacer Kits must be utilized without substitution or combination of parts. Failure to use the specified parts and to follow the supplied assembly instructions may result in a loss of control while riding and potentially serious injury.

Base position (no Stem Spacers) for the HB19 Bar/Stem is comparable to a 2018 S5 with a -6˚ stem and a 7 mm bearing top cap, shown here with 100 mm stems fitted to 56 cm frames.

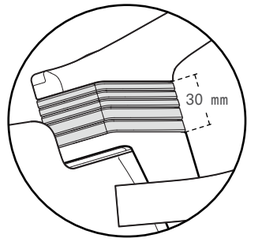


If switching between sizes of HB19, reach will change **+/-10 mm** per size while stack will change **+/-2 mm** per size.

E.g. switching from 80 mm to 110 mm will result in +30 mm reach and +6 mm stack.



The S5 allows for spacer stack adjustment from +5 mm to +30 mm above the base position using combinations of the 5 mm (x3) and 7.5 mm (x2) Stem Spacers.

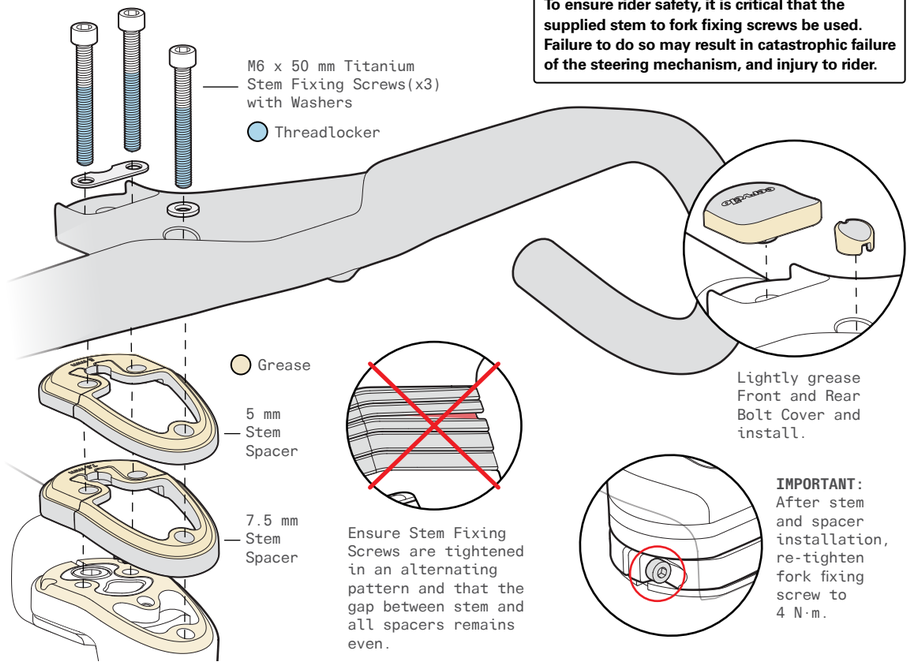


HB19 INSTALLATION

1. Apply threadlocker to the three M6 x 50 mm fixing screws.
2. Lightly apply grease to the top surface of the fork and any spacers to be used.
3. Once the threadlocker is cured, install the washers and then fixing screws. Tighten the fixing screws, alternating repeatedly, until all fixing screws reach 8 N·m torque.
4. Initially there might be a gap between the bar and spacers and/or the bar and fork. Once tightened properly the gap will disappear.
5. Rotate fork to expose fork fixing screw and re-tighten to 4 N·m.

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

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



Lightly grease Front and Rear Bolt Cover and install.

Ensure Stem Fixing Screws are tightened in an alternating pattern and that the gap between stem and all spacers remains even.

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

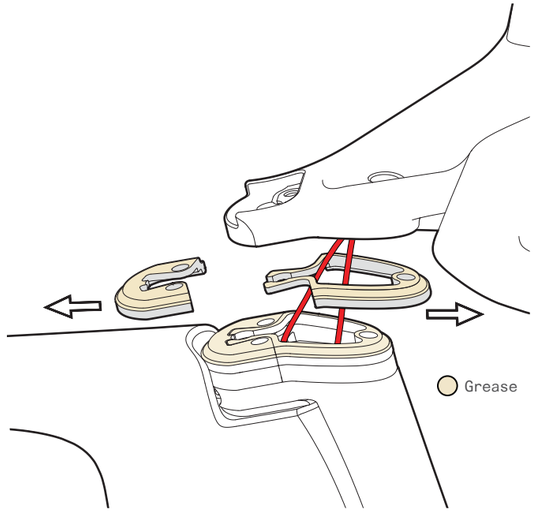
BEFORE FINAL FITTING

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

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

Before reinstalling the stem with no spacers:

- In order to avoid pinching the rear brake hose during reinstallation of the one piece handlebar and stem, simply remove the rear brake caliper from the frame and draw the extra hose length out, by gently pulling the caliper toward the rear of the bike.
- Carefully reinstall the one piece handlebar and stem by feeding the extra hose into the frame, and tighten the stem fixing screws (alternating between the three) to 8 N·m.
- Reinstall the rear brake caliper by pushing the extra hose into the frame.

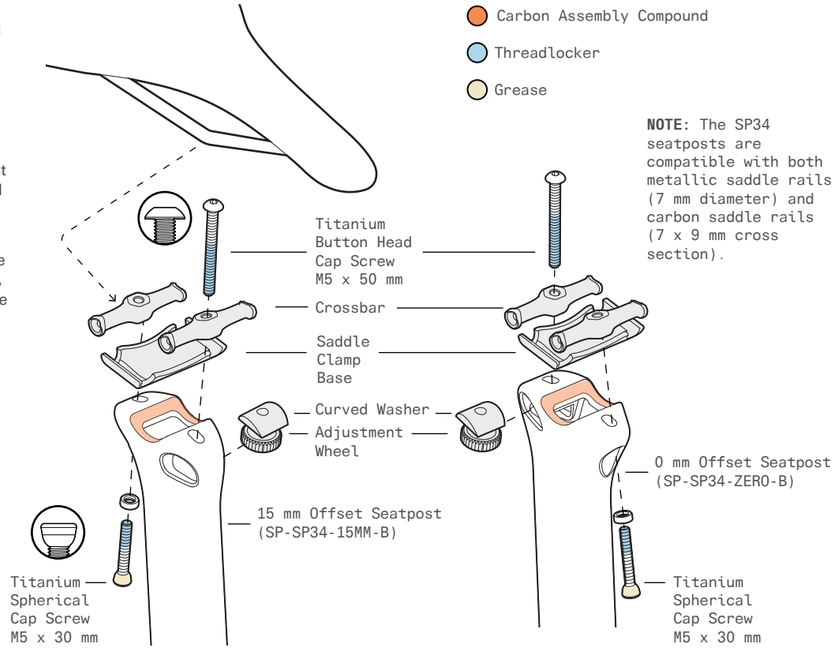


⚠ WARNING

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

SP34 SEATPOST ASSEMBLY

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 first 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 Seatpost, then attach the second Crossbar.
6. Apply a light coat of carbon assembly compound to the Seatpost's upper face and install the Saddle Clamp Base.
7. Position the saddle rails between the clamping surfaces and adjust the saddle angle using the wheel.
8. Tighten the angle adjusting screws to 7 N·m to secure the saddle.



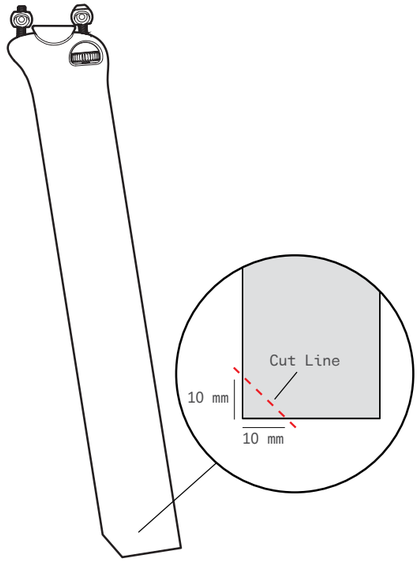
NOTE: The SP34 seatposts are compatible with both metallic saddle rails (7 mm diameter) and carbon saddle rails (7 x 9 mm cross section).

SEATPOST CUTTING INSTRUCTIONS

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

1. Taking care to maintain the minimum required seatpost insertion of 70 mm and maximum of 85 mm, carefully measure and use a light colored grease pencil to accurately mark the cut-off location on the seatpost.
2. Insert the seatpost in the ParkTool SG-7.2 Saw Guide (or equivalent) so that the cut-off line can be seen clearly through the blade guide in the tool.
3. Using a blade designed specifically for cutting carbon composite materials (or a fine tooth blade with greater than 32 teeth per inch); proceed with cutting the Seatpost (as per ParkTool's instructions).
4. Use fine grit sandpaper to carefully remove any fraying or burring from the cut end. Reposition clamp approximately 100 mm from the cut end.
5. With a grease pencil, mark a point 10 mm from the cut end on the trailing edge of the Seatpost, and another 10 mm from the back, on the bottom edge. Draw a line connecting them, forming a 45 degree guideline.
6. Placing the blade of your saw on the grease pencil mark, very carefully proceed to cut, resulting in a 45 degree chamfer being cut onto the trailing edge of the Seatpost.
7. Carefully sand the end and after applying carbon assembly compound, return to the frame.

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

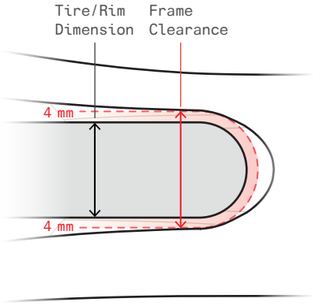


TIRE CLEARANCE AND PRESSURE

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

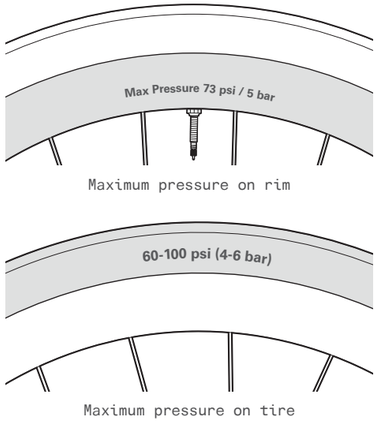
1. Measure the space between the chainstays at the bottom bracket junction.
2. Measure the space between the seatstays at the top of the tire.
3. Using the smaller of those two numbers (Frame Clearance), subtract 8 mm (4 mm per side) to determine the maximum Allowable Tire/Rim Dimension.
4. With the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

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

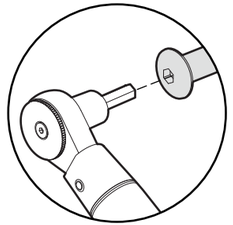


⚠ WARNING
In the event of a puncture, stop as quickly as possible and change the wheel or repair the puncture where feasible. Punctured tires can lose pressure rapidly, and riding on a punctured tire can cause you to lose control and fall.

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

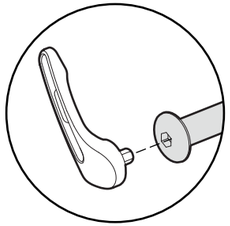


AERO THRU-AXLE INSTALLATION

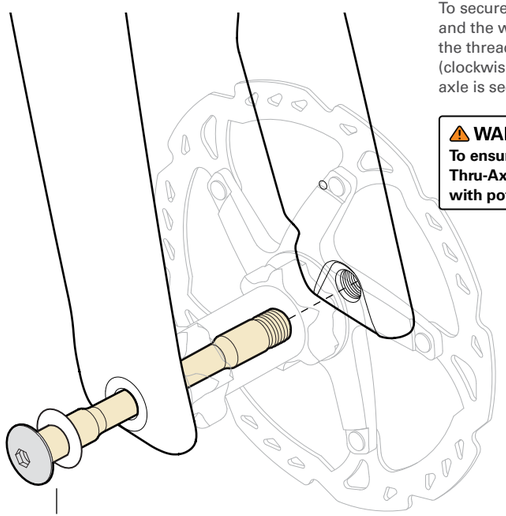


6 mm Allen key /
torque wrench

or



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



Ensure thru-axle
washer is present
for installation.

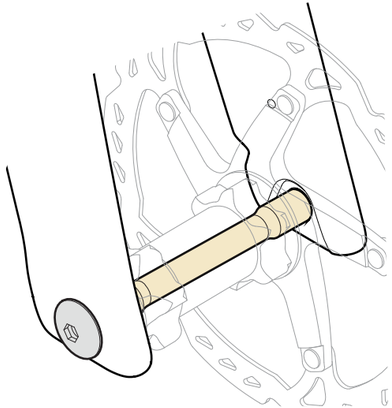
Tighten front axle
to 12-15 N·m.

Grease

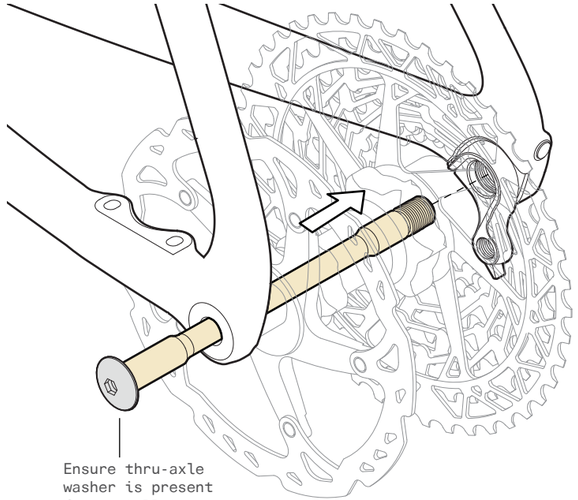
To secure wheels, install the greased axle through the drop out and the wheel hub, aligning the threaded end of the axle with the threaded insert. Once aligned and engaged, thread the axle (clockwise) into the threaded component of the insert until the axle is secured tightly to 12-15 N·m.

⚠ 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.



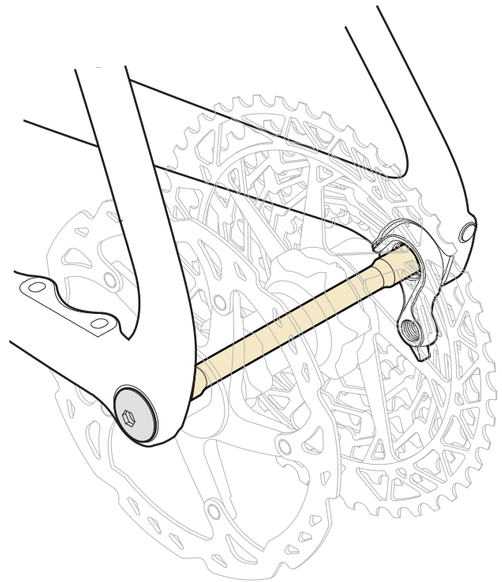
Cervélo Road UDH Rear Aero
Thru-Axle with Removable
Handle (QRA-698)



Ensure thru-axle
washer is present
for installation.

Tighten front axle
to 12-15 N·m.

Grease



INTENDED USE OF THE S5 BICYCLE

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

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

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

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

NOTE: Cervélo bicycles are tested to a maximum combined bicycle/rider/luggage weight of 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 S5

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

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

High-Performance Road - Condition 1

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

Intended To be ridden on paved roads only.

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

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

S5 TORQUE SPECIFICATIONS

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

Use only a correctly calibrated torque wrench to tighten critical fasteners on your bike. Carefully follow the torque wrench manufacturer's instructions on how to set and use the tool for accurate results. Ensure you read all relevant documentation and have the correct tools prior to attempting any adjustments yourself. 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 steel fixing screws should have either grease or threadlocker - but never both. All titanium fixing screws should have theadlocker or anti-seize, 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.

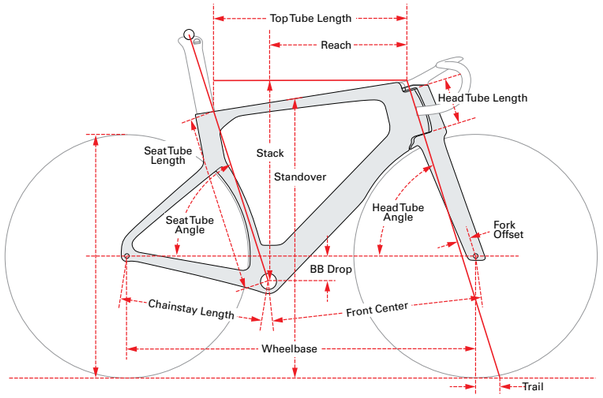
Component	Torque(N·m)	Notes
Frame		
Bottom bracket-BBright thread together	35 to 50 N·m	Clean and grease the inside of the BB shell in the frame. Grease the outside of the BB cups and all threads. Using a BB Press tool, press the non-drive side (NDS) cup into the NDS side of the frame until flush. Thread in the drive side cup (DS) and use a torque wrench with the appropriate adaptor to tighten to the specified torque until flush with the frame.
Bottom bracket-Press-fit		Clean and grease the inside of the BB shell in the frame. Grease the outside of the BB cups. Using a BB Press tool, press the non-drive side (NDS) cup into the NDS side of the frame until flush. Repeat for the drive side (DS).
Cervélo Derailleur Hanger v2 (Standard and Direct Mount for Shimano for UDH frames)	25 N·m	Apply grease to both the thru-axle threads and Cervélo Derailleur Hanger v2 fixing screw. Rotate the hanger toward the front of the bike before tightening. The Derailleur Hanger v2 hanger fixing screws are left-hand threaded.
Front derailleur mount (FDM)	3 N·m	Apply Loctite 243 to fixing screws if not already present.
Set Screw Blanking FDM	1 N·m	Apply Loctite 243 to fixing screws if not already present. Tighten until screws are flush with surface of down tube.

S5 TORQUE SPECIFICATIONS

Component	Torque(N·m)	Notes
Di2 internal battery mount	2.5 N·m	Apply Loctite 242 to fixing screws.
Water bottle cage bolts	2 to 3 N·m	Lightly grease the fixing screws.
Fork		
Upper bearing gap spacer	1 N·m	Thread fixing screws into Gap spacer on fork separate from the bike until the spacer is flush to the fork upper. Remove the spacer until assembly. For assembly turn the fork 90 degrees & slide the gap spacer between the fork upper & frame. Tighten the fixing screws until the spacer is flush to the fork upper.
Tension rod / Preload cone to fork (1 bolt)	2 N·m	Apply grease to the preload cone & threaded end of the tension rod.
Fork preload fixing screw	4 N·m	After Stem bolts are tightened, re-tighten the Preload fixing screw to recommended torque.
HB19 Carbon One Piece Handlebar and Stem		
Stem to Carbon Fork (3 bolts)	8 N·m	Apply threadlocker to the M6 titanium stem fixing screws, and tighten while alternating repeatedly to recommended torque.
Accessory mount kit front 887	2 N·m	Lightly grease the fixing screws.
Brake/shift levers (to handlebar)	6 to 8 N·m	Refer to manufacturer's instructions for installation of brake/shift levers.
Seatpost Clamp (frame to seatpost)		
Wedge clamp- 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) – SP43 Aero Carbon		
2 bolt head	7 N·m	Apply Loctite 243 to titanium cap screw threads. Lightly apply carbon assembly compound to the Seatpost's upper face and install the Saddle Clamp Base. Lightly grease the curved outside surface of the 30 mm Spherical Cap Screw head.
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.

S5 FRAME GEOMETRY

S5 (FM170)	48 cm	51 cm	54 cm	56 cm	58 cm	61 cm
Reach | mm	367	376	384	392	401	409
Stack | mm	496	519	542	565	588	608
Bottom Bracket Drop | mm	74.5	74.5	72	72	69.5	69.5
Chainstay Length | mm	405	405	405	405	405	405
Seat Tube Angle	73°	73°	73°	73°	73°	73°
Head Tube Angle	71°	72°	73°	73.5°	73.5°	73.5°
Fork Offset | mm	58.5	52.5	46.5	43.5	43.5	43.5
Front Center | mm	579	580	581	588	604	617
Head Tube Length | mm	64	82	104	125	152	173
Wheelbase | mm	973	974	975	982	999	1013
Standover Height | mm	712	734	758	781	804	822
Seat Tube Length | mm	438	459	480	502	523	542
Top Tube Length | mm	520	535	550	565	581	595



S5 FRAME DETAILS

S5 (FM170)	
Bike Name	S5
Model Year	2026
Serial Number Code	SN170
Frame Code	FM170
Fork Code	FK170
Brake Mount Type	Flat Mount Disc
Chainstay Height (Flat Mount)	25 mm
Frame Sizes (cm)	48/51/54/56/58/61
Wheel Size	700c
BB Type	BBright
Headset Type	Integrated 1-1/8" x 1-3/8"
Upper Headset Bearing Dimensions	1-1/8", 41 x 30.2 x 6.5, 36° x 45°
Lower Headset Bearing Dimensions	1-3/8", 48.9 x 37 x 6.5, 36° x 45°

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

S5 (FM170)	
Seatpost	SP-SP34-15MM-B
	SP-SP34-ZERO-V2-B
Seatpost Clamp	SPC-0E0S5
Rear Derailleur Hanger	DRH-896 (Standard)
	DRH-897 (Shimano Direct Mount)
Front Derailleur Hanger	FDM-907 (2 Bolt)
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)	34 mm (700c) with 4 mm clearance*

MECHANICAL SAFETY CHECK

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

Before Every Ride:

1. Check the frame and fork for signs of stress: scratches, cracks, dents, deformation, or discoloration. Inspect the chainstay 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 1 mm.
6. Check the chainstay guard and bottom bracket guard for wear.
7. Clean and inspect the frame pivot bearings, shock link, and pivot axles. Re-grease the parts with a high-quality bicycle (ParkTool HPG-1 or equivalent), and replace them if worn or damaged.

Every 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.

2026 S5 RETAILER ASSEMBLY MANUAL

CER-S5G-V1 - 2025-03-25

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