2026 R5 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 R5. 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 manufacturers, 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.

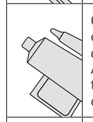
LIST OF TOOLS AND SUPPLIES

This manual outlines a number of procedures for making adjustments to the R5 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.

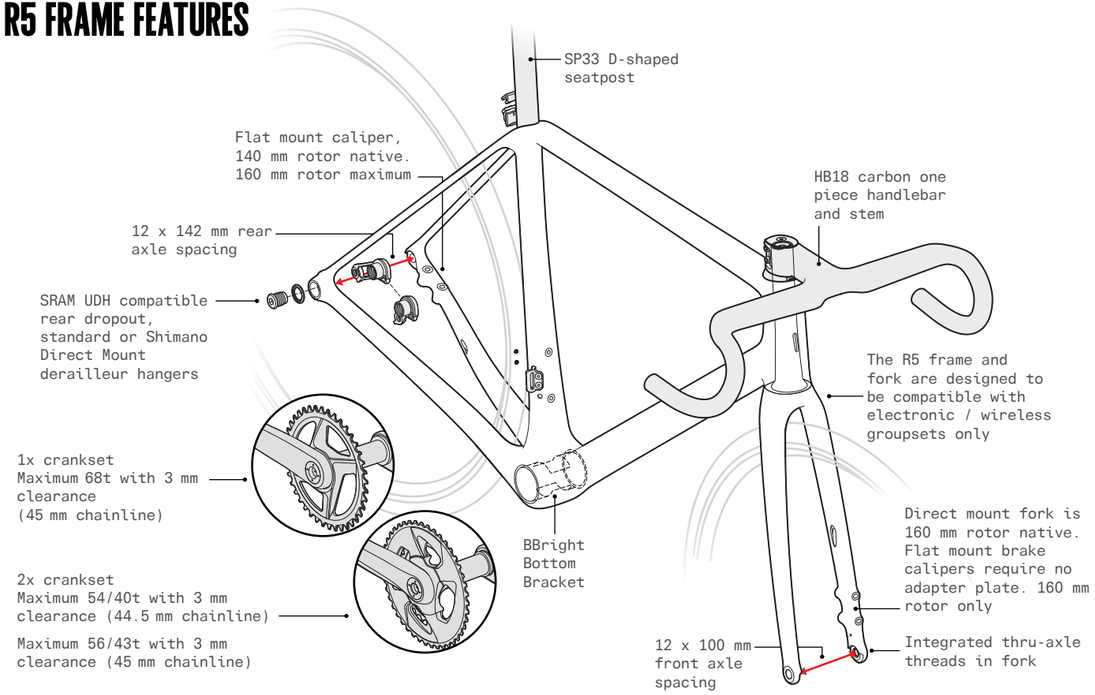
NOTE: All non-proprietary components such as those from Shimano or SRAM are available from your local distributor.

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)

R5 FRAME FEATURES



R5 PARTS LIST

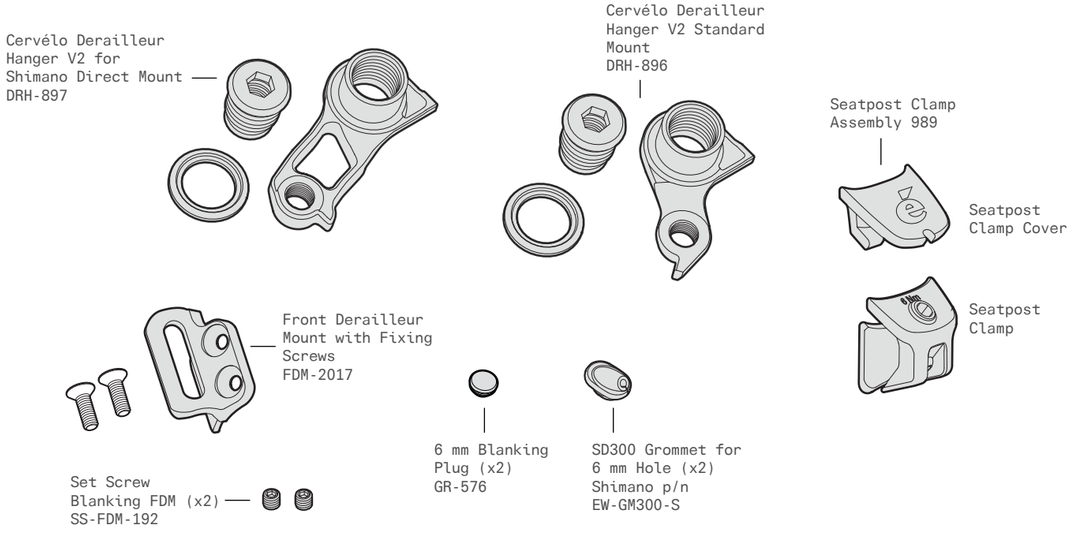
Item Description	Cervélo Part No.
D Steerer HS Preload Super Light (SL) Compression Plug	FKI-CL014-3047A
HS002 Headset Split Ring	SR-466
HS002 Headset Shim	HS-865
Bearing Cap Kit 997 (7 mm and 22 mm Top Caps, Bearing Cover Plug and Headset Shims x3)	BC-997
HS002 Bearing Cover Plug	PL-807
ST31/32 Spacer Kit	SK-032
FSA Super Light (SL) Headset Bearing 1-1/4" 45° x 45°	HS-082SL
FSA Super Light (SL) Headset Bearing 1-1/2" 36° x 45°	HS-110SL
HB18 Carbon One Piece Handlebar and Stem	**See Page 10**

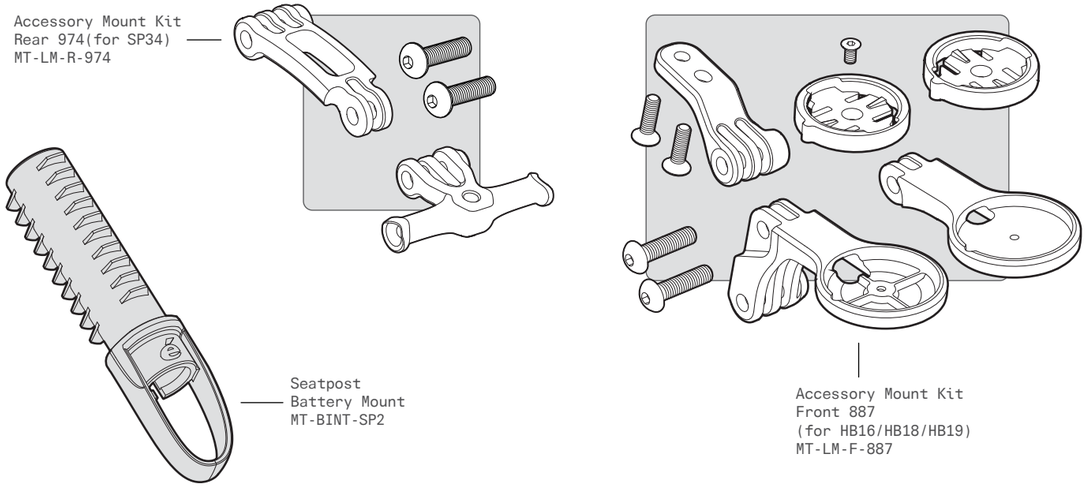
Item Description	Cervélo Part No.
Cervélo Front Aero Thru-Axle V2 with Removable Handle	QRA-882
Removable Handle For Cervélo Aero Thru-Axle	QRA-AERO2-HNDL
Rear Road UDH Thru Axle with Removable Handle	QRA-698
6 mm Blanking Plug	GR-576
Shimano SD300 Grommet for 6 mm Hole	EW-GM300-S
Front Derailleur Mount with Fixing Screws	FDM-2017
Set Screw Blanking FDM	SS-FDM-192
Chainstay Protector 508	PRO-CS-508
Cervélo Derailleur Hanger V2 Standard Mount (for UDH frames)	DRH-896

Item Description	Cervélo Part No.
Cervélo Derailleur Hanger V2 for Shimano Direct Mount (for UDH frames)	DRH-897
Seatpost Clamp Assembly 989 (Seatpost Clamp and Seatpost Clamp Cover)	SPC-989
Accessory Mount Kit Front 887	MT-LM-F-887
Accessory Mount Kit Rear 974	MT-LM-R-974
SP33 Carbon Seatpost 0 mm	SP-SP33-ZERO-B
SP33 Carbon Seatpost 15 mm	SP-SP33-15MM-B
Seatpost Battery Mount	MT-BINT-SP2

SMALL PARTS

The R5 frame is engineered to provide seamless integration of electronic shifting systems. In order to do so, you may require the parts shown below:

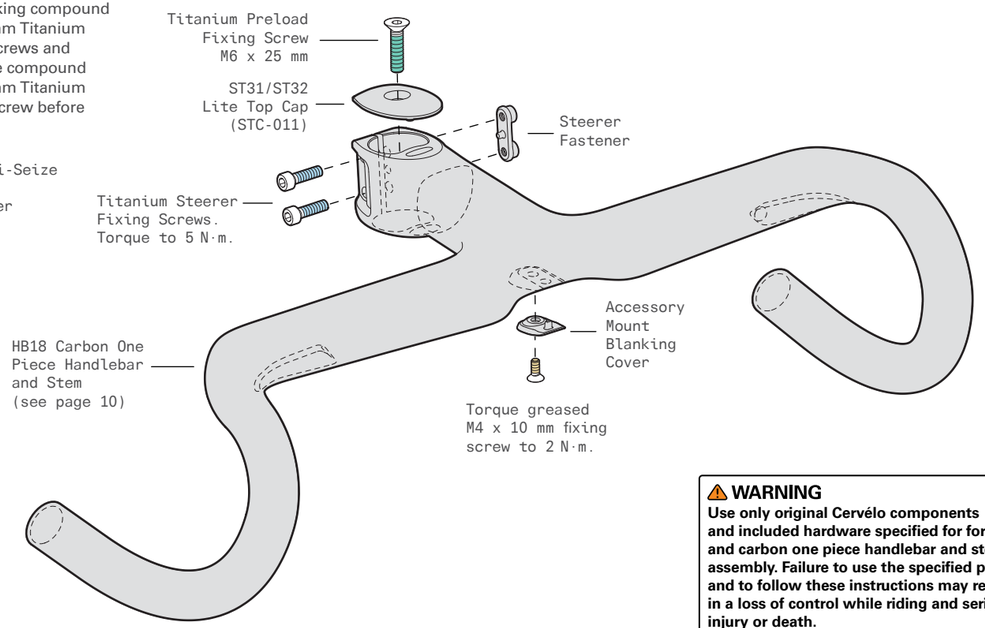




HB18 CARBON ONE PIECE HANDLEBAR AND STEM

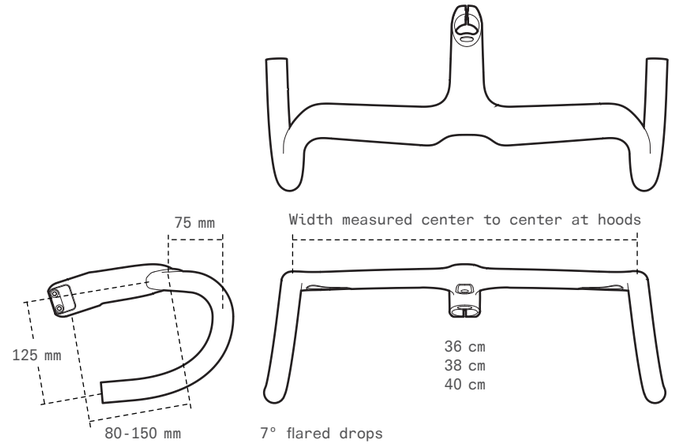
Apply threadlocking compound to the M5 x 18 mm Titanium Steerer Fixing Screws and copper anti-seize compound to the M6 x 25 mm Titanium Preload Fixing Screw before installation.

- Copper Anti-Seize
- Threadlocker
- Grease



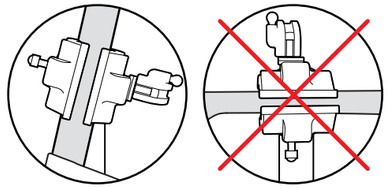
⚠ WARNING

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



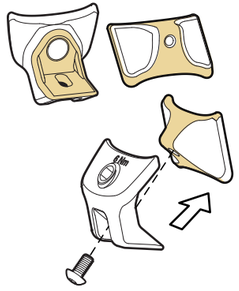
Part No.	Stem Length	Handlebar Width
36 cm - HB18 Carbon One Piece Handlebar and Stem		
HB-HB18-80-36/40-B	80 mm	36 cm (40 cm at drops)
HB-HB18-90-36/40-B	90 mm	
HB-HB18-100-36/40-B	100 mm	
HB-HB18-110-36/40-B	110 mm	
HB-HB18-120-36/40-B	120 mm	
HB-HB18-130-36/40-B	130 mm	
HB-HB18-140-36/40-B	140 mm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

FRAME AND COMPONENT PREPARATION



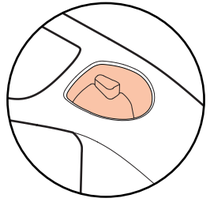
⚠ WARNING
Hold the frame using a secured seatpost only. Clamping the top tube can damage the frame and void your warranty.

Grease



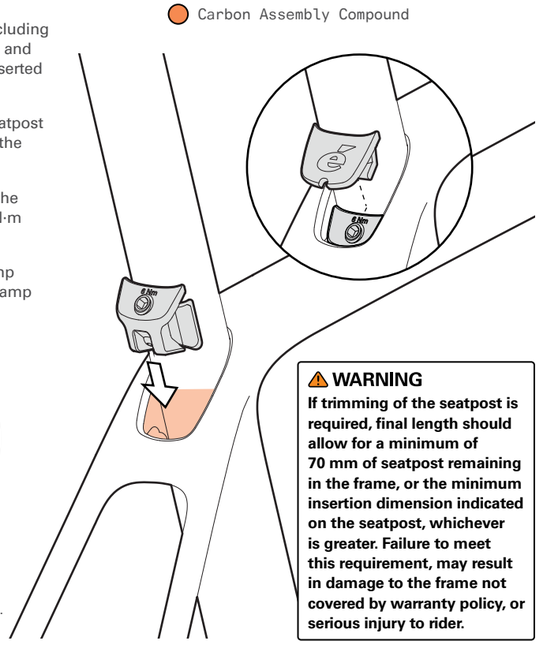
Generously grease all internal surfaces of the Seatpost Clamp 989.

1. Apply carbon assembly compound to the frame, including the seatpost clamp pocket and the seatpost shaft to be inserted into the frame.
2. Insert the seatpost and Seatpost Clamp 989 (SPC-989) into the frame.
3. Adjust height and torque the Seatpost Clamp 989 to 6 N·m maximum.
4. Press fit the Seatpost Clamp Cover into the Seatpost Clamp 989 to finish.

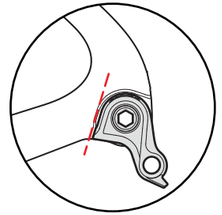


Ensure that carbon assembly compound is applied to the seatpost clamp pocket.

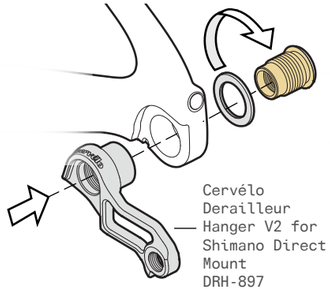
Carbon Assembly Compound



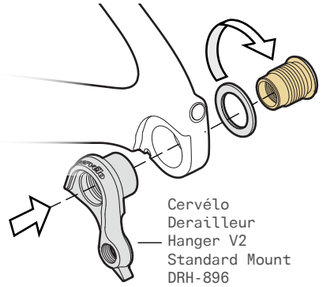
⚠ WARNING
If trimming of the seatpost is required, final length should allow for a minimum of 70 mm of seatpost remaining in the frame, or the minimum insertion dimension indicated on the seatpost, whichever is greater. Failure to meet this requirement, may result in damage to the frame not covered by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



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



Cervélo Derailleur Hanger V2 for Shimano Direct Mount DRH-897



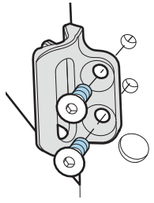
Cervélo Derailleur Hanger V2 Standard Mount DRH-896

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

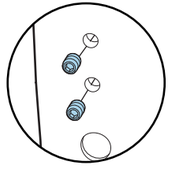
Install the lightly greased Derailleur Hanger V2 fixing screw through the washer and into the hanger threads. Tighten to 25 N·m.

Grease

Secure the Front Derailleur Mount (FDM-2017) into frame with two fixing screws. Tighten to 3 N·m.

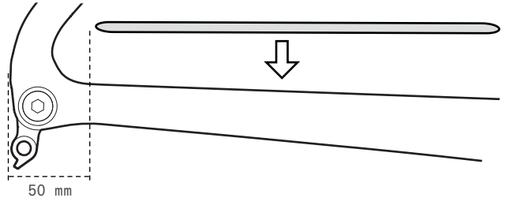


Threadlocker



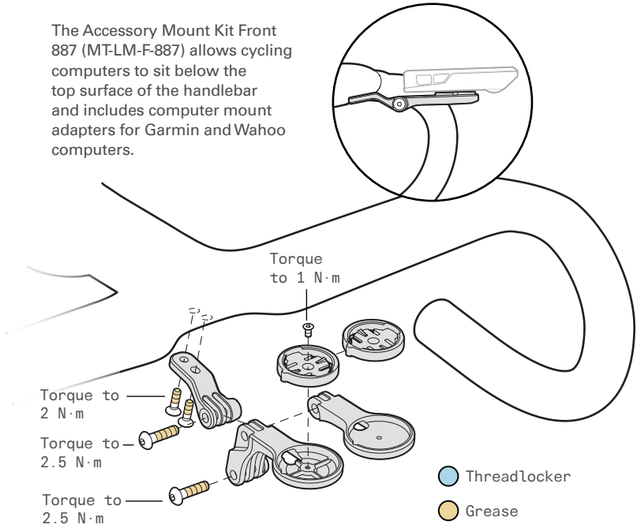
With 1x chainring setups, use Front Derailleur Mount Blanking Screws (SS-FDM-192) in place of the fixing screws.

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.

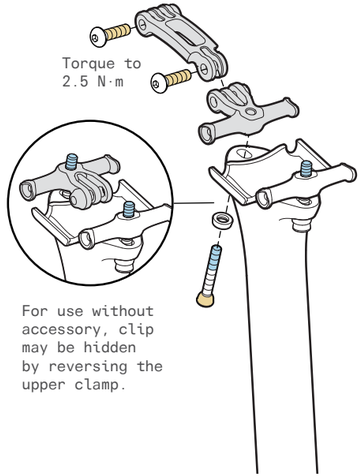


FRAME AND COMPONENT PREPARATION

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



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.



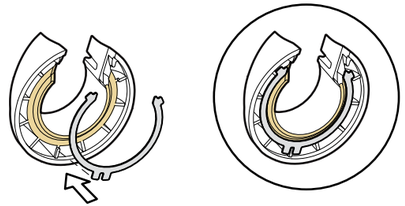
BEARING TOP CAP KIT 997

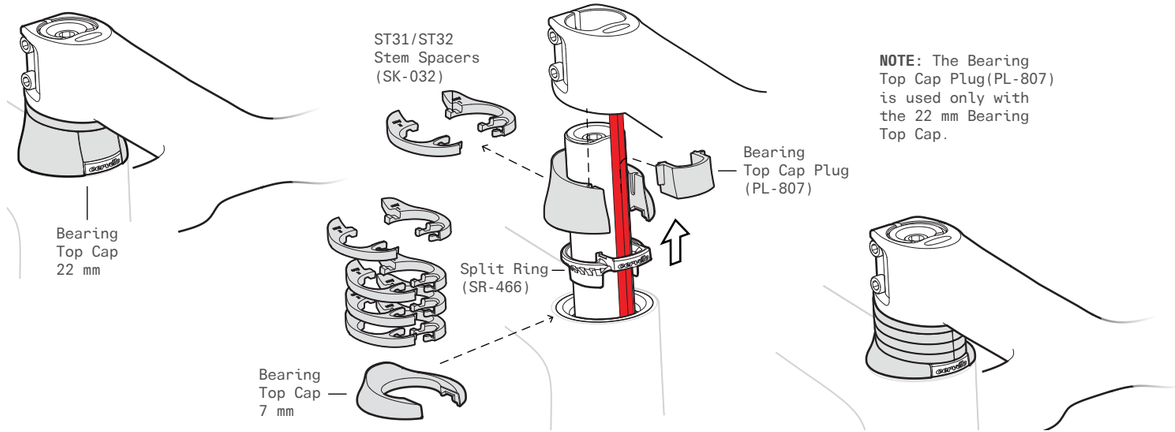
The BC-997 headset allows for the installation or removal of the Bearing Top Cap without the need to disconnect the brake lines.

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

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

Grease





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

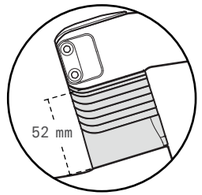
FORK PREPARATION AND INSTALLATION

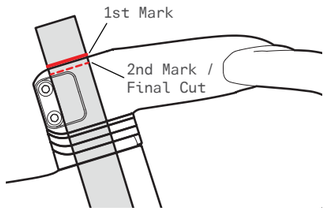
1. Apply grease to the bearing pockets and install the upper and lower headset bearings into the frame.
2. Fit the fork provided with your frame into the head tube with the complete headset, required spacers, and the stem.
3. Apply the minimum pressure needed to ensure the assembly is fully seated. Mark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

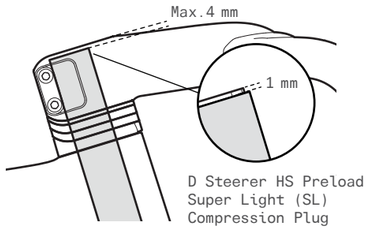
⚠ WARNING
Avoid breathing the dust created during cutting carbon composite materials.

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

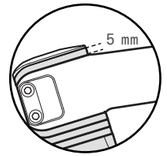
⚠ WARNING
Do not exceed 52 mm maximum total spacer height, including the Bearing Top Cap (30 mm Stem Spacers plus 22 mm Bearing Top Cap).

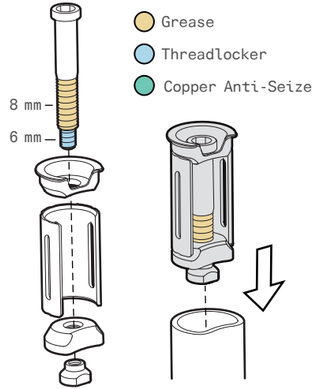






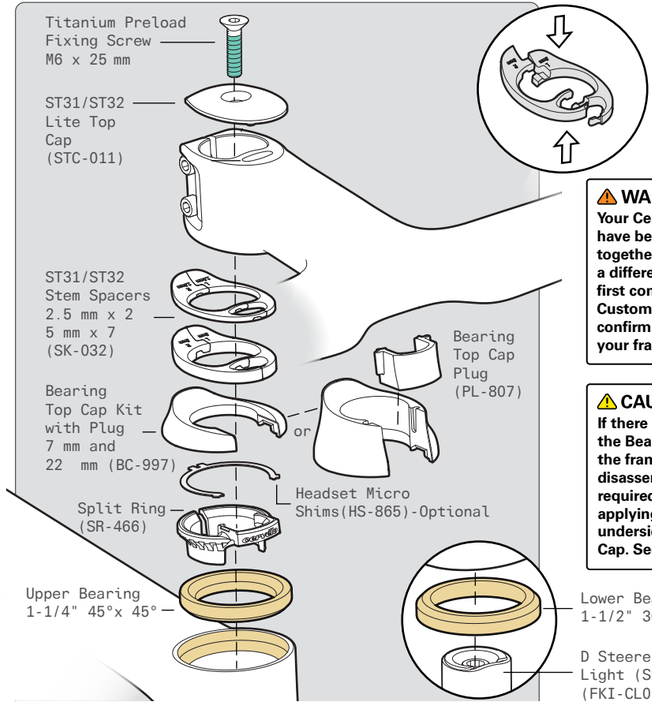
⚠ CAUTION
Do not exceed 5 mm total spacers above the stem.





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

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



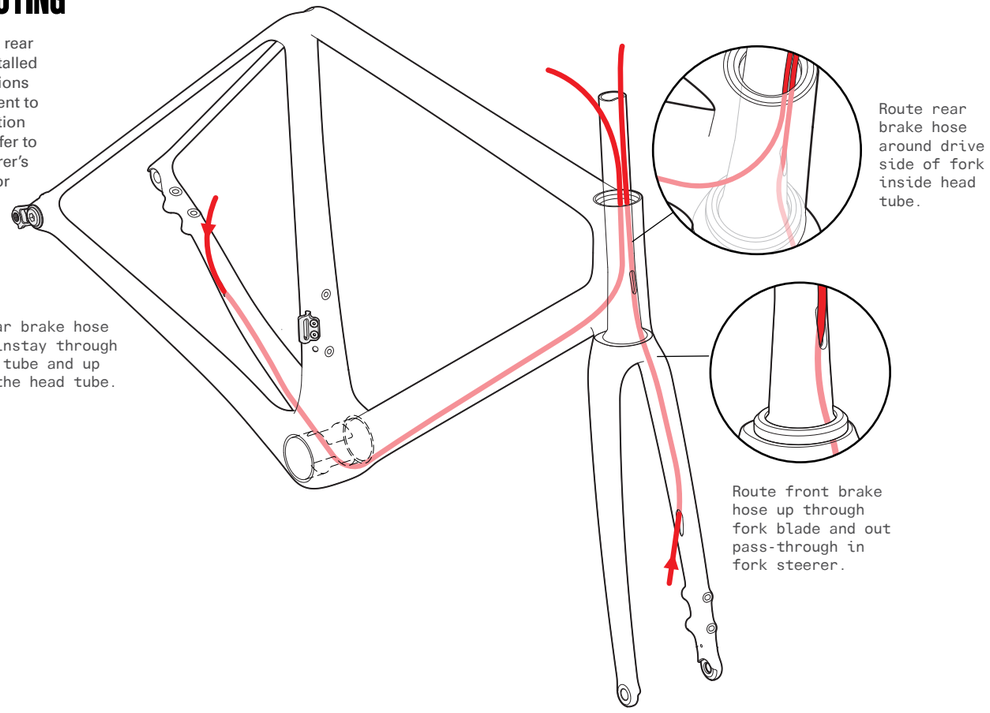
⚠ WARNING
Your Cervélo frame and fork have been designed to work together. Do not substitute a different size fork without first consulting Cervélo Customer Support to confirm compatibility with your frame.

⚠ CAUTION
If there is contact between the Bearing Top Cap and the frame during rotation, disassemble, and install required Micro Shims by applying to the greased underside of the Bearing Top Cap. See page 14.

BRAKE HOSE ROUTING

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

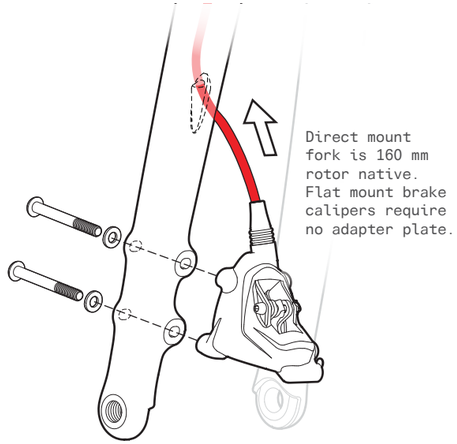
Brake



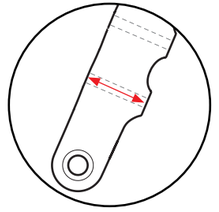
Route rear brake hose from chainstay through the down tube and up through the head tube.

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

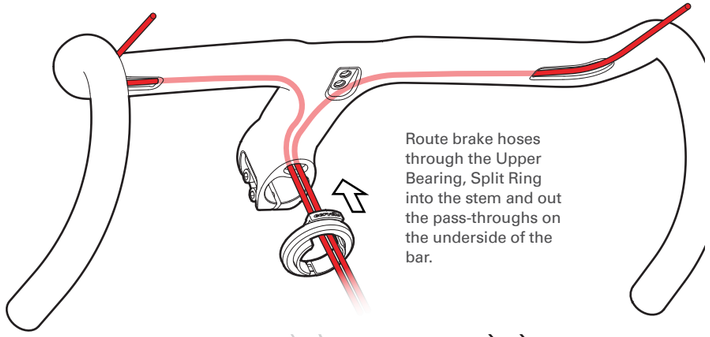
Route front brake hose up through fork blade and out pass-through in fork steerer.



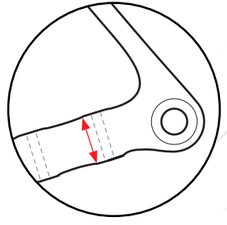
Direct mount fork is 160 mm rotor native. Flat mount brake calipers require no adapter plate.



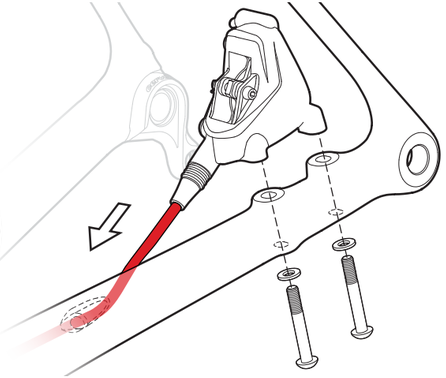
Fork blade depth: 35 mm



Route brake hoses through the Upper Bearing, Split Ring into the stem and out the pass-throughs on the underside of the bar.



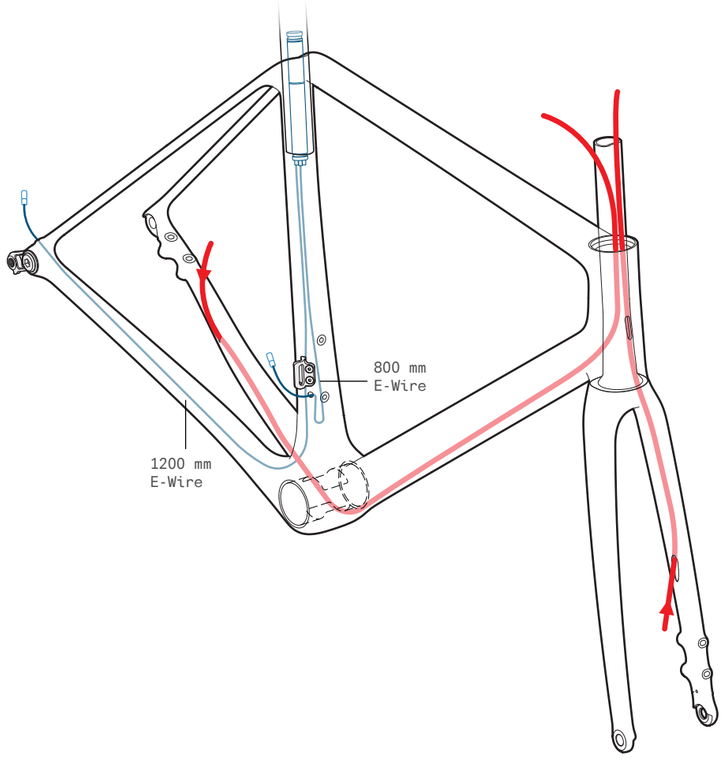
Chainstay height: 25 mm

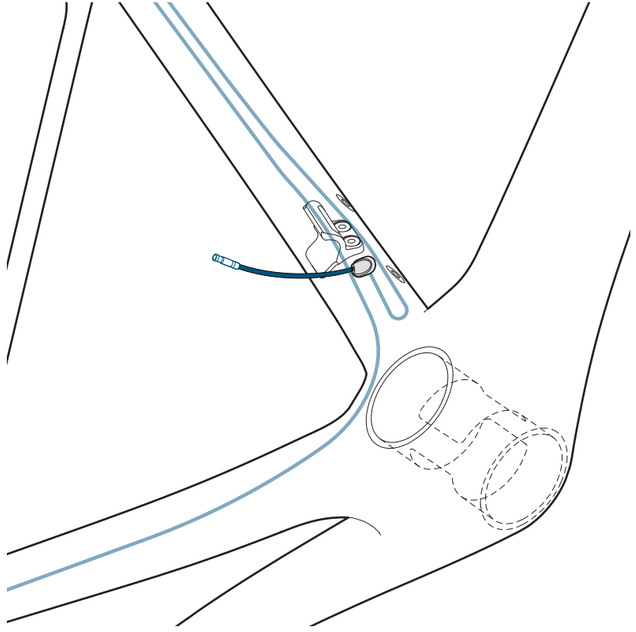


ELECTRIC WIRE ROUTING

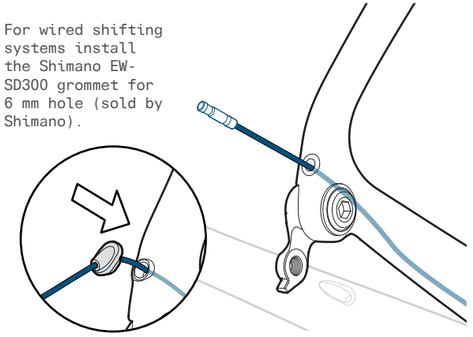
It is recommended that electric cabling and junction points be installed after the brake hose has been installed. These routing illustrations are intended as a supplement to the manufacturer's installation instructions only. Please refer to the component manufacturer's service center or website for further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

- Brake
- E-Wire(SD300)

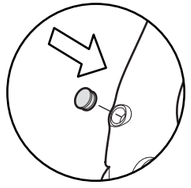




For wired shifting systems install the Shimano EW-SD300 grommet for 6 mm hole (sold by Shimano).



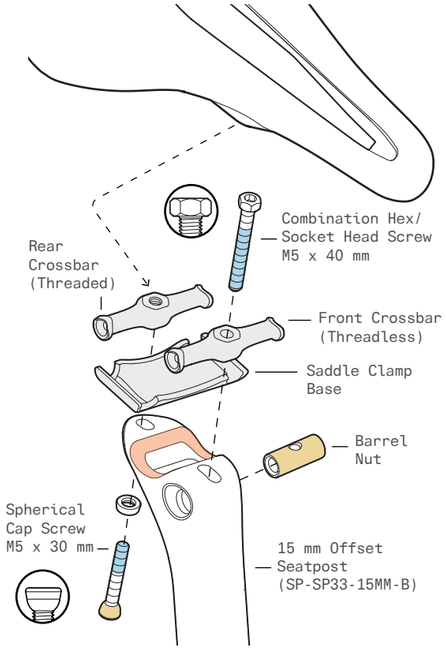
For wireless shifting systems install the Blanking Plug (GR-576).



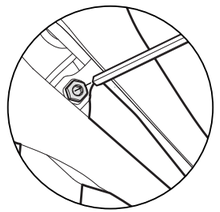
SP33 SEATPOST ASSEMBLY

SP33 15 mm Offset

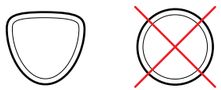
1. Apply threadlocking compound to the initial threads of the 40 mm Combination Hex/ Socket Head Screw.
2. Install the greased Barrel Nut into the seatpost. Push the 40 mm Combination Hex/Socket Head Screw through the Front Crossbar (Threadless) and thread it into the Barrel Nut.
3. Lightly grease the curved outside surface of the 30 mm Spherical Cap Screw head, then install the Spherical Washer with the concave side facing the screw head.
4. Apply threadlocking compound to the initial threads of the 30 mm Spherical Cap Screw, and insert the screw and washer into the rear pass-through on the Seatpost, then thread into the Rear Crossbar (Threaded).
5. Apply a light coat of carbon assembly compound to the Seatpost's upper face and install the Saddle Clamp Base.
6. Position the saddle rails between the Crossbars and clamping surfaces of the Saddle Clamp Base on the Seatpost. Evenly and alternately tighten the front and rear bolts using half turns until the desired saddle angle is achieved and both bolts are evenly torqued to a maximum of 7 N.m.



Carbon Assembly Compound
Threadlocker
Grease



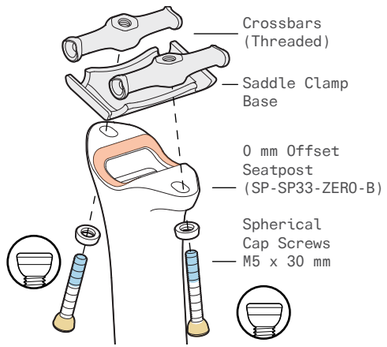
The Front Crossbar can be adjusted using a 4 mm hex key or, in the case of saddles without a cut-out, an 8 mm open-ended wrench.



The R5 uses a proprietary shaped seatpost. Do not attempt to use any seatpost other than the model provided by Cervélo.

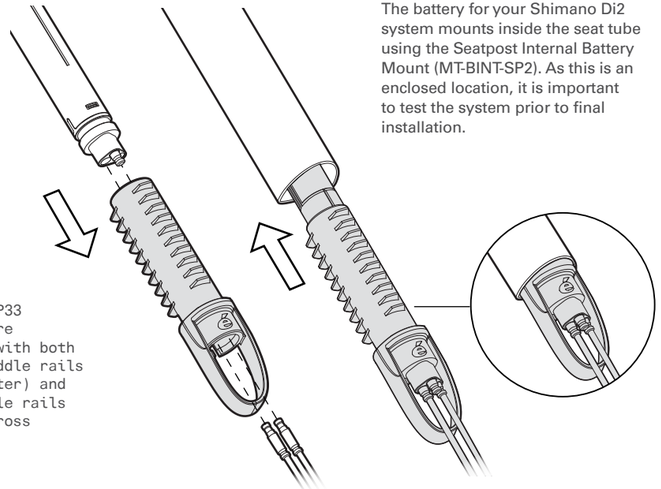
SP33 0 mm Offset

1. Lightly grease the curved outside surfaces of the 30 mm Spherical Cap Screw heads, then install the Spherical Washers with the concave side facing the screw head.
2. Coat the upper face of the Seatpost with carbon assembly compound.
3. Apply threadlocking compound to the initial threads of the 30 mm Spherical Cap Screws.
4. Insert the screws and washer through the Seatpost and thread into the Crossbars.
5. Position the saddle rails between the Crossbars and clamping surfaces of the Saddle Clamp Base on the Seatpost. Evenly and alternately tighten the front and rear bolts using half turns until the desired saddle angle is achieved and both bolts are evenly torqued to a maximum of 7 N.m.



NOTE: The SP33 seatposts are compatible with both metallic saddle rails (7 mm diameter) and carbon saddle rails (7 x 9 mm cross section).

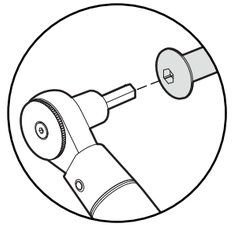
The battery for your Shimano Di2 system mounts inside the seat tube using the Seatpost Internal Battery Mount (MT-BINT-SP2). As this is an enclosed location, it is important to test the system prior to final installation.



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

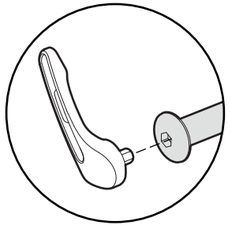
Insert the assembled battery and holder into the seatpost.

AERO THRU-AXLE INSTALLATION

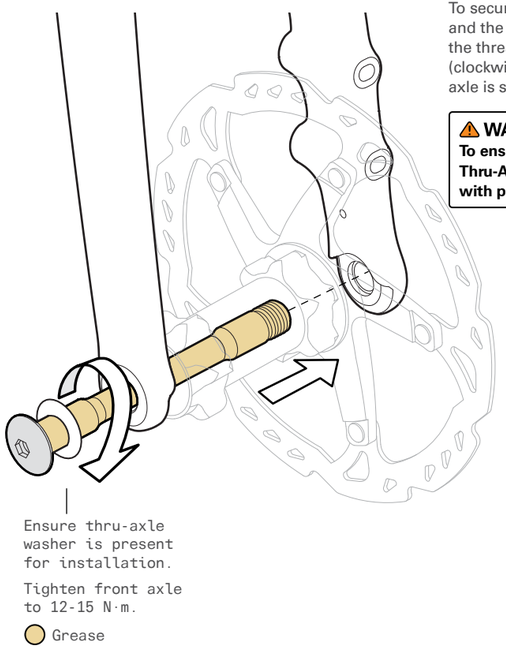


6 mm Allen key /
torque wrench

or



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



Ensure thru-axle
washer is present
for installation.

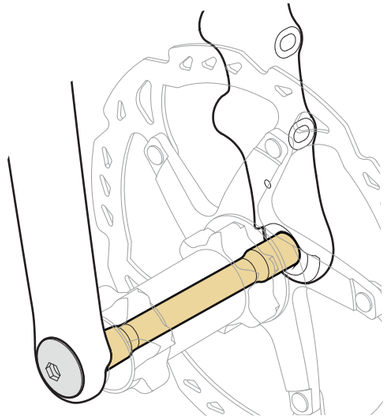
Tighten front axle
to 12-15 N·m.

Grease

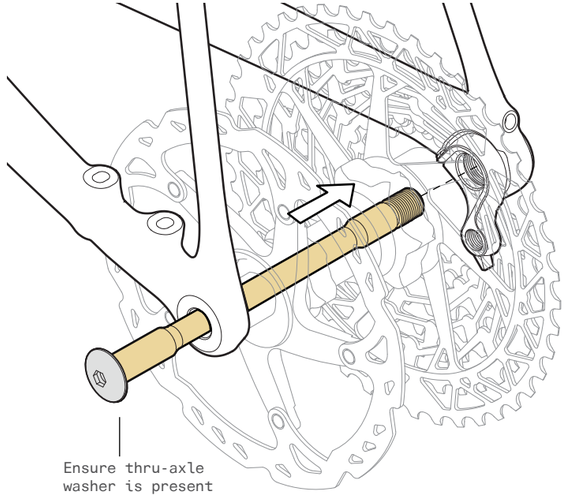
To secure wheels, install the greased axle through the drop out and the wheel hub, aligning the threaded end of the axle with the threaded insert. Once aligned and engaged, thread the axle (clockwise) into the threaded component of the insert until the axle is secured tightly to 12-15 N·m.

⚠ WARNING

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



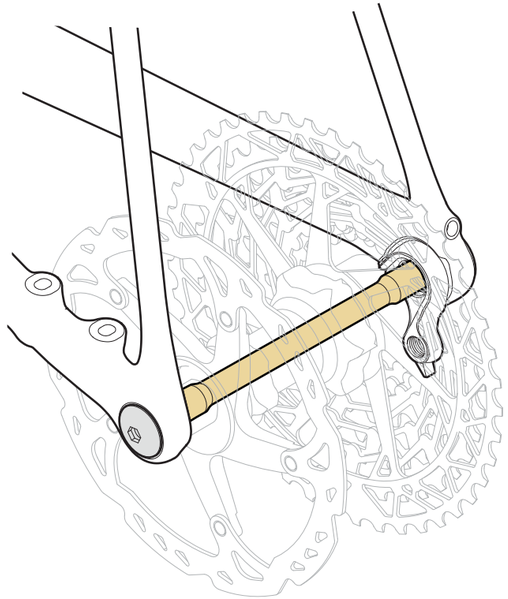
Cervélo Road UDH Rear Aero
Thru-Axle with Removable
Handle (QRA-698)



Ensure thru-axle
washer is present
for installation.

Tighten front axle
to 12-15 N·m.

Grease

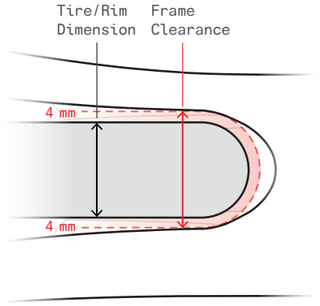


TIRE CLEARANCE AND PRESSURE

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

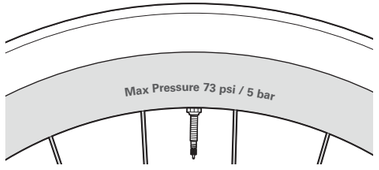
1. Measure the space between the chainstays at the bottom bracket junction.
2. Measure the space between the seatstays at the top of the tire.
3. Using the smaller of those two numbers (Frame Clearance), subtract 8 mm (4 mm per side) to determine the maximum Allowable Tire/Rim Dimension.
4. With the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

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

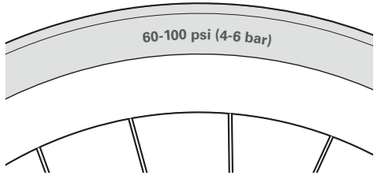


⚠ WARNING
In the event of a puncture, stop as quickly as possible and change the wheel or repair the puncture where feasible. Punctured tires can lose pressure rapidly, and riding on a punctured tire can cause you to lose control and fall.

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



Maximum pressure on rim



Maximum pressure on tire

INTENDED USE OF THE R5 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 R5

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.

R5 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 (ParkTool 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 threadlocker or anti-seize, but never both.** Torque wrenches with scale appropriate for the particular torque setting are strongly recommended for tightening all threaded fasteners.

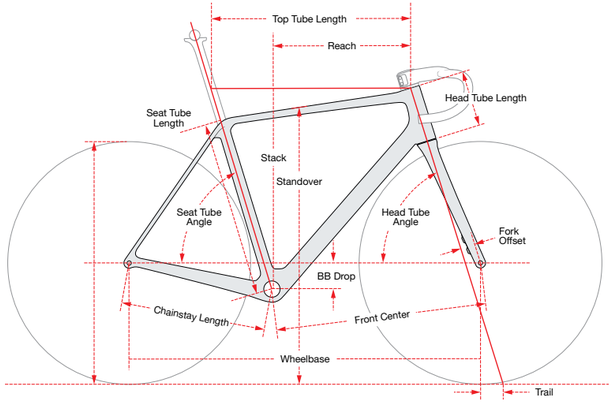
Cervélo strongly recommends the use of carbon assembly compound/paste (Dynamic Carbon Assembly Paste or equivalent) for all areas of clamping to carbon fiber, such as the seatpost to frame, the stem to fork, and the handlebar to stem joints. Benefits to using this paste include reduced corrosion potential, 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.
Water bottle cage bolts	2 to 3 N·m	Lightly grease the fixing screws.
Fork		
Fork steerer compression plug	8 N·m	Lightly grease the 8mm section of the fixing screw and tighten to recommended torque.
HB18 Carbon One Piece Handlebar and Stem		
Stem to fork steerer tube	5 N·m	Apply anti-seize compound to titanium to fixing screws, then evenly and alternately tighten to recommended torque.
Accessory mount- front	2 N·m	Lightly grease the fixing screws.
Brake/shift levers (to handlebar)	6 to 8 N·m	Refer to manufacturer's instructions for installation of brake/shift levers
Seatpost Clamp (frame to seatpost)		
Wedge clamp	6 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) – SP33 Carbon		
2 bolt head	7 N·m	Apply Loctite 243 to titanium screw threads. Lightly apply carbon assembly compound to the Seatpost's upper face and install the Saddle Clamp Base. Lightly grease the curved outside surface of the 30 mm Spherical Cap Screw 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.

R5 FRAME GEOMETRY

R5 (FM166)	48 cm	51 cm	54 cm	56 cm	58 cm	61 cm
Reach | mm	368.7	376.5	383.3	391.1	400.3	408.3
Stack Reach | mm	496.1	520.2	544.6	567.5	590.7	610.7
Bottom Bracket Drop | mm	76.5	76.5	74	74	71.5	71.5
Chainstay Length | mm	410	410	410	410	410	410
Seat Tube Angle	74.5°	74°	73.5°	73°	73°	73°
Head Tube Angle	71°	72°	73°	73°	73°	73°
Fork Length (Axle to Crown) | mm	373	373	373	373	373	373
Fork Offset | mm	57.3	51.5	45.5	45.5	45.5	45.5
Front Center | mm	579.1	579.9	579.5	594.2	610.8	624.8
Head Tube Length | mm	89.6	109.6	132	156	182.8	203.7
Wheelbase | mm	976.8	977.6	978	992.8	1010.3	1024.5
Standover Height | mm	699.7	731	757.4	779.1	803.4	822.2
Seat Tube Length | mm	425	456	480.3	503	524.5	543.3
Top Tube Length | mm	506	526	545	565	581	595



R5 FRAME DETAILS

R5 (FM166)	
Bike Name	R5
Model Year	2026
Serial Number Code	SN166
Frame Code	FM166
Fork Code	FK166
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 1-1/4" x 1-1/2"
Upper Headset Bearing Dimensions	1-1/4", 34 x 46.8 x 7, 45° x 45°
Lower Headset Bearing Dimensions	1-1/2", 40 x 51.8 x 7.5, 36° x 45°

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

R5 (FM166)	
Seatpost	SP-SP33-15MM
	SP-SP33-ZERO
Seatpost Clamp	SPC-989
Rear Derailleur Hanger	DRH-896 (Standard)
	DRH-897 (Shimano Direct Mount)
Front Derailleur Hanger	FDM-2017 (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.
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 R5 RETAILER ASSEMBLY MANUAL

CER-R5H-V1 - 2025-07-10

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