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 (ParkTool 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 ST32 Top Cap
Dropout Electric Wire Guide	GR-DROPOUT-GUIDE	D-Shaped Compression Plug
SP24 Seatpost w/ lead 0mm	SP-SP24-ZERO	Accessory Mount Kit (Front)
SP24 Seatpost w/ Head 15mm	SP-SP24-15MM	Accessory Mount Kit (Rear)
Seatpost Battery Mount	MT-BINT-SP2	Chainstay Protector
Seatpost Clamp w/ Cover	SPC-0H0R5	Split Ring 312
Cervélo Front Aero Thru Axle- Removable Iandle	QRA-AERO2-F	ST31/32 HS Spacer Kit
Cervélo Rear Aero Thru Axle - Removable Handle	QRA-AERO2-R	Bearing Top Cap-Tall (22mm)
Cervélo Front Aero Thru-Axle	QRA-AERO-F	BearingTop Cap-Short (7mm)
Cervélo Rear Aero Thru-Axle	QRA-AERO-R	SP18 Seatpost w/ Head 25mm

SMALL PARTS

Cervélo Part No.

FKI-CL005-517A

MT-LM-F-004

MT-LM-R-003

PRO-CS-508

SR-312

SK-032

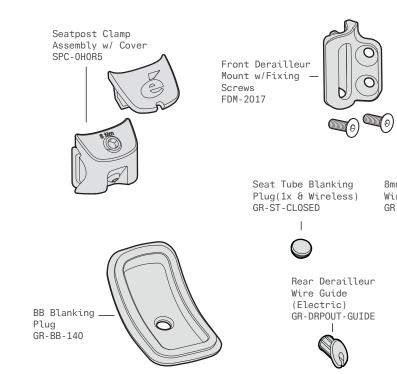
BC-506

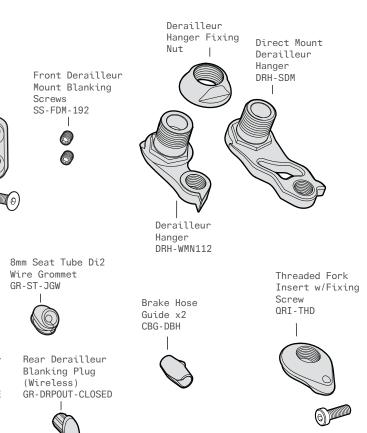
BC-413

SP-SP18-25MM

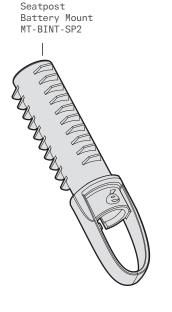
PL-338

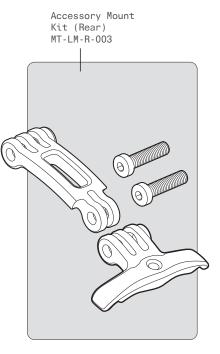
The R5 frame is engineered to provide seamless integration of electronic shifting systems, regardless of brand. In order to do so, you may require the parts shown below:



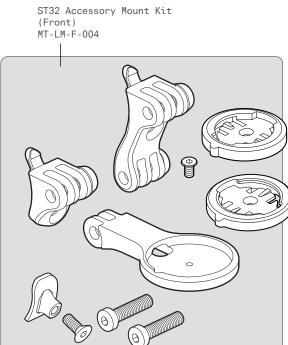








See pages 11 and 12 for mounting instructions.



See page 11 for mounting instructions.

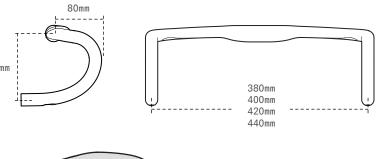
HB13 HANDLEBAR

\land WARNING

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

Cervélo HB13 Handlebar 38cm HB-HB13-38 40cm HB-HB13-40 42cm HB-HB13-42 44cm HB-HB13-44

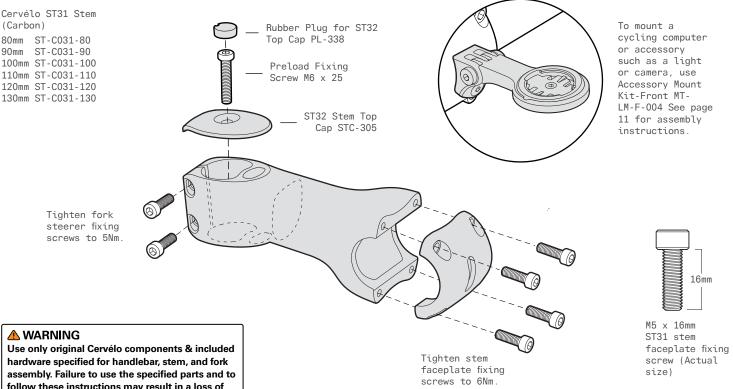
128mm



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



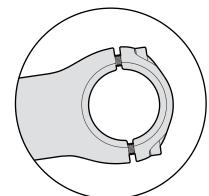
Cervélo ST31 Stem (Carbon) 80mm ST-C031-80 90mm ST-C031-90 100mm ST-C031-100 110mm ST-C031-110 120mm ST-C031-120 130mm ST-C031-130



cycling computer such as a light Accessory Mount LM-F-004 See page

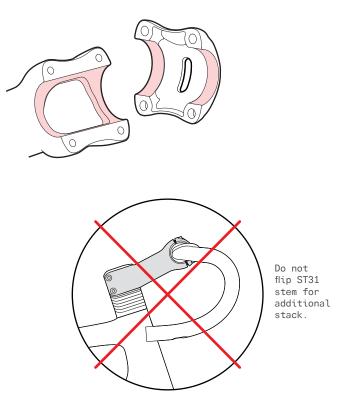
16mm

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



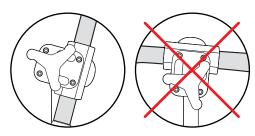
Ensure upper and lower faceplate gaps are even.

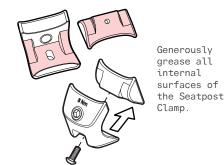
Use only original Cervélo components & included hardware specified for handlebar, stem, and fork assembly. Failure to use the specified parts and to follow these instructions may result in a loss of control while riding and serious injury.



FRAME & COMPONENT PREPARATION

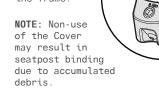
Hold the frame using a secured seatpost only. Clamping the top tube can damage the frame and void vour warranty.





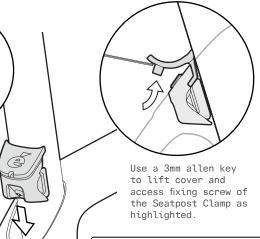
Press fit Cover over the Seatpost Clamp prior to installing in

the frame.



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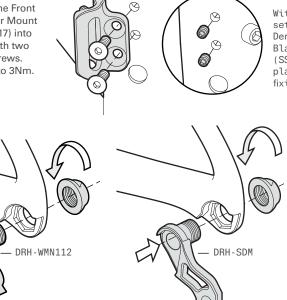
- Apply carbon paste to the frame and seatpost shaft to be inserted into the frame.
- 2. Insert the seatpost and the assembled Seatpost Clamp & Cover (SPC-0H0R5) into the frame.
- 3. Adjust height and torgue the Seatpost Clamp to 8Nm maximum.



WARNING

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.

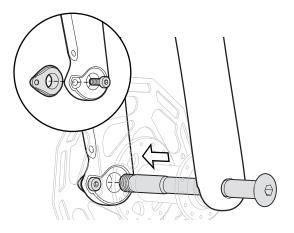
Secure the Front Derailleur Mount (FDM-2017) into frame with two fixing screws. Tighten to 3Nm.



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.

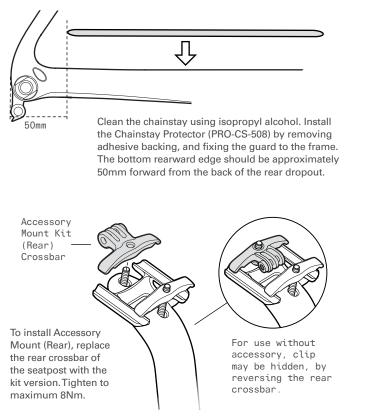
Do not final tighten rear derailleur hanger assembly without rear wheel installed. Doing so may result in a misaligned derailleur and poor shifting.

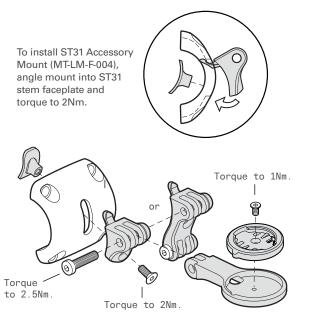
With 1x chainring setups, use Front Derailleur Mount Blanking Screws (SS-FDM-192) in place of the fixing screws.



- 1. Lightly grease supplied M4 fixing screw. Install the Threaded Fork Insert (QRI-THD) and fixing screw, tightening only lightly.
- 2. 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-torgue the fixing screw to 3Nm.

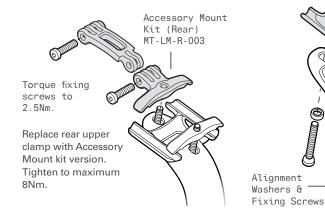
FRAME & COMPONENT PREPARATION



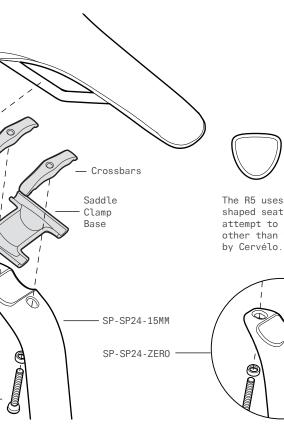


SEATPOST ASSEMBLY & INSTALLATION

- 1. Apply a light coat of carbon assembly compound to the upper face of the Seatpost, making sure to cover area around the adjustment slots.
- 2. Locate saddle rail between Crossbars and Saddle Clamp Base, 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 8Nm.



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

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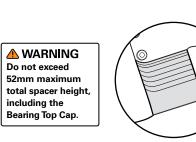
FORK PREPARATION & INSTALLATION

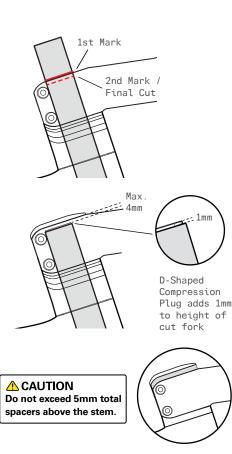
- 1. Apply grease to the bearing pockets and install the upper and lower headset bearings into the frame.
- 2. Fit the fork provided with your frame into the head tube with the complete headset, required spacers, and the stem.
- 3. Apply the minimum pressure needed to ensure the assembly is fully seated.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

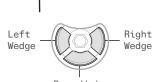




The component parts of the compression plug are side-specific. Re-assembling parts incorrectly may result in loss of preload in the system. Refer to the images shown for correct assembly.



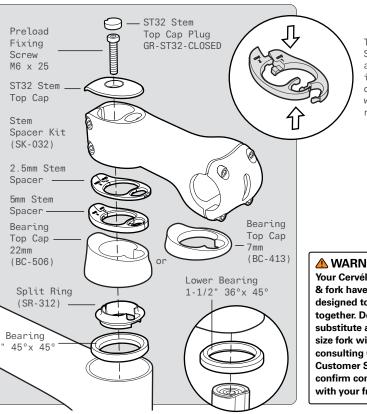
Install D-Shaped Compression Plug (FKI-CL005-517A) in fork steerer and lightly tighten. Apply rated torque of 8Nm following stem and spacer installation.

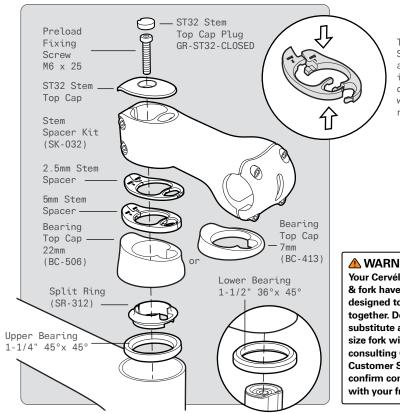


Rear Wedge

WARNING

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



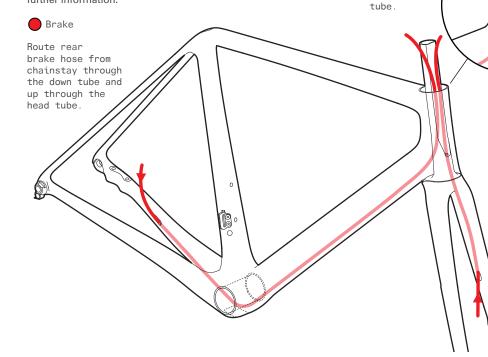


Two-piece Stem Spacers allow for installation or removal without re-cabling

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

BRAKE HOSE ROUTING

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



Route rear

brake hose

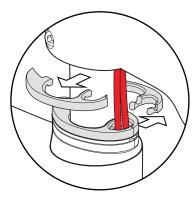
around drive

side of fork

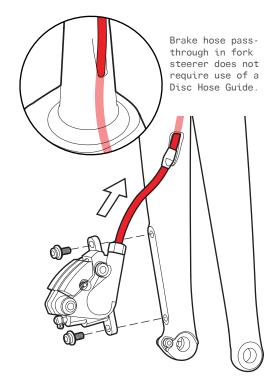
inside head

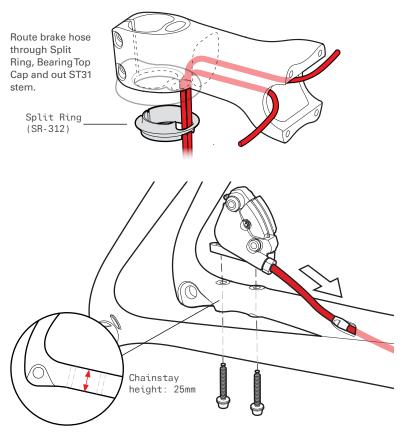
It is recommended to include 20mm-25mm of additional brake hose length to the amount required for the final customer fit. Doing so will permit sufficient length for disassembly and service purposes.

- 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.

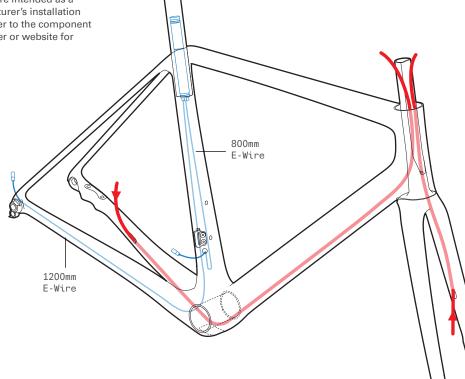


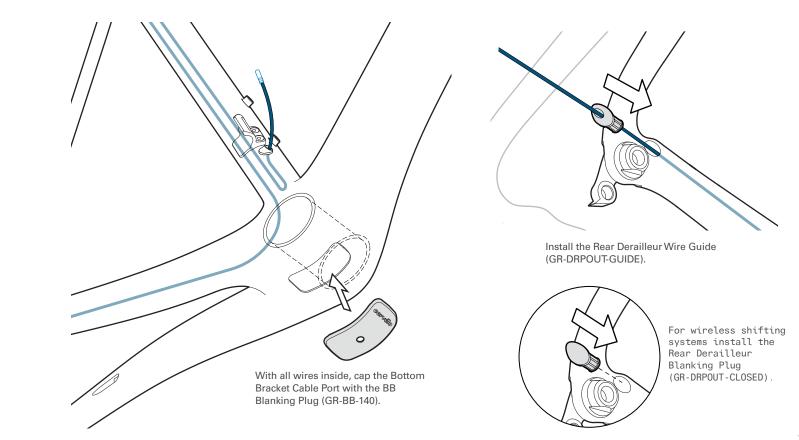


ELECTRIC WIRE ROUTING & INSTALLATION

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)





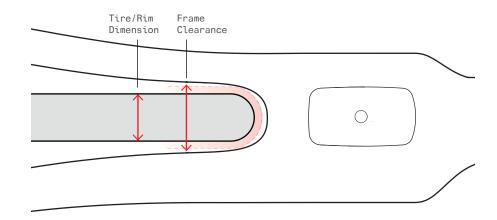
DI2 BATTERY INSTALLATION

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.

Insert the assembled battery and holder into the seatpost.

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.



Press the Di2 battery into the Seatpost

Internal Battery Mount

according to manufacturer

(MT-BINT-SP2) and

attach the E-wires

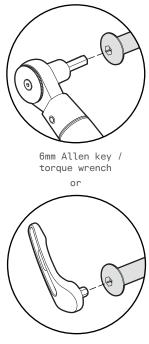
instructions.

- 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 smaller of those two numbers (Frame Clearance), subtract 8mm (4mm per side) to determine the maximum AllowableTire/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 AllowableTire/Rim Dimension 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.

AERO THRU-AXLE INSTALLATION



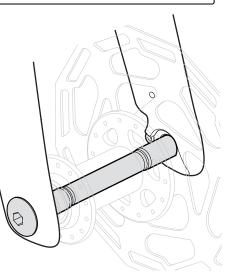
Cervélo Aero Thru-Axle with Removable Handle (QRA-AER02-F & QRA-AER02-R)

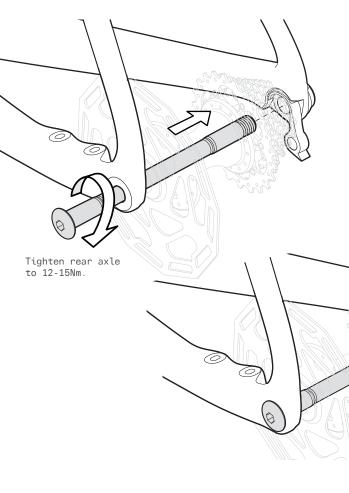


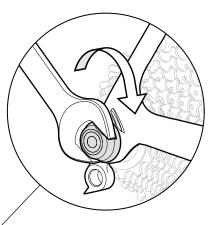
To secure wheels, install the greased axle, through the drop out and the wheel hub, aligning the threaded end of the axle with the threaded insert. Once aligned and engaged, thread the axle (clock-wise) into the threaded component of the insert until the axle is secured tightly.

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.

R5 FRAME DETAILS

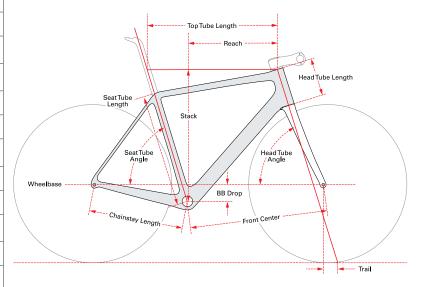
R5 (FM140)	
Bike Name	R5
Model Year	2022
Serial Number Code	SN140
Frame Code	FM140
Fork Code	FK140
Brake Mount Type	Flat Mount Disc
Chainstay Height (Flat Mount)	25mm
Frame Sizes	48/51/54/56/58/61
Wheel Size	700c
ВВ Туре	BBRight
Headset Type	Integrated 1-1/4" x 1-1/2"

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

R5 (FM140)	
Upper Headset Bearing Dimensions	1-1/4", 34x46.8x7, 45°x45°
Lower Headset Bearing Dimensions	1-1/2", 40x51.8x7.5, 36°x45°
Seatpost	SP-SP24-ZERO, SP-SP24-15MM, SP-SP18-25MM
Seatpost Clamp	SPC-0H0R5
Rear Derailleur Hanger	DRH-WMN112
Rear Derailleur Hanger (Shimano DM)	DRH-SDM
Front Derailleur Hanger	FDM-2017
Front Thru-Axle Dimensions	12 x 100MM
Rear Thru-Axle Dimensions	12 x 142MM
Fork Dropout Insert	QRI-THD
Maximum Tire Width (Actual)	34mm with 4mm clearance*

R5 FRAME GEOMETRY

R5 (FM140)	48cm	51cm	54cm	56cm	58cm	61cm
Reach	363mm	371mm	380mm	389mm	398mm	407mm
Stack	497mm	522mm	547mm	572mm	597mm	622mm
Bottom Bracket Drop	74.5mm	74.5mm	72mm	72mm	69.5mm	69.5mm
Chainstay Length	410mm	410mm	410mm	410mm	410mm	410mm
Seat Tube Angle	73°	73°	73°	73°	73°	73°
Head Tube Angle	71°	72°	73°	73°	73°	73°
Fork Length (Axle to Crown)	373mm	373mm	373v	373mm	373mm	373mm
Fork Offset	57.5mm	51.5mm	45.5mm	45.5mm	45.5mm	45.5mm
Front Center	574mm	576mm	578mm	594mm	611mm	628mm
Head Tube Length	93mm	114mm	137mm	163mm	192mm	218mm
Wheelbase	972mm	974mm	977mm	994mm	1011mm	1028mm
Standover Height	695mm	724mm	755mm	778mm	800mm	824mm
Seat Tube Length	403mm	434mm	463mm	486mm	503mm	526mm
Top Tube Length	515mm	531mm	548mm	564mm	581mm	598mm



CERVÉLO CUSTOMER SUPPORT

Contacting Customer Support Visit <u>www.cervelo.com/contact-us</u> to submit a question to Cervélo.

Product Registration Visit <u>www.cervelo.com/support</u> to register your Cervélo bicycle through your MyCervélo account.

Manuals

Visit <u>www.cervelo.com/product-manuals</u> for additional information on Cervélo products.

Warranty

Visit <u>www.cervelo.com/warranty</u> for information on Cervélo's warranty policy.

NOTES



CER-R5-V2 2022-07-29

www.cervelo.com

