

TECHNICAL MANUAL

BLUE PAPER OIZ H

2020

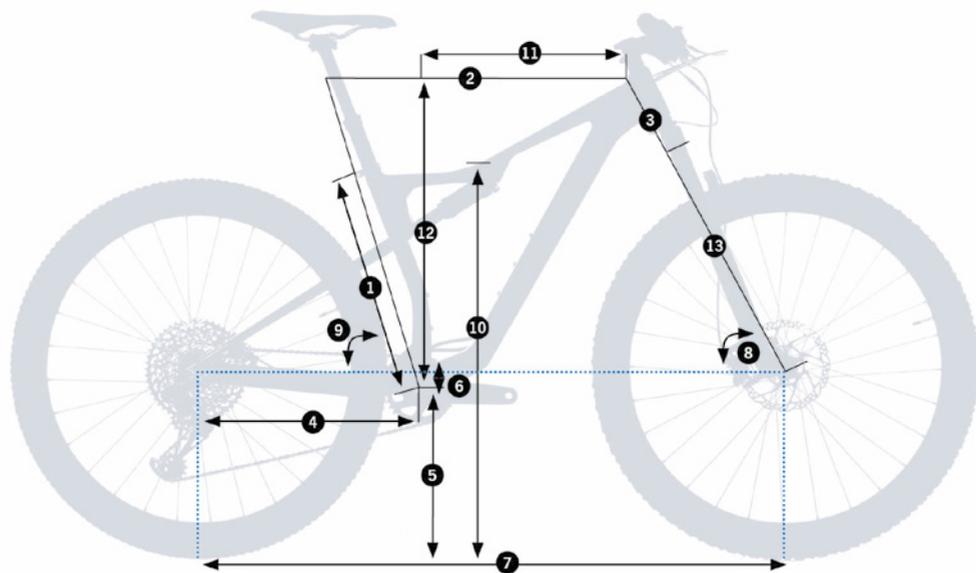
ORBEA



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GEOMETRY & SIZING



| TALLAS | S-27.5" | S-29" | M-29" | L-29" | XL-29" | S-27.5" | S-29" | M-29" | L-29" |
|-----------------------|---------|-------|-------|-------|--------|---------|-------|-------|-------|
| | TR | TR | TR | TR | TR | XC | XC | XC | -XC |
| 1 - Seat Tube (C-T) | 405 | 405 | 432 | 470 | 520 | 405 | 405 | 432 | 470 |
| 2 - Top Tube (EFF) | 559 | 567 | 596 | 610 | 643 | 557 | 564 | 593 | 617 |
| 3 - Head Tube | 95 | 90 | 95 | 105 | 120 | 95 | 90 | 95 | 105 |
| 4 - Chainstay | 425 | 435 | 435 | 435 | 435 | 425 | 435 | 435 | 435 |
| 5 - BB Height | 336 | 334 | 334 | 334 | 334 | 328 | 327 | 327 | 327 |
| 6 - BB Drop | 21 | 40 | 40 | 40 | 40 | 29 | 47 | 47 | 47 |
| 7 - Wheelbase | 1088 | 1101 | 1131 | 1155 | 1181 | 1081 | 1094 | 1123 | 1148 |
| 8 - Head Angle | 68° | 68° | 68° | 68° | 68° | 69° | 69° | 69° | 69° |
| 9 - Seat Angle | 74° | 74° | 74° | 74° | 74° | 75° | 75° | 75° | 75° |
| 10 - Standover Height | 722 | 724 | 739 | 749 | 756 | | 717 | 732 | 742 |
| 11 - Reach | 397 | 387 | 425 | 446 | 446 | 407 | 407 | 435 | 456 |
| 12 - Stack | 565 | 593 | 598 | 608 | 622 | 558 | 586 | 591 | 600 |
| 13 - Fork Length | 508 | 524 | 524 | 524 | 524 | 488 | 504 | 504 | 504 |

* From MY2022, all Oiz Hydro models are equipped with 120mm travel fork and shock.

| HEIGHT (CM) | HEIGHT (IN) | SIZE |
|---------------|---------------|---------|
| 155-170 | 61.1"-66.9" | S-27.5" |
| 155-170 | 61.1"-66.9" | S-29" |
| 165-180 | 65.0"-70.9" | M-29" |
| 178-190 | 70.1"-74.8" | L-29" |
| 185-198 | 72.8"-78.0" | XL-29" |

* Estimated measurements.

TECHNICAL SPECIFICATIONS

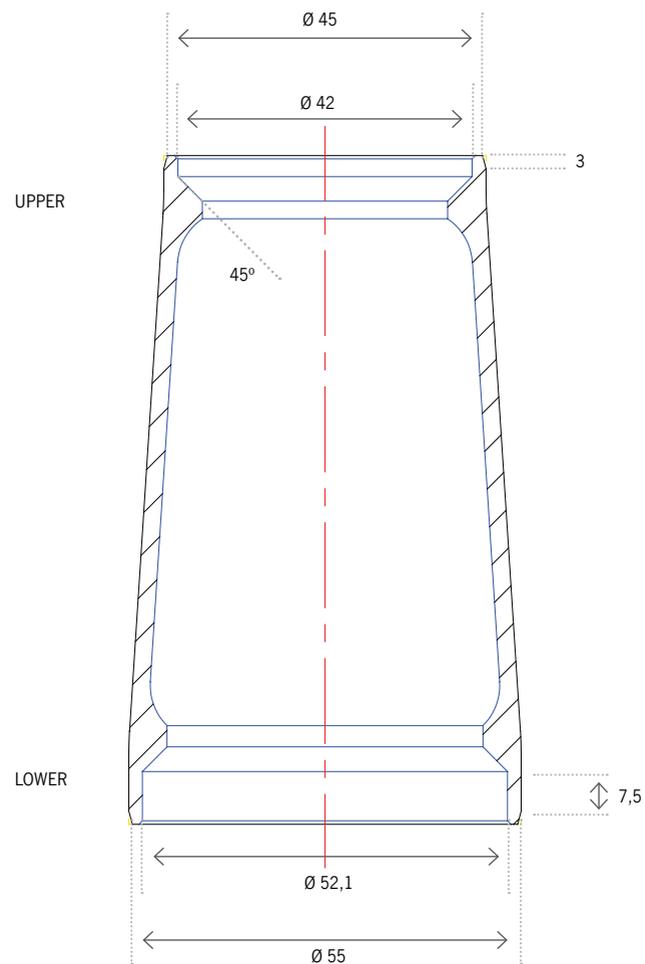
| | |
|-----------------------------------|-----------------------------------------------------------|
| FRAME MATERIAL | |
| FRONT TRIANGLE | ALUMINUM HYDRO TRIPLE BUTTED HIGH POLISH |
| REAR TRIANGLE | ALUMINUM HYDRO TRIPLE BUTTED |
| LINKAGE | ALUMINUM |
| INTENDED USE | XC, MARATHON, TRAIL |
| SIZES | S27,5, S, M, L, XL |
| REAR TRAVEL | 100mm / 120mm(TR) ** |
| FORK TRAVEL | 100mm / 120mm(TR) ** |
| WHEEL SIZE | 27,5" (S27,5) / 29" (S,M,L,XL) |
| MAX TYRE SIZE | 27,5X2,4(S27,5) / 29X2,4(S,M,L,XL) |
| FORK OFFSET | 44mm |
| BOTTOM BRACKET | PRESSFIT (PF92) |
| HEADSET | INTEGRATED 1"1/8-1,5 |
| REAR AXLE STANDARD | BOOST 148X12 |
| REAR AXLE MEASUREMENTS | 12X182 |
| REAR AXLE THREAD | 1.5mm |
| SEATPOST DIAMETER | 31.6mm |
| SEATCLAMP DIAMETER | 35mm |
| SEATPOST MAXIMUM INSERTION | S27,5: 205mm / S: 215mm / M: 260mm / L: 285mm / XL: 290mm |
| FRONT DERAILLEUR | N/A. ONLY 1X |
| MAX CHAINRING SIZE | 36T/34T OVAL |
| MIN CHAINRING SIZE | 30T |
| REAR BRAKE | DISC POST MOUNT * |

| | |
|-----------------------------------------|----------------------------------------------|
| MAX REAR ROTOR SIZE | 180mm |
| MIN REAR ROTOR SIZE | 160mm |
| SHOCK LENGHT (EYE-TO-EYE) | FOX I-LINE |
| TAMAÑO AMORTIGUADOR (EYE-TO-EYE) | 190mm |
| SHOCK STROKE | 40mm / 45mm(TR) |
| SHOCH HARDWARE | |
| FRONT TRIANGLE | 8X30mm |
| SHOCK EXTENDER | 8X21,84mm |
| CHAIN GUIDE | YES. DIRECT MOUNT ON SWINGARM |
| ICGS05 MOUNT | NO |
| CABLING | INTERNAL (FULL HOUSING) |
| LEFT-ROAD CABLING READY | YES. REAR BRAKE ENTERS THE FRAME ON THE LEFT |
| BOTTLE HOLDER | 1 (S27,5 & S) / 2 (M,L,XL) |
| DI2 COMPATIBLE | NO |
| DRIVETRAIN COMPATIBILITY | 11 AND 12 SPEED |
| POWER METER COMPATIBILITY | CONSULT MANUFACTURER'S SPECIFICATIONS |
| RECOMMENDED SAG | 20% |

* Not all calipers and rotors in the market are compatible with all frames.
All componets specificated from Orbea have been tested. For aftermarket options, check componentes dimensions and tolerances befores purchasing.

** From MY2022, all Oiz Hydro models are equipped with 120mm travel fork and shock.

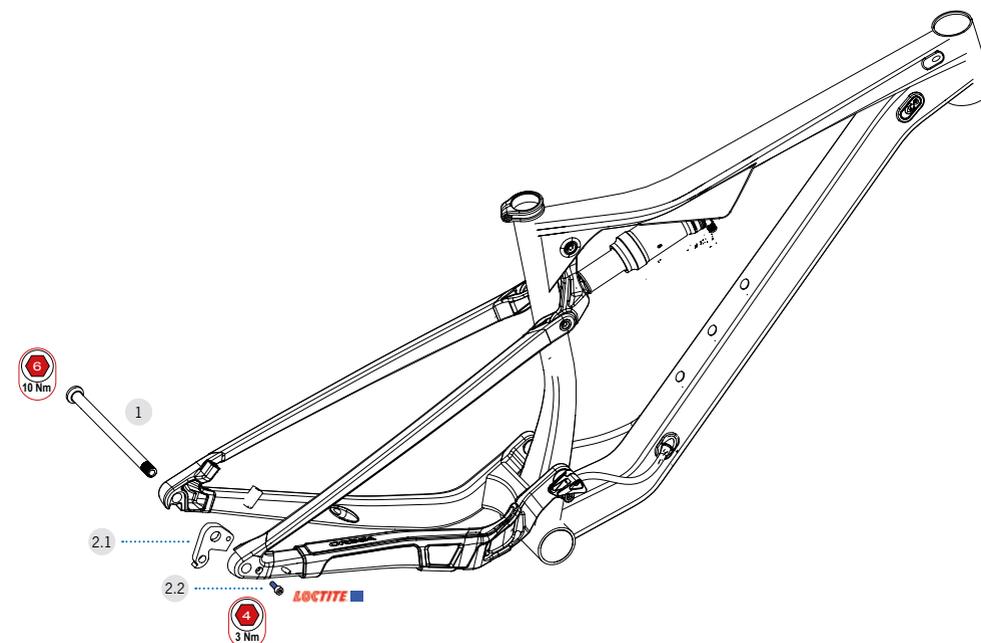
HEAD TUBE



OIZ H 20 HEADSET KIT

| KIT N°: X023 | QUANTITY |
|----------------------------|----------|
| HEADSET ACROS 11/8-1,5 INT | 1 |
| TOPCAP ACROS 11/8 | 1 |

REAR AXLE



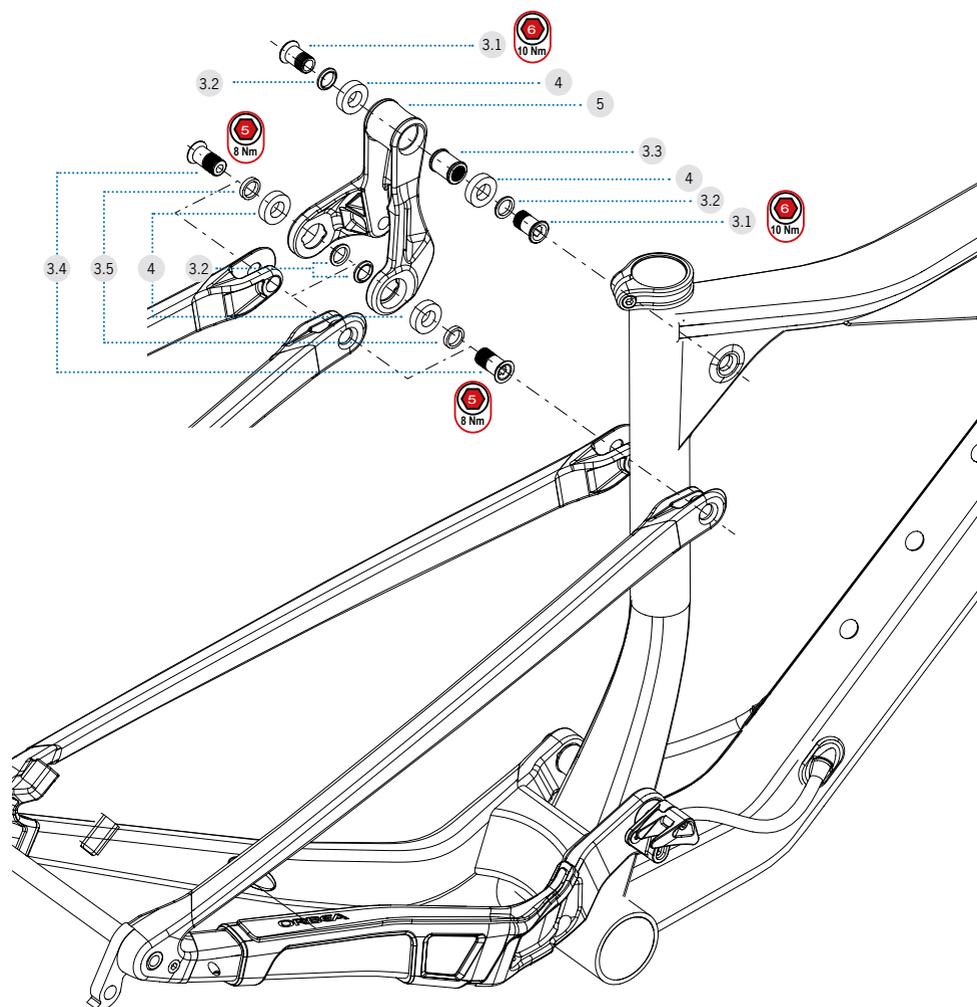
REAR AXLE OIZ H 20

| 01 | ART N°: X024 | QUANTITY |
|----|-----------------|----------|
| | 12x182x1.5 AXLE | 1 |

DERAILLEUR HAGER STANDARD KIT

| 02 | KIT N°: X025 | QUANTITY |
|-----|-------------------------------------|----------|
| 2.1 | DERAILLEUR HANGER MTB X12 STD OIZ H | 1 |
| 2.2 | BOLT M5X18 | 1 |

LINKAGE



OIZ H 20 LINKAGE HARWARE KIT

| 03 | KIT N°: X005 | QUANTITY |
|-----|----------------------|----------|
| 3.1 | LINKAGE-FT BOLT | 2 |
| 3.2 | LINKAGE-FT/CS WASHER | 4 |
| 3.3 | LINKAGE-FT SPACER | 1 |
| 3.4 | LINKAGE-RT BOLT | 2 |
| 3.5 | LINKAGE-RT WASHER | 2 |

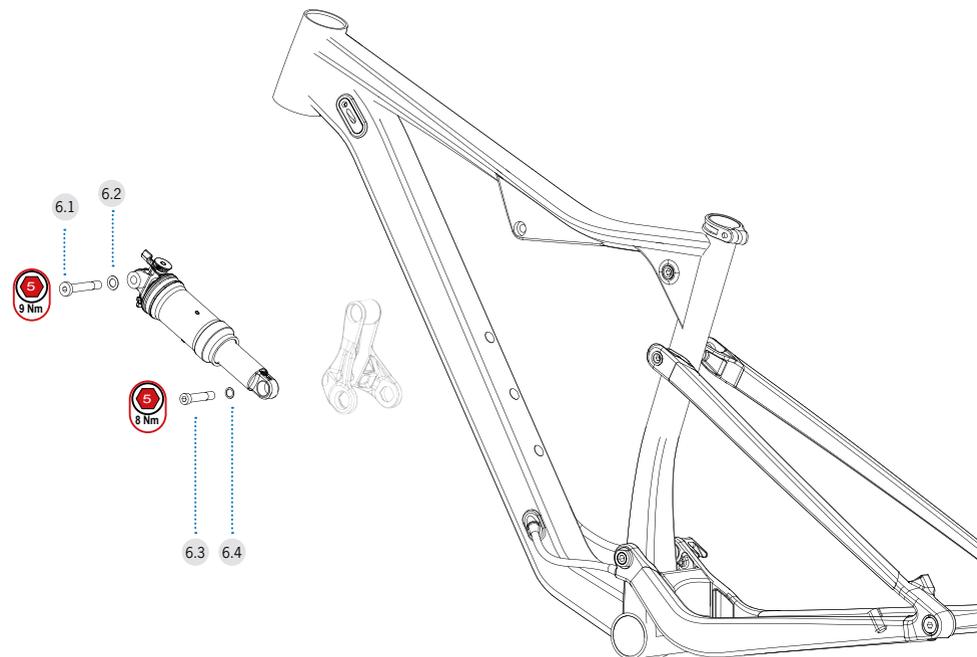
OIZ H 20 LINKAGE BEARING KIT

| 04 | KIT N°: X006 | QUANTITY |
|----|-----------------|----------|
| | BEARING 10X19X5 | 4 |

ALLOY LINKAGE OIZ H/OMR

| 05 | ART N°: X027 | QUANTITY |
|----|--------------------------------------------------------------------------------------------------|----------|
| | THE LINKAGE IS FRAME SIZE SPECIFIC: ONE SIZE FOR M/L/XL FRAMES ONE SIZE FOR 27S/29S FRAMES | 1 |

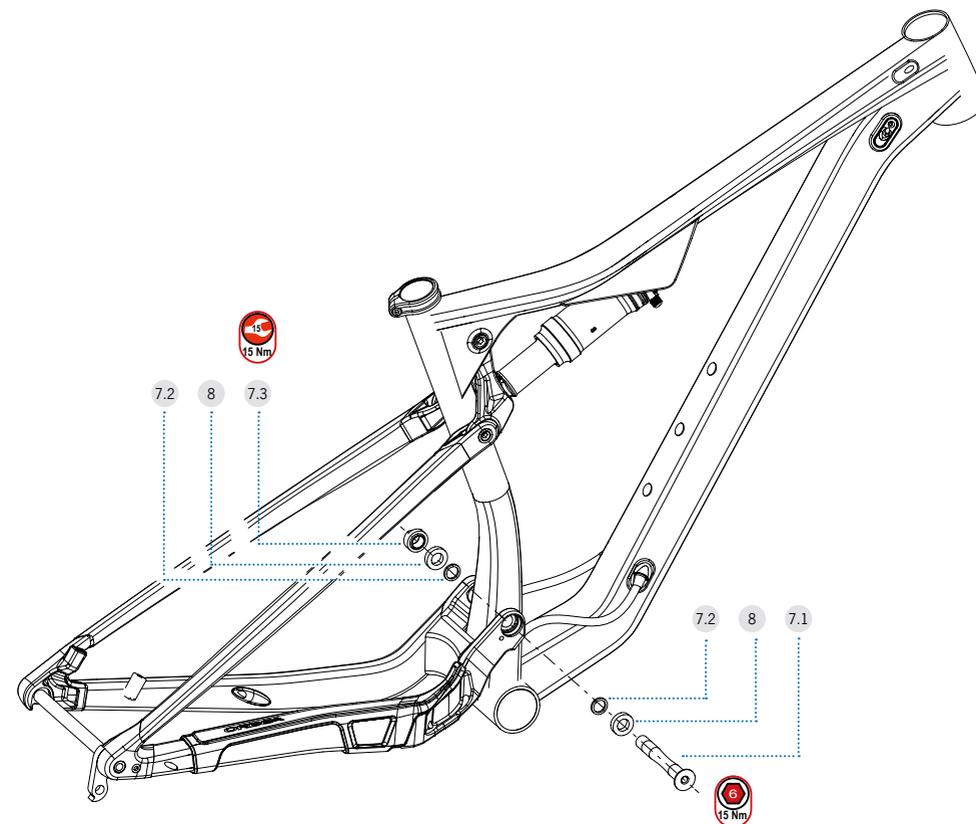
SHOCK HARDWARE



OIZ H 20 SHOCK HARDWARE KIT

| 06 | KIT N°: X028 | QUANTITY |
|-----|----------------------|----------|
| 6.1 | SHOCK-FT BOLT | 1 |
| 6.2 | SHOCK-FT WASHER | 1 |
| 6.3 | SHOCK-LINKAGE BOLT | 1 |
| 6.4 | SHOCK-LINKAGE WASHER | 1 |

MAIN PIVOT



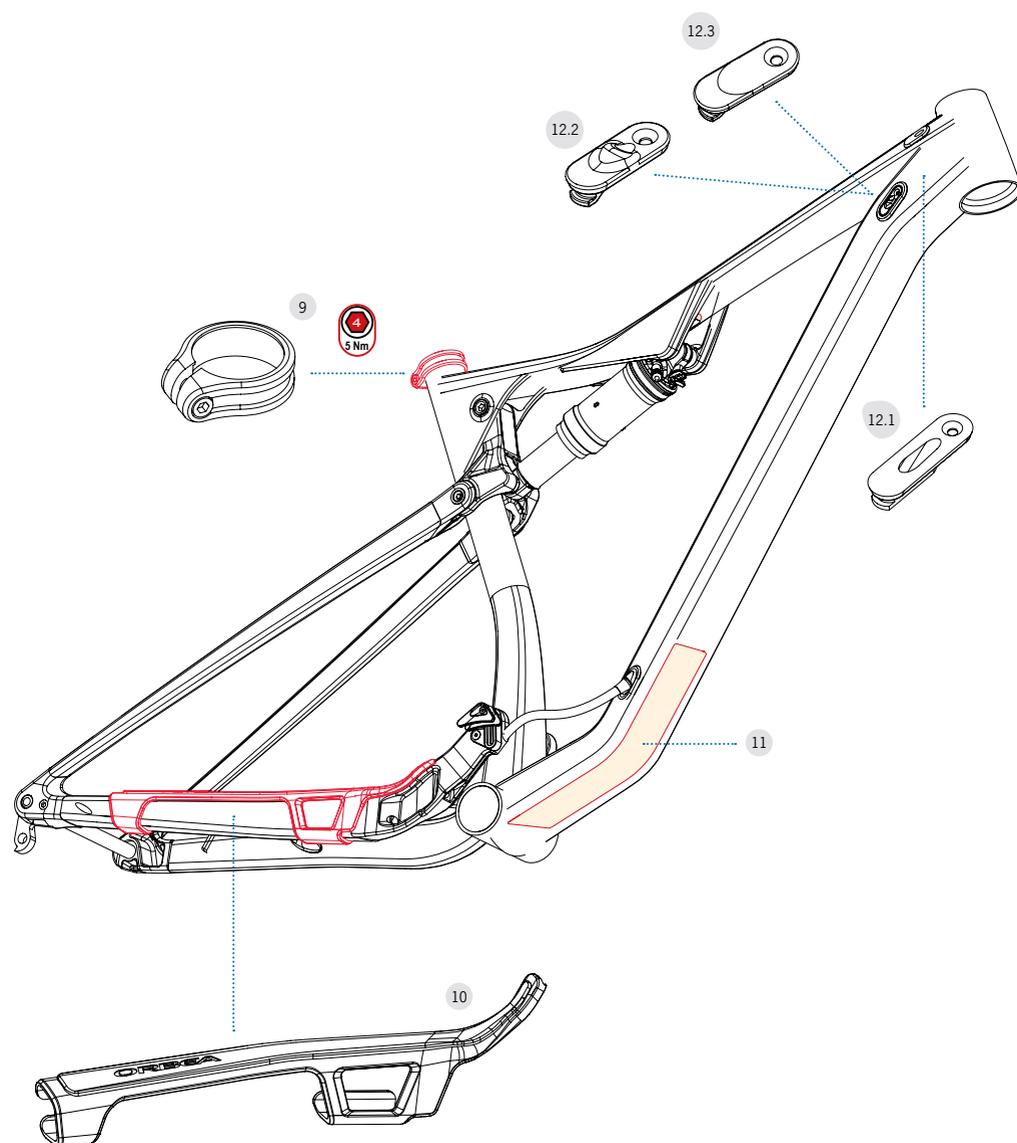
OIZ HYDRO MAIN PIVOT KIT

| 7 | KIT N°: X307 | QUANTITY |
|-----|------------------------|----------|
| 7.1 | EJE PTO GIRO PPAL | 1 |
| 7.2 | ARANDELA PTO GIRO PPAL | 2 |
| 7.3 | TUERCA PTO GIRO PPAL | 1 |

MAIN PIVOT BEARING KIT

| 8 | KIT N°: X308 | QUANTITY |
|---|-----------------|----------|
| | BEARING 12X21X5 | 2 |

FRAME HARDWARE



SEATCLAMP MTB 16 34,9

| 9 | ART N°: X202 | QUANTITY |
|---|-----------------------|----------|
| | SEATCLAMP MTB 16 34,9 | 1 |

CHAINSTAY PROTECTOR OIZ H 20

| 10 | ART N°: X309 | QUANTITY |
|----|------------------------------|----------|
| | CHAINSTAY PROTECTOR OIZ H 20 | 1 |

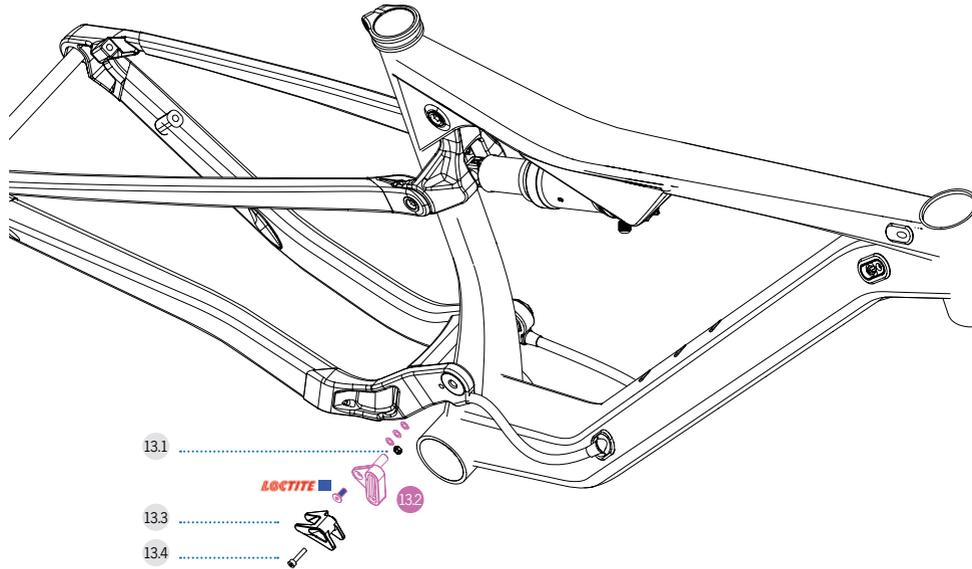
DOWNTUBE TRANSP PROTECTOR OIZ H 20

| 11 | ART N°: X310 | QUANTITY |
|----|----------------------------------------------------------------------------------------------------|----------|
| | THE PROTECTOR IS FRAME SIZE SPECIFIC: ONE SIZE FOR M/L/XL FRAMES ONE SIZE FOR 27S/29S FRAMES | 1 |

CABLESTOP KIT OIZ H 20

| 12 | KIT N°: X311 | QUANTITY |
|------|--------------------------------|----------|
| 12.1 | CABLESTOP DT LEFT DERAIL-BRAKE | 1 |
| 12.2 | CABLESTOP RIGHT DROPPER | 1 |
| 12.3 | CABLESTOP RIGHT BLIND | 1 |
| | BOLT M3X12 | 3 |

CHAINGUIDE



SPACERS

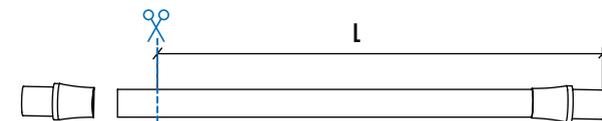
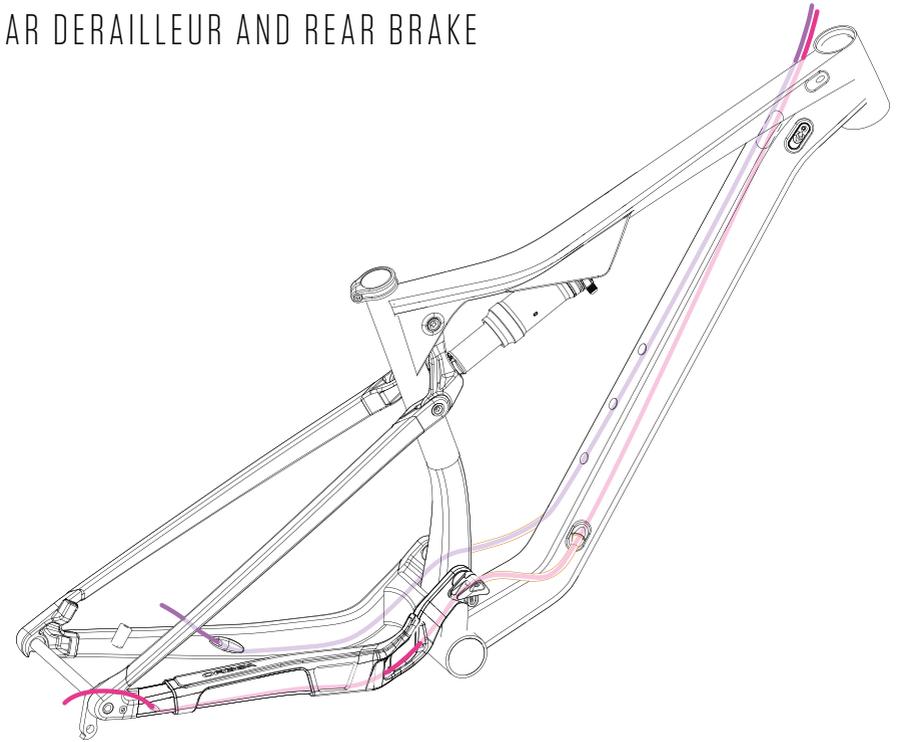
| | |
|--------------|---------|
| SRAM | 2 X 0,5 |
| SHIMANO 1X12 | 2 X 0,5 |
| SHIMANO 1X11 | 3 X 0,5 |

CHAINGUIDE KIT OIZ HYDRO 20

| 13 | KIT N°: X312 | QUANTITY |
|------|-----------------------|----------|
| 13.1 | M3 NUT | 1 |
| 13.2 | OIZ 20 CHAINGUIDE KIT | 1 |
| | Chainguide bracket | |
| | washers (x3) | |
| | chainguide bolt | |
| 13.3 | CHAINGUIDE 1X | 1 |
| 13.4 | BOLT M3X15 | 1 |

CABLING

REAR DERAILLEUR AND REAR BRAKE



Cut the cable sleeves to the specified length

| | L | S | M/L | L/XL |
|-------|-------|-------|-------|-------|
| LEFT | 150mm | 165mm | 180mm | 180mm |
| RIGHT | 150mm | 165mm | 180mm | 180mm |

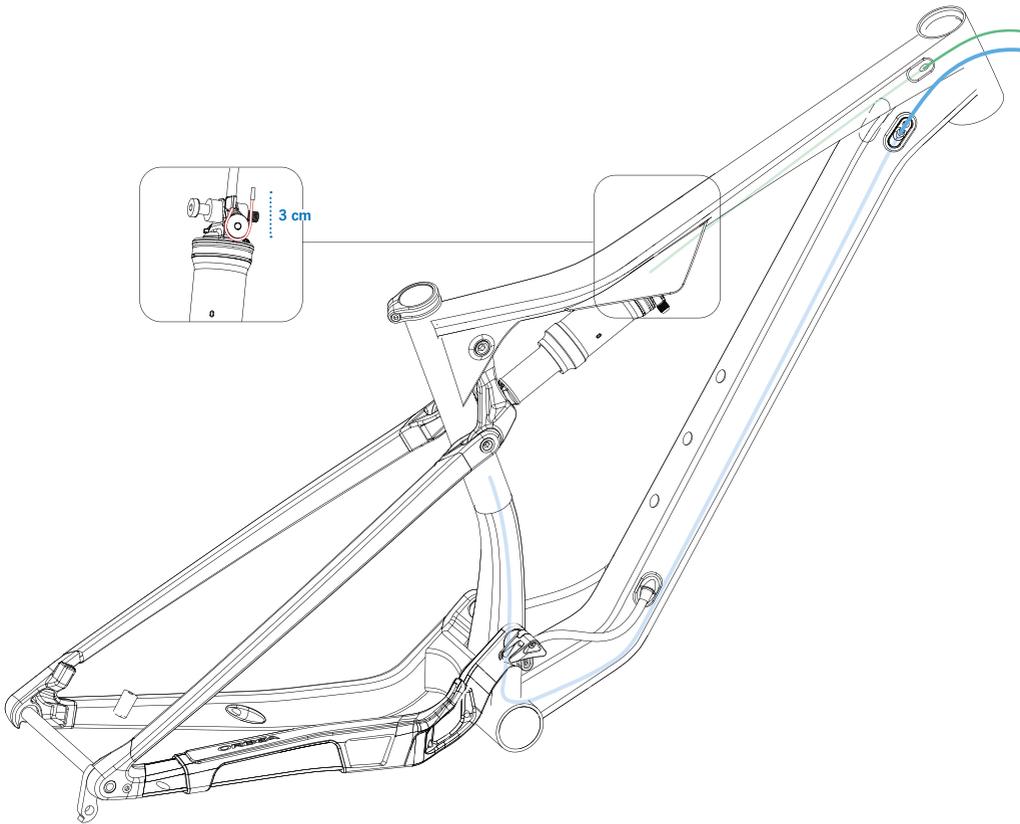
FULLSUSP CABLE SLEEVES KIT

| 14 | KIT N°: X313 | QUANTITY |
|------|----------------------------|----------|
| 24.1 | FS CABLE SLEEVE (ONE SIZE) | 2 |
| 24.2 | FS SLEEVE FERRULE | 2 |

CABLING

DROPPER AND SHOCK REMOTE

The shock's remote cable must be cut so at least 3cm are left inside the top tube parallel to the outer cable.



SHOCK PRESSURES

RECOMMENDED PRESSURES CHART

| | XC (190X40) | | TR (190X45) | |
|--------------|--------------|-------------------------------------|--------------|-------------------------------------|
| RIDER WEIGHT | AIR PRESSURE | REBOUND | AIR PRESSURE | REBOUND |
| KG | PSI | CLICKS (FROM COMPLETELY OPEN) | PSI | CLICKS (FROM COMPLETELY OPEN) |
| 60 | 150 | 2 | 141 | 1 |
| 65 | 162 | 3 | 153 | 2 |
| 70 | 175 | 4 | 165 | 3 |
| 75 | 187 | 5 | 176 | 4 |
| 80 | 200 | 6 | 188 | 5 |
| 85 | 212 | 7 | 200 | 6 |
| 90 | 225 | 8 | 211 | 7 |
| 95 | 237 | 9 | 223 | 8 |
| 100 | 250 | 10 | 235 | 9 |

These pressures are approximated values. Final pressures might change depending on riding style and conditions.

MAINTENANCE

Los productos Orbea son cuidadosamente diseñados para ser duraderos, eficientes y fáciles de mantener. Los cuadros de carbono y aluminio de OIZ son extremadamente resistentes a la corrosión.

Sin embargo, tu bicicleta Orbea necesita un mantenimiento periódico de sus componentes para su correcto funcionamiento y para asegurar su longevidad.

1) KEEP YOUR OIZ CLEAN

Washing your bike with mild soap and water will keep you looking stylish and allow you to check the condition of the frame and components. Don't use high water pressure and avoid spraying water into bearings or frame tubes. Citrus degreasers are biodegradable and do a great job of removing dirty grease from gears and chain.

2) KEEP YOUR OIZ LUBED

Once your bike is clean, it's a good time to put fresh lube on the chain. Use only enough to get inside the links and wipe off any excess because it will attract dirt. Headset and pivot bearings should be inspected every few months for smoothness and to ensure that the seals are intact and lube is clean.

3) INSPECT YOUR OIZ BEFORE YOU RIDE

Do a quick check before every ride to make sure your bike is in excellent condition. It is very common to discover small issues at home that can become big problems on the trail. **CHAIN** Is the chain dirty, noisy or dry? Clean and lube your chain before riding. **BRAKES** Check your brakes to make sure they are working correctly. Check for missing/loose caliper and rotor bolts. **TIRES** Look for damage to the sidewalls of your tires. Check and adjust tire pressure. **WHEELS** Spin the wheels and look for wobbles, check for loose or broken spokes. Check quick release levers to make sure they are functioning properly. **FRONT END** Stand over the saddle, pull on the brakes and rock the bike back and forth. Feel for any play or knocking that might indicate a loose headset, loose brake rotors or calipers, or worn fork bushings.

TEST RIDE Take a quick ride up and down the street to make sure your bike is shifting and braking properly. Listen for unusual noises.

4) BEARINGS

Bearings are one element subject to wear and tear. They must be in good condition to ensure that the other parts of the bicycle work correctly: on the wheels, the steering column and the bottom bracket, and particularly on the parts of the full suspension bicycle frame. Regularly check to make sure that the bearings turn freely in their housing and there are no signs of lateral play. Bearings that do not turn properly or that have any lateral play must be replaced immediately in order to prevent wear and tear to the parts of the frame. Very damp weather conditions can cause the bearings to wear out faster. Avoid washing your bicycle with pressurized water hoses. If you have any questions, take your bicycle to an Orbea dealer for correct diagnosis and maintenance.

AFTER A CRASH OR IMPACT

Falling is part of riding and it's impossible to avoid minor accidents. If you crash your OIZ, please make sure you are okay and seek medical attention if necessary. If you are not injured, you should check your bike before continuing:

1) Inspect your frame and components for damage. Do not ride your bike if any problems are detected.

WHAT TO LOOK FOR

Inspect Frame and fork for evidence of cracking or bending. If cracks are discovered, discontinue use immediately.

Check the drivetrain and spin the wheels to make sure components are operating correctly. If you discover damage to your components, discontinue use immediately.

Even if you don't find any damage, pay careful attention to the sound of your bike when you continue riding. Unusual noises can be caused by cracks or other problems. A well-maintained bike will be quiet and free of creaks or squeaks. Investigate and locate the source of any new noises.

2) Bring your bike to your Orbea dealer for professional inspection. Some damage can only be detected by disassembling the bike to check for cracks or other signs of stress.

A crash or impact can put extraordinary stress on your bike and components, causing them to fail or to fatigue prematurely. Failure can happen suddenly with no warning, causing loss of control, serious injury or death.

WARRANTY

The constant effort we make every day to produce the highest quality bicycles enables us to offer the following warranty and coverage conditions:

LEGAL WARRANTY

Orbea guarantees its products by law for a period of 2 years or whatever has been stipulated as the legal warranty period in the country where the purchase was made, to the original owner of the bicycle/component.

This warranty covers Orbea products against manufacturing defects and/or lack of conformity and guarantees the repair or replacement of the defective product at no cost to the affected customer. Likewise, this warranty also covers paint, varnish and corrosion defects on all frames and rigid forks assembled on our bicycles during the period specified in the first paragraph of this warranty.

This warranty does not cover in any case damage derived from misuse or the lack of maintenance, or from the normal wear and tear of perishable parts, such as, but not limited to: seals, bearings, handlebar tape, spokes, hub, threads, tires, seat, etc.

See the full description of the coverage and the legal warranty conditions at:
<https://www.orbea.com/int-en/warranty-benefits/>

ORBEA LIFETIME WARRANTY

As a complement to the legal warranty, Orbea offers the original buyer of the bicycle, under the condition of having registered their bicycle on the Orbea website within a period of 30 days following its purchase, the Orbea Lifetime Warranty, which covers the frames and rigid forks we assemble on our bicycles, with no time limit, against manufacturing defects.

This warranty extends the original period of coverage against pain, varnish or corrosion defects on our frames and rigid forks for one additional year after the end of the legal warranty period.

See the full description of the coverage and the Lifetime Warranty conditions at:

<https://www.orbea.com/int-en/warranty-benefits/>

REGISTER YOUR BICYCLE

In order to benefit from the extension of the Orbea Lifetime Warranty, register your bike within the first 30 days of having purchased it at www.orbea.com

01. REGISTER YOUR ACCOUNT



02. REGISTRATION NUMBER

MY INFORMATION **WARRANTY REGISTRATION** ORDERS YOUR SAVED BIKES BIK

ACTIVATE YOUR REGISTRATION NUMBER

Enter bike's registration number and start enjoying your Orbea warranty.

* REGISTRATION NUMBER Where is my barcode?

* DATE OF PURCHASE - YYYY-MM-DD

* HOW SATISFIED ARE YOU WITH THE ORDERING PROCESS?

Very satisfied Satisfied

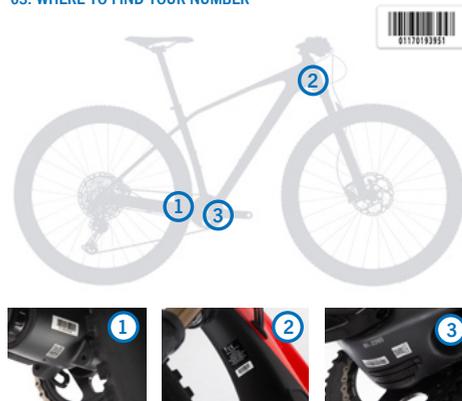
Neither satisfied nor dissatisfied Not satisfied

* HOW SATISFIED ARE YOU WITH THE PRODU

Very satisfied Satisfied

Neither satisfied nor dissatisfied Not satisfied

03. WHERE TO FIND YOUR NUMBER



ADDITIONAL INFORMATION

WARRANTY CLAIM PROCESS

All warranty claim processes must be processed through an Orbea dealer, who will provide the company with the necessary documentation for the diagnosis of said claim. The dealer will inform the customer of the decision made by Orbea.

ORBEA participates actively on facebook and Twitter with our fantastic global community of riders. Looking to find spots to ride or plan a vacation? Someone will have the answers:

FACEBOOK

www.facebook.com/OrbeaBicycles

TWITTER

www.twitter.com/Orbea/

YOUTUBE

Visit our Orbea Channel on You Tube for a variety of helpful setup and tech videos:

www.youtube.com/user/OrbeaBicycles

INSTAGRAM

www.instagram.com/orbeabicycles

ORBEA CONTENT

View and download photos, videos and documents.

content.orbea.com/us-en/

BLOG ORBEA

www.orbea.com/es-es/blog/

YOUR ORBEA DEALER

Our dealers are experts and should be able to assist you with setting up and maintaining your Orbea bicycle. A complete listing of Orbea dealers and distributors can be located on our website:

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

SUPPORT

For technical questions about Orbea products, write to:
support@orbea.com

For any other question:
orbea@orbea.com



ORBEA

WWW.ORBEA.COM