



V5Rs

mounting
support manual

EN

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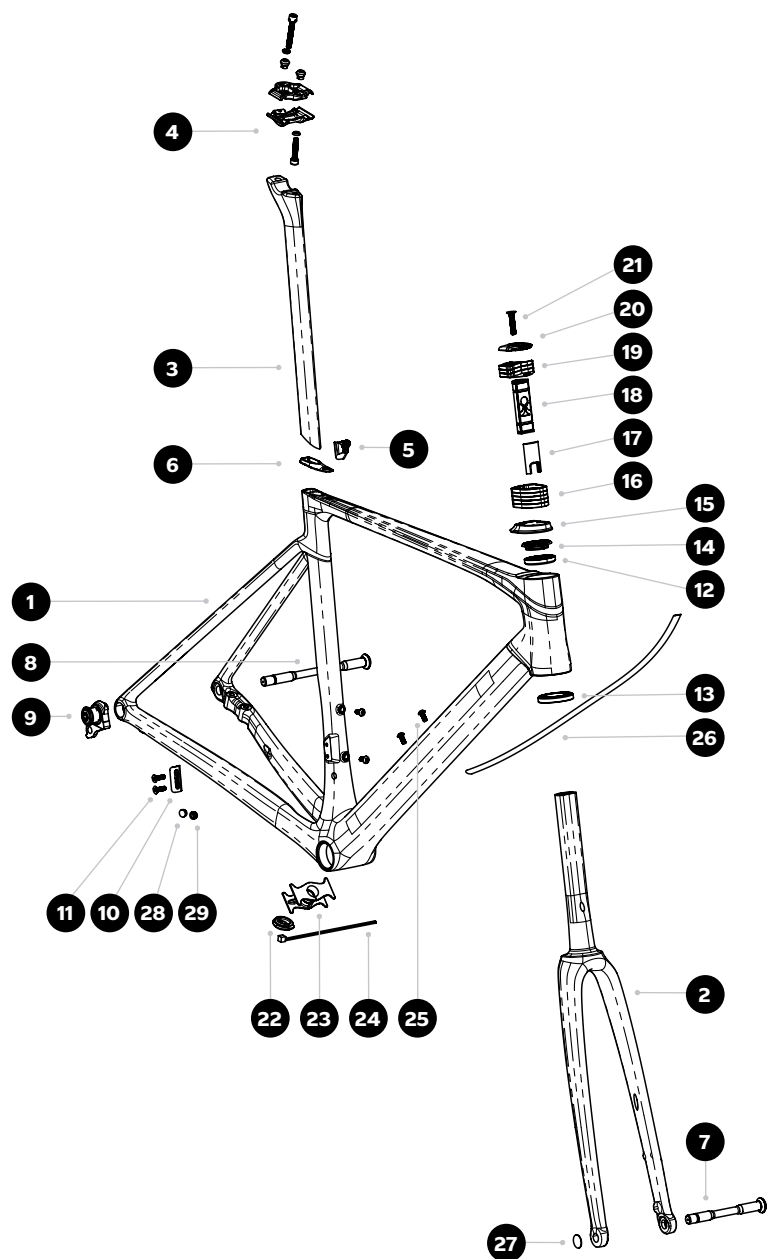


General Information

This manual is a guideline for the official Colnago retailers in the assembly and adjustment of the Colnago V5Rs bicycle.

It assumes that the assembler is a well-trained professional bicycle mechanic, and, furthermore, it is not intended to replace any assembly and service instruction provided by third-party component manufacturers. This manual shows only the procedure associated with the installation of Colnago parts, as well as the routing of shifting and braking cables. All the Colnago proprietary parts listed below are available only through Colnago and/or its authorized distributors.

Failure to use the specified parts and to follow these assembly instructions may lead to serious injury or death.



V5Rs frame-kit

List of Parts

The numbers shown in the diagram
do NOT correspond to the
Colnago spare part purchase codes

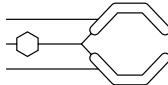

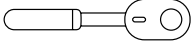
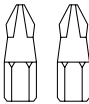
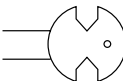
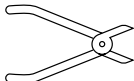



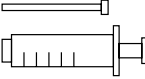
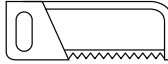
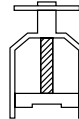

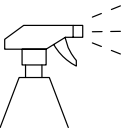
ITEM NO.	DESCRIPTION	QTY
1*	V5Rs - Painted Frame	1
2*	V5Rs - Painted Fork	1
3*	V5Rs Seatpost -15 mm offset	1
4	Colnago Seat Clamp kit - 2 bolts	1
5	V5Rs Seatpost Clamp	1
6	V5Rs Seatpost Rubber Grommet	
7	Threaded Thru-Axle UDH Front 12 mm	1
8	Threaded Thru-Axle UDH Rear 12 mm	1
9	UDH Hanger	1
10	Front Derailleur hanger	1
11	M5x15 Flat head screw	2
12	CS - Upper Bearing 1-1/8; 31x40x7 SLT	1
13	CS - Lower Bearing 35x47x7 SLT	1
14	V5Rs Compression Ring	1
15	V5Rs Dust Cover	1
16	V5Rs - CC01 Spacer 5 mm open	5
17	D-Shape Plug	1
18*	D-Shape Expander	1
19	V5Rs - CC01 Spacer top	3
20	Top Cap CC01 - D-Shape	1
21	M6x30 Screw Colnago	1
22	Rubber Battery Cap	1
23	VsRs Di2-battery holder	1
24	Zip Tight	1
25	M5x12 Bottom head screw	1
26	Foam Hose Cover	1
27	Colnago front axle Sticker	1
28	Non-drilled rubber cap Di2	1
29	Drilled rubber cap Di2	1

List of Recommended Tools and Supplies

The following tools and parts listed are required for mounting and adjusting procedures of Colnago parts. Colnago recommends any intervention on the bike to be performed by an authorized Colnago retailer.

Refer to each specific mounting procedure and requirements for the assembly of a specific component, provided its own manufacturer.

NOTE: If you are a Colnago V5Rs consumer/purchaser reading this manual, we suggest you consult your authorized Colnago retailer before undertaking any procedure in this manual.

Bike Support Stand 	Allen key key 2 ÷ 12 mm 	Torque wrenches with 2.5 Nm to 25 Nm 
Phillips and slot head screwdriver 	Pedal wrench 	Cable cutters 
Pliers 	Brake rotor locking tools (inner and outer) 	Di2 wire tool - Shimano 
Hydraulic bleed kit 	Hacksaw (with carbon blades) 	Saw cutting guide 
High quality grease & carbon assembly compound for bikes 	Isopropyl alcohol 	

Seatpost installation

3	V5Rs Seatpost -15 mm offset
5.1	V5Rs Seatpost clamp – Custom M8 Headless screw TORQUE 7 Nm
5.2	V5Rs Seatpost clamp - Pushing block
6	V5Rs Seatpost Rubber Grommet

Step 1: Couple the Custom Headless Screw M8 (N. 5.1) with V5Rs seatpost Pushing Block (N. 5.2), inserting the flat end in the clamp as shown in the picture.

Step 2: Keeping the frame in vertical position, in order to avoid the seatclamp to fall into the frame, gently insert the assembled seatpost clamp in the frame, centering the screw with its seat.

Step 3: Once the clamp is in seat, fix it to the frame by screwing counter-clock wise (unscrewing)

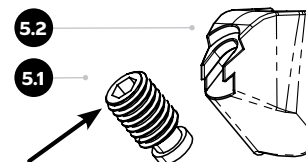
Step 4: Fit the V5Rs seatpost (N.3) with the custom V5Rs Rubber Grommet (N.6) and insert the seatpost into the seat tube. After regulating the saddle height, apply 7 Nm torque to prevent sliding.

NOTE:

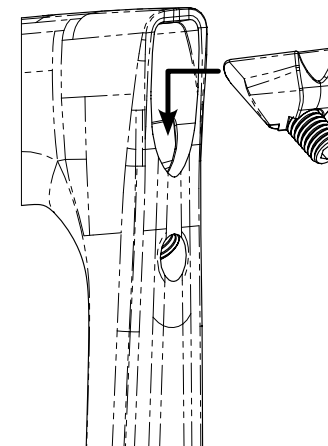
Apply carbon compound both to the inner face of the seat tube and to the carbon seatpost

After installation, hold the frame and bicycle through a secured seatpost only. Clamping the top tube may cause damage and void the frame warranty.

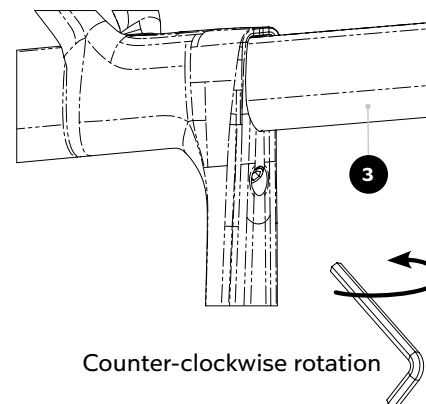
Step 1



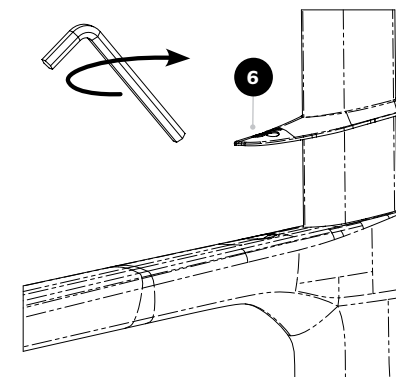
Step 2



Step 3

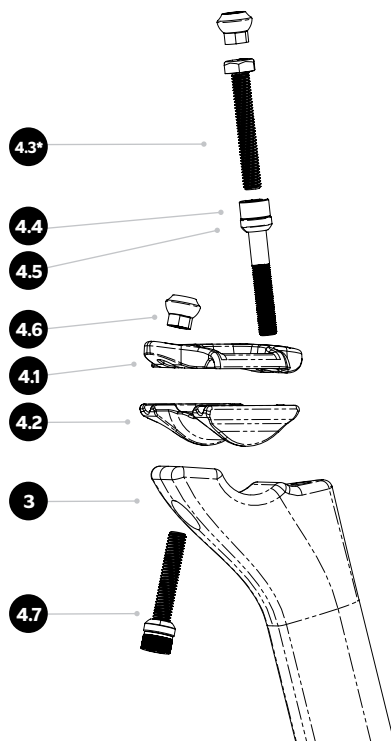


Step 4

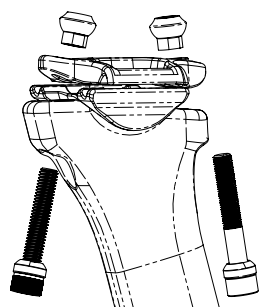


Saddle clamp installation

3	V5Rs Seatpost
4.1	Saddle Clamp - Top
4.2	Saddle Clamp - Bottom
4.3*	M6x40 Hex Head Screw
4.4	M6x40 Socket Head Screw
4.5	Spherical Washer M6 - 2 pcs
4.6	M6 Custom Nut
4.7	M6x35 Socket Head Screw TORQUE 8 Nm

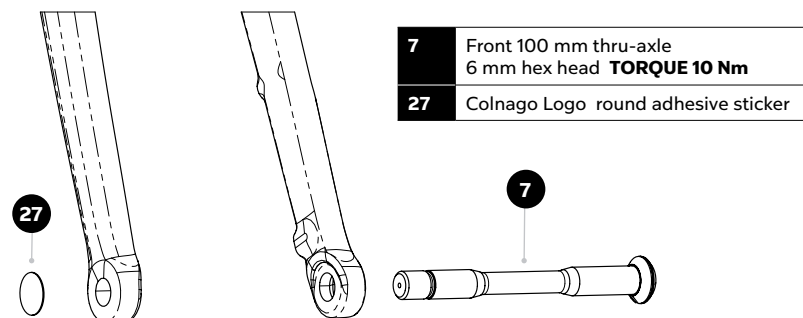


* The saddle clamp kit is provided both with socket and hex head M6x40 front screws. The second one is recommended to ease the mounting of closed saddles



NOTE: seatpost 0-offset must be fixed with the 2 bolts from the bottom, featured with the dedicated spherical washers (N. 4.5)

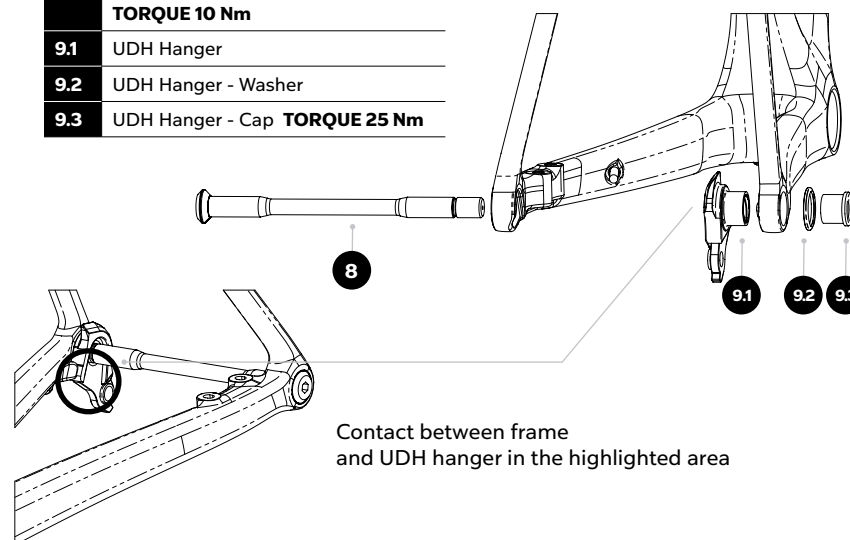
Front axle installation



7	Front 100 mm thru-axle 6 mm hex head TORQUE 10 Nm
27	Colnago Logo round adhesive sticker

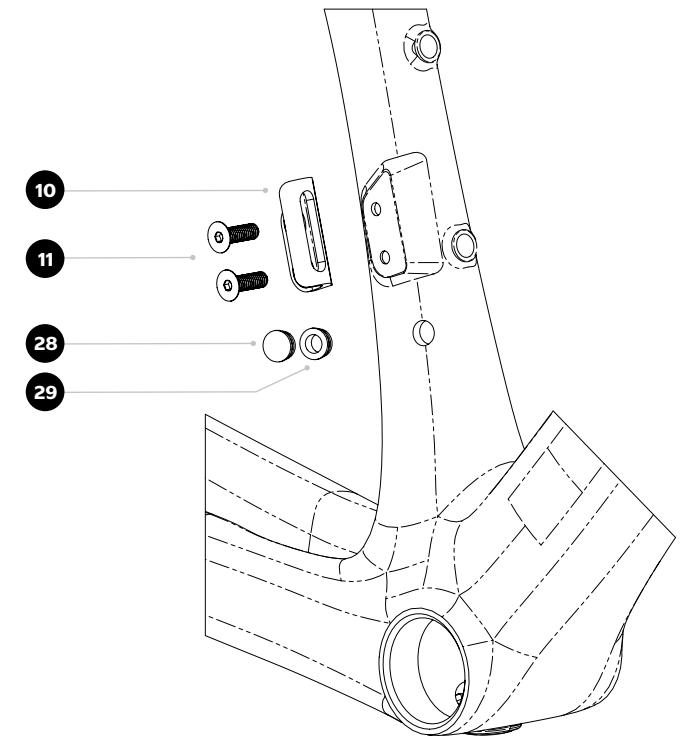
UDH - rear derailleur hanger installation

8	Thru-axle UDH - 6 mm hex head TORQUE 10 Nm
9.1	UDH Hanger
9.2	UDH Hanger - Washer
9.3	UDH Hanger - Cap TORQUE 25 Nm



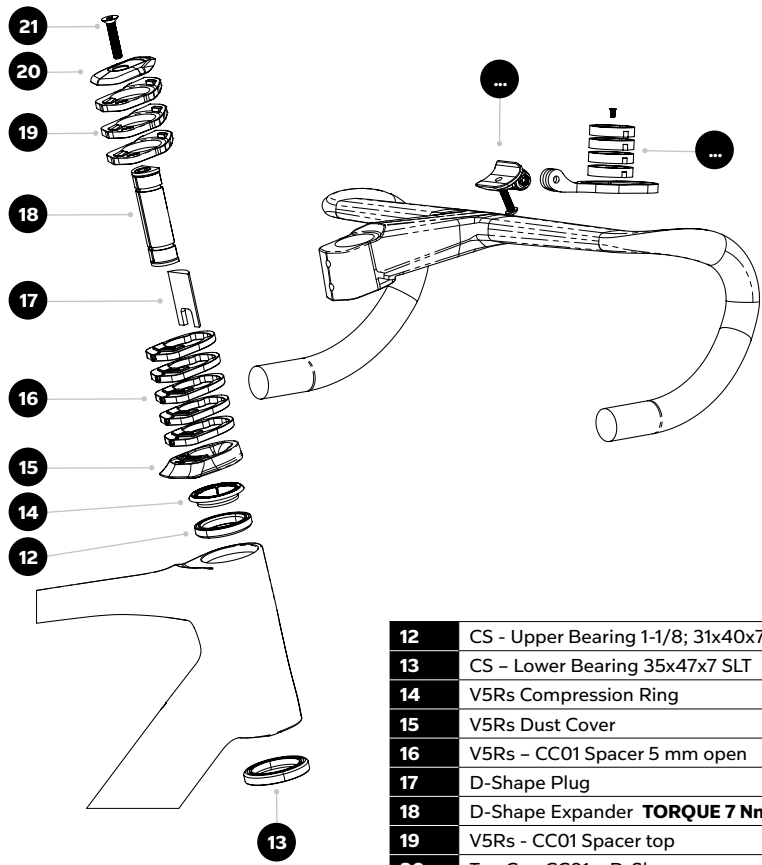
Contact between frame and UDH hanger in the highlighted area

Front derailleur hanger installation



10	Front Derailleur Hanger
11	M5x15 Flat head screw TORQUE 3 Nm
29	Non-drilled cap Di2
30	Drilled cap Di2

Fork and headset installation



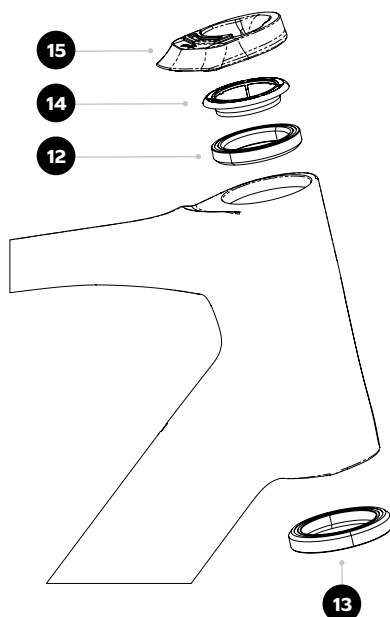
12	CS - Upper Bearing 1-1/8; 31x40x7 SLT
13	CS - Lower Bearing 35x47x7 SLT
14	V5Rs Compression Ring
15	V5Rs Dust Cover
16	V5Rs - CC01 Spacer 5 mm open
17	D-Shape Plug
18	D-Shape Expander TORQUE 7 Nm
19	V5Rs - CC01 Spacer top
20	Top Cap CC01 - D-Shape
21	M6x30 Screw Colnago

NOTE:
For integrated cockpit CC.01 mounting refer to specific CC.01 instruction manual

Fork and headset installation

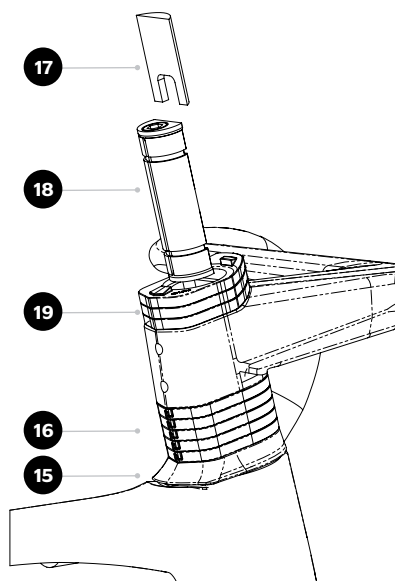
Step 1

Apply the specific grease in bearing seats and insert the two bearings (**N.13** Bottom and **N.12** Top), the Compression Ring (**N.14**) and the V5Rs Dust Cover (**N.15**)



Step 2

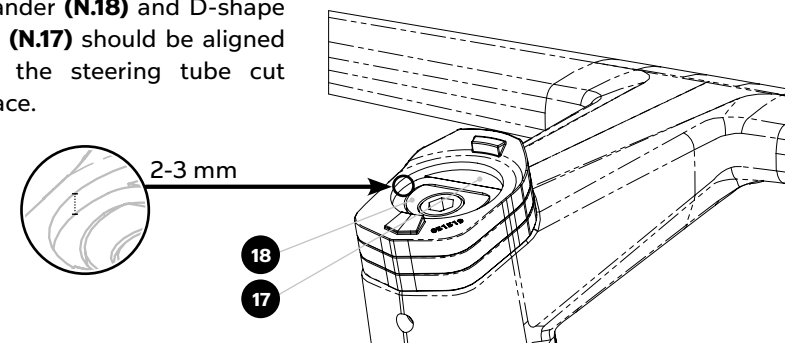
Once the fork steering tube has been cut at proper length, according to the desired number of spacers, insert and fix in the steering tube the D-Shape Expander (**N.18**, Torque 7 Nm) and the D-Shape Plug (**N.17**)



Fork and headset installation

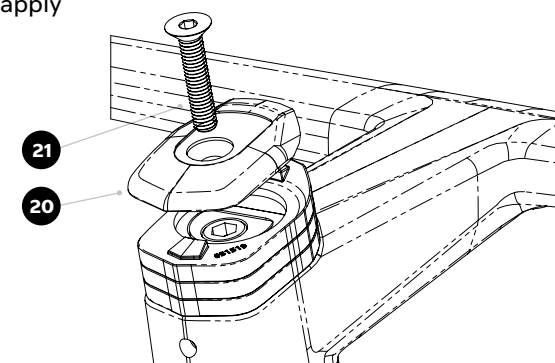
Step 3

Check that the fork is cut 2-3 mm below the cockpit or top spacer top surface. D-shape Expander (**N.18**) and D-shape Plug (**N.17**) should be aligned with the steering tube cut surface.



Step 4

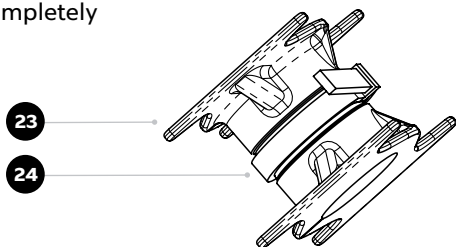
Use the top cap (**N.20**) and the M6x30 screw (**N.21**) to apply the required preload.



Di2 Battery support assembly

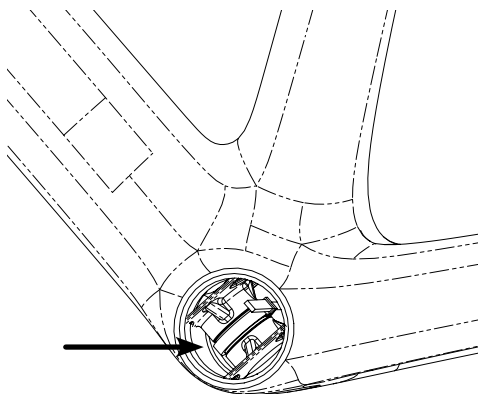
Step 1

Fit the V5Rs Di2 battery holder (N.23) with the standard provided zip tight (N.24) without completely lock it.



Step 2

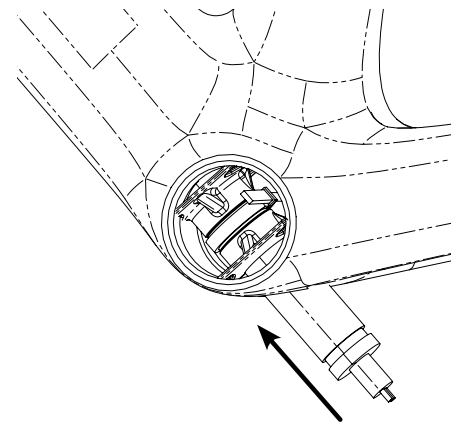
Insert the V5Rs Di2 battery holder, fitted with the zip tie in the bottom bracket, aligning its direction with the downtube and the hole below the bottom bracket.



Di2 Battery support assembly

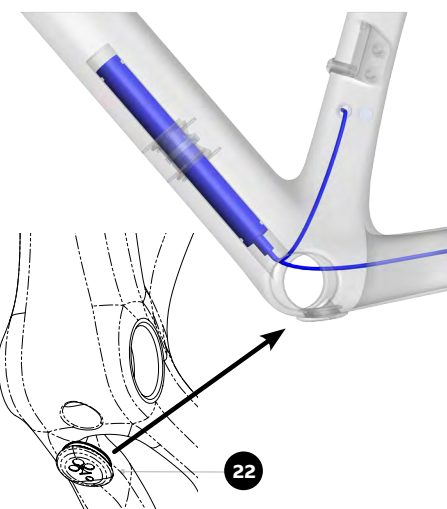
Step 3

Insert the Di2 battery from the bottom, positioning the V5Rs Battery Holder (N.23) roughly in the center of the battery. Then fix the zip tie to prevent battery sliding.



Step 4

Push the Di2 battery and the Battery holder in the downtube, just above the bottom bracket, in order to ease a future removal.



After fitting the battery into the frame, close the hole below the bottom bracket using Battery Rubber cap (N.22)

Brake hose routing

It is recommended that the rear hydraulic brake hose is installed before electric wires. These routing illustrations are intended as a supplement to the installation instructions only. For each specific brake system, please refer to the component manufacturer's service center or website for further information.

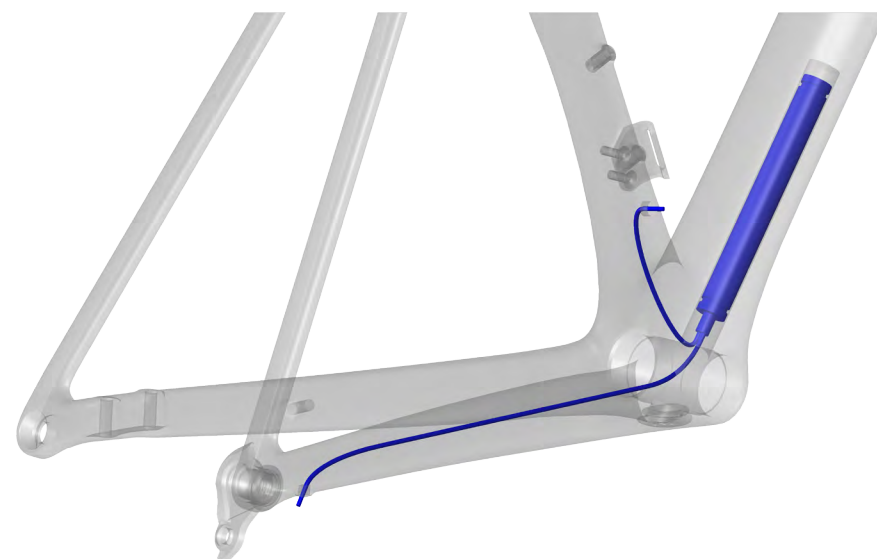


To avoid undesirable noises always install the rear brake hose foam, cut according to the frame size in order not to interfere with other subassemblies

To ease the procedure it is recommended to route the brake hoses before installing the headset and the Di2 battery. Once installed and routed the rear brake hose in the downtube, with a dedicated wiring tool with magnet in the end, pull the it through the preload bolt hole as shown in the pictures below.

Electric Di2 wire routing

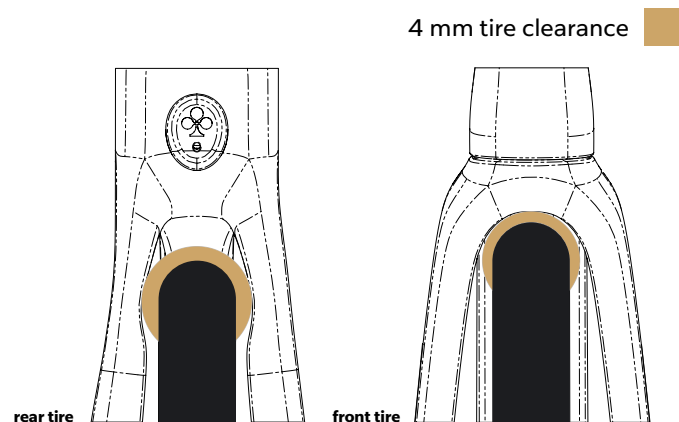
Colnago recommends installing electric cables and junction points after brake hose. The presented routing schematics are intended as a supplement to the groupset manufacturers' installation. For any more detailed information, please refer to the manufacturers' technical manual, website, or service center.



Tire clearance

Colnago frames and forks are designed to comply with ISO 4210-2 standard for tire clearance. For the off-road category, a minimum of 4 mm of clearance must remain between the tire and the frame or fork. The effective width and diameter of the tire can vary depending on the tire brand, the rim geometry and dimension and the tire inflation pressure. Colnago always recommends to check and respect the minimum clearance before choosing both front and rear tire.

Maximum Allowed Tire 32 mm



NOTE:

Contact between the tire and the frame or fork may lead to a component or subassembly failure while riding, with potentially serious injury for the rider. Damage to the bicycle due to non-compliant tire clearance is not covered by the bicycle warranty.

Intended Use for Colnago V5Rs

Road Racing Bicycle – Specific for races and expert users

Intended surface: Colnago V5Rs is designed for riding on a paved surface with both the tires always in contact with the ground.

Not Intended surfaces and uses: Colnago V5Rs is not conceived for off-road, cyclocross, touring with additional extra bags or racks, or mounting child seats or trailers.

Colnago V5Rs is designed both light weight and aerodynamic performance. You must understand that these types of bikes are intended to give an expert racer or competitive cyclist the maximum performance over a relatively short product life. Furthermore, the position of the bicycle is racing oriented; this implies that, to ride the bicycle safely and enjoy the experience in all the conditions, especially on open roads, it requires advanced riding skills. Light frames and components need frequent inspection. These frames are likely to be damaged or broken in a crash.

WARNING:

Any abuse in the usage is hazardous and may lead to serious consequences.

Weight Limit

Colnago bicycles are tested
to a maximum admissible mass* of 110kg.

COLNAGO V5Rs
Max Admissible Mass
110kg - 242.5lbs

NOTE:

Each component has different weight limits, and if replaced can alter the maximum safe bike weight limit, since the most restrictive one is defining the limit of the whole vehicle. Consult your Colnago retailer about what components are suitable for your Colnago V5Rs.

*Maximum admissible mass is the sum of the bicycle with all its components (groupset, cockpit, wheels, etc.), plus the rider and any luggage or accessory (head unit, filled bottles, storage mounts, etc.).

Torque and fasteners recommendation

To maintain correct tightening torques of all the threaded fasteners is crucial to your safety. Always tighten fasteners to the correct torque. Too high torques can stretch and deform fasteners. Too low torques can cause unwanted fastener movements leading to unfastening and fatigue failures.

Use only a correctly calibrated torque wrench with a proper scale to tighten critical fasteners on your bike. Carefully check to have the proper tools and follow their manufacturer's instructions on how to set and use the tool for accurate results before attempting any adjustments yourself. Before assembling and tightening any bolts, all threads must be greased with a quality, non-lithium type grease unless the bolt is pre-coated with thread locker. All bolts should have either grease or thread locker - but never both.

Colnago recommends the use of carbon assembly compound/friction paste for all areas of clamping to carbon fiber (seatpost to frame, stem to fork, and handlebar to stem joints). Such a paste reduces 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.

WARNING:

In case of any doubt or disagreement or a conflict between the following list and any supplier literature on recommended torque values for original equipment components, please contact a Colnago retailer for review and clarification of the required torque before to keep on with the installation.

Torque setting tab*

Colnago is concerned about the resistance and quality of their frames. In order to guarantee the perfect conservation and durability of the frame over time, is important to maintain it correctly, by using a torque wrench.

REASONS WHY TO USE THE TORQUE WRENCH

1. Ensuring the frame and components are not over tightened which can cause damage or from components loosening from being under tightened. Cracks and damages caused by overtightening the bolts are not covered by Colnago Warranty.
2. Avoiding any harm to the cyclist whilst riding, due to the failure of incorrect installation.
3. Frameset and components benefit from a longer lifespan, even after multiple maintenance and service schedules during its lifetime.

DESCRIPTION	MAX TORQUE (approx.)	TOOL
Pushing block CC.01	4 Nm	3 mm Allen key
Head Unit Support CC.01	3 Nm	4 mm Allen key
Colnago Bottom Bracket cups	30-35 Nm	BSA key
Colnago Seatpost clamp bolt	7 Nm	4 mm Allen Key
Colnago Saddle clamp bolt	8 Nm	5 mm Allen Key
Bottle cage bolts	2.5 Nm	4 mm Allen Key
Wheel thru-axle	10 Nm	5 mm Allen Key (6 mm for UDH std)
Brake Caliper bolts	6-8 Nm	4 mm Allen Key
UDH Hanger	25 Nm	8 mm Allen key
Front Derailleur hanger (on frame)	3 Nm	4 Allen key

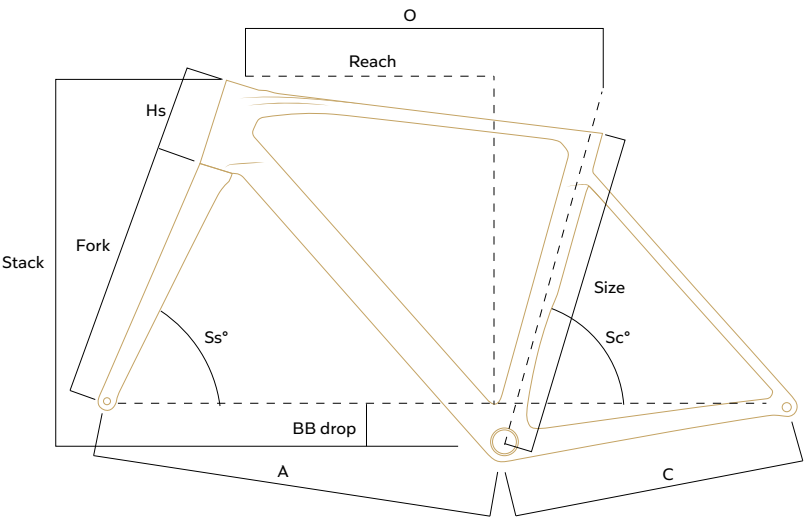
* The presented table includes torque setting indication provided by Colnago. It is always recommended to check indication provided by each specific component's manufacturer.

Technical Information

COLNAGO V5Rs	
Model Year	2025
Frame Size	420 – 455 – 485 – 510 – 530 – 550 – 570
Available Colors	
Brake Mount Type	Flat Mount disc rear - 140 mm rotor (160 mm with spacer) Post Mount front 160 mm
Chainstay Height (Flat Mount)	20 mm
Wheel Size	700c
BB Type	BSA – 68 mm
Upper Headset Bearing Dimensions	1-1/8; 41x30x7;
Lower Headset Bearing Dimensions	1-1/4; 47x35x7
Seatpost	Custom V5Rs Seatpost – Available with offset -15mm and 0 mm.
Seatpost Clamp	Custom V5Rs Seatpost pushing block
RD Hanger	Standard UDH
Front Axle Dimensions	Thru-axle 12mm – 100 mm hub
Rear Axle Dimensions	Thru-axle 12mm – 142 mm hub - UDH Thread
Maximum Tire Width (Actual)*	32 mm with 4 mm clearance

* Tire measurements shall be taken at the widest point and at the maximum diameter when it is installed on the rim and inflated for at least 24 hours. 4 mm of distance is required between the tire and any frame or fork element.

Geometry Chart



Sloping														
Size	Cf	Fork	rake	Ss°	A	C	Hs	Ss°	bbdrop	O	Stack	Reach	Trail (28-622 tire)	Standover (28-622 tire)
420	420	377	47	75.5	579	408	101	70.6	74	503	509	371	70	683
455	455	377	47	75.3	581.5	408	112	71.5	74	514	523	377	65	714
485	485	377	47	74.8	586.5	408	127	72.3	72	530	539	384	59.5	743
510	510	377	47	74.5	596.5	408	146	72.5	72	544	557	390	58.5	766
530	530	377	43	73.8	600	408	162	73	72	564	575	397	59.5	784
550	550	377	43	73.5	612.5	408	181	73	72	578	593	404	59.5	801
570	570	377	43	73.3	622	408	199	73.5	72	595	612	411	57.5	820



UAE



COLNAGO

Emirates

SES

4.5

P ZERO RACE
TLR 25.5



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