

ORBEA

BLUE PAPERS

OIZ
TECHNICAL MANUAL

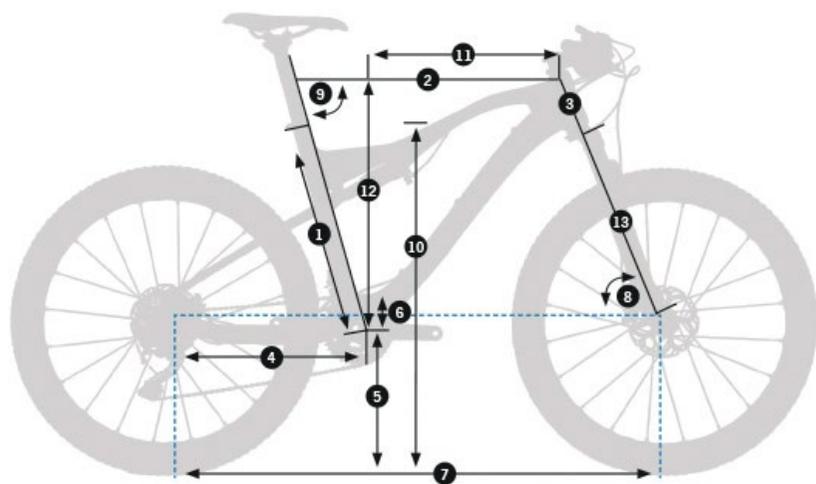
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OIZ

ORBEA

GEOMETRY



DESCRIPTION	SIZES				
	SM (27)	MD (27)	MD (29)	LG (29)	XL (29)
1 - SEAT TUBE (C-T)	406	432	432	470	520
2 - TOP TUBE (EFF)	552	580	589	613	638
3 - HEAD TUBE	100	110	100	110	120
4 - CHAIN STAY	425	425	440	440	440
5 - BB DROP	27	27	45	45	45
6 - BB HEIGHT	325	325	325	325	325
7 - WHEEL BASE	1057	1085	1098	1122	1148
8 - HEAD ANGLE	70	70	70	70	70
9 - SEAT ANGLE	74	74	74	74	74
10 - STANDOVER HEIGHT	701	711	728	748	790
11 - REACH	390	415	417	439	461
12 - STACK	565	574	597	606	616
13 - FORK LENGTH	487,7	487,7	500,8	500,8	500,8
14 - FORK OFFSET – RAKE	44	44	44	44	44

SIZING & ERGONOMY



SIZE	STEM	HANDLEBAR	CRANK
LG (29)	90	700	175
MD (27)	70	700	175
MD (29)	70	700	175
SM (27)	70	700	170
XL (29)	110	700	175

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

* Estimated measurements.

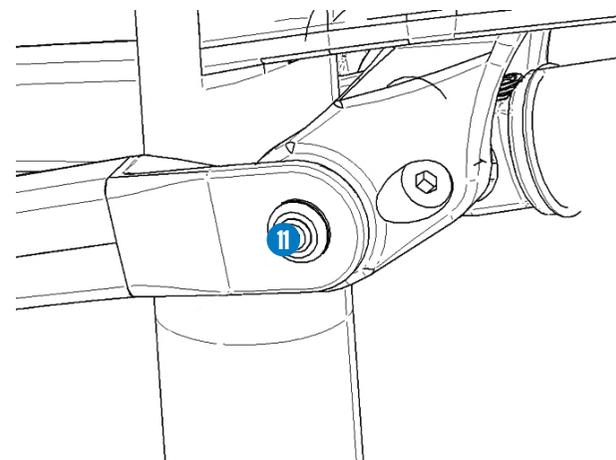
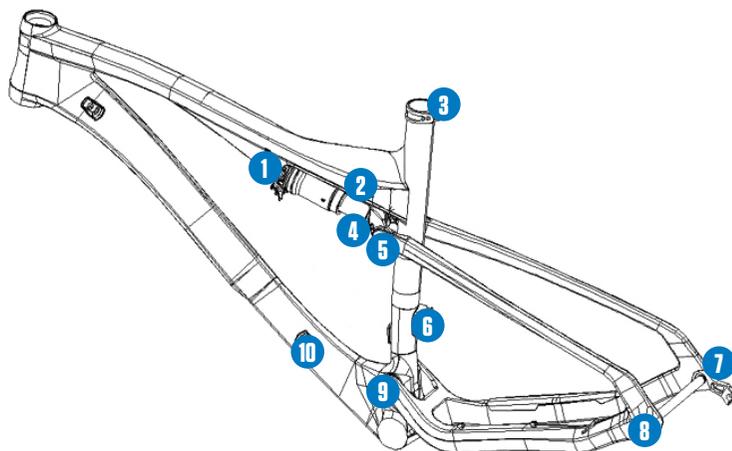
CHARACTERISTICS

HEADTUBE	1" 1/8 - 1" 1/5
BB	PF92
FRONT DERAILLEUR	DIRECT MOUNT, REMOVABLE
FRONT DERAILLEUR TP/DP	SIDESWING
FD ANGLE	69°
SEAT POST DIAMETER	31,6 MM
SEAT CLAMP	37 MM
DROPOUT	OIZ 2014 (COMPATIBLE ALMA 2014)
CHAINSTAY PROTECTOR	RUBBER, SAME AS OIZ 2013
OTHER PROTECTORS	DT TRANSPARENT PROTECTOR
CABLE TYPE	DCR RD, FULL HOUSING FD
REAR HUB LENGTH	148X12 MM

OPTIONS

BRAKE	V-BRAKE	NO
	DISC BRAKE	ONLY
	REAR BRAKE IS/PM+DIAMETER DISC	160
	CALIPER BRAKE	NO
ACCESSORIES	BAG OPTION IN TOP TUBE	NO
	BOTTLE CAGE	NO
	REAR RACK	NO
	MUDGUARD OPTION	NO
	KICKSTAND	NO
GEARS	11 SPEED	XX1/XX0
	DOUBLE CRANK	YES
	COMPACT CRANK (34X50T) (ROAD)	-
	TRIPLE CRANK	YES
TYRES	MAXIMUM 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



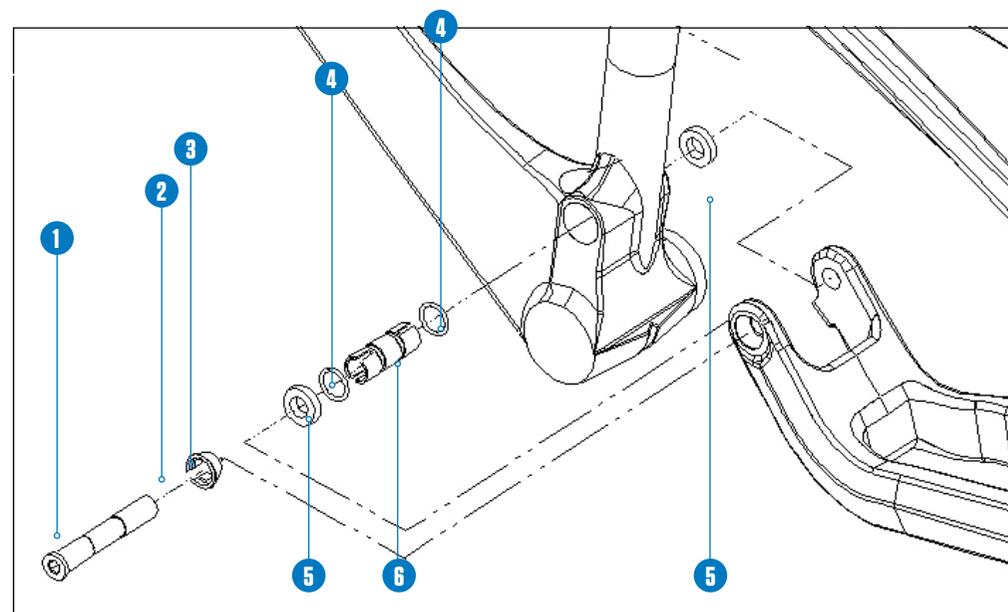
FASTENER	REQUIRED TOOLS	TORQUE	NOTE
1	4 MM HEX X 10 MM WRENCH	5 NM ON NUT	DO NOT USE HEX KEY TO TIGHTEN, JUST TO HOLD THE BOLT STILL WHILE THE TORQUE IS APPLIED ON THE NUT
2	2 X 4 MM HEX ALLEN	7 NM	
3	4 MM HEX	5 NM ON NUT	
4	5 MM HEX	6 NM	
5	5 MM HEX X 10 MM WRENCH	5 NM ON NUT	DO NOT USE HEX KEY TO TIGHTEN, JUST TO HOLD THE BOLT STILL WHILE THE TORQUE IS APPLIED ON THE NUT
6	3 MM HEX	5 NM	
7	6 MM HEX	15 NM	
8	6 MM HEX	20 NM	
9	5 MM HEX	15 NM	
10	2,5 MM HEX	2 NM	
11	2,5 MM HEX	1 NM	

PARTS & HARDWARE

OIZ FRAME PARTS 1

1. FRAME		Code: 16100309
Number	Name/Description	
1	MAIN PIVOT AXLE	
2	BRAKE HOSE MAIN PIVOT GUIDE	
3	MAIN PIVOT FIXING CONE	
4	OMAIN PIVOT BEARING SPACER O-RING	
6	MAIN PIVOT BEARING SPACER	

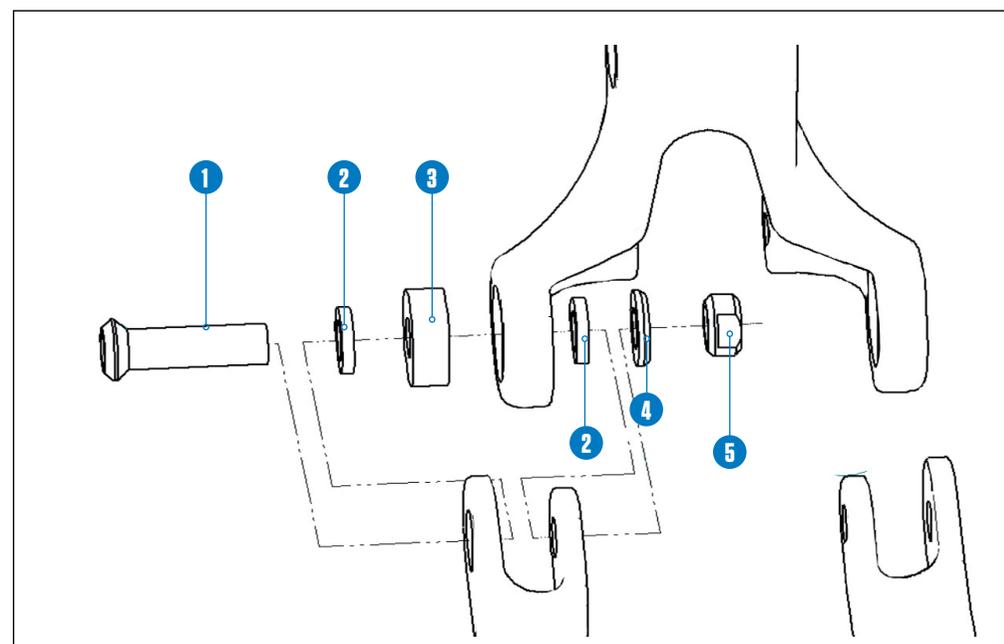
MAIN PIVOT BEARING KIT		CODE: Y0000153
Number	Description	
5	Bearing 6801 (x2)	



PARTS & HARDWARE

OIZ FRAME PARTS 2

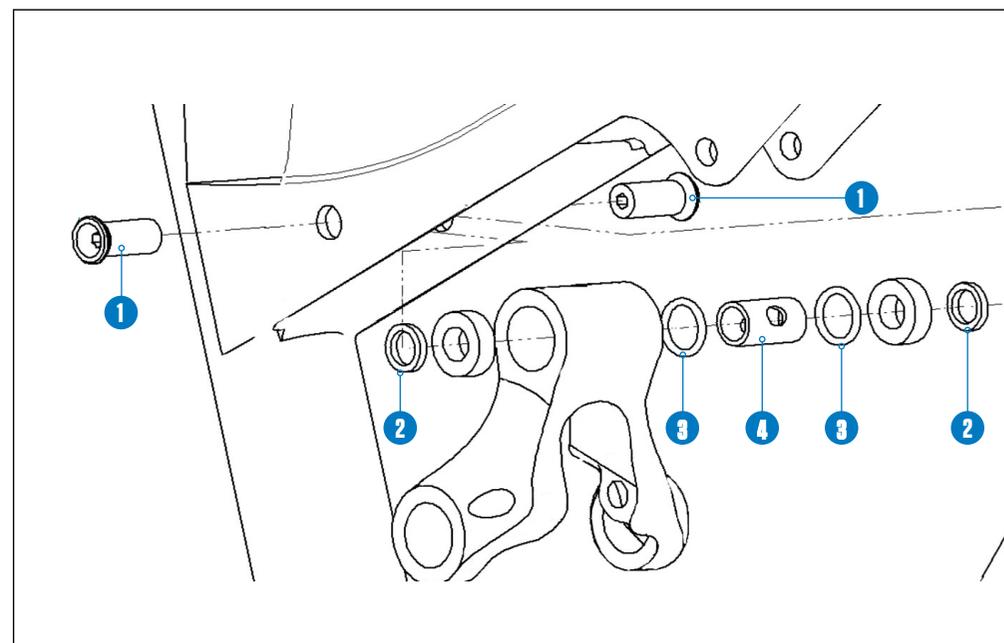
SWINGARM BEARING KITS	Code	16100310
Number	Name/Description	
1	SEATSTAY PIVOT BOLT	
2	SEATSTAY PIVOT SPACER	
3	Y0000174	
4	SEATSTAY PIVOT WASHER	
5	SEATSTAY PIVOT NUT	



PARTS & HARDWARE

OIZ FRAME PARTS 3

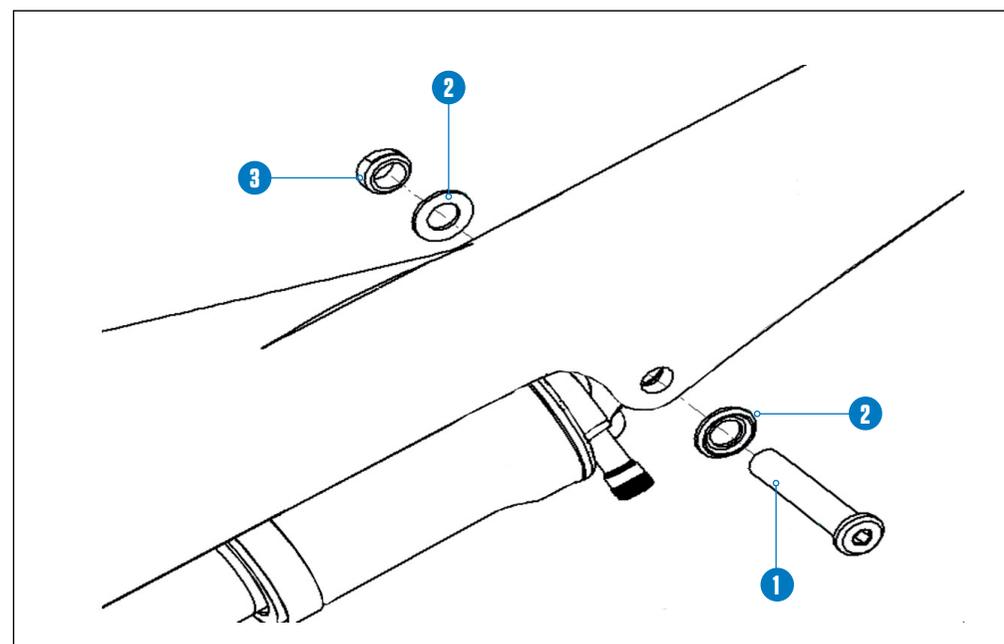
LINK ASSEMBLY KITS	Code 16100311
Number	Name/Description
1	LINK FIXED PIVOT BOLT
2	LINK FIXED PIVOT SPACER
4	LINK FIXED PIVOT BEARING SPACER O-RING
5	LINK FIXED PIVOT BEARING SPACER



PARTS & HARDWARE

OIZ FRAME PARTS 4

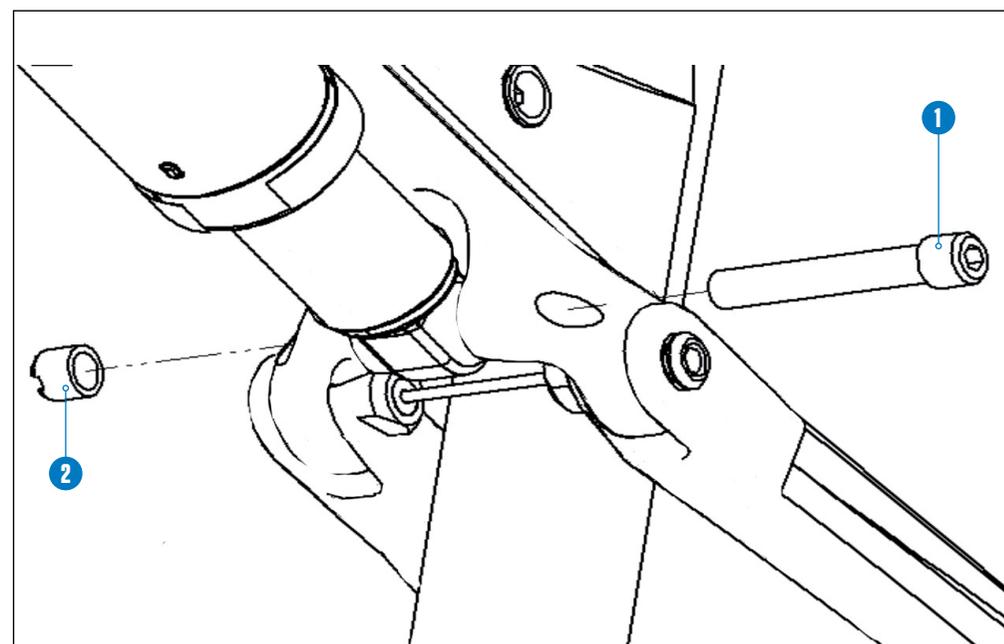
FORWARD SHOCK MOUNT		Code	16100312
Number	Name/Description		
1	SHOCK UPPER PIVOT BOLT		
2	SHOCK UPPER PIVOT WASHER		
3	SHOCK UPPER PIVOT NUT		



PARTS & HARDWARE

OIZ FRAME PARTS 5

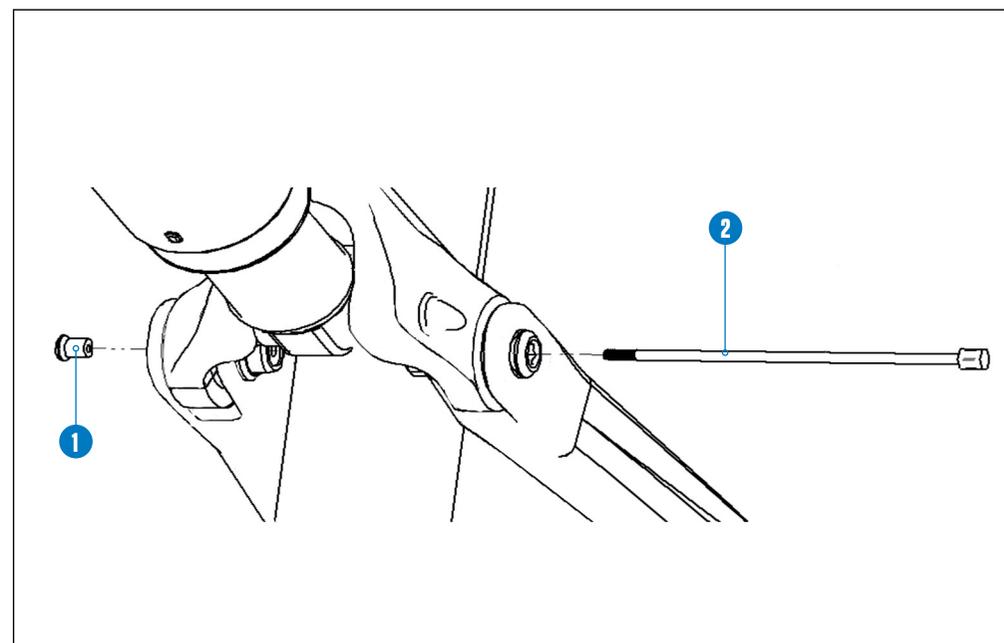
REARWARD SHOCK MOUNT	Code	16100012
Number	Name/Description	
1	SHOCK LINK PIVOT BOLT	
2	SHOCK LINK PIVOT NUT	



PARTS & HARDWARE

OIZ FRAME PARTS 6

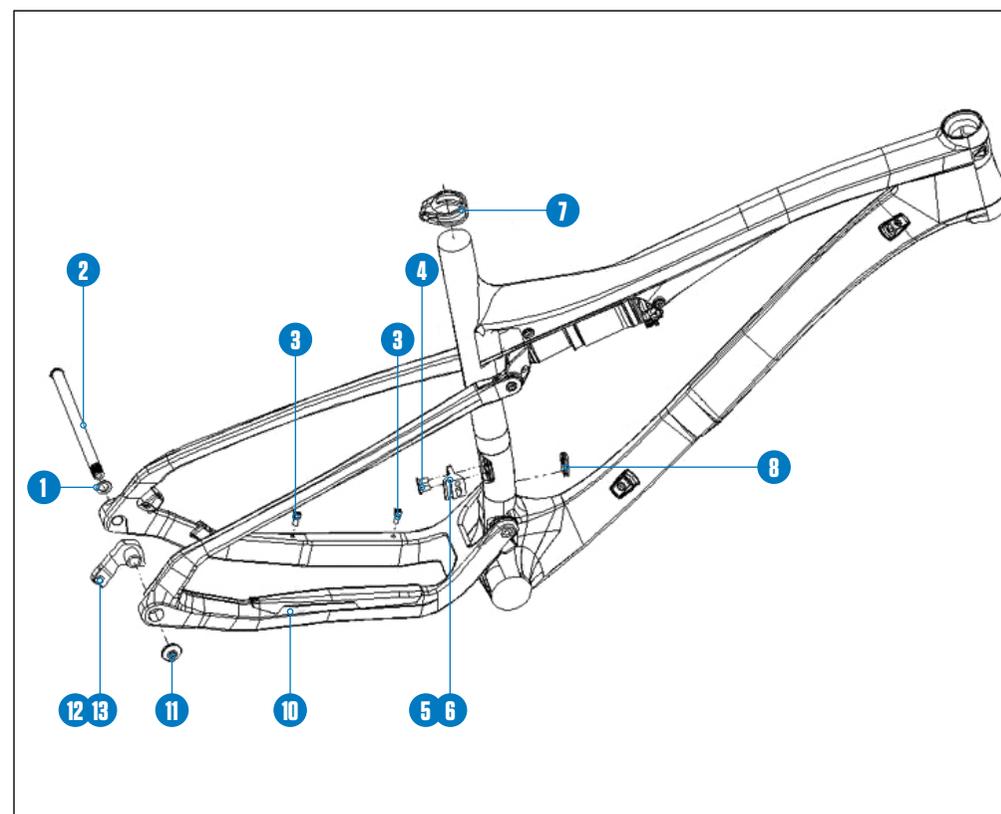
TENSEGRITY ASSEMBLY		Code	16100011
Number	Name/Description		
1	TENSIONER BOLT		
2	TENSIONER NUT		



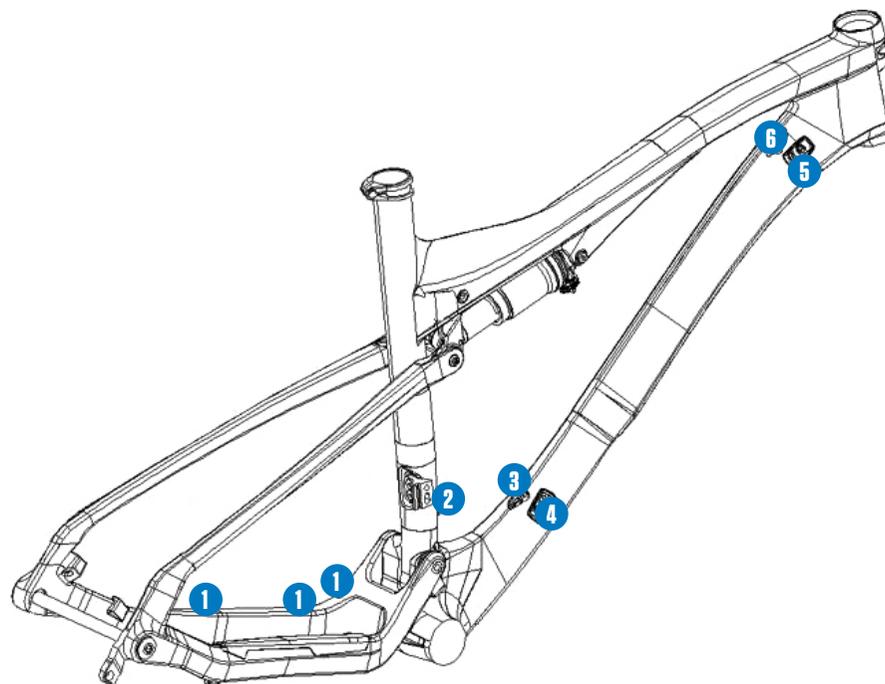
PARTS & HARDWARE

OIZ FRAME PARTS 7

1. FRAME		
Number	Name/Description	Code
1	AXLE WASHER	12320004
2	REAR WHEEL AXLE	11100055
3	THREADED GUIDE	11001172
4	FD MOUNT BOLTS M5X12 DIN7991	12309056
5	FD ADAPTER	11200250
6	FD ADAPTER	11200256
7	SEAT CLAMP	11160003
8	DROPPER POST CAP	11001170
9	DT PROTECTOR (TRANSPARENT)	11000271
10	CHAINSTAY PROTECTOR	11000272
11	HANGER BOLT	12300022
12	STANDARD HANGER	15430160
13	SHIMANO DIRECT MOUNT HANGER	15430161

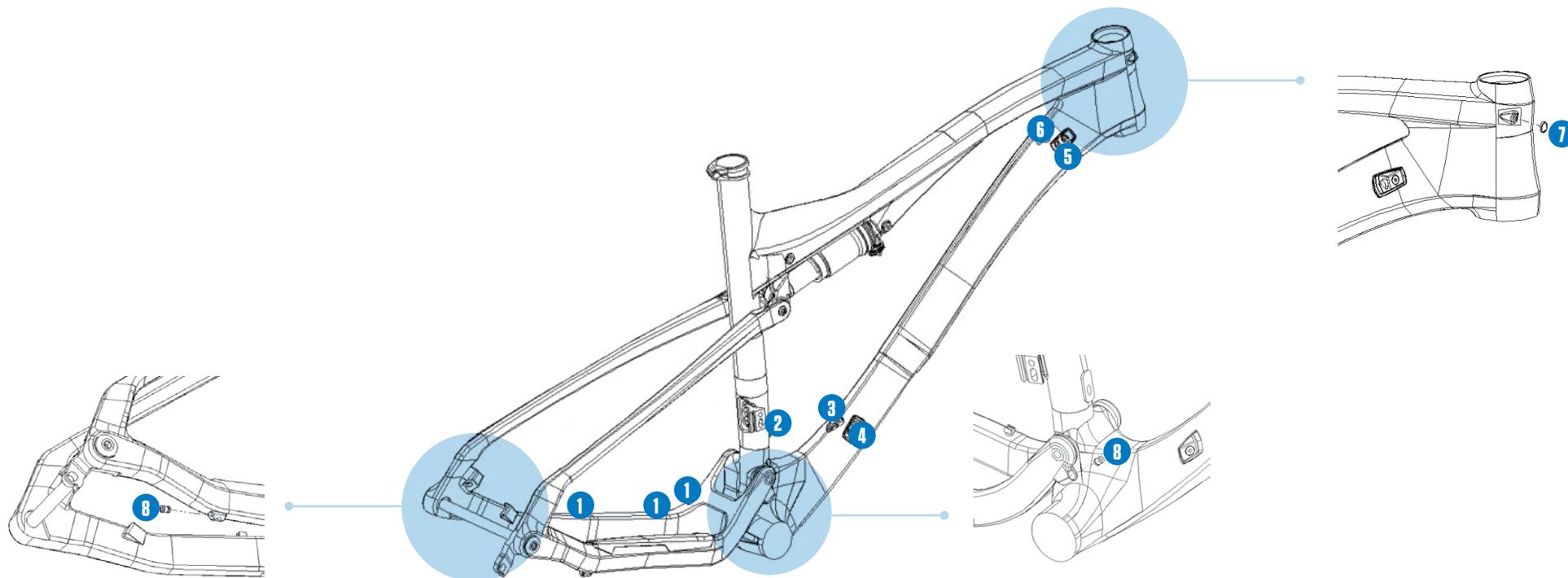


CABLE ROUTING



MECHANICAL				
	2X	2X with dropper post	1X	1X with dropper post
1	11001172	11001172	11001172	11001172
2	11001170	11001170	11001170	11069032
3	11200253	11200251	11200253	11200251
4	11200252	11200252	11200252	11200252
5	11200253	11200253	11200254	11200253
6	11200253	11200253	11200253	11200251

CABLE ROUTING



	ELECTRONIC			
	Di2	Di2 and iDC	Di2 with dropper post	Di2 and iDC with dropper post
1	11001172	11001172	11001172	11001172
2	11200253	11200253	11200251	11200251
3	11200254	11200254	11200254	11200254
4	11200254	11200254	11200254	11200254
5	11200253	11200253	11200251	11200251
6	11001123	11001123	11001123	11001123
7	11001147	11001147	11001147	11001147

SHOCK PRESURE CHART

27			29	
Rider weight (kg)	Pressure (psi)	Rebound clicks (counting from completely open)	Pressure (psi)	Rebound clicks (counting from completely open)
60	105	4	100	3
65	115	5	110	4
70	125	6	120	5
75	135	7	130	6
80	145	8	140	7
85	155	9	150	8
90	165	10	160	9
95	175	11	170	10
100	185	12	180	11

FRAME AND MATERIAL

Orbea frames are designed to be durable, efficient, and easy to maintain. With only a minimum amount of maintenance, it's easy to keep your Oiz in top condition.

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.

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.

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

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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