

TECHNICAL MANUAL

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BLUE PAPER
OIZ HYDRO
2023

ORBEA

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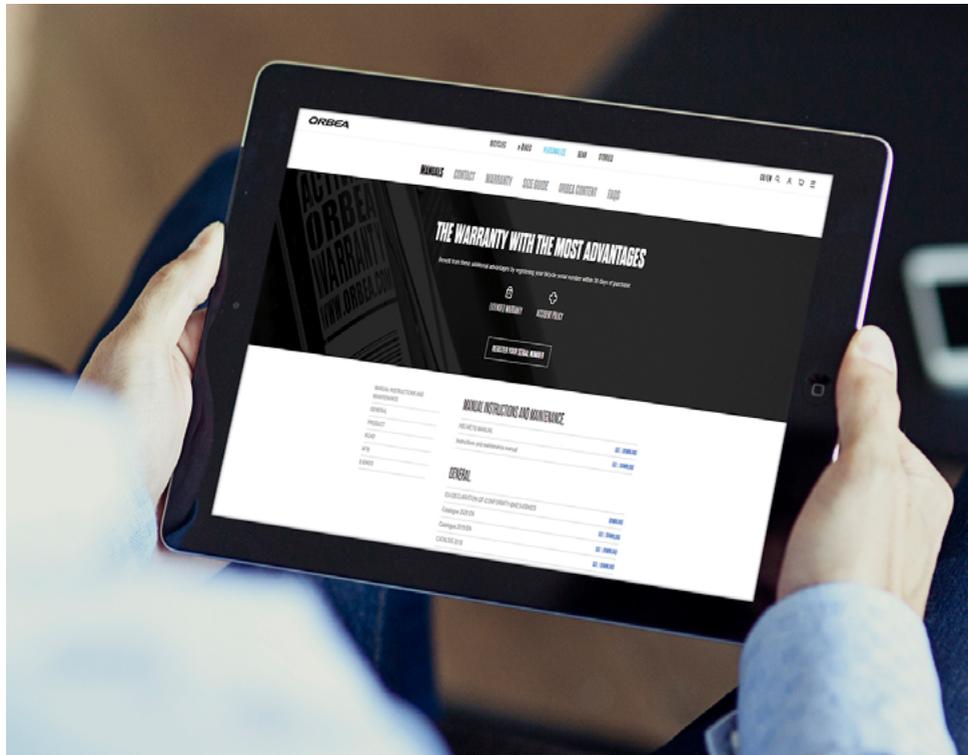
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This technical manual contains important information about your bicycle, on how to use it, its maintenance and spare parts. Read it carefully.

This document is a supplement to the General User Manual for Orbea bicycles and components, which describes the proper use and adjustment of general bicycle components in greater detail for safe riding and operation. You can view and download the User Manual, as well as the rest of the technical manuals for Orbea products, from our website:

www.orbea.com/us-en/support/manuals

You can consult the relevant information on the use, maintenance and characteristics of the components from other manufacturers that are fitted to our bicycles, such as wheels, handlebars, pedal assistance systems, suspension forks, etc., on the website of the manufacturer in question or through their distributor in your country.



01 KEY TO SYMBOLS

Throughout this technical manual, various symbols are used that indicate instructions and warnings for use, maintenance and assembly. Pay attention to these symbols to avoid dangerous situations and to ensure the correct use and assembly of all components.

The meaning of these symbols is explained below. In this manual, the symbol may be accompanied only by the relevant instruction for the component it describes. Read the following information carefully to understand its meaning.

SAFETY INSTRUCTIONS

 **DANGER:** Dangerous situation which, if not avoided, will result in serious injury or death.

 **WARNING:** Dangerous situation which, if not avoided, could result in serious injury or death.

 **CAUTION:** Dangerous situation which, if not avoided, may result in minor or moderate injury.

 **NOTICE** Situation not related to physical injury. Relevant information.

The symbols DANGER and WARNING always imply a risk of accident if measures are not taken to avoid the situation they describe. An accident while riding a bicycle can always involve a risk of serious injury or even death. The risk of death will not always be repeated in this manual when these symbols appear, as the risk is detailed here.

TOOLS

SPANNER

TORX KEY

ALLEN KEY

PHILLIPS
SCREWDRIVER

The tool size to use appears inside the symbol

TIGHTENING TORQUES: The required tightening torque (in Newton metres) is shown below the symbol for the tool to be used for the item it describes.

COMPOUND TYPES



OIL: Light lubrication of components such as chains or cables.



GREASE: Assembly grease to avoid creaking and seizing.



CARBON PASTE: Assembly compound to increase friction between carbon fibre components.



LOCTITE SERIES 600: Fixing cylindrical surfaces.



LOCTITE SERIES 200: Fixing or threadlocks. Medium resistance.



LOCTITE SERIES 400: Instant adhesive.

02 ORBEA GUARANTEE

Our continuous daily effort to provide our bicycles at the highest quality allows us to offer the following guarantee coverage and conditions:

LEGAL GUARANTEE

Orbea offers the original owner of the Orbea bicycle, rigid fork or OC component a legal guarantee of 3 years from the date of purchase of the items, or the period stipulated as the legal guarantee period in the country of purchase.

This guarantee covers all Orbea products against manufacturing defects and/or failure to meet the standard and guarantees the repair or replacement of the defective product at no cost to the affected customer. Likewise, this guarantee also covers paint, varnish and corrosion defects on all frames and rigid forks we fit to our bicycles during the period specified in the previous paragraph of this guarantee.

This guarantee does not, under any circumstances, cover damage as a result of inappropriate use, falls or accidents or the lack of maintenance, as well as the normal wear and tear of consumable parts, such as, by way of example, but without limitation: seals, bearings, handlebar tape, spokes, tyres, saddles, etc.

For a full description of the coverage conditions and the legal warranty, please visit:

www.orbea.com/us-en/warranty

ORBEA LIFETIME GUARANTEE

In addition to the legal guarantee, Orbea offers the original buyer of the bicycle the Orbea lifetime commercial guarantee, which covers the frames and rigid forks that we fit to our bicycles against manufacturing defects and material conformity issues with no time limitation, as long as they have registered their product on the Orbea website within 30 days of its purchase.

This guarantee extends the original period of coverage against paint, varnish or corrosion defects on the frames and rigid forks by one additional year after the end of the legal guarantee period.

Orbea's lifetime commercial guarantee only covers frames and rigid forks, but not OC components.

For a full description of the guarantee conditions for the lifetime guarantee, please visit:

www.orbea.com/gb-en/warranty/#orbea lifetime warranty

REGISTER YOUR BICYCLE

In order to benefit from the Orbea lifetime warranty extension, you must register your bicycle within 30 days of its purchase at:

www.orbea.com/gb-en/acceso-registro?from=register-plate/

01. REGISTER YOUR ACCOUNT

02. REGISTER YOUR BARCODE

03. WHERE TO FIND YOUR BARCODE



GUARANTEE CLAIMS PROCESS

All guarantee claims must be processed through an authorised Orbea dealer, who will perform the initial diagnosis and send Orbea all the necessary documentation for a complete diagnosis of the claim in question. The dealer will inform the owner about the status of the process and the decision made on the guarantee claim by Orbea.

We recommend that you always go to the dealer from whom you bought your bicycle to process a guarantee claim, or the dealer you chose during the process of buying a bicycle that was delivered directly to your home. If you cannot go to the original dealer, you can check the list of authorised dealers on our website or contact Orbea directly so we can let you know the dealer you should go to.

www.orbea.com/gb-en/distribuidores/?country

www.orbea.com/us-en/contacto

03 MAINTENANCE

Orbea products are carefully designed to be long-lasting, efficient and easy to maintain. The carbon and aluminium frames and forks are extremely corrosion-resistant.

However, your bicycle components need regular maintenance in order to ensure that it works properly and safely, and to ensure its longevity.

KEEP YOUR BICYCLE CLEAN

Clean your bicycle with mild soap and water on a regular basis to keep it working as new, and check the condition of the frame and its components. Do not use high pressure water, as it could damage components like bearings or the tubes of the frame.

Citrus-based degreasers are biodegradable and very effective in removing grease from the drivetrain components and the chain.



Built-up dirt can complicate the visual inspection of the components and hide damage that could potentially cause malfunctions or accidents.

NOTICE

Built-up dirt causes the premature wear of components and can even damage some parts of the bicycle frame such as the bearing housings and moving parts. Damage due to lack of cleaning and maintenance is not covered by the guarantee.

KEEP YOUR DRIVETRAIN LUBRICATED

Once you have cleaned your bicycle, lubricate the drivetrain, specifically the chain. Use the minimum amount necessary to lubricate the links, removing any excess to prevent it from attracting dirt, causing the drivetrain to not work properly and the premature wear of the components.



Do not use aerosol lubricants to prevent them from sticking to the brake surfaces. Always check the brakes after lubricating the drivetrain.

INSPECT YOUR BICYCLE BEFORE EACH RIDE

Perform a quick inspection before each ride to verify that your bike is in optimal working order. You may encounter small problems that can turn into major incidents during the ride.

FRAME: Inspect the frame and the fork, looking for cracks or other damage. You should not hear any strange noises. If there is any damage to the frame, do not use the bicycle and contact your authorised dealer for inspection.

CHAIN: Ensure it's clean and lubricated. The drivetrain should not make any abnormal noises.

BRAKES: Check that the brakes operate properly and safely. Check the tightening torques of the components.

TYRES: Check for worn tires and look for cuts on the tread or on the sides. If you spot any damage, replace the tyre. Make sure that the tyre pressure is suitable.

WHEELS: Make sure that the wheels turn smoothly and that there are no lateral deflections. Pull the wheel slightly sideways to check that there is no lateral play in the bearings. Check for broken or loose spokes. Make sure that the axles and quick-release skewers are tightened securely and to the correct torque.

HEADSET: Activate the front brake and move the front part of the bicycle back and forth, applying pressure on the handlebars with the front wheel on the ground. Check for strange noises or movement of the headset, which could indicate that the bearings are worn or the headset has not been correctly tightened. Once the headset is correctly adjusted, check that it turns smoothly.

SWINGARM PIVOT POINTS: On full suspension bicycles, check that all the swingarm pivot points rotate smoothly and show no signs of play in the bearings. Pull the swingarm from side to side on the bicycle and pay attention to any noise or play at the pivot points. If the swingarm does not operate smoothly or they show signs of play, this could be a sign that the tightening torques are incorrect or that the bearings are worn or damaged.

BEARINGS: The bearings (bottom bracket, swingarm pivot points, headset, wheels, etc.) are elements subject to wear that must be regularly inspected to ensure that they operate correctly. Bearings in poor condition can damage the components in which they are installed. Bad weather speeds up bearing wear. Bearings that have excessive play or that do not turn smoothly must be replaced immediately. If you are in any doubt, consult your authorised dealer.

NOTICE

Damage to components like the frame, bicycle wheels, etc. associated with a lack of maintenance and the replacement of the bearings are not covered by the guarantee.



Failure to follow the recommendations outlined in this manual and riding a bicycle that shows any of the symptoms described above may cause accidents and serious injuries.



TIGHTENING TORQUES. Always check the tightening torques and install the components described in this manual according to the tightening torque specifications. Follow the tightening torque specifications for components from other manufacturers installed on your Orbea bicycle. Failure to follow these specifications may lead to a malfunction of the components, accidents and even death.

MAINTENANCE PERIODS

NOTICE

The component maintenance periods indicated below are for reference, and depend largely on factors such as the weather conditions (adverse conditions considerably reduce the life of the components and maintenance times), cleanliness of the bicycle and its components (components with accumulated dirt wear out more quickly) and use (more demanding use of the bicycle will require shorter maintenance periods). For components from other brands mounted on Orbea bicycles, you can check the recommended or mandatory maintenance periods on the manufacturer's website or by contacting the distributor of that brand in your country.

NOTICE

Damage to components as a result of failing to follow the recommended maintenance periods could result in damage that is not covered by Orbea's or the manufacturer's guarantee.



Failure to comply with maintenance periods could result in damage to the components and lead to malfunctions and accidents.

HEADSET:

- Inspection of its operation before every ride.
- Disassembly and inspection of the bearings after every 6 months of use.

BOTTOM BRACKET:

- Inspection of its operation before every ride.
- Disassembly and inspection of the bearings after every 6 months of use.

DRIVETRAIN:

- Inspection of its operation before every ride.
- Regular inspection of the chain wear every 500 km. A chain that is worn beyond the manufacturer's recommendations must be replaced to prevent damage to the rest of the drivetrain components. Failure to follow the manufacturer's recommendations for wear could necessitate the replacement of the rest of the parts of the drivetrain.

WHEELS:

- Inspection of its operation before every ride.
- Disassembly and inspection of the bearings and all components every 4-6 months.

SHOCKS AND SUSPENSION FORKS:

- Inspection of its operation before every ride.
- Inspection and full maintenance every 125 hours or once a year (whichever comes first) by the manufacturer's authorised dealer.

DROPPER SEATPOSTS:

- Inspection of its operation before every ride.
- Inspection and full maintenance every 125 hours or once a year (whichever comes first) by the manufacturer's authorised dealer. See the OC2 dropper seatpost user manual for more details on its maintenance.

PIVOT POINTS ON FULL SUSPENSION FRAMES:

- Inspection of its operation before every ride.
- Disassembly of the frame and manual inspection of all bearings every 125 hours of use or once a year (whichever comes first). These times may be shorter, according to the conditions in which the bicycle is ridden. More demanding use of the bicycle or use in adverse weather or in mud requires the disassembly and inspection of the frame once every 75 hours of use or once every 6 months (whichever comes first). If a bearing does not turn smoothly or has excessive play, it must be replaced immediately.

GEAR CABLES AND HOUSING:

- Inspection of its operation before every ride.
- Replacement of gear cables every 6 months to 1 year depending on the conditions in which the bicycle is used.

BRAKES:

- Inspection of the operation and wear of the brake pads or shoes before each ride.
- Check the wear on disc brakes and the cables or hydraulic lines every 6 months to 1 year depending on the conditions in which the bicycle is used. Flush the hydraulic lines once a year.



Some of these checks and maintenance requirements go beyond the mechanical knowledge of most bicycle users. If you are not qualified to perform the necessary maintenance, always go to an Orbea dealer for the maintenance of your bicycle and its components. Failure to perform proper maintenance can result in malfunctions and accidents with serious consequences.

NOTICE

Incorrectly performed maintenance can damage the components, which are not covered by the guarantee.

SPARE PARTS

Always use original Orbea spare parts or those of the manufacturer of the component in question.



The use of non-original spare parts can cause damage resulting in breakdowns and accidents with severe consequences.



The installation of several of the parts shown in this technical manual is beyond the mechanical knowledge of most bicycle users. If you are not qualified to install these parts, always go to an Orbea dealer for your bicycle's maintenance. Failure to install spare parts properly can result in breakdowns, accidents and serious injuries.

NOTICE

The installation of non-original spare parts may cause damage to your bicycle that is not covered by the guarantee.

See the full Orbea spare parts catalogue on our web site:

www.orbea.com/us-en/gear/spare-parts/

AFTER AN IMPACT OR A CRASH

Falling off the bike is inherent to cycling. If you have an accident on your Orbea bicycle, make sure you are okay and seek medical attention if necessary. If you have not suffered any injuries, you should check the condition of your bike before continuing.

INSPECT THE FRAME AND THE BICYCLE COMPONENTS TO SEE IF THEY HAVE BEEN DAMAGED IN ANY WAY

If you detect any problem, do not continue to ride the bicycle.

POINTS TO CHECK

Inspect the frame and the fork to identify whether either of these components have been broken or bent. If you detect any damage or cracks, you must immediately stop using the bicycle. On carbon frames, look for cracks or soft spots in the carbon. If you detect any of these symptoms, you must immediately stop using the bicycle.



The materials used on carbon frames and forks are rigid and strong, but if overloaded or if they suffer an impact, the fibres do not bend, and they will break. A sufficiently strong impact on this material could result in damage that, although not visible at first glance, could lead to material failure in the future. If you have any doubts about the consequences of a fall or accident, contact your Orbea distributor for a correct diagnosis of the materials.

Check the drivetrain and the wheels to make sure that the components operate correctly. If you discover any damage to the components, stop using the bicycle immediately.

Even if you do not notice any damage, pay close attention to the sound of your bike when you ride it again. Breakage and other problems may cause unusual noises. If you notice any unusual noise, stop using your bicycle immediately and contact your Orbea dealer for a correct diagnosis of the problem.

TAKE YOUR ORBEA BICYCLE TO AN AUTHORISED DEALER FOR A PROFESSIONAL INSPECTION

Some of the consequences of a fall or accident can only be detected by completely disassembling the bicycle to check for cracks or other signs of deterioration.



A crash or impact can cause serious damage to your bicycle and its components, causing them to fail or wear out prematurely. Failures can occur suddenly and without warning, causing loss of control of the bicycle, serious injury or even death.

04 WARNINGS FOR USE OF OIZ HYDRO

MAXIMUM TYRE WIDTH

This technical manual specifies the maximum size of the tyres that can be fitted on the frame. Always follow these guidelines when installing tyres on your bicycle.

However, the real measurements of the tyre circumference and width may change from one manufacturer to another. When installing a tyre other than that originally mounted on your Orbea bicycle, check that there is at least 6 mm between the top and the sides of the tyre and any part of the frame or fork.

Also check the maximum and minimum tyre width that can be fitted on a given rim depending on its internal width. See the compatibility information in the rim or tyre manufacturer's documentation.

NOTICE Damage to the frame or components due to the use of a tyre that does not comply with these measurements is not covered by the guarantee.

MINIMUM SEATPOST INSERTION LENGTH

⚠ Always follow the minimum insertion given for the seatpost to be used on the frame. Failure to comply with these values can stress the materials beyond the range for which they were designed and cause breakages not covered by the guarantee, as well as accidents that can cause serious injuries.

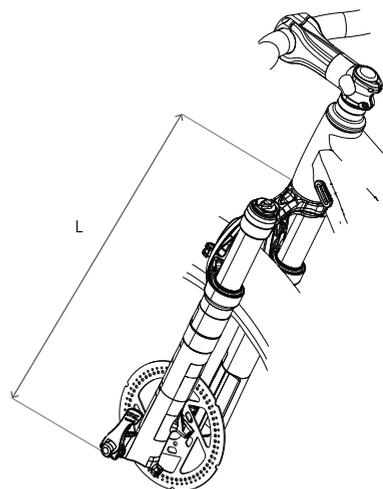
MAXIMUM NUMBER OF HEADSET SPACERS

⚠ Never use more headset spacers below the stem than are specified for the frame. See the specifications tables to find the maximum number of headset spacers that are acceptable for use on an Orbea frame. Installing more spacers than allowed can stress the materials beyond the range for which they were designed, which can cause accidents and serious injuries.

Also see the maximum number of headset spacers allowed above the stem in the specifications table.

MAXIMUM FORK LENGTH (AXLE-TO-CROWN)

Always follow the maximum fork length listed in the technical specifications section of this manual. The maximum fork length refers to the distance between the fork axle and the bottom part of the head tube (axle to crown).



Failure to follow this requirement and installing forks with a length greater than the maximum specified can force the frame beyond its design characteristics, possibly resulting in malfunctions of the material that could cause accidents and serious injuries.

INTENDED USE

The intended use of all models is ASTM Condition 3, which provides for use under conditions 1 and 2, in addition to technical and natural trails with bench cuts and jumps up to 61 cm.

Use on this terrain requires technical skills and can lead to injury for beginners.

For all ASTM categories, please refer to the user manual.



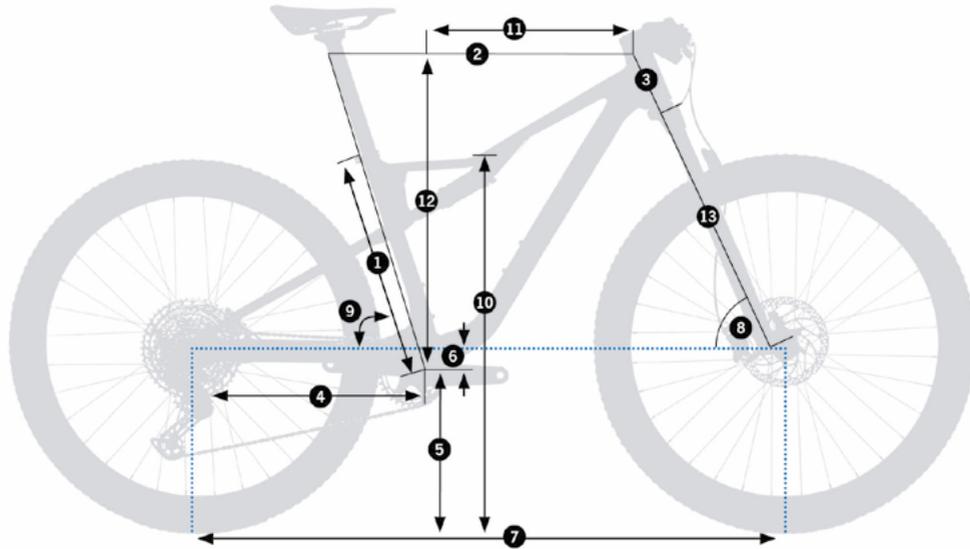


OIZ HYDRO

2023

05 GEOMETRY AND SIZING

QIZ HYDRO



SIZE	S	M	L	XL
1 - Seat tube (C-T)	410	432	460	510
2 - Top tube (EFF)	568	594	619	645
3 - Head tube	90	95	105	115
4 - Chainstay	436	436	436	436
5 - BB height	333	333	333	333
6 - BB drop	42	42	42	42
7 - Wheelbase	1142	1169	1195	1223
8 - Head angle	67°	67°	67°	67°
9 - Seat angle	76.5°	76.5°	76.5°	76.5°
10 - Standover	729	743	746	743
11 - Reach	425	450	472	496
12 - Stack	596	600	610	619
13 - Fork length	531	531	531	531
14 - Rake	44	44	44	44

HEIGHT (CM)	HEIGHT (IN)	SIZE*
155-170	61.1"-66.9"	S
165-180	65.0"-70.9"	M
178-190	70.1"-74.8"	L
185-198	72.8"-78.0"	XL

* The measurements on the sizing table are for guidance only. The best way to find the correct frame size for you is to try a bike at one of our authorised dealers.

MAXIMUM AND MINIMUM SEAT HEIGHTS WITH DROPPER SEATPOST

The following table gives the maximum and minimum seat heights with the dropper seatpost in the extended position for each frame size.

Maximum seat height refers to the height of the seat with the seatpost installed at its minimum insertion, defined by the seatpost.

Minimum height refers to the height of the seat with the seatpost installed at its maximum insertion, defined by the frame.

Maximum and minimum heights are only given for the dropper seatpost and saddle options assembled by Orbea for a specific frame. For these dimensions when using a different dropper seatpost, see the seatpost manufacturer's specifications and refer to the maximum frame insertion measurements in the technical specifications section of this manual.

NOTICE The dimensions in the following table define the distance between the centre of the bottom bracket shell and the middle of the upper part of the saddle (saddle models assembled by Orbea).

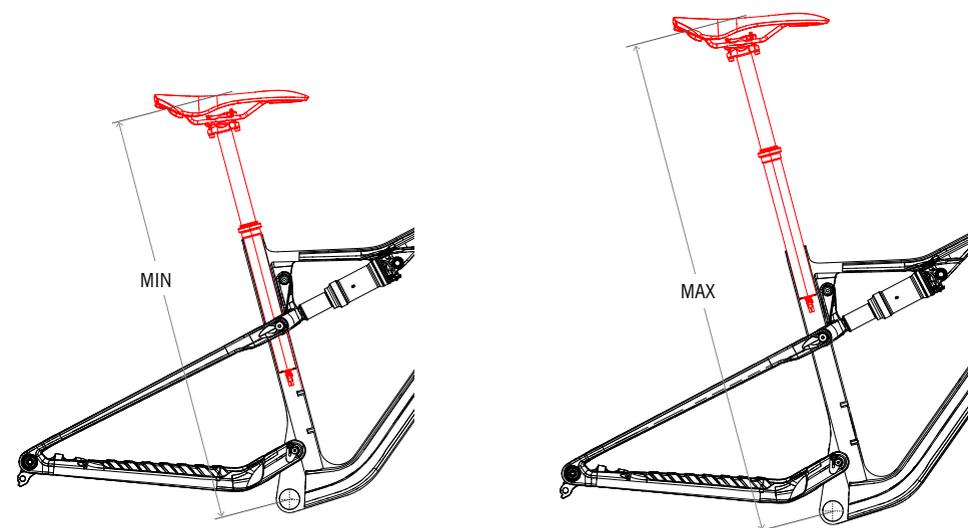
Different saddles on the market can change the dimensions given by +/- 5 mm depending on the height of the saddle model. If your seat height differs from a given dimension by less than 5 mm, it is possible to adjust this height by installing a different model of saddle available on the market.

If your seat height differs from the given dimensions by more than 5 mm, you should choose a longer or shorter travel dropper seatpost.

FRAME/SIZE

DROPPER SEATPOST MODEL	EXTENDED SADDLE HEIGHT	OIZ HYDRO (S)	OIZ HYDRO (M)	OIZ HYDRO (L)	OIZ HYDRO (XL)
OC MC20 31.6 125mm	Minimum height saddle extended	641 mm*	663 mm*	688 mm*	736 mm*
	Minimum height saddle extended	767 mm*	791 mm*	819 mm*	865 mm*
OC MC20 31.6 150mm	Minimum height saddle extended	662 mm*	687 mm*	715 mm*	761 mm*
	Minimum height saddle extended	817 mm*	841 mm*	867 mm*	914 mm*
OC MC20 31.6 170mm	Minimum height saddle extended	683 mm*	717 mm*	735 mm*	782 mm*
	Minimum height saddle extended	856 mm*	878 mm*	907 mm*	956 mm*

* The dimensions may vary by +/-5mm depending on the height of the saddle model.



06 TECHNICAL SPECIFICATIONS

OIZ HYDRO 2023 FRAME TECHNICAL SPECIFICATIONS

FRAME MATERIAL	
FRONT TRIANGLE	AL6061
SWINGARM	AL6061
LINKAGE	AL6061
RECOMMENDED USE	XC, Marathon. ASTM Condition 3
SIZES	S/M/L/XL
SUSPENSION DESIGN	Single Pivot with UFO2 flex-stay technology
COMPATIBLE FORKS	2023 Fox Push-to-Unlock Remote 2024 Forks with Push-to-Lock remote
FORK TRAVEL	120 mm
MAXIMUM FORK LENGTH (AXLE-TO-CROWN)	531 mm
FORK OFFSET	44 mm
REAR TRAVEL	120 mm
SHOCK	Fox DPS I-Line
	2023 Push-to Unlock (PTU) 2024 Push-to-lock (PTL)
SHOCK DIMENSIONS	190 x 45
SHOCK HARDWARE	
FRAME END	10 x 29.92 mm
LINKAGE END	10 x 22.2 mm
RECOMMENDED SAG	20%-25%
HEADSET	Orbea ICR HS02 SIC (Sealed Internal Cabling) without SpinBlock
	Top: 1-1/2 (with adaptor 1-1/2 to 1-1/8 for internal cabling)
HEADSET BEARINGS	Bottom: 1-1/2
HEADSET SPACERS	See Headset and Stem sections
STEM	See Headset and Stem sections
BOTTOM BRACKET STANDARD	BSA. Threaded
BOTTOM BRACKET SHELL WIDTH	73 mm
CHAINLINE	52 mm

WHEEL SIZE	29"
MAXIMUM REAR TYRE WIDTH	2.40"
MAXIMUM FRONT TYRE WIDTH	Depends on the fork (Fox 34 SC: 2.40") (Fox 34 Rhythm: 2.40")
REAR AXLE STANDARD	Boost 12 x 148
REAR AXLE MEASUREMENTS	12 x 171 mm
REAR AXLE THREAD PITCH	1.0
REAR AXLE THREAD LENGTH	13 mm
SEATPOST DIAMETER	31.6 mm
SEATPOST CLAMP	34.7 mm
MAXIMUM SEATPOST INSERTION	
S	260 mm
M	270 mm
L	270 mm
XL	280 mm
SEATPOST COMPATIBLE WITH INTERNAL CABLING	Yes
FRONT DERAILLEUR	No. Single chainring only
MAX SIZE. ROUND CHAINRING (52 mm chainline)	38T
MAXIMUM SIZE OVAL CHAINRING (52 mm chainline)	36T (Depends on the chainring model)
MINIMUM SIZE ROUND CHAINRING (52 mm chainline)	30T
MINIMUM SIZE OVAL CHAINRING (52 mm chainline)	32T (Depends on the chainring model)
BRAKE TYPE	Disc
REAR BRAKE CALIPER STANDARD	Post Mount*
FRONT BRAKE CALIPER STANDARD	Depends on the fork (Fox 34 SC: Post Mount) (Fox 34 Rhythm : Post Mount)
MAXIMUM REAR DISC SIZE	160 mm

OIZ HYDRO 2023 FRAME TECHNICAL SPECIFICATIONS

MINIMUM REAR DISC SIZE	160 mm
MAXIMUM FRONT DISC SIZE	Fox 34 SC: 180 mm Fox 34 Rhythm: 180 mm
MINIMUM FRONT DISC SIZE	Fox 34 SC: 160 mm Fox 34 Rhythm: 180 mm
CHAINGUIDE	Yes. Direct mount in swingarm
ICGS	No
	SIC (Sealed Internal Cabling)
CABLING	Rear derailleur and rear brake: Internal in headset, downtube and chainstays. Full housing.
	Front brake: External
	Dropper seatpost: Internal in headset, downtube and seat tube. Full housing.
	Shock remote: Internal in headset and top tube. Full housing.
COMPATIBLE REAR LEFT BRAKE CABLING	Yes. Rear brake enters the frame from the left side of the headset collector
BOTTLE HOLDER	1 in size S 2 in sizes M, L, XL
TRANSMISSION COMPATIBILITY	Shimano: 11S and 12S. MTB groupsets
	Sram: 11S and 12S. MTB groupsets
COMPATIBLE SHIMANO DI2	No
COMPATIBLE SRAM AXS	Yes
COMPATIBLE SRAM T-TYPE	No
POWERMETER COMPATIBILITY**	Quarq: Yes Rotor Power: Yes
TRAILER COMPATIBLE	No
REAR RACK COMPATIBLE	No
MUDGUARD COMPATIBLE	No
CHILD SEAT COMPATIBLE	No
MAXIMUM RECOMMENDED WEIGHT LIMIT (Rider + gear + luggage)	See the document Orbea Product Maximum Recommended Weights on our website

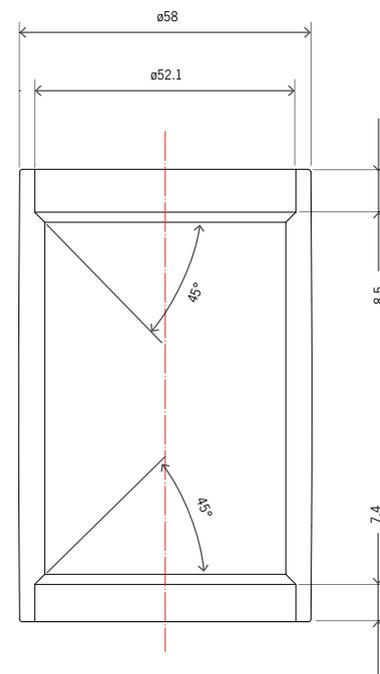
* Not all disc and caliper models on the market are compatible with the frames. All the Orbea specified fittings have been checked. For aftermarket fittings, check the dimensions and tolerances before purchase.

** For powermeters other than those listed, refer to the manufacturer's dimensions and mounting options.

COMPONENTS. EXPLODED VIEWS, ASSEMBLY, USE AND SPARE

07 HEADSET HS02

HEAD TUBE DIMENSIONS

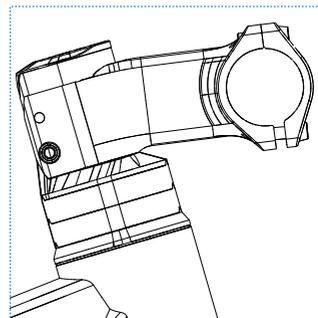
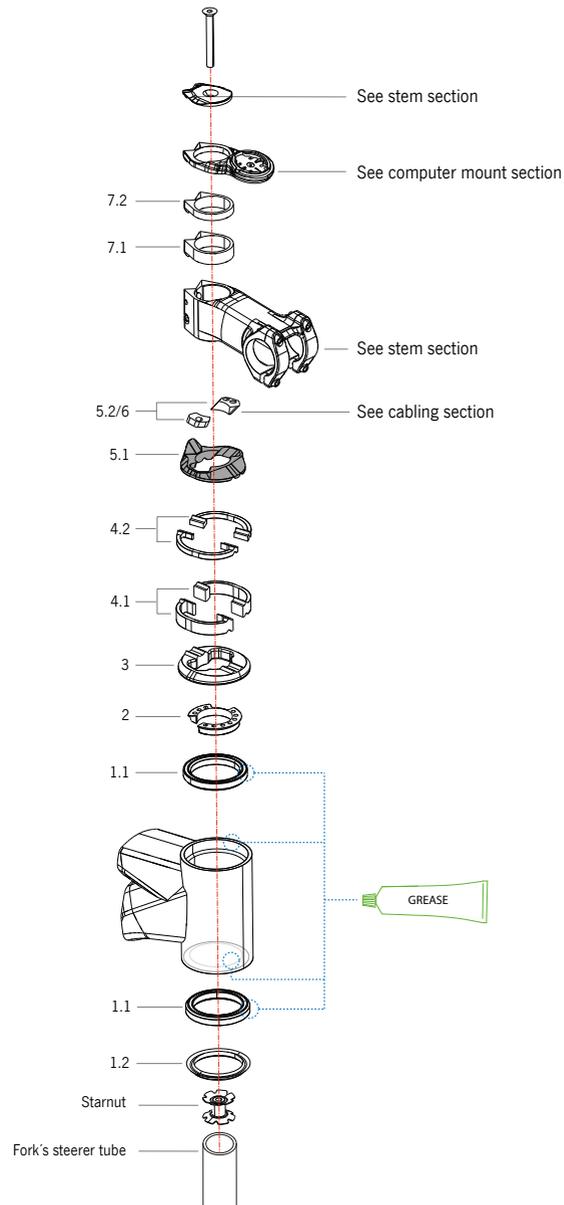


HS02 HEADSET SPECIFICATIONS

	TYPE	ID*	OD**	Headset race angle	Preload ring ring/fork crown race angle	SHIS CODE	Bearing code Enduro	Bearing dimensions
TOP	1-1/8" Integrated 1-1/2" bearing with SIC 1-1/8" adapter	52.1 mm	58 mm	45°	45°	IS52/40	ACB 4545 150 SS 40x52x7; 45x45°; 1.5" SS HS	Angular contact bearing 52 x 40 x 7 mm
BOTTOM	1-1/2" Integrated	52.1 mm	58 mm	45°	45°	IS52/40	ACB 4545 150 BO 40x52x7; 45x45°; 1.5" BO HS	Angular contact bearing 52 x 40 x 7 mm

* ID: Headset tube internal diameter. ** OD: Headset tube outer diameter.

HEADSET EXPLODED VIEW AND ASSEMBLY



SEE THE LIST OF COMPONENTS AT THE END OF THIS SECTION

OC HS02 STANDARD STEM AND HEADSET COMPONENTS

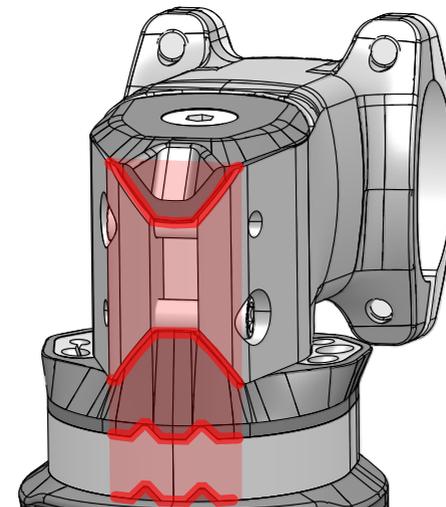
SPINBLOCK FUNCTION

NOTICE Oiz Hydro does not have a Spinblock function to limit the headset rotation, since the frame lacks the rotation stop for the headset cover present in frames with Spinblock function).

The Oiz Hydro HS02-14 (3) frame headset cover is specific to Oiz Hydro.

Oiz Hydro is compatible with the rest of the components with the HS02 headset standard with Spinblock function (headset spacers, collectors and stems), although there is no rotation limiting function for the headset assembly in Oiz Hydro.

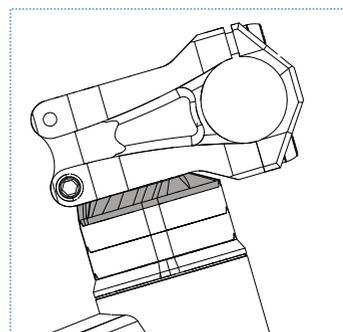
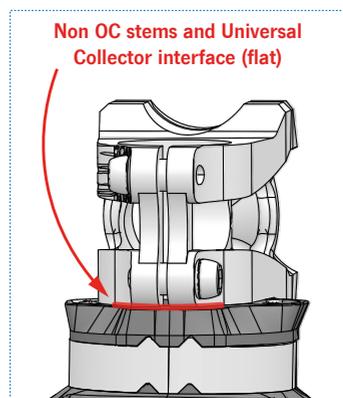
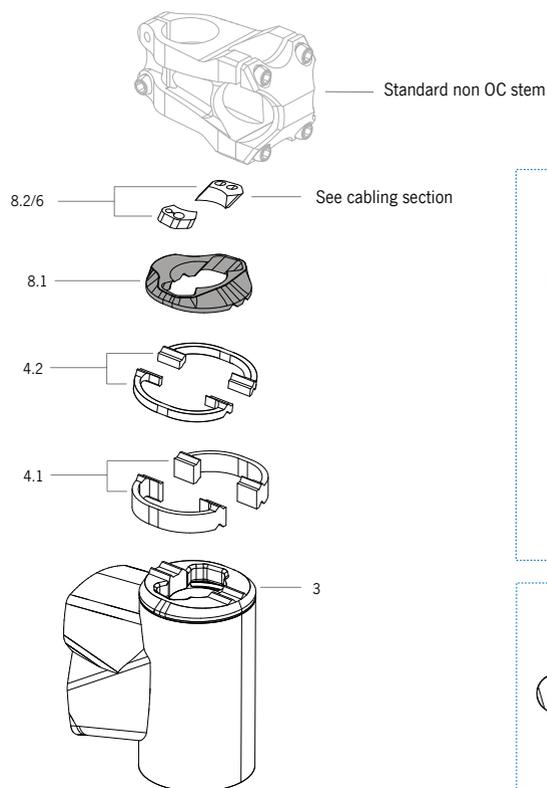
OC Spinblock compatible stems and Spinblock collector interface (No Spinblock function on Oiz Hydro)



USE OF STANDARD STEMS (NOT OC HSO2 STANDARD AND NO SPINBLOCK FUNCTION)

Non-specific stems not HSO2 standard compatible with the use of round headset spacers can be used on Oiz Hydro by replacing the SIC collector with the universal SIC collector (8.1).

NOTICE Orbea does not guarantee the compatibility of stems not specified in original Orbea assemblies. Check that the stem measurements to be used allow a correct assembly of all the components and that they allow the entry of the cables and housings through the SIC collector.



SEE THE LIST OF COMPONENTS AT THE END OF THIS SECTION

HEADSET COMPONENTS

01 ICR HSO2 HEADSET BEARINGS

PART NO.: XC50		QUANT.
	1.1 Headset bearing 1.5 (52 x 40 x 7 mm. 45°/45°)	2
	1.2 Fork crown race 1.5 45°	1

03 OIZ HSO2-14 58mm HEADSET COVER

Without spinblock function

PART NO.: XC89		QUANT.
	OIZ HSO2-14 58mm Headset cover Without spinblock function	1

05 HSO2-05 SIC SPINBLOCK COLLECTOR

Includes seal kit for all cabling options

PART NO.: XC56		QUANT.
	5.1 HSO2-05 SIC Collector Spinblock	1
	5.2 SIC L1 HSO2-42 seal. 4mm + 4mm blind	1
	5.3 SIC L2 HSO2-43 seal. 4mm + 4mm	1
	5.4 SIC L3 HSO2-44 seal. 4mm + 4mm + 3mm	1
	5.5 SIC R1 HSO2-45 seal. 5mm	1
	5.6 SIC R2 HSO2-46 seal. 4mm + 5mm	1
	5.7 SIC R2e HSO2-47 seal. 3mm + 5mm	1
	5.8 SIC R3 HSO2-48 seal. 4mm + 3mm + 3mm	1

07 SPINBLOCK ABOVE STEM SPACER KIT

PART NO.: XC58		QUANT.
	7.1 HSO2-08 10 mm Spinblock above stem spacer	2
	7.2 HSO2-07 5 mm Spinblock above stem spacer	2

02 ALUMINIUM PRELOAD RING 1-1/8 HSO2-01

PART NO.: XC51		QUANT.
	Aluminium preload ring 1-1/8 HSO2-01	1

04 HSO2 SPLIT HEADSET SPACER KIT

PART NO.: XC55		QUANT.
	4.1 HSO2-04 Split headset spacer 10 mm	3
	4.2 HSO2-03 Split headset spacer 5 mm	1

06 SIC COLLECTOR SEAL KIT HSO2

For all cabling options

PART NO.: XC57		QUANT.
	6.1 SIC L1 HSO2-42 seal. 4mm + 4mm blind	1
	6.2 SIC L2 HSO2-43 seal. 4mm + 4mm	1
	6.3 SIC L3 HSO2-44 seal. 4mm + 4mm + 3mm	1
	6.4 SIC R1 HSO2-45 seal. 5mm	1
	6.5 SIC R2 HSO2-46 seal. 4mm + 5mm	1
	6.6 SIC R2e HSO2-47 seal. 3mm + 5mm	1
	6.7 SIC R3 HSO2-48 seal. 4mm + 3mm + 3mm	1

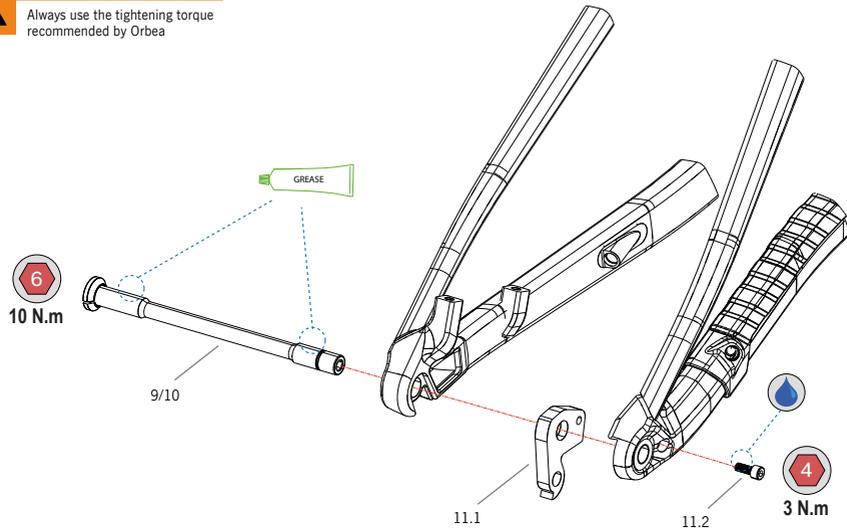
08 HSO2-06 UNIVERSAL NON-SPINBLOCK COLLECTOR. STANDARD STEM

Includes seal kit for all cabling options

PART NO.: XC60		QUANT.
	8.1 Oiz HSO2-06 SIC Universal collector No Spinblock	1
	8.2 SIC L1 HSO2-42 seal. 4mm + 4mm blind	1
	8.3 SIC L2 HSO2-43 seal. 4mm + 4mm	1
	8.4 SIC L3 HSO2-44 seal. 4mm + 4mm + 3mm	1
	8.5 SIC R1 HSO2-45 seal. 5mm	1
	8.6 SIC R2 HSO2-46 seal. 4mm + 5mm	1
	8.7 SIC R2e HSO2-47 seal. 3mm + 5mm	1
	8.8 SIC R3 HSO2-48 seal. 4mm + 3mm + 3mm	1

08 REAR AXLE AND DERAILLEUR HANGER

⚠ Always use the tightening torque recommended by Orbea



09 ORBEA REAR AXLE 12 x 171 (1.0 x 13) LITE

PART NO.:	QUANT.
X032	1



10 ORBEA REAR AXLE 12 x 171 (1.0 x 13) HOLLOW

PART NO.:	QUANT.
X041	1



11 DERAILLEUR N°36 X12 MTB STD M5x14

PART NO.:	QUANT.
11.1	1
11.2	1

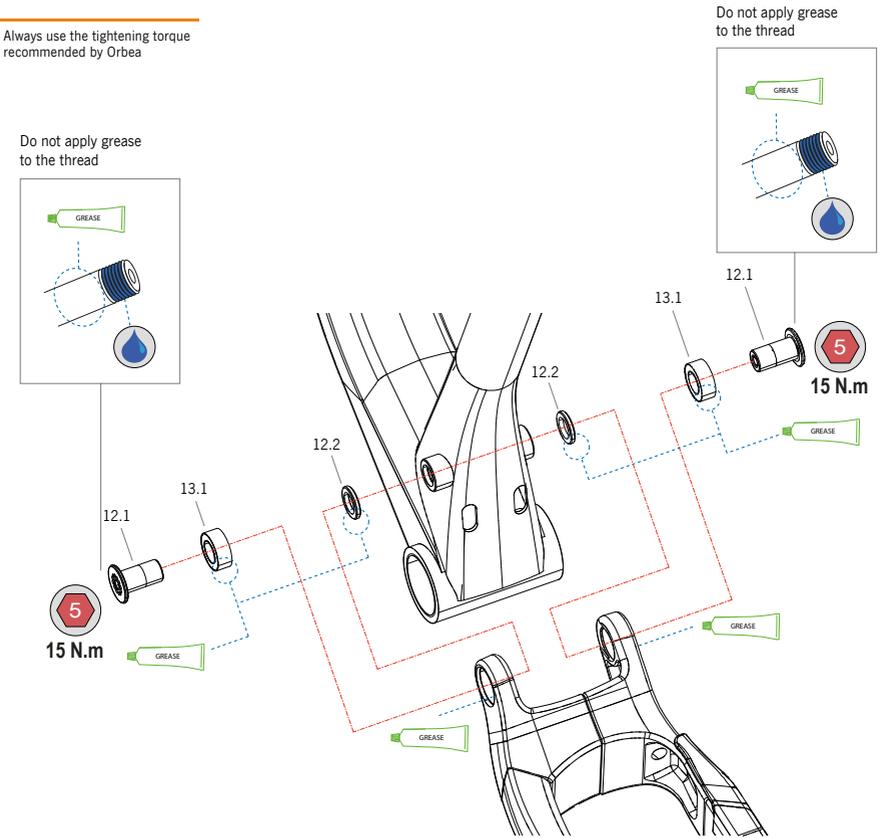


NOTICE The Hollow and Lite rear thru-axes are both compatible with Oiz OMR, OMX and Hydro frames, with the Lite axle being the lightest option used on OMX builds.

Oiz Hydro stock assemblies come equipped with the X041 Hollow axle

09 MAIN SWINGARM PIVOT POINT

⚠ Always use the tightening torque recommended by Orbea



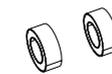
12 OIZ CARBON 23 MAIN PIVOT POINT HARDWARE KIT

PART NO.:	QUANT.
12.1	2
12.2	2

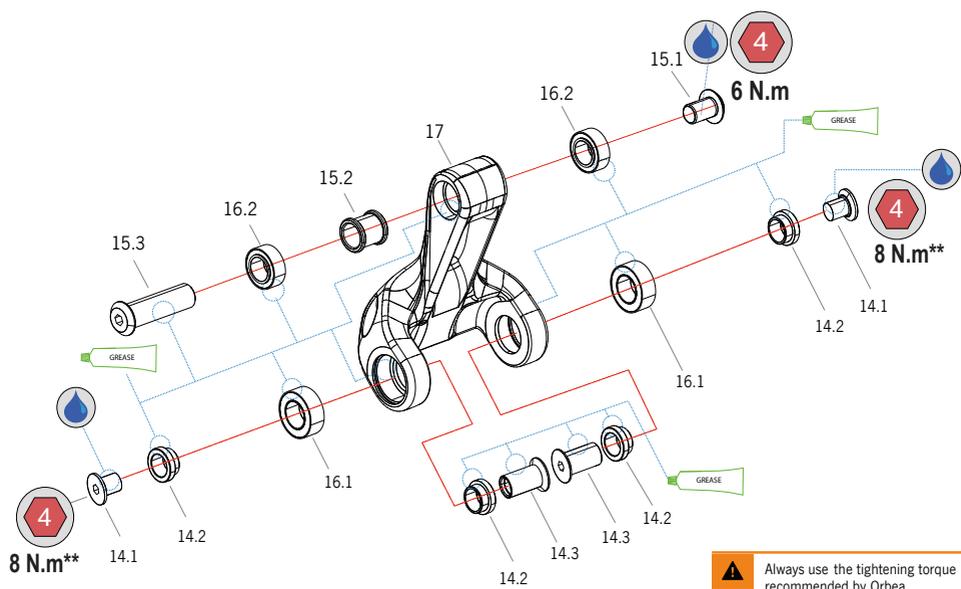


13 OIZ HYDRO 23 MAIN PIVOT POINT BEARING KIT

PART NO.:	QUANT.
13.1	1



10 LINKAGE



**Tighten to 5 N.m if the nut on the internal side of the seatstay does not show a torque indication. If the nut shows a torque indication, tighten according to instruction (8 N.m)

14 OIZ 23 LINKAGE-SEATSTAY HARDWARE KIT

PART NO.: XCG3	QUANT.
14.1 Oiz 23 linkage-seatstay bolt	2
14.2 Oiz 23 linkage-seatstay adapter	4
14.3 Oiz 23 linkage-seatstay nut	2

NOTICE The XC63 kit includes the linkage-seatstays pivot point circlips used on the 2023 Oiz Carbon. These circlips are not used on Oiz Hydro 2023 assemblies.

16 OIZ 23 LINKAGE BEARING KIT

PART NO.: XCG6	QUANT.
16.1 Enduro Double MAX 12 x 21 x 8 3801 bearing	2
16.2 Enduro Double Row 10 x 17 x 6/7 10177 2RS bearing	2

15 OIZ 23 LINKAGE-FRAME HARDWARE KIT

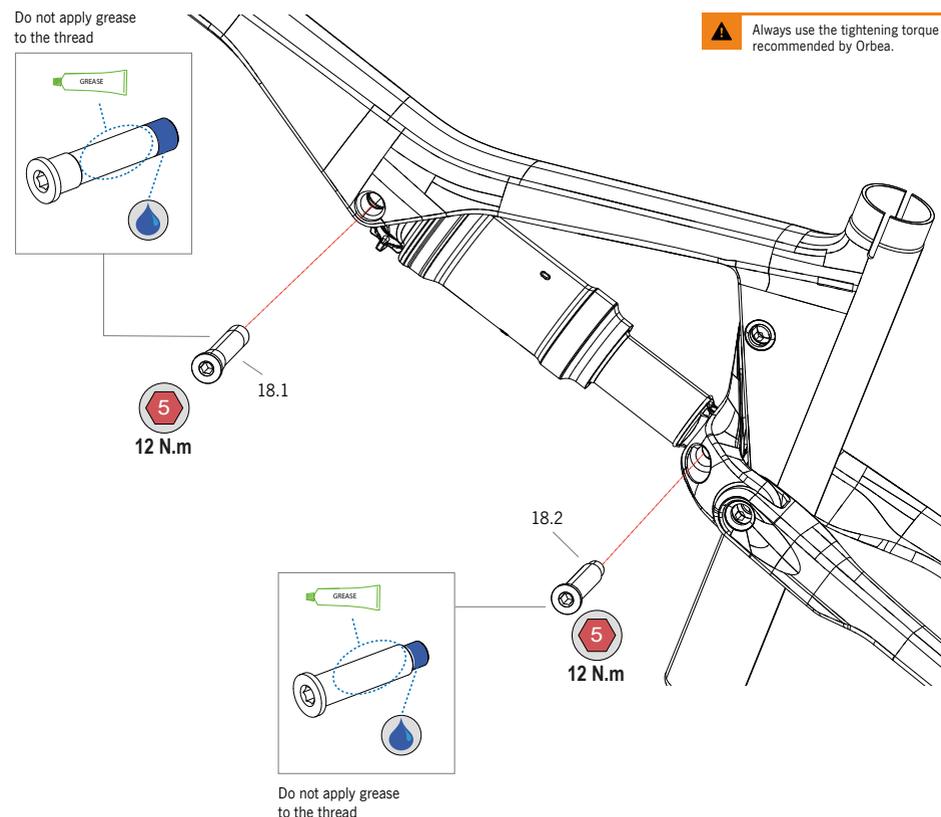
PART NO.: XCG5	QUANT.
15.1 Oiz 23 linkage-frame axle bolt	1
15.2 Oiz 23 linkage-frame bearing spacer	1
15.3 Oiz 23 linkage-frame axle	1

NOTICE The XC65 kit includes the linkage-frame pivot point washers used on Oiz Carbon 2023. These washers are not used on Oiz Hydro 2023 assemblies

17 OIZ HYDRO 23 LINKAGE

PART NO.: XCG4	QUANT.
17 Oiz Hydro 23 linkage. Aluminium	1

11 SHOCK MOUNTING



18 OIZ 23 SHOCK FIXING KIT

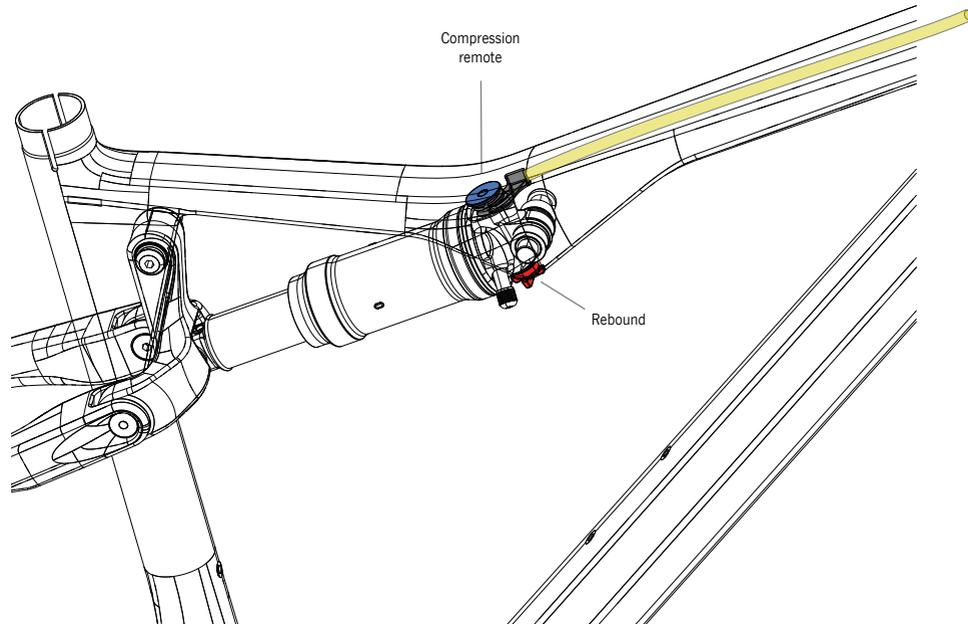
PART NO.: XCG8	QUANT.
18.1 Oiz 23 shock-frame bolt	1
18.2 Oiz 23 shock-linkage bolt	1

I-LINE SHOCK

For the cleanest way to route the remote shock cable through the frame, Oiz is only compatible with Fox DPS I-Line shocks, where the remote compression adjustment cable entry allows the cable to reach without bends through the downtube.

The rebound adjustment is positioned on the opposite side of the shock (compared to non-I-Line shocks) to allow rebound adjustment.

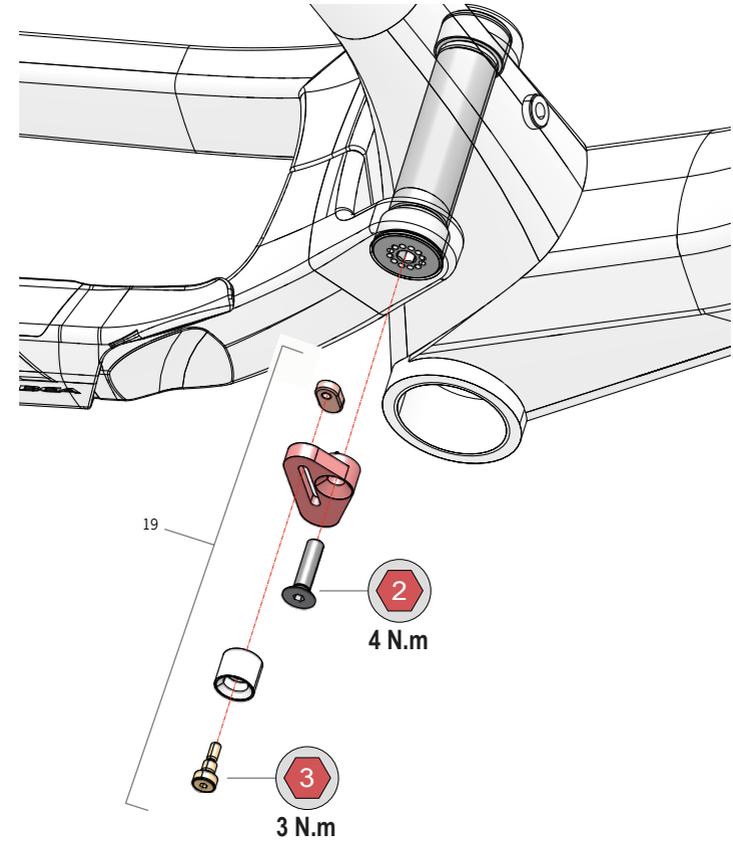
The DPS I-Line shock on Oiz 2023 models has different adjustment and frame mounting hardware than the DPS I-Line shocks on Oiz 2019-2022 mounts.



12 CHAINGUIDE

The Oiz Hydro chainguide is fixed to the internal thread of the pivot point right bolt of the swingarm.

Always use the tightening torque recommended by Orbea.



19 OIZ 23 CHAINGUIDE KIT

PART NO.: XCG9	QUANT.
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Oiz 23 chainguide kit

1



CHAINGUIDE ADJUSTMENT

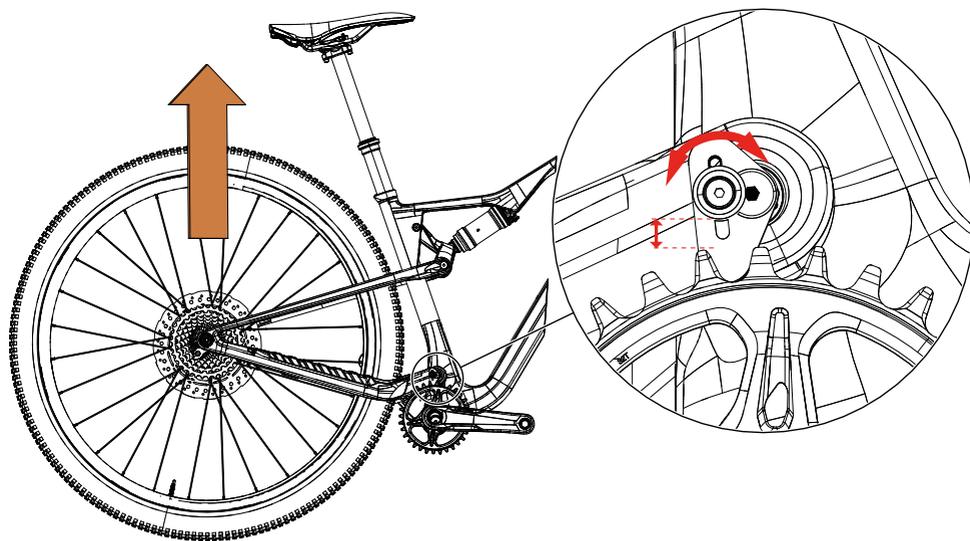
NOTICE For correct operation of the chainguide, it is necessary to adjust it with the swingarm in the maximum compression position to avoid contact between the chain and the chain-guide throughout the swingarm's travel.

Remove the shock valve cap and remove all the air from the shock.

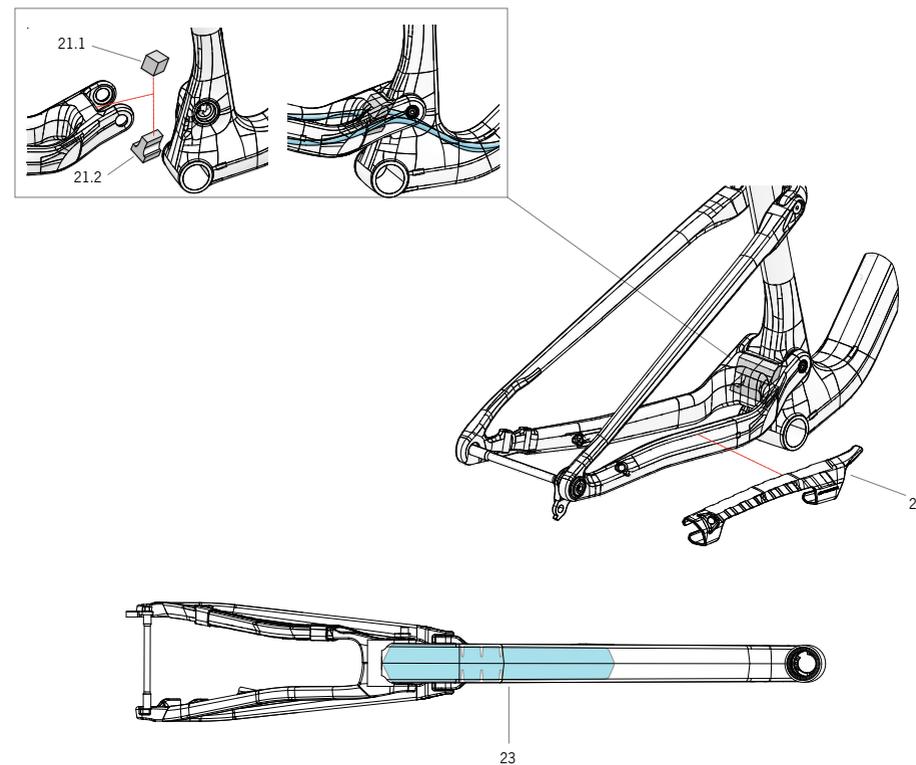
Compress the swingarm until the shock bottoms out.

Adjust the height and angle of the chain guide until there is a gap of 1.5-2 mm between the top of the chain and the bottom of the chainguide.

* The image below does not show a chain or rear derailleur. Chainguide adjustment must be done with the rear derailleur and chain installed and correctly adjusted beforehand.



13 FRAME PROTECTORS



20 OIZ HYDRO 23 CHAINSTAY RUBBER PROTECTOR

PART NO.:	XC92	QUANT.
	Oiz hydro 23 chainstay rubber protector	1

21 OIZ HYDRO 23* FOAM FRAME-SWINGARM PROTECTOR

PART NO.:	XC93	QUANT.
	21.1 Oiz Hydro 23 top frame-swingarm protector	1
	21.2 Oiz Hydro 23 bottom frame-swingarm protector	1

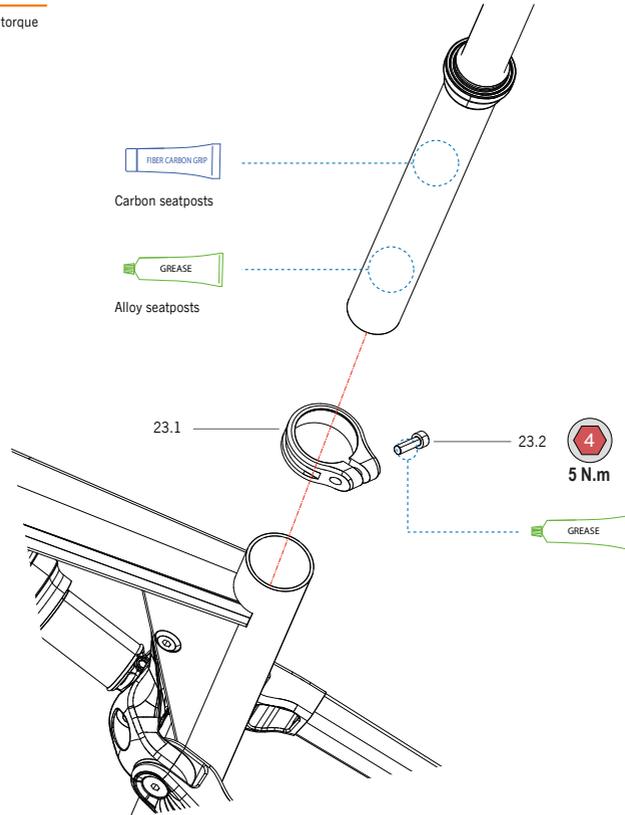
22 TRANSPARENT PROTECTOR OIZ HYDRO 20 DOWNTUBE

PART NO.:	X310	QUANT.
	Transparent protector Downtube Oiz Hydro 20	1

* The main pivot point of the frame swingarm needs to be removed to replace the foam protector. Both halves of the foam protector come with double-sided tape to stick them to the swingarm.

14 SEATPOST CLAMP

⚠ Always use the tightening torque recommended by Orbea.

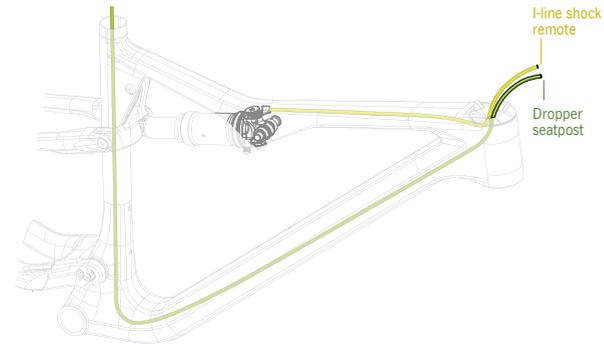


23 SEATPOST CLAMP 34.9 BLACK

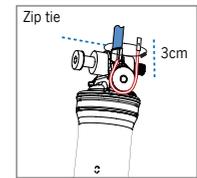
PART NO.:	X202	QUANT.
	23.1 Seatpost clamp 34.9 mm black	1
	23.2 Clamp bolt	1

15 CABLING

CABLE ROUTING OF THE SHOCK REMOTE THROUGH THE FRAME AND THE DROPPER SEATPOST

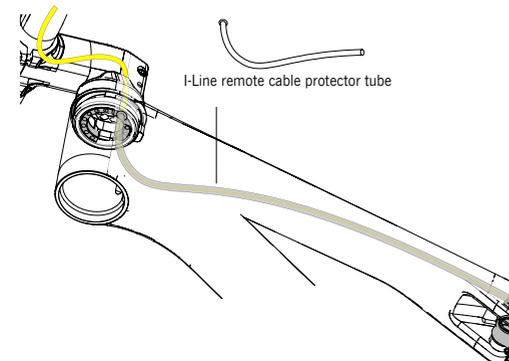


NOTICE The shock remote cable should be left with a minimum of 3 cm of excess and tucked into the horizontal tube parallel to the housing. Use a cable tie to hold the excess to the housing and prevent it from rubbing against the frame. Do not overtighten the cable tie to allow proper operation of the shock remote.



I-LINE SHOCK REMOTE CABLING TUBE

NOTICE The I-Line shock remote housing is protected by an additional tube that runs from the bottom of the headset compression ring to the remote housing on the shock.



The lipped end of the tube should be positioned against the headset compression ring. The length of the tube is specific to each frame size. If you must cut the tube to the specific size for your frame size, always cut from the shock end (without the lip).

FRAME SIZE	TUBE LENGTH
S	340mm
M	370mm
L	390mm
XL	420mm

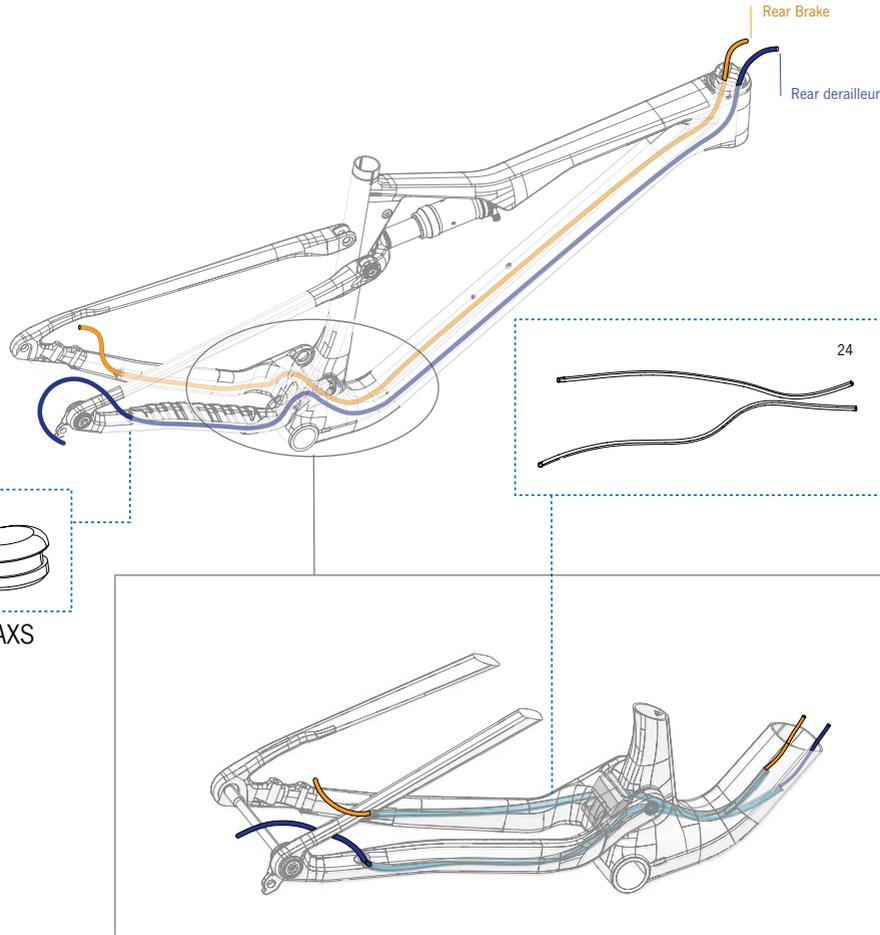
When installing the tube on a frame that did not originally have it installed, it may be necessary to replace the shock remote cable housing with a longer one to allow for proper steering operation.

A I-LINE SHOCK REMOTE TUBE

PART NO.:	XF69	QUANT.
A	I-Line shock remote tube	1



CABLE ROUTING OF THE REAR DERAILLEUR AND THE REAR BRAKE IN THE FRAME



24 ICR 23 SWINGARM CABLING TUBE KIT

PART NO.:	QUANT.
27 500 mm swingarm cabling tube	2



31z BLIND PLUG DIAM 6mm CHAINSTAY SRAM AXS

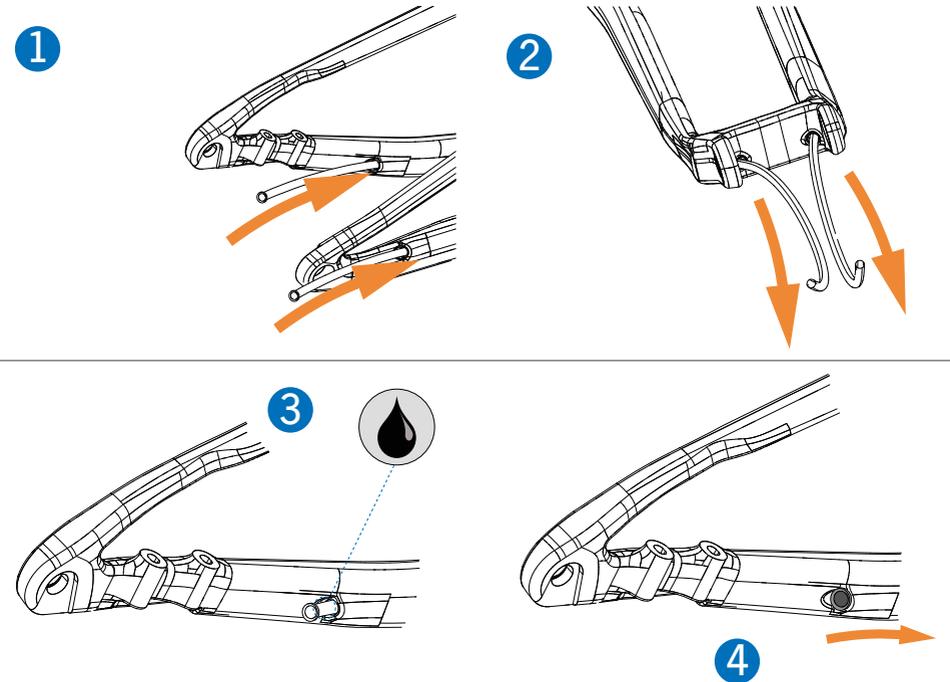
PART NO.:	QUANT.
37 Blind plug diam 6mm chainstay Sram AXS	2



FITTING THE CABLE PASS TUBES TO THE SWINGARM

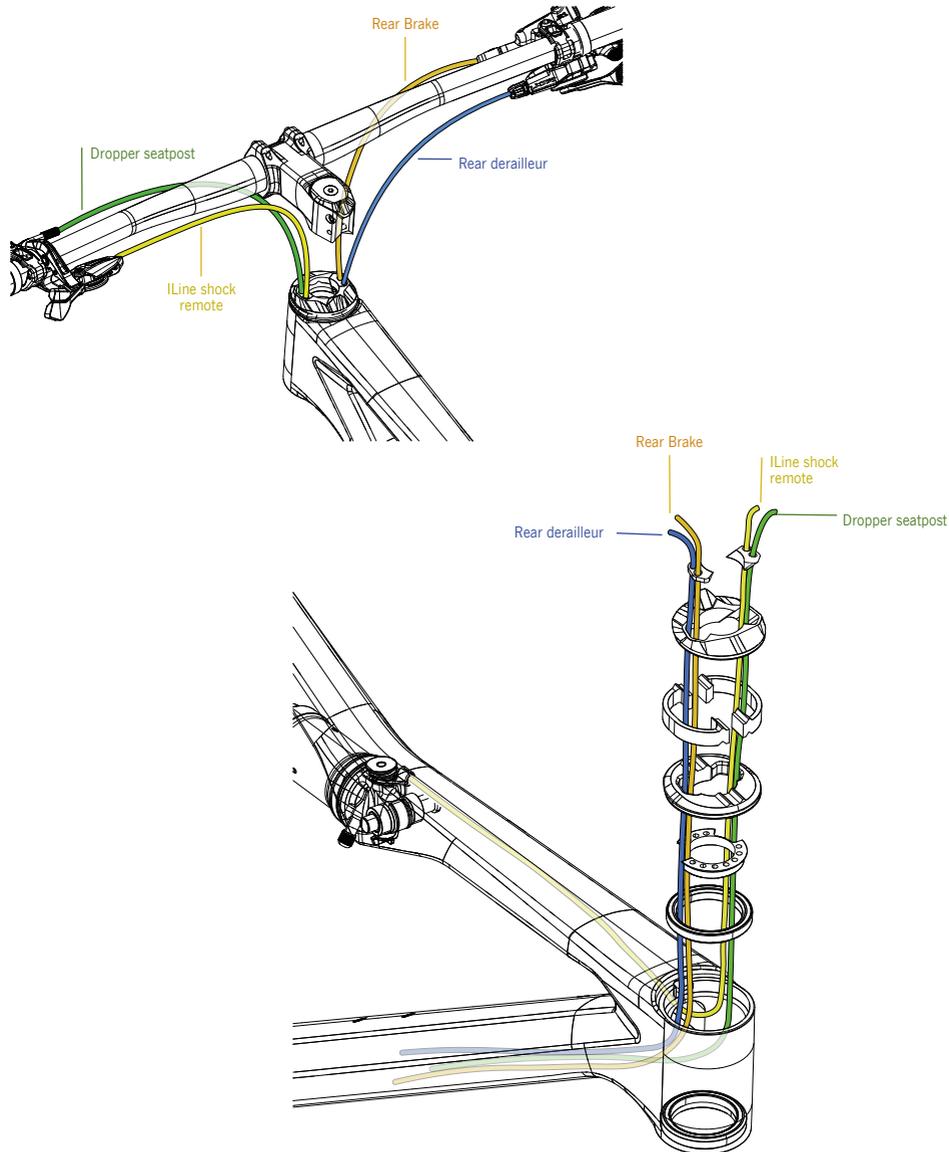
NOTICE The swingarm must be completely removed from the bike to install the Cable Pass tubes.

1. Insert the Cable Pass tubes from the rear of the swingarm. Insert the end of the un-flared end of the Cable Pass tubes into the swingarm hole. The Cable Pass tube on the right base (drive-side) must be installed with the right base protector pre-installed, as the end of the tube must be glued to the hole in the protector.
2. Guide the Cable Pass tubes to their corresponding outlet (same side) on the front of the swingarm.
Leave a small part of the tube not inserted into the swingarm.



3. Apply a small amount of mild two-part or instant adhesive to the part of the tube that will contact the hole in the swingarm (or the hole in the right base protector). Orbea recommends the use of Araldite 2022-1.
4. Pull the Cable Pass tubes from the front of the swingarm until the tube is seated correctly and makes contact with the outer wall of the hole in the swingarm (or the hole in the right base protector). Immediately wipe off any excess adhesive on the swingarm and right base protector with isopropyl alcohol. Allow it to set according to the adhesive manufacturer's instructions.

CABLING THROUGH SIC HS02 HEADSET

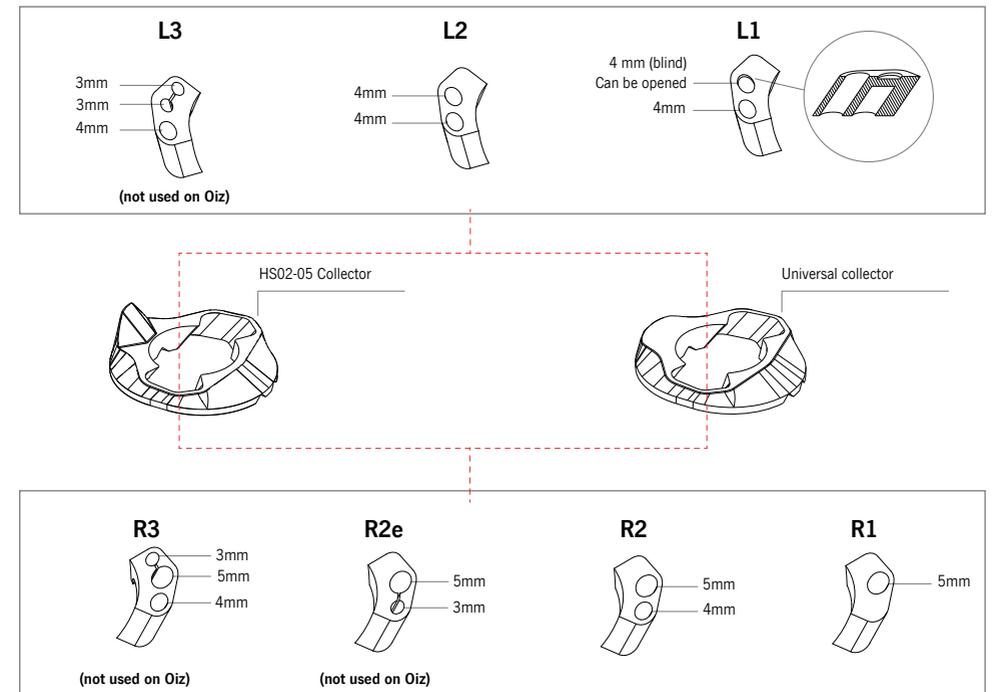


SIC SEALS FOR HS02 HEADSET COLLECTOR (CABLING OPTIONS)

There are different SIC rubber grommets depending on the mounting on each Oiz model to cover all cabling options.

The seals are the same for the two types of HS02 headset (stock collector and universal collector for stems without Spinblock function).

See the steering section of this manual for part and mounting codes for all components of the HS02 headset.



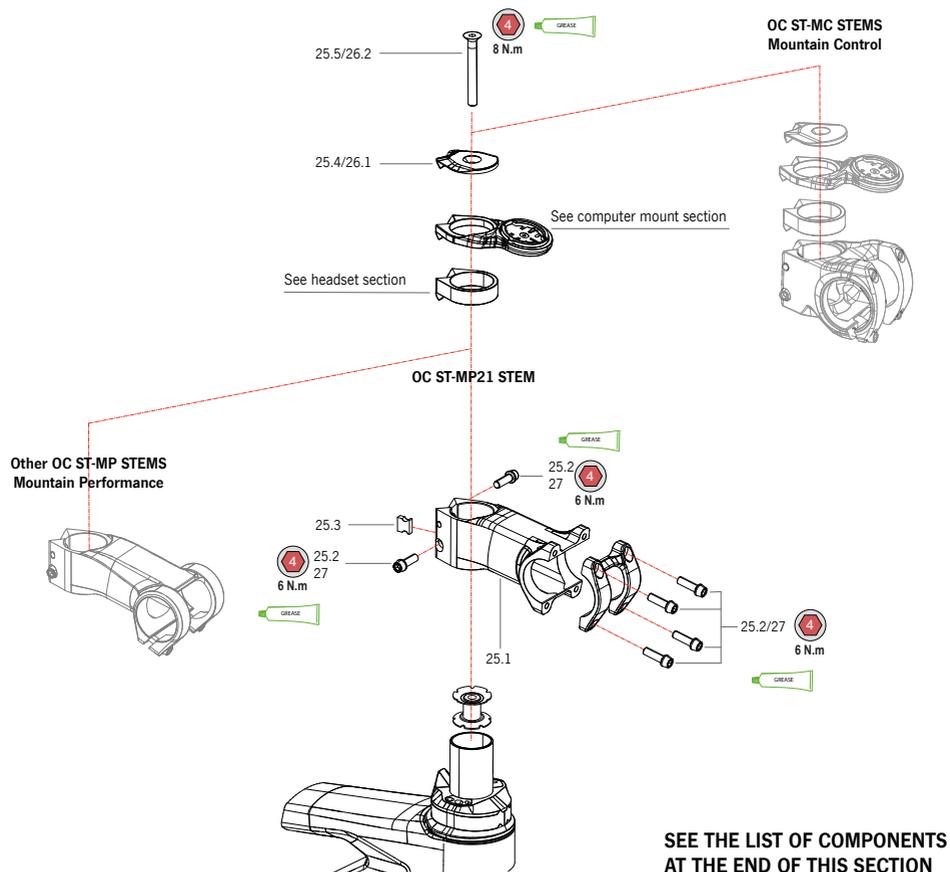
16 OC STEM

EXPLODED VIEW AND ASSEMBLY OF THE OC ST-MP21 STEM

NOTICE COMPATIBILITY WITH OTHER OC HS02 STEMS

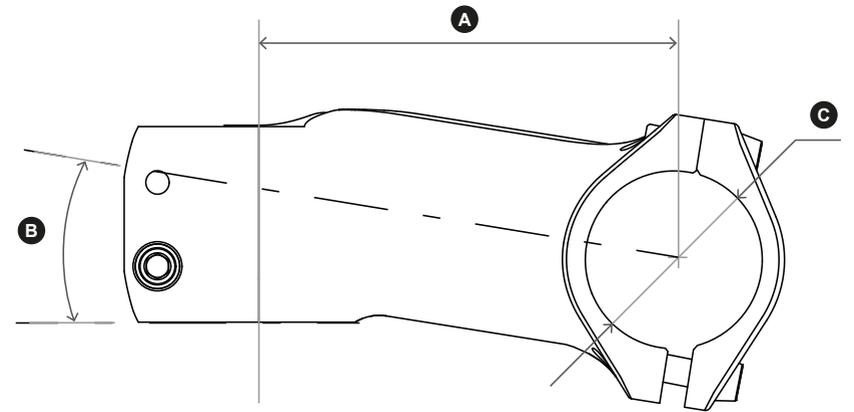
Oiz Hydro 2023 is compatible with other OC Mountain Performance stems (e.g.: ST-MP10) and OC Mountain Control stems, both ranges with HS-02 mounting profile compatible with Spinblock function.

If mounting OC stems from the Mountain Control range, the stem cover must be replaced with the Mountain Control stem cover.



SEE THE LIST OF COMPONENTS AT THE END OF THIS SECTION

OC ST-MP21 STEM



OC RANGE	Mountain Performance
MATERIAL	CNC Aluminium
Ø FORK	1 1/8"
Ø HANDLEBAR (C)	31.8 mm
MOUNTING HEIGHT IN FORK TUBE	32 mm
ANGLE (B)	-6°
AVAILABLE LENGTHS (A)	60 mm - 75 mm - 90 mm
INTERNAL CABLING	No
SPINBLOCK FUNCTION	Yes
SIC COMPATIBLE	Yes
STANDARD HEADSET COMPATIBLE	Orbea HS02
WEIGHT	155 g (75 mm)
STEM COVER	HS02-30 Top cover. ST-MP10/21
STEM TOP SPACERS	HS02-08 10/5 mm Spinblock stem top spacer
STEM BOTTOM SPACERS	HS02-04/03 10/5 mm split headset spacer
	Beneath SIC HS02 headset collector
COMPUTER MOUNT (Optional)	OC CM-04 MP HS02. On stem. 5 mm ISS02 interface

25 OC ST-MP21 STEM

PART NO.: XA99	QUANT.
25.1 OC ST-MP21 Stem (60 mm - 75 mm - 90 mm)	1
25.2 M5x15 R8 Tapered bolt. CrMo	6
25.3 Steerer clamp limit ST-MP21-11. 15 mm x 4.25 mm	1
25.4 HS02-30 Top cover. ST-MP10/21	1
25.5 M6x50 DIN 7991 bolt	1



27 OC STEM BOLT KIT

PART NO.: XC78	QUANT.
27 M5x15 R8 Tapered bolt. CrMo	6



Compatible with all
OC stems except ST-RP21

26 ST-MP10/21 TOP COVER. HS02-30

PART NO.: XC77	QUANT.
26.1 HS02-30 Top cover. ST-MP10/21	1
26.2 M6x50 DIN 7991 bolt	1

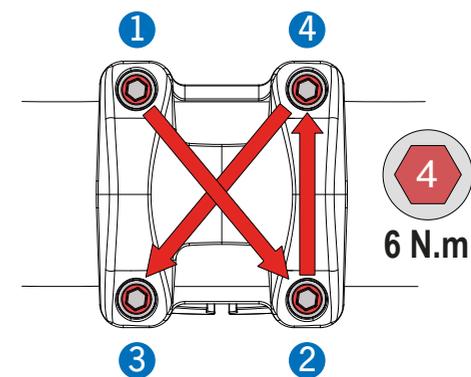
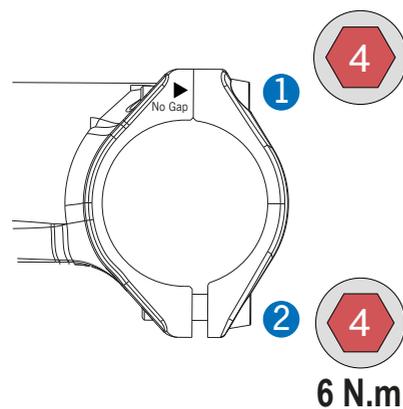


METHOD FOR FIXING THE FACEPLATE OF THE STEM ON "NO GAP" MTB STEMS

On stems marked "No Gap" the fastening point bolts marked "No Gap" must first be tightened until the faceplate and stem body make contact.

Then tighten the set screws to the final torque given for the model.

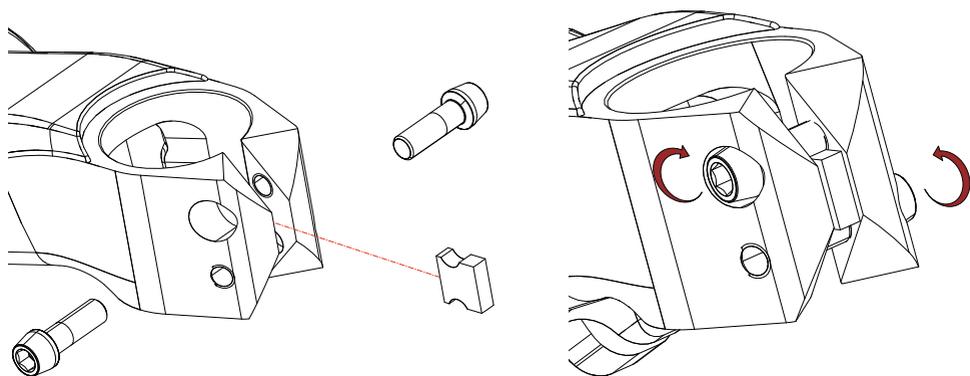
Check the tightening torque of the 4 faceplate screws in a cross pattern.



USE OF THE TORQUE STOP OF THE STEM TO THE FORK TUBE

The OC Mountain Performance and Mountain Control stems compatible with the Spinblock function have a stop in the area where the stem is attached to the fork's steerer tube to ensure that the recommended torque is not exceeded.

The torque stop is specific to each stem model, and is installed on the stem.



If it is necessary to reinstall the torque stop on the stem, it is necessary to remove the bolts from the clamp area of the stem to the fork to install the torque stop and then reinstall the stem bolts.

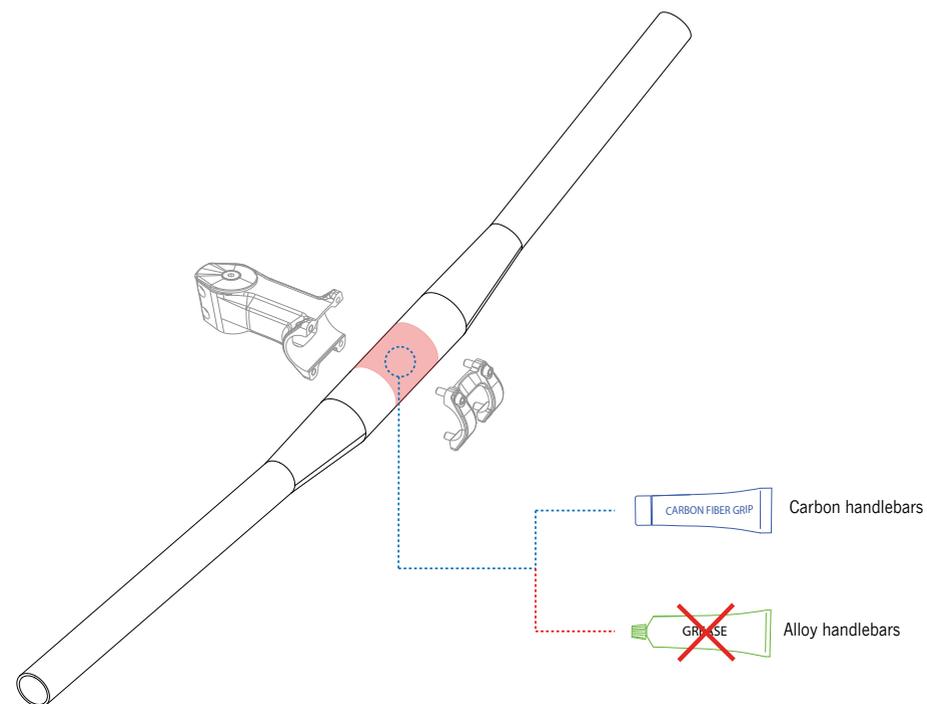
The torque stop is not essential for the use of OC stems. If the torque stop is not installed, be sure to follow the stem bolt torque directions for each OC stem model.

ASSEMBLY COMPOUNDS FOR HANDLEBARS

On carbon handlebars, apply a light coating of carbon rubbing compound to the handlebar-to-stem mounting surface.

For aluminium handlebars with aluminium stems, do not apply any mounting compound to the clamping area of the handlebar.

If you are going to use a carbon stem, whether the handlebar is aluminium or carbon, apply a light coating of carbon rubbing compound to the mounting surface of the handlebar to the stem.



17 CYCLING COMPUTER MOUNTS

The OC CM-04 and OC CM-05 computer mounts are specific for each OC stem category.

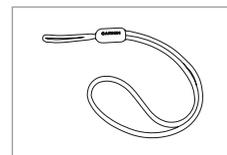
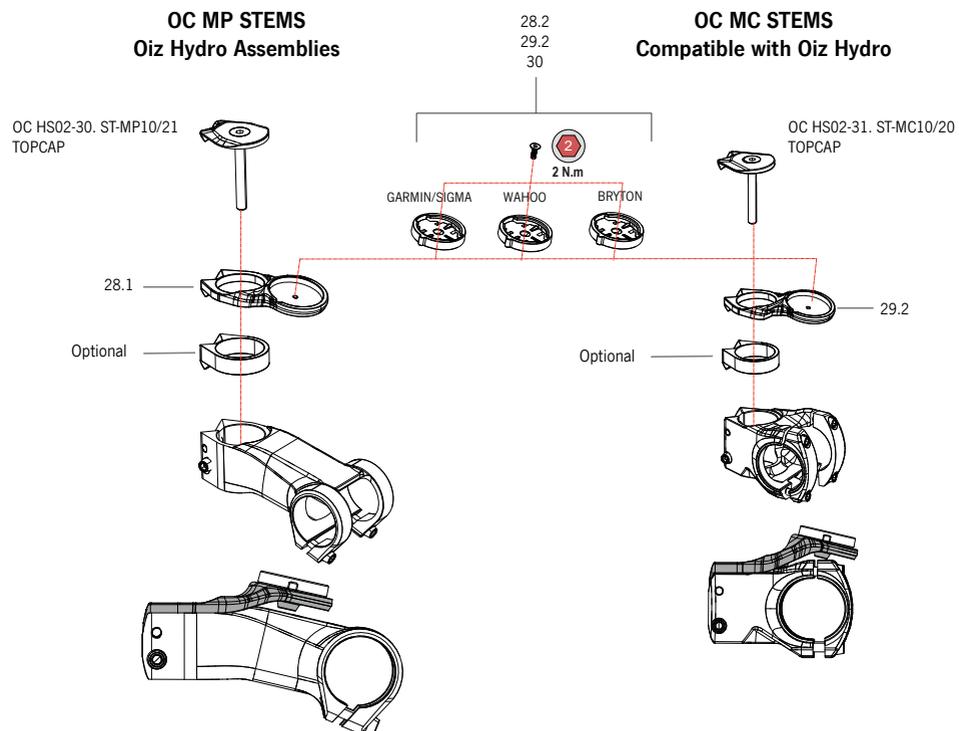
The CM-04 mount is designed for use with OC ST-MP (Mountain Performance) stems mounted as standard on Oiz Hydro 2023.

The CM-05 mount is designed for use with OC ST-MC (Mountain Control) stems compatible with Oiz Hydro 2023.

The adapters for the different models of cycling computers (Garmin/Sigma, Wahoo and Bryton) are compatible with both mounts (CM-04 and CM-05).

The CM-04 and CM-05 mounts are only compatible with HS02 standard OC stems compatible with Spinblock function.

Oiz mounts that include OC cycling computer mounts only include the adapter for Garmin/Sigma units. If you want to use a device from another brand, you will need to purchase the Garmin/Sigma, Wahoo, Bryton CT-02 adapter kit.



NOTICE Orbea reminds you of the GPS unit manufacturers' recommendation of the manufacturers to use the safety cord supplied with the cycling computers around the handlebars or the stem to avoid damage to the unit or its loss in the event of an accident or fall.

28 OC CM-04 COMPUTER MOUNT

For OC ST-MP (Mountain Performance) stems as standard on Oiz Hydro

PART NO.: XC80	QUANT.
28.1 OC CM-04 cycling computer mount body	1
28.2 CT-02 Adapter kit for Garmin/Sigma, Wahoo, Bryton	1
28.3 M3x8 DIN 7991 bolt	1

29 OC CM-05 COMPUTER MOUNT

For OC ST-MC (Mountain Control) OC stems compatible with Oiz Hydro

PART NO.: XC81	QUANT.
29.1 OC CM-05 cycling computer mount body	1
29.2 CT-02 Adapter kit for Garmin/Sigma, Wahoo, Bryton	1
29.3 M3x8 DIN 7991 bolt	1

30 CT-02 ADAPTER KIT

For Garmin/Sigma, Wahoo, Bryton
Compatible with CM-04 and CM-05 mounts

PART NO.: XC86	QUANT.
30.1 Adapter kit for Garmin/Sigma, Wahoo, Bryton	1
30.2 M3x8 DIN 7991 bolt	1

18 OC SH-MP10 INTEGRATED COCKPIT

Click on the link below to access the user and technical manual for the OC SH-MP10 integrated cockpit:

<https://orbea.dash.app/browse/all/609cb858-0553-481c-9615-0899fd12e0d4?portal=orbea-manuals>

19 OC RL-MP20 SQUIDLOCK. SHOCK, FORK & DROPPER SEATPOST REMOTE

See the complete manual for the OC Squidlock remote in the manuals section of our website.

TECHNICAL SPECIFICATIONS

MATERIAL	
BODY	Aluminium
LEVERS	Aluminium
SEATPOST REMOTE	Aluminium
COMPATIBLE FORKS	Forks and shocks with 3 position remote compression cartridge. Both the fork and shock must have the same lockout logic (Push-to Lock -PTL- or Push-to-Unlock -PTU).
COMPATIBLE SHOCKS	
SETTINGS FOR THE SUSPENSIONS REMOTE	3*
CLAMP DIAMETER	22.2 mm
CABLE TENSION ADJUSTMENT	Integrated

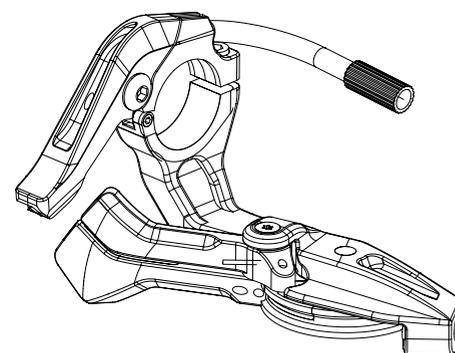
* The SQUIDLOCK allows you to get the most out of your FOX DPS shocks, which allow you to choose between 3 settings –Open, Medium, and Firm— allowing the bike to adapt to any type of terrain. With the SQUIDLOCK you will unlock that intermediate setting, taking full advantage of FOX's DPS technology. At the same time, it allows access to an intermediate setting on the compression adjustment of FOX forks with GRIP cartridge (Performance Series).

FOX forks with FIT4 cartridge (Factory Series) will still have two positions (Firm and Open), but you will have the compression adjustment of the Open position, through the black dial on the right leg.

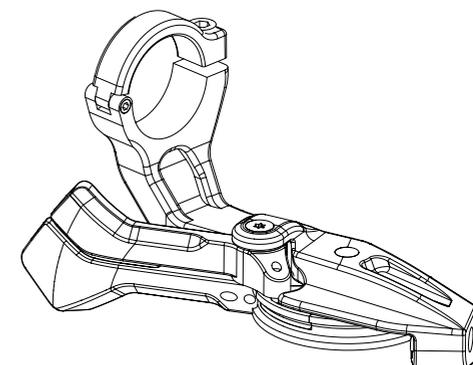
If the description of your FOX fork with FIT4 (Factory Series) cartridge contains the following specification: 2Pos, this means that the SQUIDLOCK in its intermediate position will act so that the suspension will remain Open, thus maintaining only two positions on the fork, but also having the compression adjustment of the Open position, through the black dial on the right leg.

MOUNTING OPTIONS

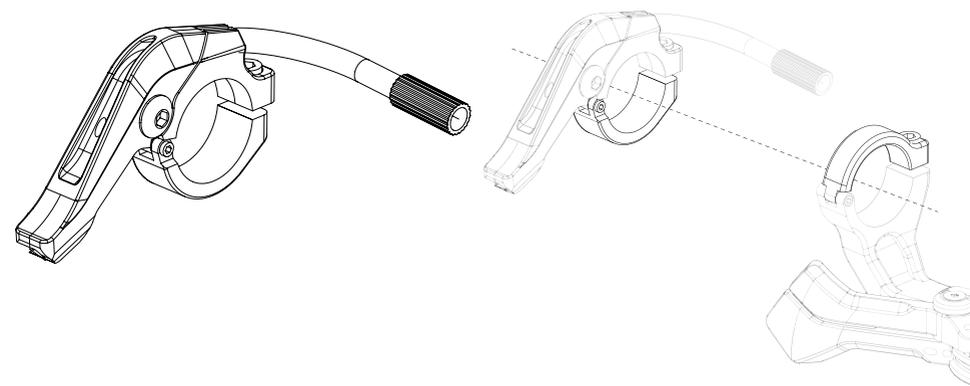
01. FORK + SHOCK + DROPPER SEATPOST REMOTE



02. FORK + SHOCK REMOTE

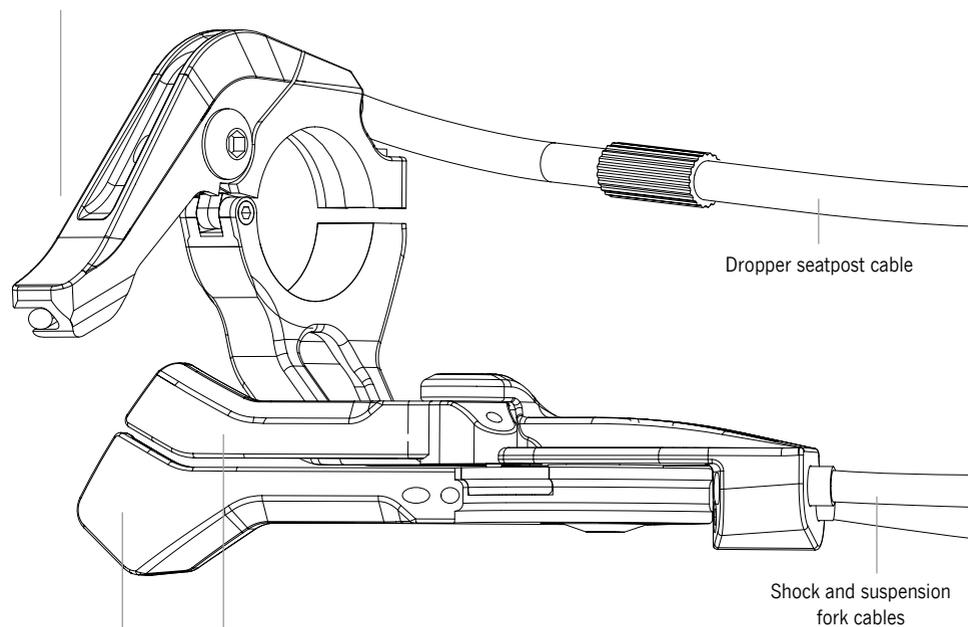


03. DROPPER SEATPOST REMOTE



OPERATION

Activation control on dropper seatpost



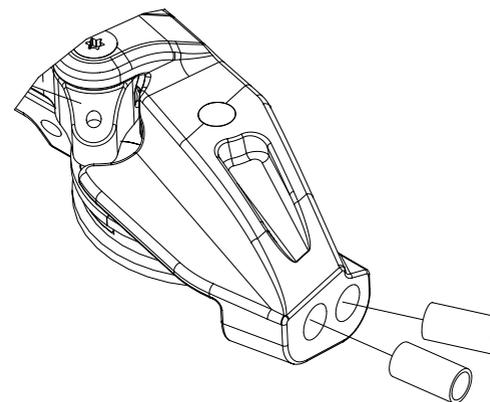
Activation of shock + fork unblocking (3 settings)

Blocked

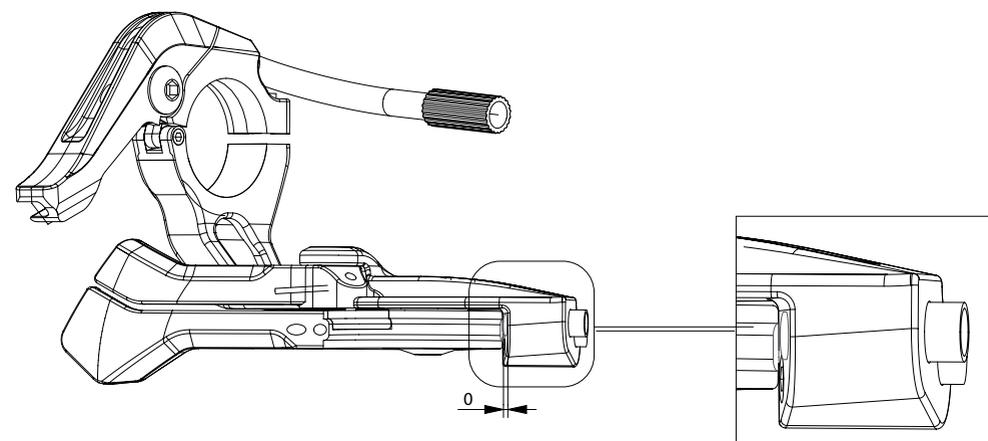
MOUNTING AND ADJUSTING THE CABLE TENSION

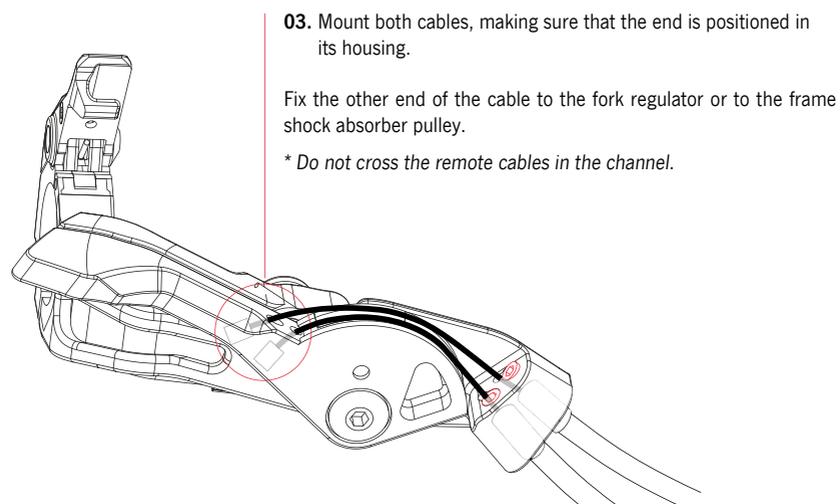
FIXING AND ADJUSTING THE CABLE TENSION OF THE FORK AND SHOCK REMOTE

01. Install the 4mm metal Jagwire housing stops on the shock and fork cable housings.

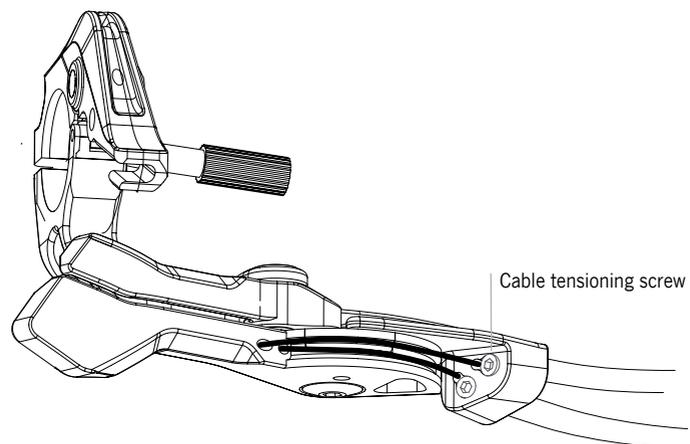


02. Start by setting the tensioning bolts flush.

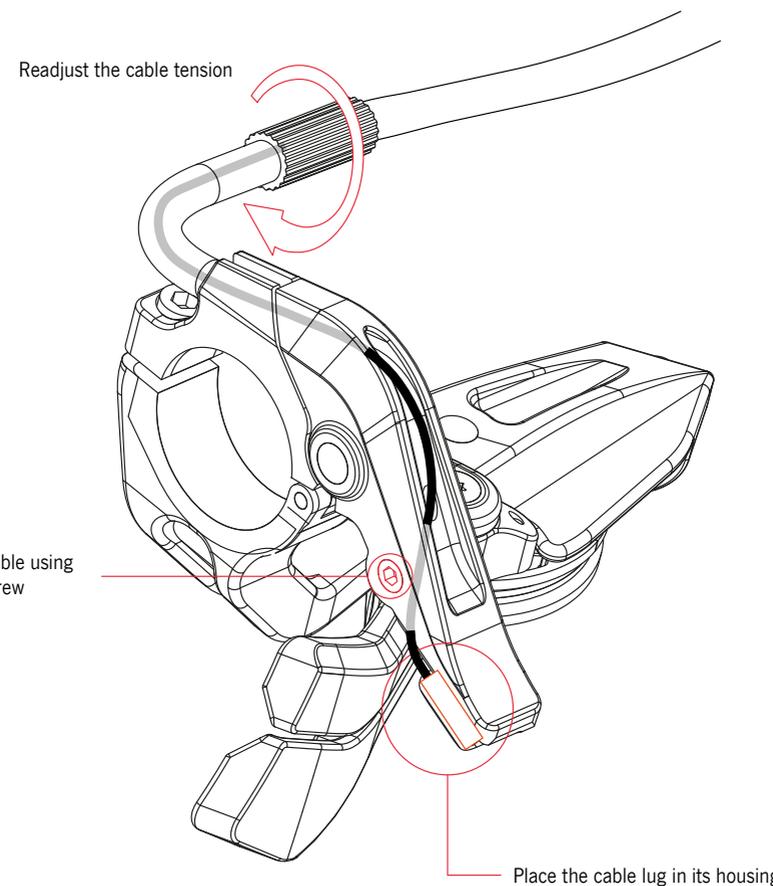




04. Adjust later using the cable tensioning screws.



FIXING AND ADJUSTING THE TENSION IN THE SEATPOST REMOTE CABLE



20 OC RL-MP11 SQUIDLOCK SUSPENSION REMOTE LOCKOUT

Click on the link below to access the user and technical manual for the OC RL-MP11 Squidlock remote suspension lockout:

<https://orbea.dash.app/browse/all/dc19e071-11e5-4c27-b8aa-baac2f02c2b6?portal=orbea-manuals>

21 SUSPENSION ADJUSTMENT

FOX DPS I-LINE SHOCK

FOX DPS I-LINE OIZ 2023 SHOCK SPECIFICATIONS

FOX DPS PERFORMANCE I-LINE 190X45 PTU 2023, FLOAT DPS, P-Se, A, Remote up, Evol SV, PTU, Rebound Reverse, Orbea, Oiz, 190, 45, BBC001, LRM, CMF

FOX DPS FACTORY I-LINE 190x45 PTU 2023, FLOAT DPS, F-S, K, Remote Up, Evol SV, PTU, Rebound Reverse, Orbea, Oiz, 190, 45, BBC001, LRM, CMF

FOX DPS I-LINE OIZ 2024- SHOCK SPECIFICATIONS

FOX DPS FACTORY I-LINE 190X45 PTL 2024, FLOAT SL, F-S, K, Remote Up, Evol SV, PTL, Rebound Reverse, Orbea, Oiz, 190, 45, BC002, RF, CMF

FOX DPS PERFORMANCE I-LINE 190X45 PTL 2024, FLOAT SL, P-Se, A, Remote up, Evol SV, PTL, Rebound Reverse, Orbea, Oiz, 190, 45, BC002, RF, CMF

RECOMMENDED SHOCK PRESSURES

120 mm (190 x 45)

Rider weight (kg)	Air pressure (psi)	Rebound clicks (from open)
60	141	1
65	153	2
70	165	3
75	176	4
80	188	5
85	200	6
90	211	7
95	223	8
100	235	9

These pressures are approximate, they may vary depending on riding style and terrain conditions.

Orbea and Fox recommend adjusting the pressure of the shock until you reach the target SAG. 20% SAG will give you a firm feel with more support, while 25% SAG will give you a softer ride.

Once you've reached your desired sag, adjust the rebound according to the air pressure in the shock.

See the Fox DPS shock setup guide here:

www.ridefox.com/fox17/help.php?m=bike&id=1147

INNER SPRING VOLUME REDUCERS ON FOX DPS I-LINE SHOCKS

REDUCER CONFIGURATION		
Travel	Factory fitted	Maximum No of reducers
(190 x 45) SV	0	0

FOX 34 FORK

See the full Fox 34 SC fork adjustment manual in the manufacturer's documentation:

<https://www.ridefox.com/fox17/help.php?m=bike&id=2829>

The following tables give approximate values, they may vary depending on the riding style and terrain conditions.

FOX 34 FORK AIR PRESSURE ADJUSTMENT SUGGESTIONS

RECOMMENDED SAG ADJUSTMENT STARTING AIR PRESSURE IN 34 SC, FLOAT AND RHYTHM FORKS

Weight of rider + gear		Air pressure	
(lbs)	(kg)	(psi)	(bar)
120-150	54-68	58-68	4.0-4.7
150-180	68-82	72-82	5.0-5.7
180-210	82-95	86-96	5.9-6.6
210-250	95-113	100-114	6.9-7.9

FOX 34 FORK REBOUND ADJUSTMENT SUGGESTIONS

The rebound setting depends on the air pressure. The higher the air pressure, the more closed the rebound circuit should be. Then count as many "clicks" as appear on the table in an anti-clockwise direction.

Use your fork's final air pressure to find your rebound setting. Turn the rebound dial to the closed position (turn clockwise).

REBOUND ADJUSTMENT SUGGESTION FOR 34 SC, FLOAT AND RHYTHM FORKS

34 mm FLOAT SC Air pressure (psi/bar)	FIT4 Rebound	GRIP Rebound
65psi/ 4.5 bar	12	13
70psi/ 4.8 bar	11	12
74psi/ 5.1 bar	10	11
80psi/ 5.5 bar	9	10
85psi/ 5.9 bar	8	9
90psi/ 6.2 bar	7	8
96psi/ 6.6 bar	6	7
101psi/ 7.0 bar	6	6
106psi/ 7.3 bar	5	5
111psi/ 7.6 bar	4	4
117psi/ 8.0 bar	3	3
122psi/ 8.4 bar	2	2
126psi/ 8.7 bar	1	1

FOX 34 FORK INNER SPRING VOLUME REDUCERS

REDUCER CONFIGURATION (10 CC REDUCERS) GREEN COLOUR

	Travel	Factory fitted	Maximum No of reducers
34 FLOAT SC	120 mm	1	4
34 RHYTHM	120 mm	2	5

22 DECLARATION OF CONFORMITY

**CE DECLARACIÓN DE CONFORMIDAD CE
EC DECLARATION OF CONFORMITY**

El fabricante / The manufacturer: Orbea S. Coop. Ltda
Polígono Industrial Goitondo s/n
48269, Mallabia (Bizkaia) - Spain

Declara que los siguientes productos / Declares that the following products:

Descripción / Description : Bicicleta
 Marca / Make : ORBEA
 Modelos / Models : ALMA, AVANT, CARPE, LAUFEY, MX 20, MX 24,
 MX 27, MX 29, ONNA, OIZ, ORCA, ORCA AERO,
 ORDU, OCCAM, RALLON, TERRA H y TERRA M

Año de construcción / Year of manufacture : 2023 and 2024

Cumplen con las siguientes Directivas Europeas / Fulfills the following European Directives:

- Directiva 2001/95/CE / Directive 2001/95/EC
- Decisión de la Comisión 2015/681/CE / Decision of Commission 2015/681/EC

El sistema de fabricación está gestionado y controlado según ISO 9001:2015

Cumple con los requerimientos del Decreto Frances N.º 95-937 del 1995/08/24 / Comply with the requirement of France law N. 95-937 dated 1995/08/24

Cumple con los requerimientos del Decreto Español N.º 339/2014 del 2014/05/09 / Comply with the requirement of Spanish law N.º 339/2014 dated 2014/05/09

Cumple con las siguientes normas internacionales / The following international standards :

- EN ISO 4210 (1 al 9):2014

Persona autorizada para elaborar el expediente técnico / Authorized person to elaborate the technical file:

Nombre / Name : Pablo Trujillo (CPO)
 Dirección / Address : Polígono Industrial Goitondo s/n
 48269, Mallabia (Bizkaia) - Spain

Orbea S. Coop. Ltda

Pablo Trujillo
 CPO
 11/ 11 / 2022


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 T. +34 945 174 208
 T. +34 945 174 209

23 ADDITIONAL INFORMATION

ORBEA actively participates on Facebook and Twitter with its fantastic global community of cyclists. Are you looking for a place to ride a bike or spend your holidays? Someone will assuredly give you some interesting ideas:

FACEBOOK

www.facebook.com/OrbeaBicycles

TWITTER

www.twitter.com/Orbea/

YOUTUBE

Visit the Orbea channel on YouTube; There you will find various very useful technical and configuration videos:

www.youtube.com/user/OrbeaBicycles

INSTAGRAM

www.instagram.com/orbeabicycles

ORBEA CONTENT

View and download photos, videos, and documents.

content.orbea.com/gb-en/

ORBEA BLOG

www.orbea.com/us-en/blog

ORBEA DEALERS

Our dealers are highly specialised, so they will help you configure and maintain your Orbea bicycle. You can find a complete list of Orbea distributors on our website:

www.orbea.com/gb-en/dealers/?country=INT

CONTACT

Access our data and contact form at:

www.orbea.com/us-en/contacto

USA:

www.orbea.com/us-en/contact