

ORBEA

**BLUE
PAPERS**

ALMA
TECHNICAL MANUAL

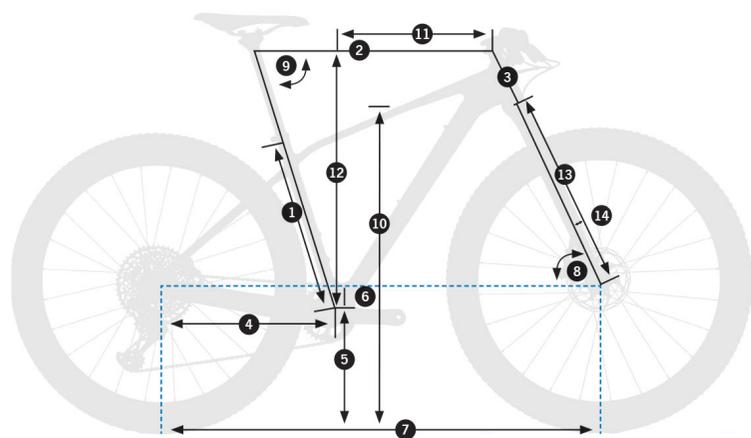
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ALMA

ORBEA

GEOMETRY



DESCRIPTION	SIZES					
	27X15,5	27X17,5	29X15,5	29X17,5	29X19	29X20,5
1 - SEAT TUBE (C-T)	400	445	400	445	483	533
2 - TOP TUBE (EFF)	550	582	557	588	616	640
3 - HEAD TUBE	95	105	95	95	105	120
4 - CHAIN STAY	425	425	436	436	436	436
5 - BB DROP	43	43	61	61	61	61
6 - BB HEIGHT	312	312	309	309	309	309
7 - WHEEL BASE	1045	1078	1073	1092	1121	1146
8 - HEAD ANGLE	69	69	69	69	69	69
9 - SEAT ANGLE	73,5	73,5	73,5	73,5	73,5	73,5
10 - STANDOVER HEIGHT	716	735	715	735	741	802
11 - REACH	380	409	380	409	435	455
12 - STACK	573	583	600	602	611	625
13 - FORK LENGTH	487,7	487,7	500,8	500,8	500,8	500,8
14 - FORK OFFSET – RAKE	44	44	44	44	44	44

SIZING & ERGONOMY



SIZE	STEM	HANDLEBAR	CRANK
S - 29"	70	700	170
L - 29"	90	700	175
M - 27.5"	70	700	175
M - 29"	70	700	175
S - 27.5"	70	700	170
XL - 29"	110	700	175

* The handlebar size is centre-centre.

HEIGHT (cm)	HEIGHT (in)	SIZE
155-170	61-67	S - 27.5
165-180	65-71	M - 27.5
155-170	61-67	S - 29
165-180	65-71	M - 29
178-190	70-75	L - 29
185-198	73-78	XL - 29

* Estimated measurements.

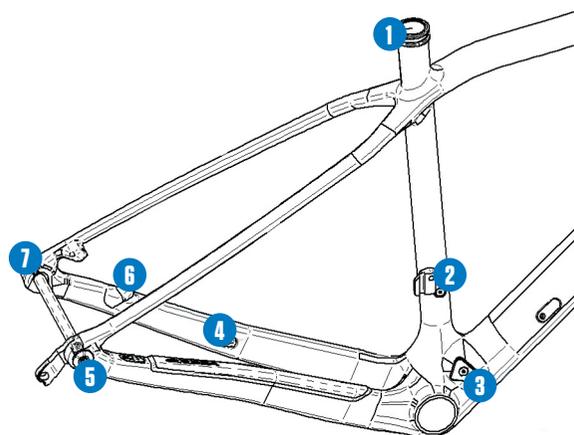
CHARACTERISTICS

DIRECTION	1" 1/8 - 1" 1/5
BB	PRESS FIT 92 MM X 41MM
FRONT DERAILLEUR	DIRECT MOUNT
FRONT DERAILLEUR TP/DP	SIDESWING
SEAT POST DIAMETER	27,2 MM
SEAT CLAMP	31,8 MM
DROPOUT	BOOST
CHAINSTAY PROTECTOR	RUBBER
CABLE TYPE	DCR RD, STANDARD FD
REAR HUB LENGHT	148
MAX CHAINRING SIZE 2X	38T
MAX CHAINRING SIZE 1X	34T
MIN CHAINRING SIZE FOR MECHANICAL FD	34T
MIN CHAINRING SIZE FOR D12 FD	34T

OPTIONS

BRAKE	V-BRAKE	NO
	DISC BRAKE	ONLY
	REAR BRAKE IS/PM+DIAMETER DISC	PM 160 (180COMPATIBLE)
	CALIPER BRAKE	NO
GEARS	11 SPEED	YES
	12 SPEED	YES, XX1 EAGLE
	DOUBLE CRANK	YES
	COMPACT CRANK (34X50T) (ROAD)	-
	TRIPLE CRANK	YES
TYRES	OXYMETRIC	NO
	MAXIMUN SIZE	2,4
CABLE ROUTING	MECHANICAL SYSTEM (W/INTERNAL CABLE ROUTING)	DCR
	ELECTRONIC DI2 SYSTEM (W/INTERNAL CABLE ROUTING)	YES
	EXTERNAL SHIMANO BATTERY (IN LEFT CHAINSTAY)	SEAT TUBE BATTERY ONLY
	CAMPAGNOLO EPS	-

TORQUE SPECS

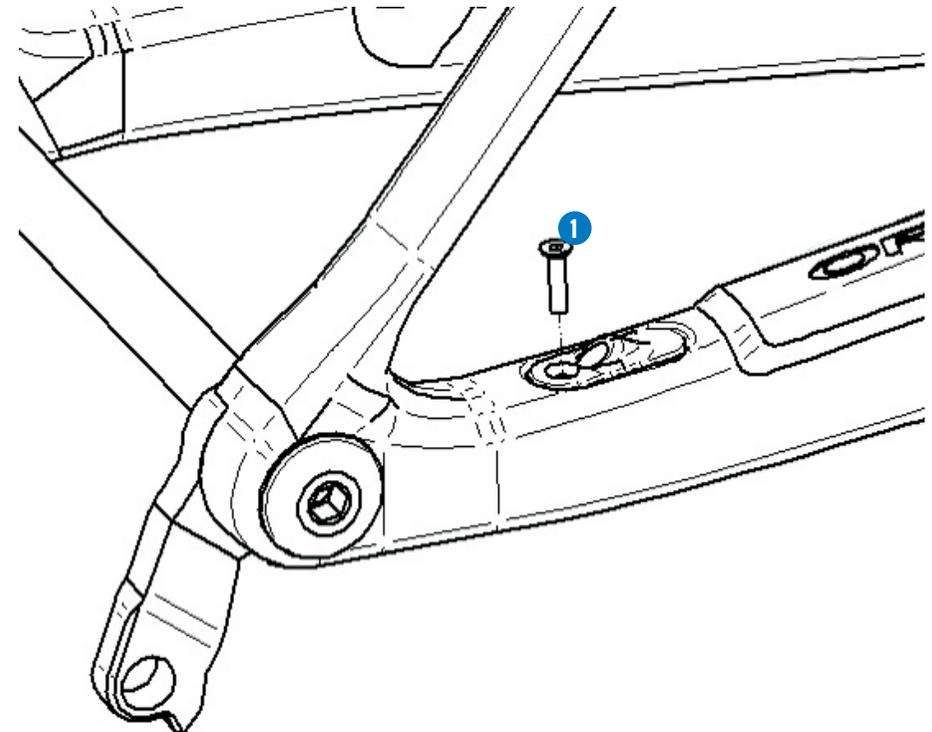


FASTENER NUMBER	DESCRIPTION	REQUIRED TOOLS	MAX TORQUE	NOTE
1	SEAT CLAMP BOLT	4 MM HEX	5 NM	
2	FD ADAPTER BOLTS	3 MM HEX	5 NM	
3	FD ADAPTER BOLTS	3 MM HEX	5 NM	
4	CABLE ROUTING PIECE BOLTS	2 MM HEX	0,5 NM	
5	HANGER BOLT	6 MM HEX	8 NM	
6	BRAKE MOUNT BOLTS	-	8 NM	
7	REAR WHEEL THRU AXLE	6 MM HEX	20 NM	

PARTS & HARDWARE

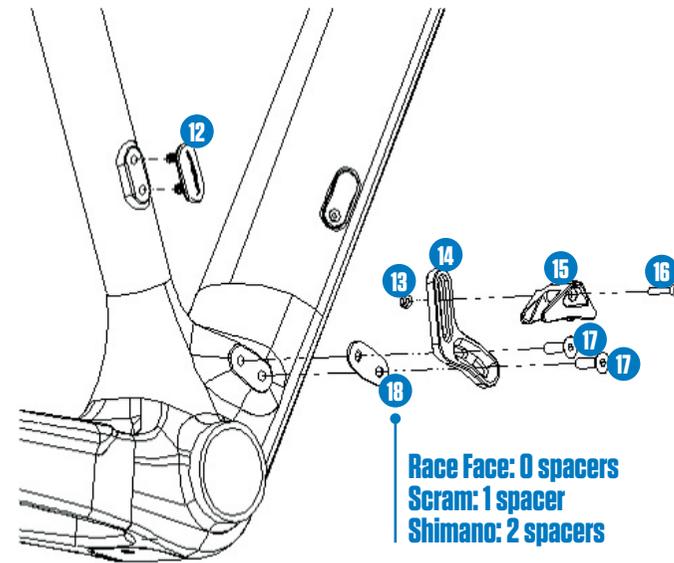
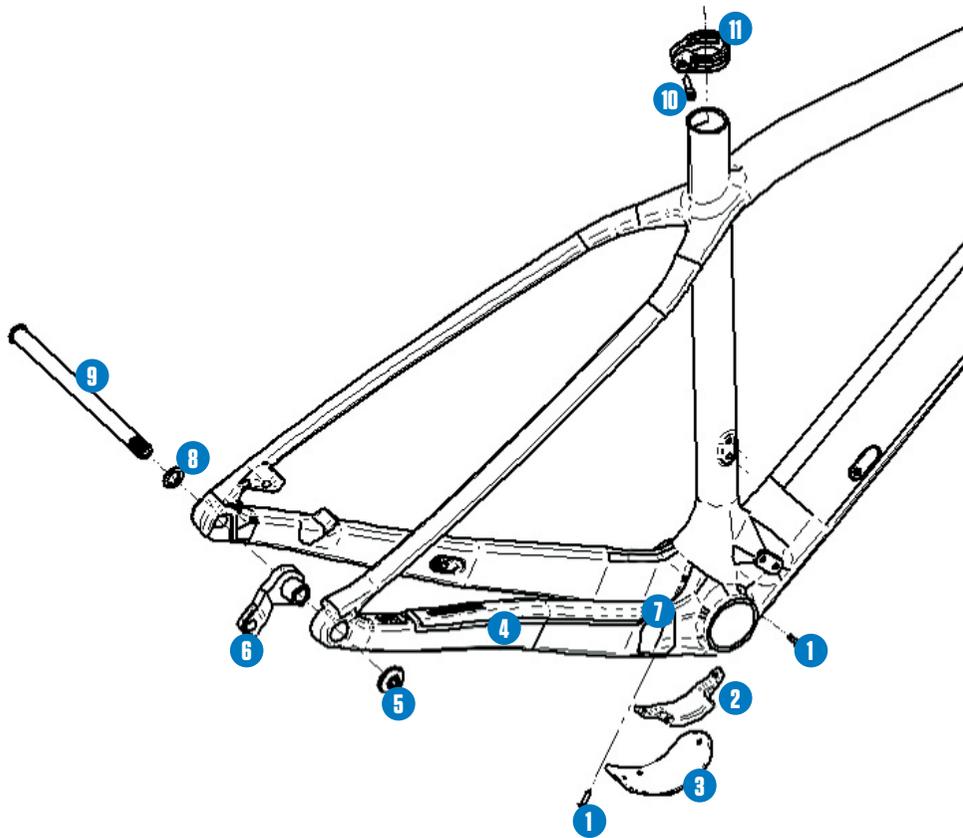
1x

PART NUMBER	REFERENCE	DESCRIPTION
1	12309075	TORNILLO AVELLANADO M3X12MM
2	11200702	
3	11200703	
4	11000209	
5	12300022	HANGER BOLT
6 (2 OPTIONS)	15430203	STANDARD HANGER
OMP	15430204	DIRECT MOUNT HANGER
6 (2 OPTIONS)	15430160	STANDARD HANGER
OMR	15430161	DIRECT MOUNT HANGER
7	16100392	CHAINSUCK PROTECTOR ALMA 29
	16100391	CHAINSUCK PROTECTOR ALMA 27
8	12320004	AXLE WASHER
9 (2 OPTIONS)	11100055	OCCAM 12X148 AXLE
	11103395	EJE PASANTE OCCAM/LOKI 2016 12X148
10	12309078	M5X18 DIN 912 ACABADO NEGRO
11	11160250	ALMA 2017 SEAT CLAMP
12	112000704	ALMA 2017 FRONT DERAILLEUR CUP
13	12319077	TUERCA INOX M3 DIN934 NEG
14	12330012	SOPORTE GUIACADENAS 1X ALMA 17
15	11250501	ALMA 2017 PIEZA DE PLASTCO GUIACADENAS 1X
16	12309077	M3X15 DIN 912 ACABADO NEGRO
17	12309076	M5X15 DIN 7991 ACABADO NEGRO
18	12320700	ESPACIADOR GUIACADENAS 2X5MM



PARTS & HARDWARE

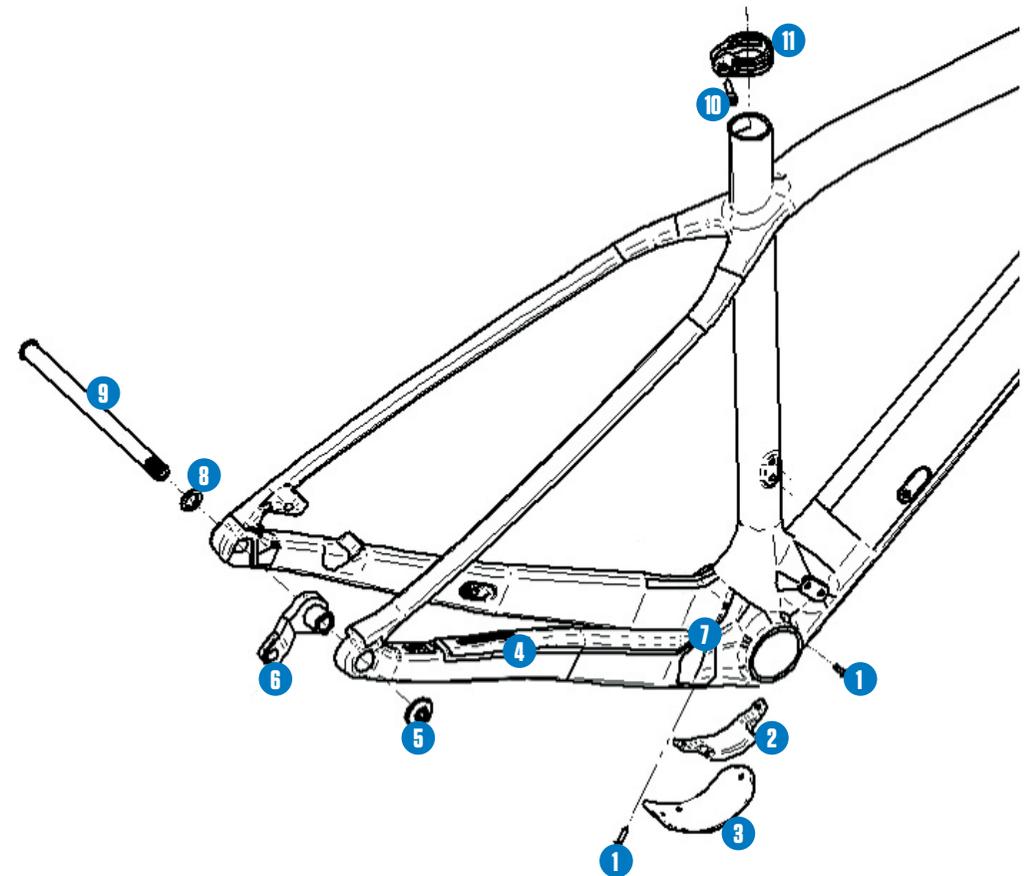
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PARTS & HARDWARE

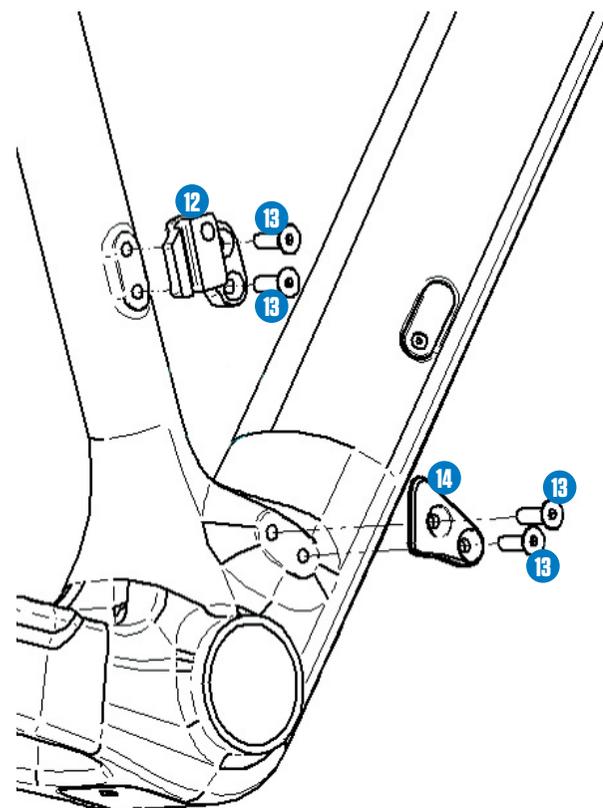
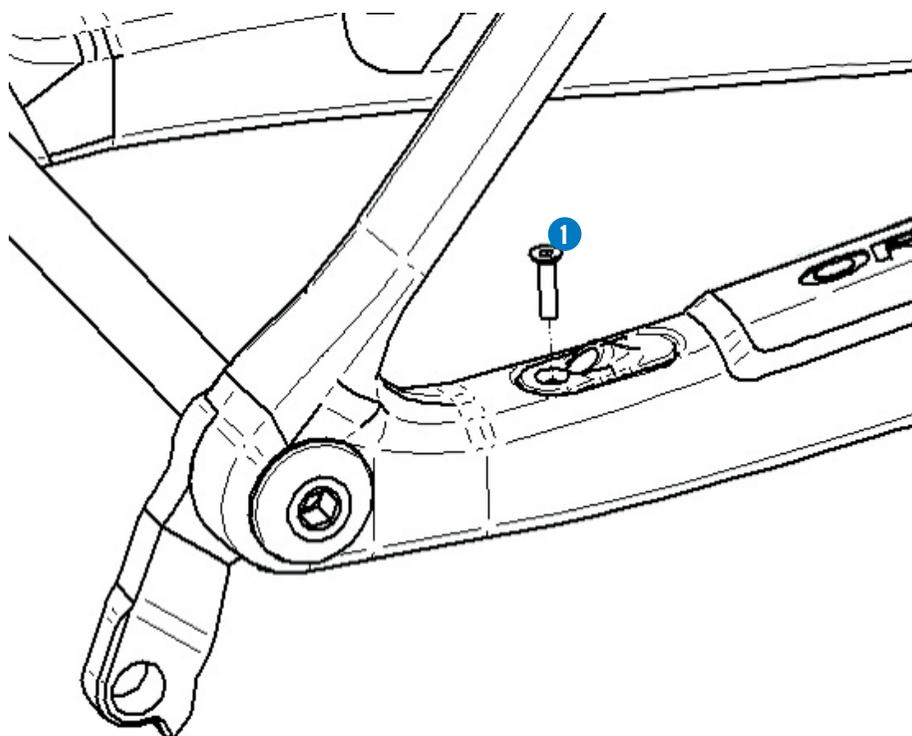
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PART NUMBER	REFERENCE	DESCRIPTION
1	12309075	TORNILLO AVELLANADO M3X12MM
2	11200702	
3	11200703	
4	11000209	
5	12300022	HANGER BOLT
6 (2 OPTIONS) OMP	15430203	STANDARD HANGER
	15430204	DIRECT MOUNT HANGER
6 (2 OPTIONS) OMR	15430160	STANDARD HANGER
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7	16100392	CHAINSUCK PROTECTOR ALMA 29
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8	12320004	AXLE WASHER
9 (2 OPTIONS)	11100055	OCCAM 12X148 AXLE
	11103395	EJE PASANTE OCCAM/LOKI 2016 12X148
10	12309078	M5X18 DIN 912 ACABADO NEGRO
11	11160251	ABRAZADERA SILLIN ALMA OME 18
12	11200259	ALMA 2017 FRONT DERAILLEUR MOUNT
13	12309076	M5X15 DIN 7991 ACABADO NEGRO
14	11250502	ALMA 2017 2X CHAINGUIDE

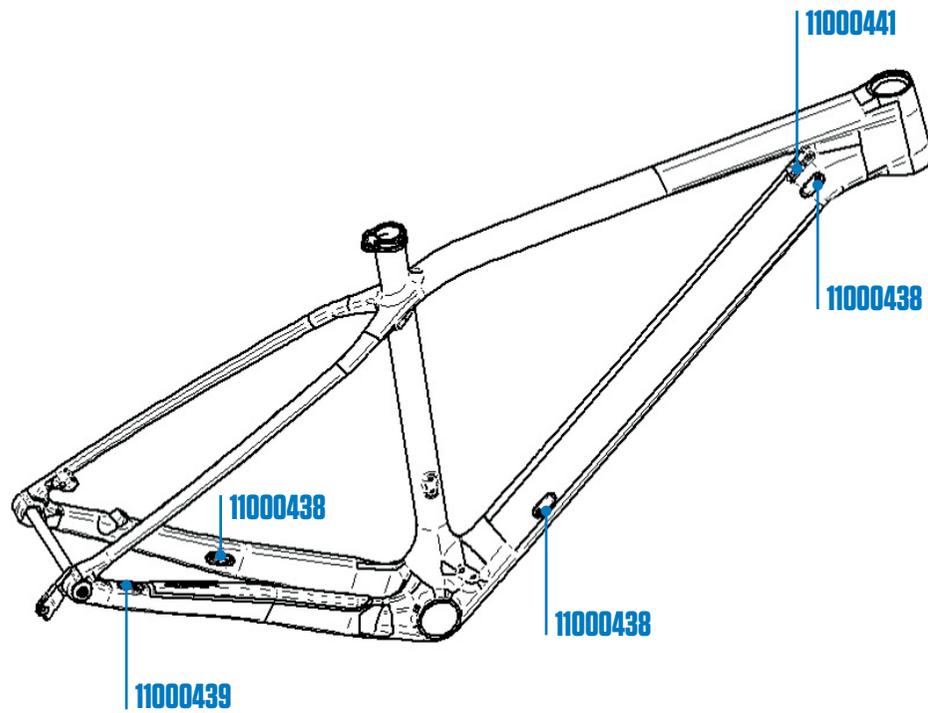


PARTS & HARDWARE

2x



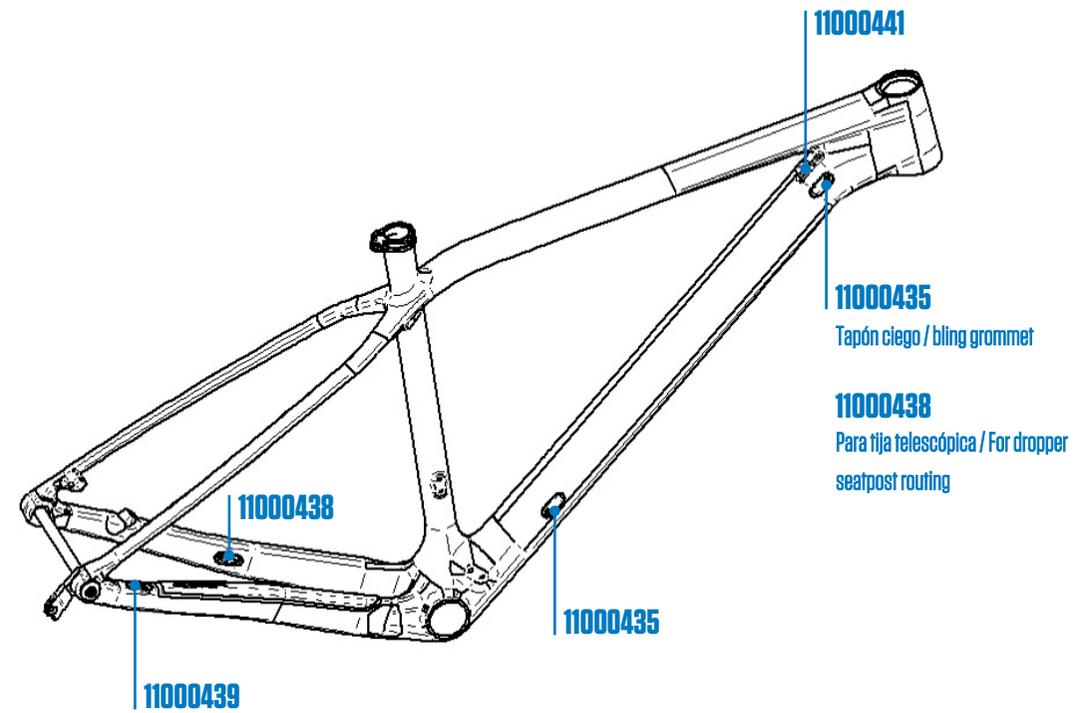
CABLE ROUTING



2x MECHANICAL

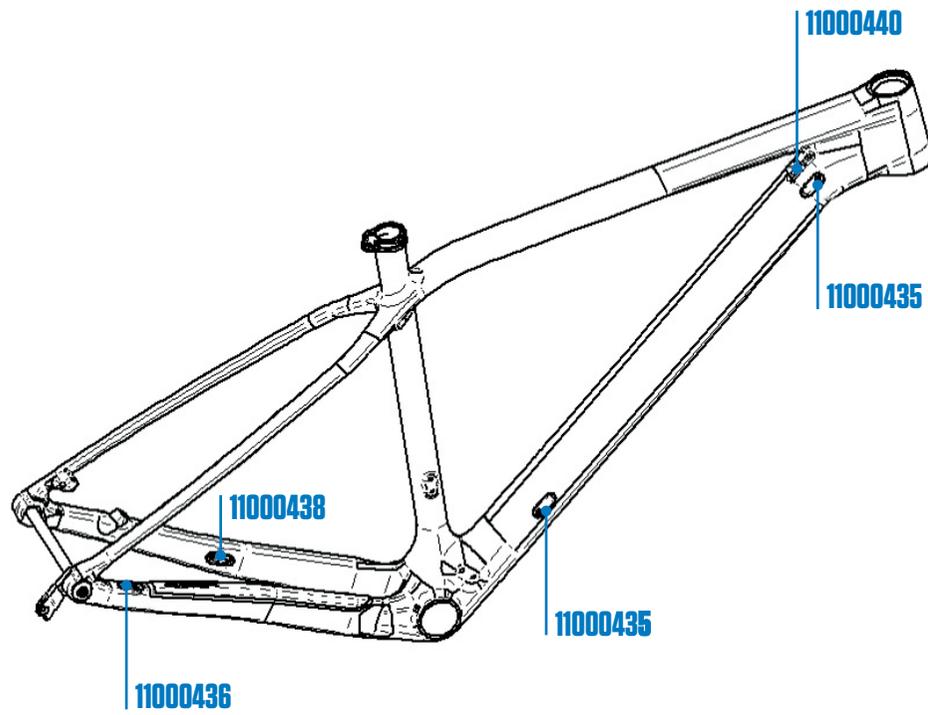
* Los montajes 2x no son compatibles con cableado interno de tija telescópica

* 2x assemblies are not compatible with dropper seatpost routing

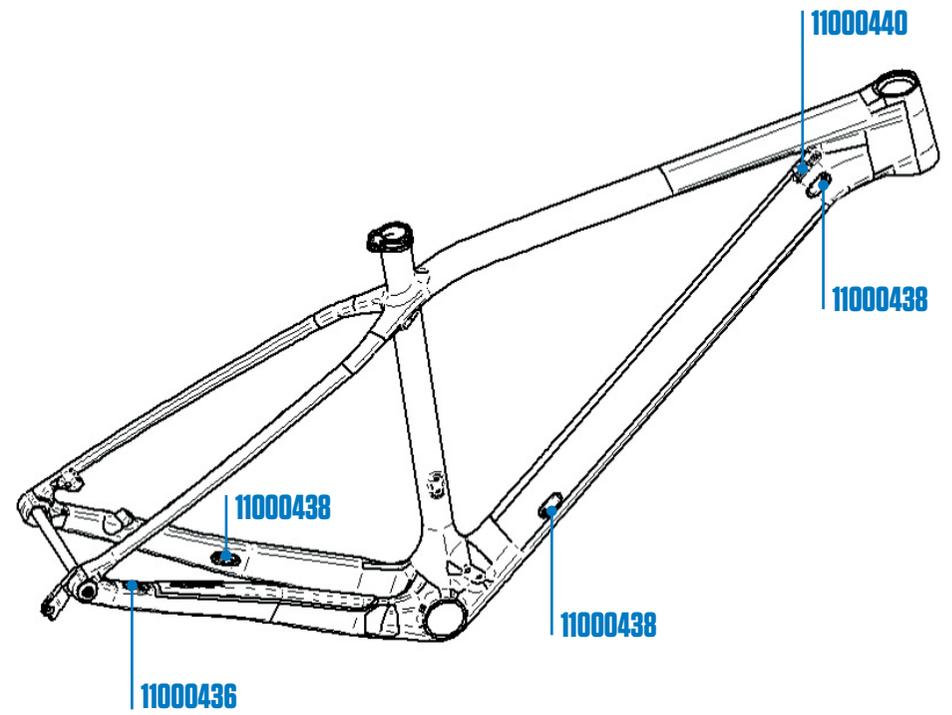


1x MECHANICAL

CABLE ROUTING



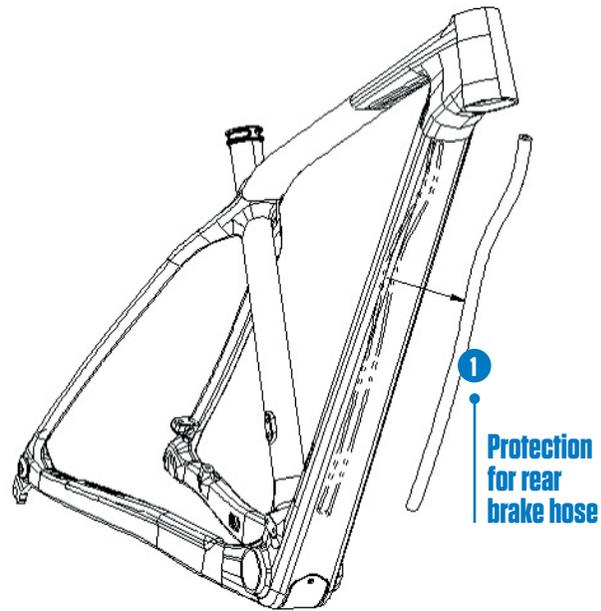
2x Di2



1x Di2

CABLE ROUTING

DT cable noise protection



		SUPLIER		ORBEA			
PART NUMBER	NAME	REFERENCE	DESCRIPTION	REFERENCE	DESCRIPTION	ASSEMBLED ON FRAME FROM SUPPLIER	VARIABLE COLOR
1	JAGWIRE		-			NO	NO

FRAME AND MATERIAL

Orbea frames are carefully designed to be durable, efficient, and easy to maintain. Alma tubes are stiff and light, giving excellent steering precision and pedaling efficiency. Alma carbon frame is extremely resistant to corrosion, making it perfect for road. With only a minimum amount of maintenance, it's easy to keep your Alma in top condition.

1) Keep your Alma 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 Alma 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 Alma 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.

AFTER A CRASH OR IMPACT

Falling is part of riding and it's impossible to avoid minor accidents. If you crash your Alma, 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.

ORBEA WARRANTY

HOW DO I ACTIVATE MY LIFETIME WARRANTY?

Orbea provides a lifetime warranty on all its frames. Only a brand that knows the materials, masters the technologies and has the skills can guarantee that your frame is totally invincible. Only Orbea takes you a step beyond.

Orbea's lifetime warranty is activated using the registration number you will find on all frames from the 2009 range onwards. When you have activated it at your dealer or at www.orbea.com, your bike will automatically receive its lifetime warranty. The registration number is a unique, non-transferable code that you will find on the underside of your bike's downtube. Activate your frame's warranty using this number at your dealer's or at www.orbea.com.

WHAT ARE THE ADVANTAGES?

- Lifetime guarantee of your frame against breakage.
- Two-year guarantee on all components.
- Identification of your bicycle and all its characteristics to our Technical Assistance Service so that we can provide our best response to any problems. Access to special offers, events and prize drawings.

ORBEA WARRANTY

The ongoing efforts we make at Orbea to design high-end bicycles enable us to provide customers with the following warranty:

- 1) We back each frame and rigid fork in our bicycles with a lifetime warranty against materials and manufacturing defects. Frames with travel longer than 170 mm are covered by a 2-year warranty. We warrant each frame and fork in our bikes against paint or varnish defects and corrosion for 3 years. This warranty covers the original purchaser only and is non-transferable. For the lifetime warranty to be valid, customers must fill in the online warranty form within one month of purchase, and proof of purchase in the form of cash register receipt or sales ticket is required.
- 2) Warranty claims are subject to the decision made by our technical staff about the nature of the defect after thorough inspection of the faulty part.
- 3) All the parts assembled in our bicycles are protected against assembly or manufacturing defects for 2 years, and repairs qualifying under this warranty will be performed by authorized dealers in each country.

4) This warranty does not cover parts that naturally wear over time, such as tires, brake pads, handlebar grips, cranksets, bearings, etc.

5) This warranty does not cover damages or defects caused by negligence, improper use, assembly of parts or accessories that are not original, or defective repair or maintenance work. of the bicycle, nonoriginal accessories being fitted to it, or unsuitable maintenance operations or handling.

6) This warranty includes only replacement or repair coverage of the parts under it and in no case shall it cover personal damages directly or indirectly caused by the failure of said parts during use.

7) All claims must be reported to an authorized dealer. In case there is no such a dealer near the buyer's location, please contact Orbea so that we can decide how to solve the problem.

8) In case of crashes, the Orbea warranty shall be considered null and void.

ADDITIONAL INFORMATION

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

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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

AFTER SALES SERVICE

Our service technicians are trained to handle any questions you might have about your Orbea bicycle:

<mailto:Orbea@Orbea.com>

ORBEA