BUE PAPERS

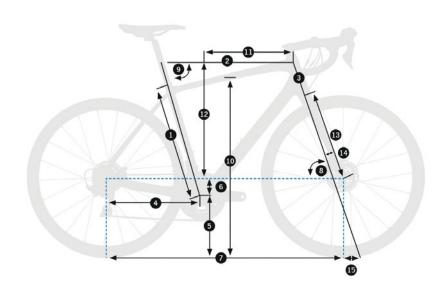
AVANT OMPTECHNICAL MANUAL

CONTENT

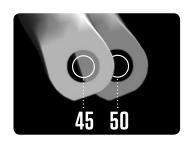
GEOMETRY	
ERGONOMY	
SPECIFICATIONS	
FRAME AND MATERIAL	
PARTS & HARDWARE	
CABLE ROUTING	
TORQUE SPECIFICATIONS	

AVANT OMP

GEOMETRY



SIZES	47	49	51	53	55	57	60
1 - Seat Tube (C-T)	410	440	470	490	510	530	560
2 - Top Tube (EFF)	507	520	533	547	559	578	592
3 - Head Tube	108	121	138	158	181	200	221
4 - Chainstay	415	415	415	415	415	415	415
5 - BB Height	270	270	270	272	272	272	272
6 - BB Drop	75	75	75	73	73	73	73
7 - Wheelbase	978	979	989	992	1002	1013	1025
8 - Head Angle	71°	71,5°	71,9°	72,4°	72,6°	72,8°	73°
9 - Seat Angle	74,5°	74°	73,75°	73,5°	73,5°	73°	73°
10 - Standover	726	750	772	793	814	832	857
11 - Reach	365	368	372	378	383	390	398
12 - Stack	520	535	553	572	595	614	635
13 - Fork Length	380	380	380	380	380	380	380
14 - RAKE	50	50	50	45	45	45	45



ERGONOMY



SIZE	CRANK	HANDLEBAR	STEM
47	170	400	90
49	170	400	100
51	170	420	100
53	172.5	420	110
55	172.5	420	110
57	172.5	440	110
60	175	440	120

HEIGHT (cm)	HEIGHT (in)	SIZE
155-160	61-63	47
160-166	63-65	49
67-172	66-68	51
173-179	68-70	53
180-185	68-70	55
186-191	73-75	57
192-207	76-81	60



SPECIFICATIONS

	AVANT DISC BRAKE	AVANT RIM BRAKE	AVANT HYDRO	
BOTTOM BRACKET	BB386 PRESS FIT	BB86 PRESS FIT		
CHAINGUIDE MOUNT	PROPRIETARY CHAIN WATCHER FOR DOUBLE CHAINRING SETUPS	NA	NA	
SEAT POST DIAMETER	Ø 27.2MM			
SEAT COLLAR DIAMETER	Ø 31.8MM			
FRONT DERAILLEUR MOUNT	BRAZE O	CLAMP-ON TYPE		
HEADSET TYPE	INTEGRATED STYLE HEADSET, 41,8MM UPPER, 51,8MM LOWER ABC, CANE CREEK STANDARD DESCRIPTION: IS42/28.6, IS52/40			
FORK STEERER TUBE	TAPERED 1-1/8" x 1-1/2"			
FORK SPACING	THRU AXLE 100MM x 12MM 100MM x QR			
FORK BRAKE MOUNT	FLAT OR POST MOUNT ADAPTER COMPATIBLE - MAX 160MM ROTOR RIM CALIPER			
REAR SPACING	THROUGH AXLE 142MM x 12MM	12MM x QR		
REAR BRAKE MOUNT	RIM CALIPER			
WATER BOTTLE MOUNTS	(2X) ONE DOWN TUBE AND ONE SEAT TUBE MOUNT			
TIRE SIZE	FITS MOST 28C TIRES (TIRE WIDTH VARIES BY MANUFACTURER AND RIM WIDTH, SOME COMBINATIONS MAY NOT HAVE DESIRED CLEARANCE)			
CRANKSET	DOUBLE CRANKSET - OUTER RING MAX 56T, INNER RING MAX 46T			

FRAME AND MATERIAL

Orbea frames are carefully designed to be durable, efficient, and easy to maintain. Avant tubes are stiff and light, giving excellent steering precision and pedaling efficiency. Avant 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 Avant in top condition.

1) Keep your Avant 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 biodegradeable and do a great job of removing dirty grease from gears and chain.

2) Keep your Avant 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 Avant 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 hOMP that can becOMP 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 guick 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 Avant, 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.

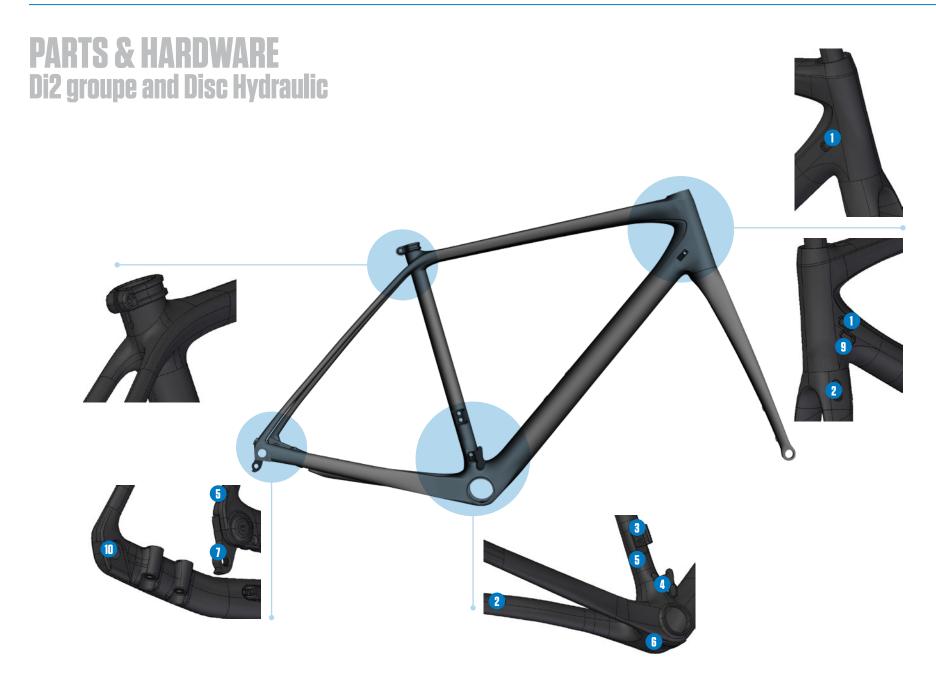
2) Bring your bike to your Orbea dealer for professional inspection. SOMP damage can only be detected by disassembling the bike to check for cracks or other signs of stress.

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.

PARTS & HARDWARE Mechanic groupe and Disc Hydraulic



PART NUMBER	REFERENCE	ORBEA DESCRIPTION
1	11000432	MECHANICAL CABLE GUIDE
2	16100127	Di2 CABLE GUIDE
3	11200700	FRONT DERAILLEUR HANGER
4	11250500	CHAIN DROP PROTECTOR
5	16100123	DI2 PORT COVER
6	11200701	BOTTOM BRACKET CABLE GUIDE
7	15430250	THROUGH AXLE REAR DERAILLEUR HANGER
8	11160734	SEAT POST CLAMP
9	16100119	SEAT STAY REAR DERAILLEUR HOUSING STOP
9a	15430088	SHOULD NOT BE INCLUDED WITH THE DISC FRAME PARTS LIST. THIS IS THE NON-DISC DERAILLEUR HANGER
10	11100085	FRONT THROUGH AXLE 12MM X 100MM
10a	12320004	12MM AXLE WASHER
11	11100085	REAR THROUGH AXLE 12MM X 142MM

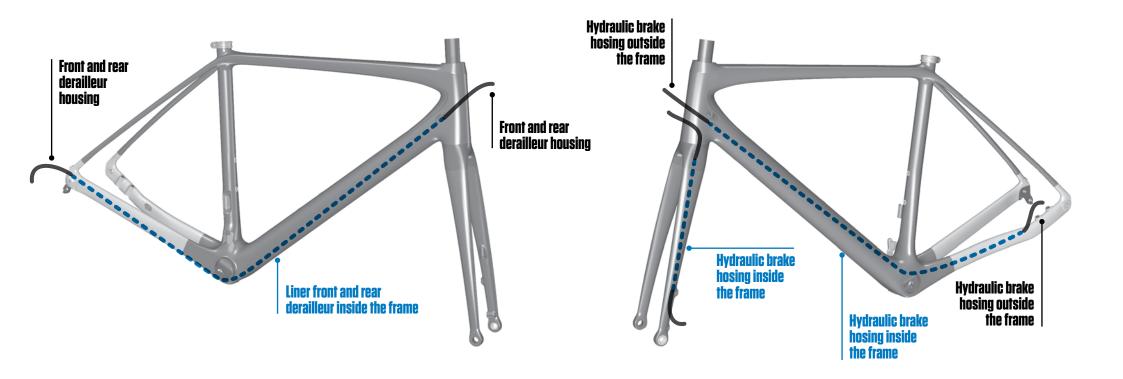


PARTS & HARDWARE Di2 groupe and Disc Hydraulic



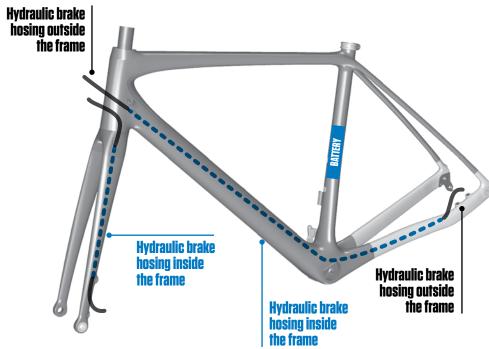
PART NUMBER	REFERENCE	ORBEA DESCRIPTION
1	11000431	DOWN TUBE PORT COVER
2	16100127	Di2 CABLE GUIDE
3	11200700	FRONT DERAILLEUR HANGER
4	11250500	CHAIN DROP PROTECTOR
5	11001123	Di2 RUBBER GROMMET
6	11200701	BOTTOM BRACKET CABLE GUIDE
7	15430250	THROUGH AXLE REAR DERAILLEUR HANGER
8	11160734	SEAT POST CLAMP
9	11000430	TOP DIAGONAL TUBE PLASTIC "CLIP"- DI2+HYDRAULIC
10	11100085	FRONT THROUGH AXLE 12MM X 100MM
10a	12320004	12MM AXLE WASHER
11	11100185	REAR THROUGH AXLE 12MM X 142MM

CABLE ROUTINGMechanic groupe and Disc Hydarulic



CABLE ROUTINGDi2 groupe and Disc Hydraulic







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 wecan 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 highend 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 ofparts 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:



www.facebook.com/OrbeaBicycles



www.twitter.com/Orbea/



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

www.youtube.com/user/OrbeaBicycles



www.instagram.com/orbeabicycles

ORBEA CONTENT

View and download photos, videos and documents.

content.orbea.com/us-en/

ORBEA UNIVERSITY

www.orbea.com/es-es/university/

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

AFTER SALES SERVICE

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

mailto:Orbea@Orbea.com

