R5 RETAILER ASSEMBLY MANUAL





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LIST OF TOOLS & 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 General User Manual, and is intended as a supplement to the assembly and installation instructions supplied by the component manufacturers (provided with this bicycle).



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 Cycles Inc.

Failure to use the specified parts and follow these assembly instructions, may result in loss of control while riding; and lead to serious injury. This manual is not intended to replace the assembly and service instruction provided by third-party component manufactures, and assumes that the assembler is a trained, professional bicycle mechanic. See https://www.probma.org/

NOTE: Cervélo strongly recommends that all assembly and adjustment procedures be performed by an authorized Cervélo retailer. If you are a Cervélo R5 consumer/purchaser reading this manual we suggest that before attempting to undertake any of the procedures in this manual that you consult your authorized Cervélo retailer, or visit us at www.cervelo.com/support

Tools	Tools		
cle workstand (types which re bike by the seatpost, or ype stand with fork mount)	Pedal wrench		
. ,	Brake rotor lockring tools		
, 2.5mm, 3mm, 4mm, 5mm,	Hydraulic bleed kit		
n ended wrenches: 1, 8mm, 10mm, 17mm	Isopropyl alcohol		
e cutters	Di2 wire tool – Shimano		
5	Good quality bicycle grease & carbon assembly compound		
ps-head screwdriver	Saw cutting guide (ParkTool SG-7.2 or equivalent)		
head screwdriver	Hacksaw (with carbon and aluminum specific blades)		
a, 8mm, 10mm, 17mm e cutters s ps-head screwdriver	Hydraulic bleed kit Hydraulic bleed kit Isopropyl alcohol Di2 wire tool – Shimano Good quality bicycle grease & carbon assembly compound Saw cutting guide (Park Tool SG-7.2 or equivalent) Hacksaw (with carbon and		

R5 PARTS LIST

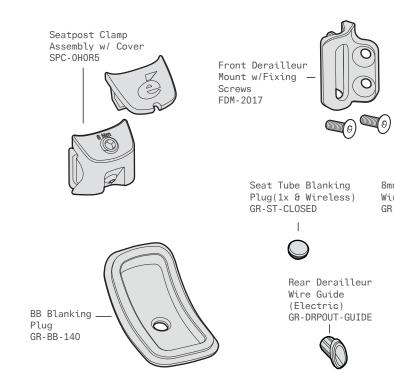
Item Description	Cervélo Part No.
BB Blanking Plug	GR-BB-140
Rear Derailleur Hanger w/Fixing Nut	DRH-WMN112
Shimano Direct Mount RDH w/ Mounting Nut	DRH-SDM
Threaded Fork Insert w/Fixing Screw	QRI-THD
SeatTube Blanking Plug(1x & Wireless)	GR-ST-CLOSED
8mm SeatTube Di2 Wire Grommet	GR-ST-JGW
Brake Hose Guide	CBG-DBH
FDM Blanking Screws (1x)	SS-FDM-192
Front Derailleur Mount w/ Fixing Screws	FDM-2017

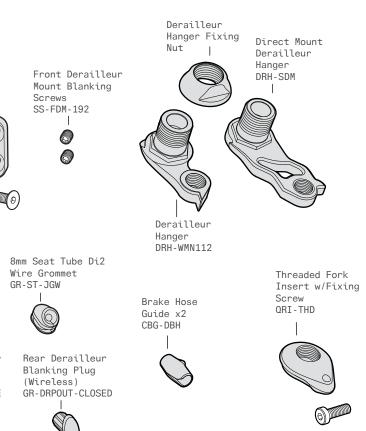
) .	Item Description	Cervélo Part No.	Item Description	
	Dropout Blanking Plug Wireless	GR-DRPOUT-CLOSED	Rubber Plug for ST Top Cap	
	Dropout Electric Wire Guide	GR-DROPOUT-GUIDE	D-Shaped Compression Plug	
	SP18 Seatpost w/ Head 0mm	SP-SP18-ZERO	ST31 LT Accessory Mount Assembly	
	SP18 Seatpost w/ Head 25mm	SP-SP18-25MM	Accessory Mount I	
	Seatpost Battery Mount	MT-BINT-SP2	(Rear)	
	Seatpost Clamp w/ Cover	SPC-0H0R5	Chainstay Protecto	
	Cervélo Front Aero Thru Axle - Removable Handle	QRA-AERO2-F	ST31/32 HS Space	
	Cervélo Rear Aero Thru Axle- Removable Handle	QRA-AERO2-R	BearingTop Cap-T (22mm)	
	Cervélo Front Aero Thru-Axle	QRA-AERO-F	Bearing Top Cap-S (7mm)	
	Cervélo Rear Aero Thru-Axle	QRA-AERO-R		
	L			

No.	Item Description	Cervélo Part No.
OSED	Rubber Plug for ST32 Top Cap	PL-338
GUIDE	D-Shaped Compression Plug	FKI-CL005-517A
	ST31 LT Accessory Mount Assembly	MT-521A
	Accessory Mount Kit (Rear)	MT-LM-R-003
	Chainstay Protector	PRO-CS-508
	Split Ring 312	SR-312
	ST31/32 HS Spacer Kit	SK-032
	BearingTop Cap-Tall (22mm)	BC-506
	BearingTop Cap-Short (7mm)	BC-413

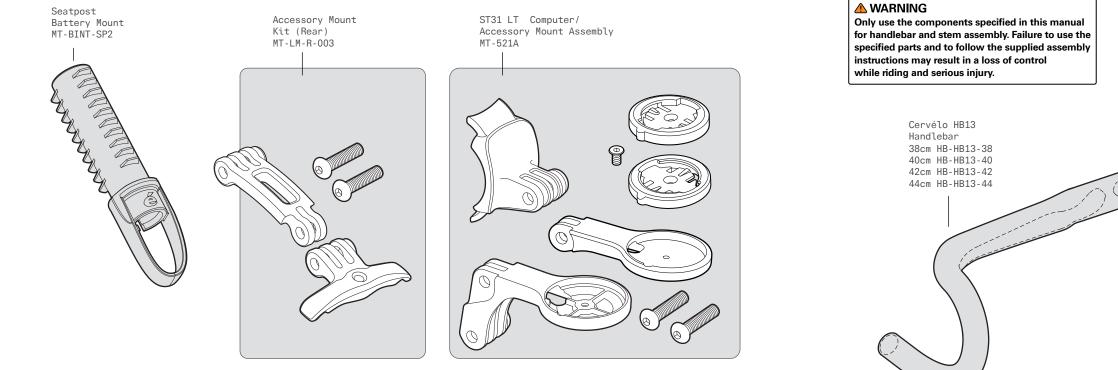
SMALL PARTS

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

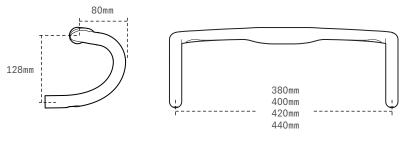




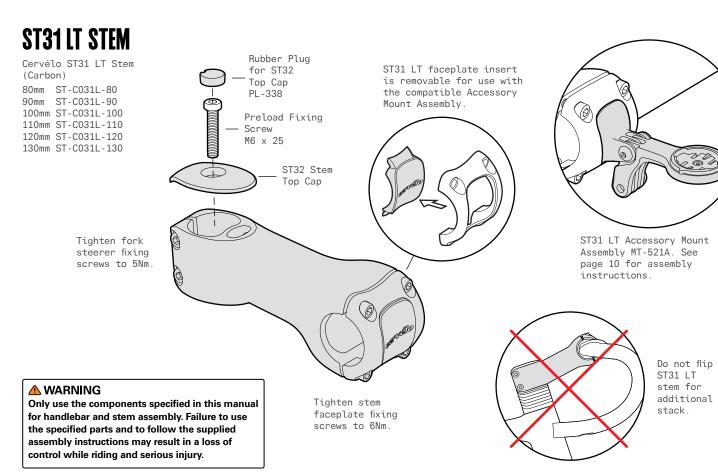




HB13 HANDLEBAR

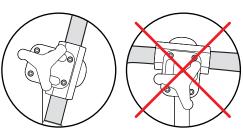


Brake hoses and Di2 E-Wires run in the channels on underside of handlebar.



FRAME & COMPONENT PREPARATION

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



Generously grease all internal surfaces of the Seatpost Clamp.

Press fit Cover over the Seatpost Clamp prior to installing in the frame.

NOTE: Non-use of the Cover may result in seatpost binding due to accumulated debris.

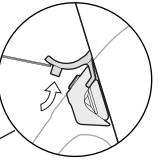
- Apply carbon paste to the frame into the frame.
- 2. Insert the seatpost and the assembled Seatpost Clamp & Cover (SPC-0H0R5) into the frame.
- 3. Adjust height and torgue the Seatpost Clamp to 8Nm maximum.

and seatpost shaft to be inserted

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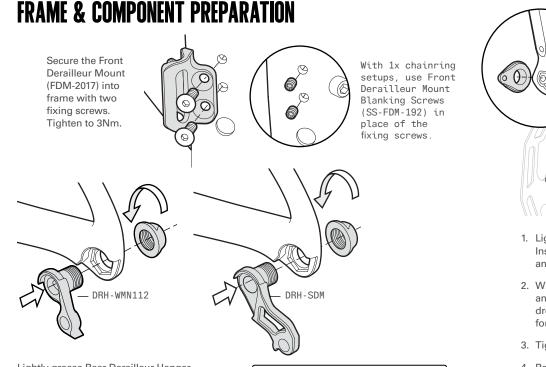
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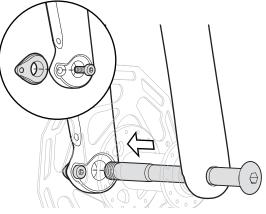
Use a 3mm allen key to lift cover and access fixing screw of the Seatpost Clamp as highlighted.

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

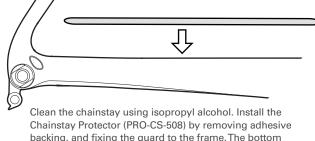


Lightly grease Rear Derailleur Hanger Fixing Nut and install either Rear Derailleur Hanger (DRH-WMN112) or Direct Mount Rear Derailleur Hanger (DRH-SDM) finger tight. Final tightening will be performed after rear wheel installation.

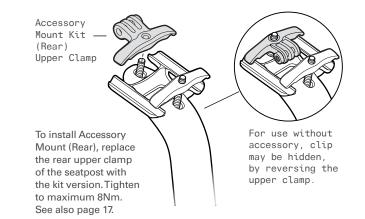
WARNING Do not final tighten rear derailleur hanger assembly without rear wheel installed. Doing so may result in a misaligned derailleur and poor shifting.

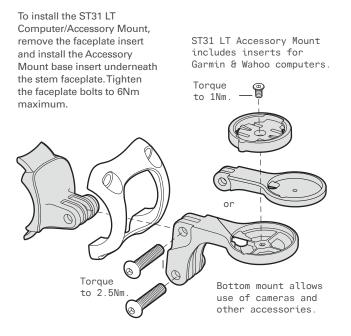


- Lightly grease supplied M4 fixing screw. Install the Threaded Fork Insert (QRI-THD) and fixing screw, tightening only lightly.
- Without wheel in place, install the axle and tighten until the flange meets the fork dropout face, but does not compress the fork blades.
- 3. Tighten the fixing screw to 3Nm.
- 4. Remove the axle and install wheel. Reinstall axle and tighten to 12-15Nm.
- 5. Remove axle and wheel, and re-torque the fixing screw to 3Nm.



backing, and fixing the guard to the frame. The bottom rearward edge should be approximately 50mm forward from the back of the rear dropout.





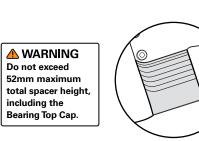
FORK PREPARATION & INSTALLATION

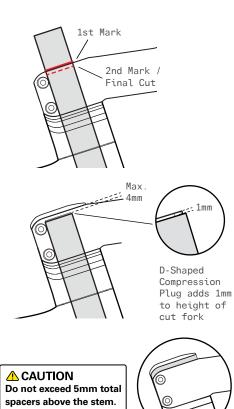
- 1. Apply grease to the bearing pockets and install the upper and lower headset bearings into the frame.
- 2. Fit the fork provided with your frame into the head tube with the complete headset, required spacers, and the stem.
- 3. Apply the minimum pressure needed to ensure the assembly is fully seated. Mark the steerer tube at the top of the stem.
- 4. Remove fork and clearly mark the fork steerer tube at a point 4mm 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.
- Place Lower Bearing over the fork steerer and insert into the frame from the bottom of the head tube.
- 8. Install over the steerer in order: Upper Bearing, Split Ring, Bearing Top Cap, Stem Spacers, and Stem. Do not install the Stem Top Cap.
- 9. Tighten the Compression Plug to 8Nm using a torque wrench.

- 10. Install the Stem Top Cap and Preload Fixing Screw into the stem. Tighten the Preload bolt only enough to remove all play from the headset, and ensure the bearings rotate freely (typically 1 to 2 Nm)
- 11. Tighten the stem to fork fixing bolts to 5Nm maximum.

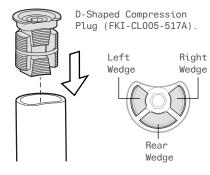
WARNING Avoid breathing the dust created during cutting carbon composite materials.

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





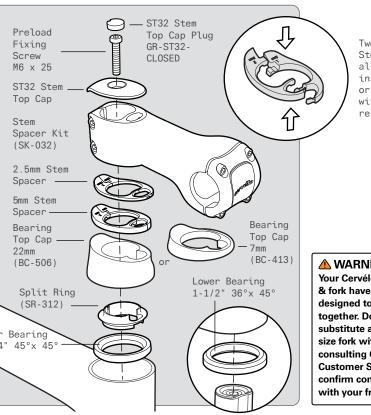
The component parts of the compression plug are side-specific. Re-assembling parts incorrectly may result in loss of preload in the system. Refer to the images shown for correct assembly.

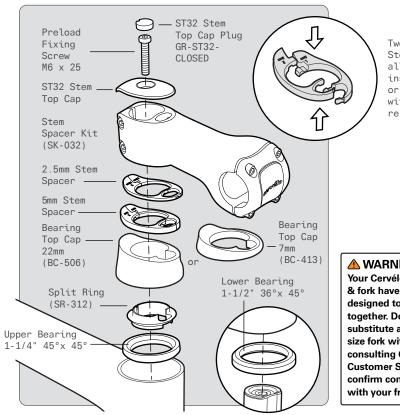


Install D-Shaped Compression Plug in fork steerer and lightly tighten. Apply rated torgue of 8Nm following stem and spacer installation.

WARNING

Do not torque Compression Plug past the recommended 8Nm maximum. If the **Compression Plug requires tightening past** 8Nm, please contact Cervélo Customer Service.



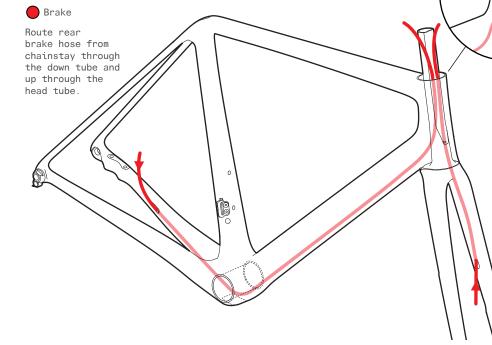


Two-piece Stem Spacers allow for installation or removal without re-cabling

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

BRAKE HOSE ROUTING

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



Route rear

brake hose

around drive

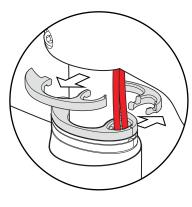
side of fork

inside head

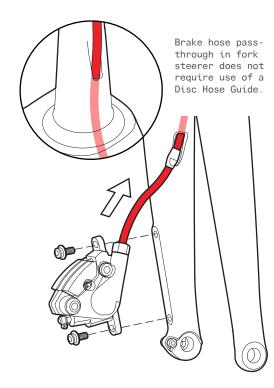
tube.

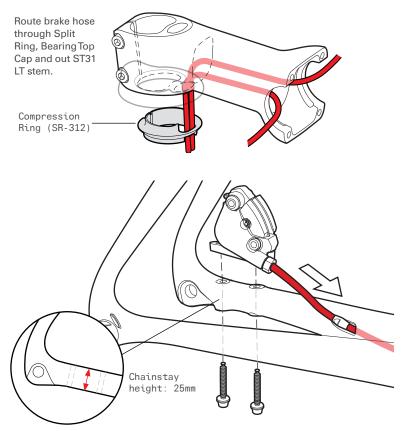
It is recommended to include 20mm-25mm of additional brake hose length to the amount required for the final customer fit. Doing so will permit sufficient length for disassembly and service purposes.

- 1. Measure customer fit
- 2. Add additional 20-25mm of spacers
- 3. Cut and install brake hoses
- 4. Remove extra spacers
- 5. Complete assembly



Route hydraulic brake hose through the frame and fork with the Disc Hose Guide (CBG-DBH). Install and adjust calipers as per manufacturer's instructions.

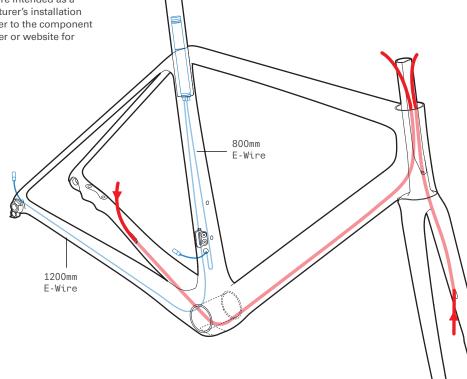


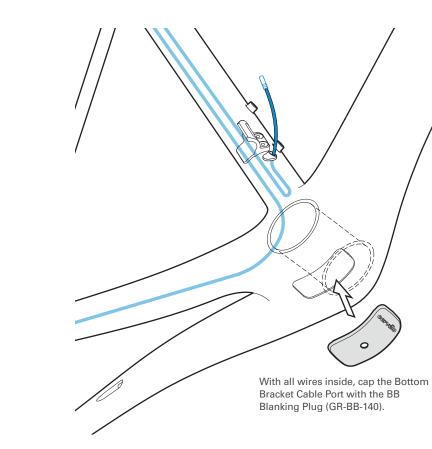


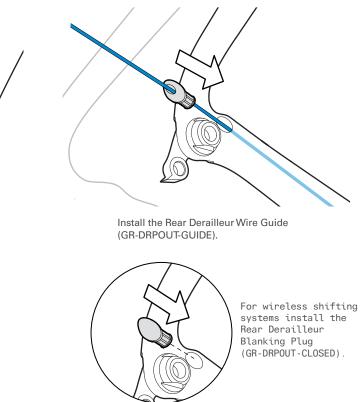
ELECTRIC WIRE ROUTING & INSTALLATION

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)



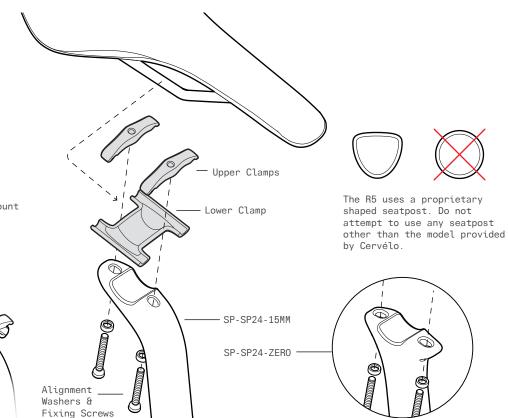




SEATPOST ASSEMBLY & INSTALLATION

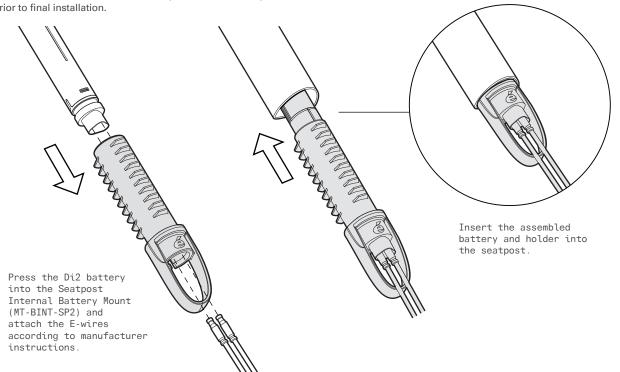
- Apply a light coat of carbon assembly compound to the upper face of the Seatpost, making sure to cover area around the adjustment slots.
- 2. Locate saddle rail between upper and lower clamps, and place on Seatpost.
- 3. With alignment washers installed, attach assembly to Seatpost, by tightening lightly greased fixing screws, alternating between the two sides each 1/2 turn. Once saddle is adjusted, tighten fixing screws to a maximum of 8 Nm.

Accessory Mount Kit (Rear) MT-LM-R-003 Torque fixing screws to 2.5Nm. Replace rear upper clamp with Accessory Mount kit version. Tighten to maximum 8Nm.



DI2 BATTERY INSTALLATION

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



AERO THRU-AXLE INSTALLATION

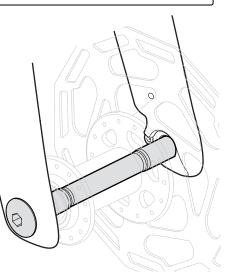


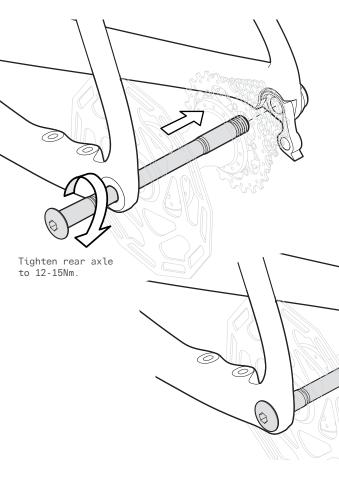
Cervélo Aero Thru-Axle with Removable Handle (QRA-AER02-F & QRA-AER02-R)

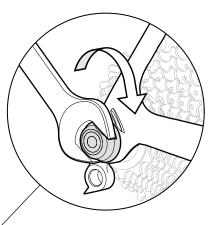
Tighten front axle to 12-15Nm. To secure wheels, install the greased axle, through the drop out and the wheel hub, aligning the threaded end of the axle with the threaded insert. Once aligned and engaged, thread the axle (clock-wise) into the threaded component of the insert until the axle is secured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

A WARNING

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





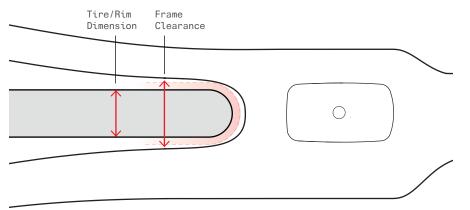


Perform final tightening on Rear Derailleur Hanger Nut using a 17mm wrench. Torque to 12-15Nm. This action is unique to initial assembly, and should not require additional adjustment.

WARNING
 Adjust brakes as per manufacturer's
 instructions.

TIRE/RIM CLEARANCE

Your Cervélo bicycle complies with the ISO 4210-2:4.10.2 standard for tire clearance. In order to comply with these safety standards and maintain your Limited Lifetime Warranty, a minimum of 4mm 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.
- Using the smallest of those two numbers, subtract 8mm (4mm per side) to determine the remaining space.
- With the tire installed and fully inflated on your wheel, measure the widest of the rim or tire width to ensure that it fits.

\land 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.



CER-R5-V1 2021-04-07

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