ORBEA

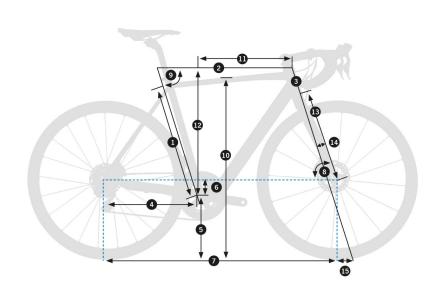
BLUE PAPERS

GAIN
TECHNICAL MANUAL

CONTENT

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GEOMETRY



SIZE	XS	S	M	1	XL
1 - SEAT TUBE (C-T)	460	510	555	585	610
2 - TOP TUBE (EFF)	522	546	560	574	595
3 - HEAD TUBE	109	127	150	176	203
4 - CHAINSTAY	430	430	430	430	430
5 - BB HEIGHT	281	281	283	283	285
6 - BB DROP	70	70	68	68	66
7 - WHEELBASE	1016	1022	1037	1051	1067
8 - HEAD ANGLE	71	72	72	72	72,3
9 - SEAT ANGLE	75	74	74	74	73,5
10 - STANDOVER	754	782	815	829	876
11 - REACH	378	387	395	402	410
12 - STACK	535	555	575	600	625
13 - FORK LENGTH	400	400	400	400	400
RAKE	51	51	51	51	51
WHEEL SIZE	683	683	683	683	683

ERGONOMY



Photo for reference purposes only. Individual components may not correspond with the final assembly

SIZE	CRANK	STEM	HANDLEBAR
XS	170	90	400
S	170	100	420
M	170	100	420
L	172	110	440
XL	175	120	440

^{*} The handlebar size is centre-centre.

HEIGHT (cm)	HEIGHT (in)	SIZE
<160		XS
160-170		S
170-180		M
180-190		L
>190		XL

^{*} Estimated measurements.

CHARACTERISTICS

DIRECTION	1" 1/6 SEMI-INTEGRATED
BB	BB68 THREADED
FRONT DERAILLEUR	C/CLAMP Ø31,8
FRONT DERAILLEUR TP/DP	DP
FD ANGLE	63°- 66°
SEAT POST DIAMETER	DIAM 27, 2 MM
SEAT CLAMP	INTERNAL DIAM 31,8 MM
DROPOUT	ALL ROAD E-BIKE
CHAINSTAY PROTECTOR	11160033
OTHER PROTECTORS	NO
CABLE TYPE	ESTANDAR/EBIKEMOTION
REAR HUB LENGHT	135 MM.

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OPTIONS

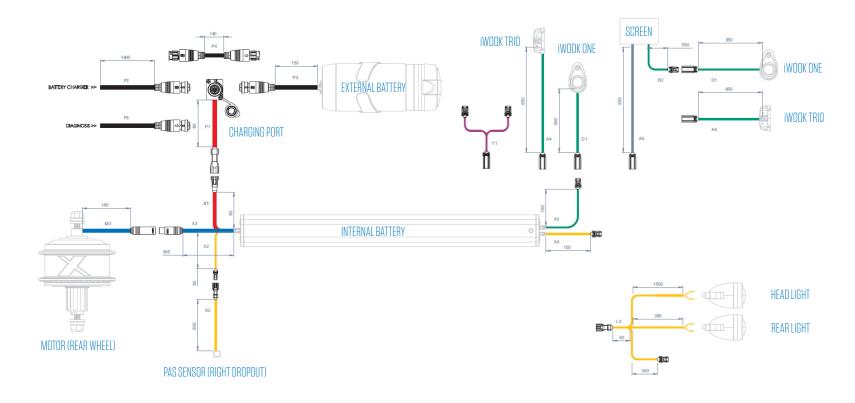
	V-BRAKE	NO
DDAVE	DISC BRAKE	YES
BRAKE	REAR BRAKE IS/PM+DIAMETER DISC	FLAT MOUNT 140/160 DEL/TRAS (POST MOUNT C/ADAPTADOR)
	CALIPER BRAKE	NO
	BAG OPTION IN TOP TUBE	NO
	BOTTLE CAGE	DT AND ST [ALL SIZES)
LUCCACE	OPTION AERO AND STANDARD BOTTLE	NO
LUGGAGE	REAR LUGGAGE OPTION	YES
	MUDGUARD OPTION	YES
	KICKSTAND	NO
	11 SPEED	YES
GEARS	DOUBLE CRANK	SI (MAXIMUN BIG CHAINRING 53, MAXIMUM SMALL RING 46)
DEARO	COMPACT CRANK (34X50T) (ROAD)	YES
	TRIPLE CRANK	NO
WHEELS	MAXIMUM SIZE	700
TYRES	MAXIMUM SIZE	700X40C
	MECHANICAL SYSTEM (W/INTERNAL CABLE ROUTING)	CABLEADO INTERNO EN TI
CADLE DOLLTING	ELECTRONIC DI2 SYSTEM (W/INTERNAL CABLE ROUTING)	NO
CABLE ROUTING	EXTERNAL SHIMANO BATTERY (IN LEFT CHAINSTAY)	NO
	CAMPAGNOLO EPS	NO
POWER METERS	SRAM QUARK	NO
OTHERS	UCI	NO

OPTIONSGroupsets

RO	AD	
SHIMANO		
SHIMANO DI2	NO	
SHIMANO DI2 DISC	NO	
SRAM		
SRAM DISC	YES (WITH DROPOUTS MODIFIED IN 57°)	

PARTS & HARDWARE

X35 of eBIKEMOTION



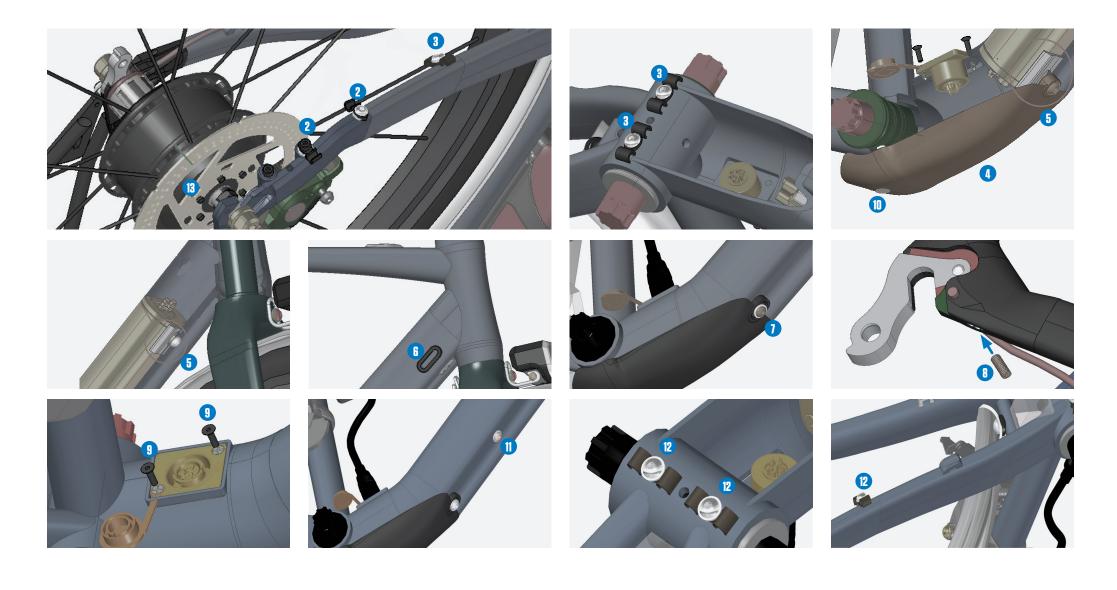
ORBEA DESCRIPTION
X35 BATTERY
CHARGING PORT AND CONNECTION
CHARGING PORT TO BATTERY CONNECTION
BATTERY CHARGING CABLE
DIAGNOSIS CABLE
X35 EX WIRE

PART NUMBER	ORBEA DESCRIPTION	
P3	EXTERNAL BATTERY	
X3	BATTERY TO MOTOR CONNECTION	
• M3	BATTERY CONNECTION CABLE AND MOTOR	
X2	BATTERY CONNECTION CABLE TO SENSOR	
S2	SPEED SENSOR CONNECTION	

PART NUMBER	ORBEA DESCRIPTION	
• D1	IWOK ONE START BUTTON AND CABLE	
• X5	IWOK ONE START BUTTON TO BATTERY CABLE	
• A4	IWOK TRIO START BUTTON AND CABLE	
• A5	SCREEN CABLE	
• Y1	"Y" CONNECTION FOR IWOK TRIO AND IWOK ONE	

PARTS & HARDWARE

VARIOUS & CAPS



PARTS & HARDWARE

VARIOUS & CAPS

















































PART NUMBER	REFERENCE	ORBEA DESCRIPTION
1	15430168	DROPOUT GAIN 2018
2	11001181	CABLE CLIP 5,5 FOR 1 CABLE
3	11001182	CABLE CLIP 5,5 FOR 2 CABLES
4	11000405	BOTTOM COVER GAIN
5	11200460	GUIDE FOR BATTERY GAIN
6	11001161	RUBBER CAP 3 MM KEYHOLE 30X10
7	12300019	SCREW M5X20 ISO 7380 INOX
8	12301058	SETSCREW M4X10 DIN 916 INOX
9	12309075	SCREW INOX M3X12 DIN 7911 BLACK
10	12300018	COUNTERSINK SCREW M5X25 DIN 7991 INOX
11	12306022	SCREW M5X10 ISO 7380 INOX
12	12301078	SCREW M5X8 ISO 7380 INOX
13	12301087	SCREW M5X6 TORX
14	12321020	WASER M5 DIN 125 INOX
	·	

CABLE ROUTING MECHANICAL

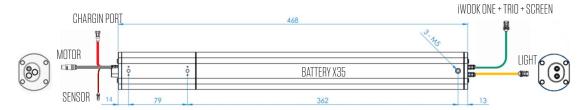


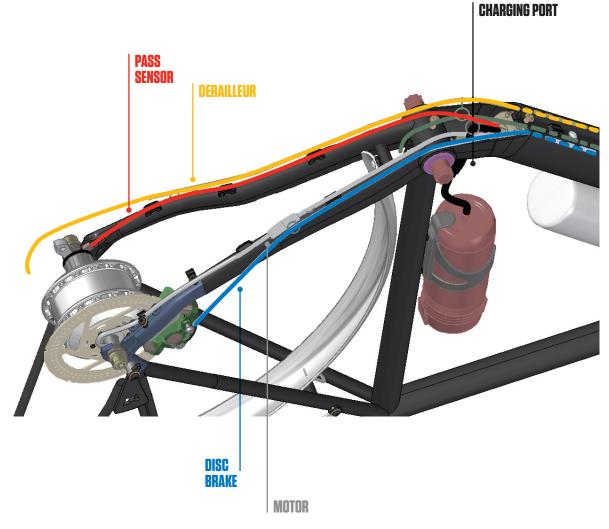
1/ Insertion of the front and rear derailleur.



CABLE ROUTINGX35 SYSTEM

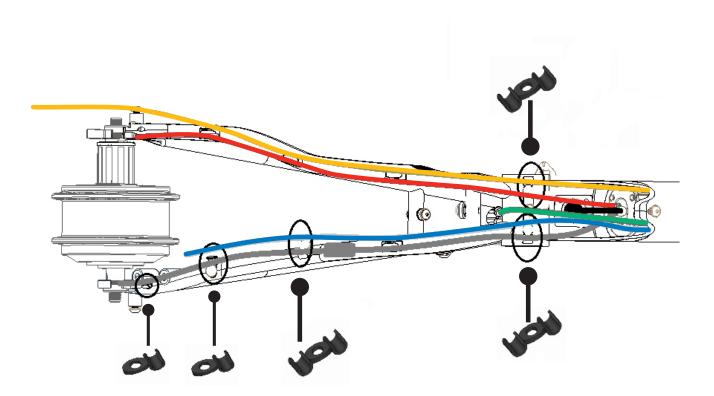






ORBEA (

CABLE ROUTING ON THE BASE



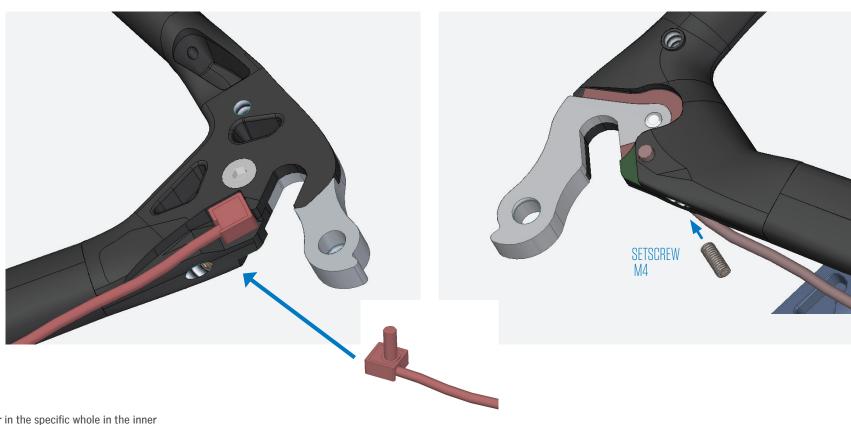
1/ cable clip 5,5 for 2 cables 2-3/ cable clip 5,5 for 1 cable





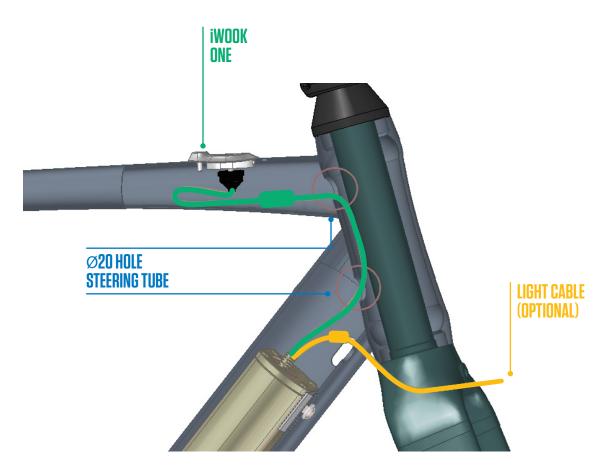


CABLE ROUTING P.A.S SENSOR PLACEMENT



- 1- Place de sensor in the specific whole in the inner side of the drop-out, inserting the pivot it's housing.
- 2- Then, fix it with the setscrew (M4x10)

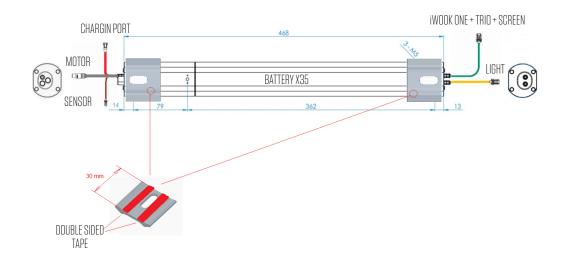
CABLE ROUTING IWOG ONE CABLE ROUTING

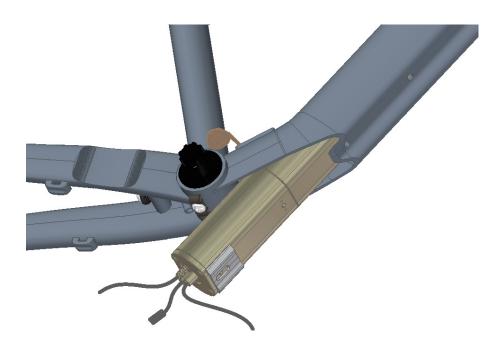




INSTRUCTIONS GUIDE PLACEMENTE IN THE BATTERY

INSTRUCTIONS RATTERY PLACEMENT IN THE FRAME





First, attach the guides in both ends of the battery with the double sided Scotch tape before attaching it to the frame.

Once the guides are attached in the battery, insert it into the frame with 2 cables in one end and 3 in the other (as shown in picture above) until matching the 3 frame holes with the 3 in the battery.

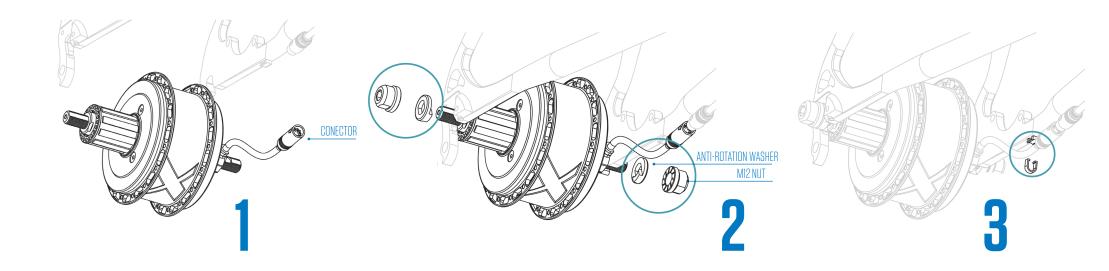
INSTRUCTIONS BATTERY PLACEMENT AND COVER



1/ Secure the battery to the frame by the points A and B with the M5x10 DIN 7380 screws and rout the pertinent cables (derailleurs and disc brake).

2/ Later, fix the bottom cover by the points C and D, using the provided bolts.

INSTRUCTIONS REAR WHEEL ASSEMBLY / DISMANTLING



1/ Place the wheel in the frame, making sure the power cable stays between the chainstay and seat stay (fig.1) for a easy connection later on.

2/ Place the anti-rotation whasers in both axle ends and tighten the M2 nuts with an 8 Allen key at the right torque (Min. 18Nm/ max. 25Nm.)



- THE MOTOR CABLE MUST FACE FORWARD
- · EL CABLE DEL MOTOR DEBE ESTAR ORIENTADO HACIA ADELANTE
- · DAS MOTORKABEL MUSS NACH VORNE ZEIGEN
- · LE CABLE DU MOTEUR DOIT ETRE ORIENTÉ VERS L'AVAN
- · IL CAVO DEL MOTORE DEVE ESSERE ORIENTATO VERSO LA PARTE ANTERIORE
- · O CABO DO MOTOR DEVE ESTAR ORIENTADO PARA A FRENTE

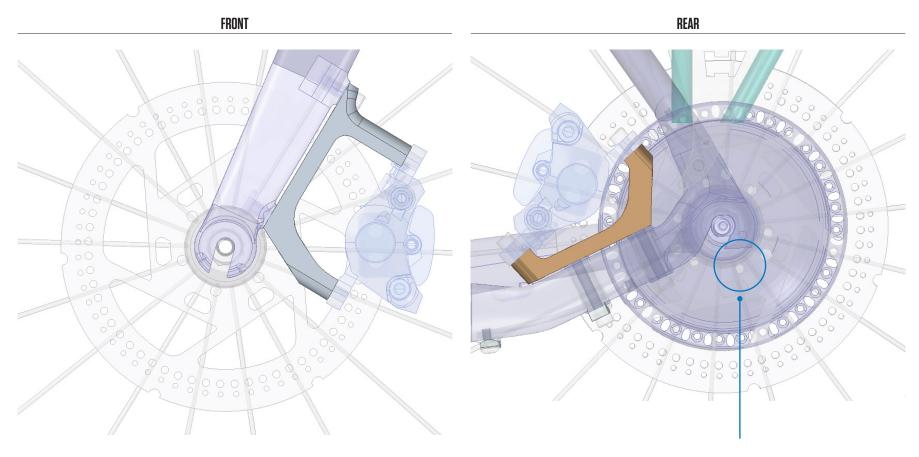






INSTRUCTIONS

FLAT MOUNT-POST MOUNT / REAR DISC INSTALLATION



1/ The rear disc brake must be installed with specific M5x6 TORX screws. (ref. 12301087)

TURNING ON AND OFF THE BICYCLE'S ELECTRICAL SYSTEM



Button Press







Turns off the system

2 CHANGING THE LEVEL OF ASSISTANCE

Short press the button and the RGB LED will blink, indicating the current assistance mode. If you short press it again while the LED is blinking, you will change the assistance level cyclically.



3 TURNING ON/OFF THE LIGHTS

Short press the button and while the LED is blinking, long press the button. The LED will light up in YELLOW to confirm you want to turn on/off the lights.









4 BLUETOOTH PAIRING AND NOTIFICATIONS



When the bicycle is turned on, the system automatically connects to the closest telephone with an activated Bluetooth® connection. The connection or disconnection is confirmed when the LED lights up briefly in BLUE.



If you receive a notification (call, etc.) on your telephone while connected via Bluetooth®, the RBG LED will light up in LIGHT BLUE for a few moments.

SYSTEM ERROR AND SPECIAL MODES



If the RGB LED remains lit in PINK the bike is in SAFE MODE. Take it to your nearest store to diagnose the problem.



If the RBG LED blinks constantly in RED, there is an error in the system. Connect your mobile terminal by Bluetooth® to see a detailed description or visit an authorized store for more information on the error. If the problem is serious, the system may stop providing assistance.

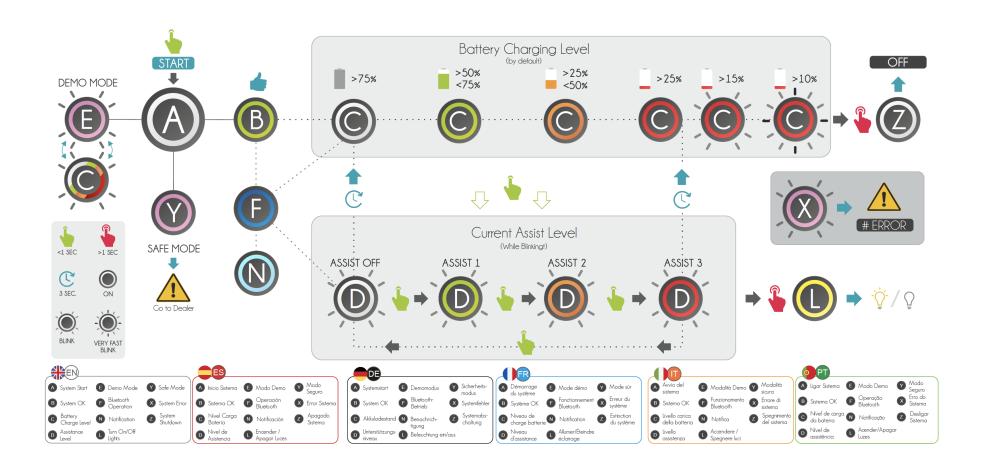


The bicycle is in DEMO MODE and can only be ridden for 50 KM. This mode can only be deactivated by an authorized store. The second blinking in this mode indicates the current battery level.

ORBEA @

IWOK ONE BUTTON

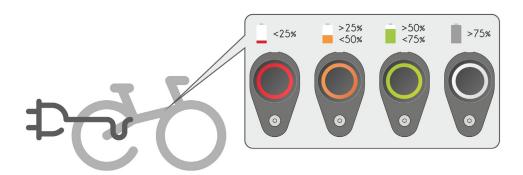
GENERAL LIGHT SCHEME AND MEANING



ORBEA (3

IWOK ONE BUTTON LIGHT SCHEME WHEN CHARGING

Connect the charger first to a power outlet and then to the charging port on the bicycle. The light on the iWoc $^{\circ}$ ONE will turn on automatically. While charging, the intensity of the LED will vary cyclically, indicating by color the current level of battery charge. The battery will be charged (>98%) when the LED remains lit in white.



1 TURNING ON AND OFF THE BICYCLE'S ELECTRICAL SYSTEM











2 CHANGING THE LEVEL OF ASSISTANCE

Short press the button and the RGB LED will blink, indicating the current assistance mode. If you short press it again while the LED is blinking, you will change the assistance level cyclically.



3 TURNING ON/OFF THE LIGHTS

Short press the button and while the LED is blinking, long press the button. The LED will light up in YELLOW to confirm you want to turn on/off the lights.









4 WALK MODE

By pressing and holding down the B button, the LED will flash WHITE, and the bicycle will advance at a constant speed of 5km/h, as long as the button remains depressed.







5 BLUETOOTH PAIRING AND NOTIFICATIONS



When the bicycle is turned on, the system automatically connects to the closest telephone with an activated Bluetooth® connection. The connection or disconnection is confirmed when the LED lights up briefly in



If you receive a notification (call, etc.) on your telephone while connected via Bluetooth®, the RBG LED will light up in LIGHT BLUE for a few moments.

6 SYSTEM ERROR AND SPECIAL MODES



If the RGB LED remains lit in PINK the bike is in SAFE MODE. Take it to your nearest store to diagnose the problem.



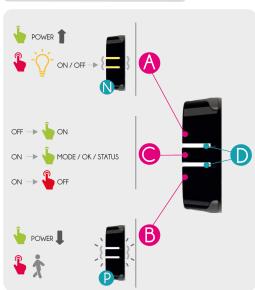
If the RBG LED blinks constantly in RED, there is an error in the system Connect your mobile terminal by Bluetooth® to see a detailed description or visit an authorized store for more information on the error. If the problem is serious, the system may stop providing assistance.

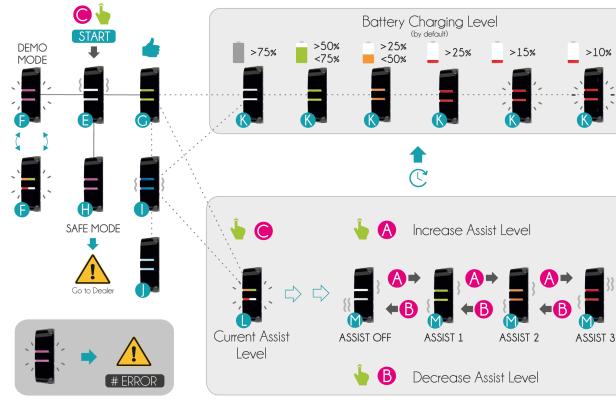


The bicycle is in DEMO MODE and can only be ridden for 50 KM. This mode can only be deactivated by an authorized store. The second blinking in this mode indicates the current

ORBEA 6













B Bouton inférieur

Bouton central

D Led RGB

Démarrage
du système

Mode démo

G Système OK

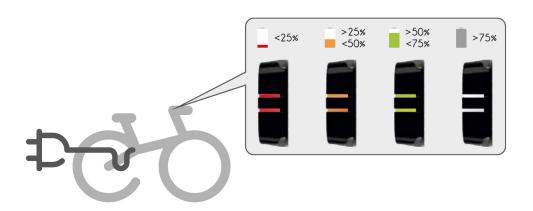
Mode sûr





IWOK TRIO BUTTON LIGHT SCHEME WHEN CHARGING

Connect the charger first to a power outlet and then to the charging port on the bicycle. The light on the iWoc® TRIO will turn on automatically. While charging, the intensity of the LED will vary cyclically, indicating by color the current level of battery charge. The battery will be charged (>98%) when the LED remains lit in white.

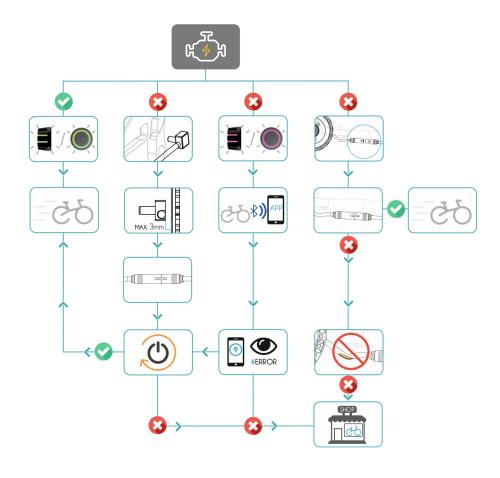


PROTOGOL

1/ START PROTOCOL

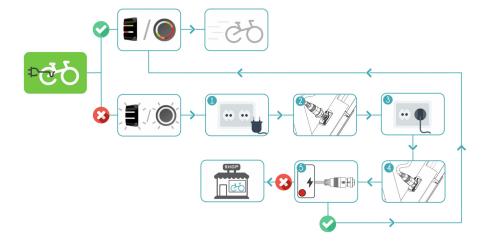
DESCRIPTION OF THE REPORT OF T

2/ MOTOR PROTOCOL

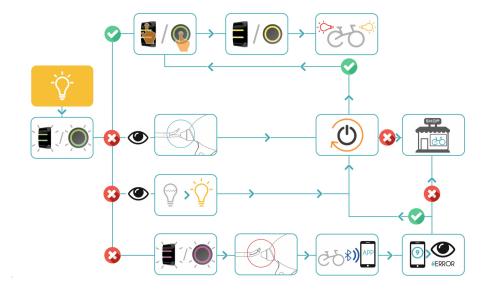


PROTOGOL

1/ CHARGING PROTOCOL



2/ LIGHTS PROTOCOL





SOFTWARE

APP FOR YOUR GAIN (find the manuals in www.ebikemotion.com)



ebikemotion® User Web Dashboard

Login to www.ebikemotion.com to view information on your activities and your bike. You must use the same account created on the ebikemotion® APP on your smartphone. You can see the status of your e-bike, activities, reports, location, report a theft, change owners and consult online manuals.



ebikemotion® App

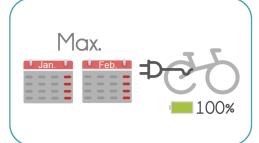
Download the ebikemotion $^{\circ}$ APP to use your compatible smartphone as an advanced interface. Remember to download the maps from your telephone. You'll have three months to download updates after your first download (maximum of 5 maps).

X35 MAINTENANCE

BATTERY, POWER CABLE AND CHARGING

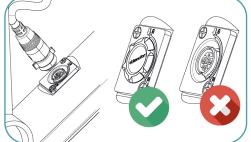




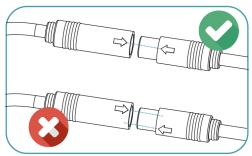


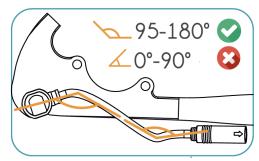




















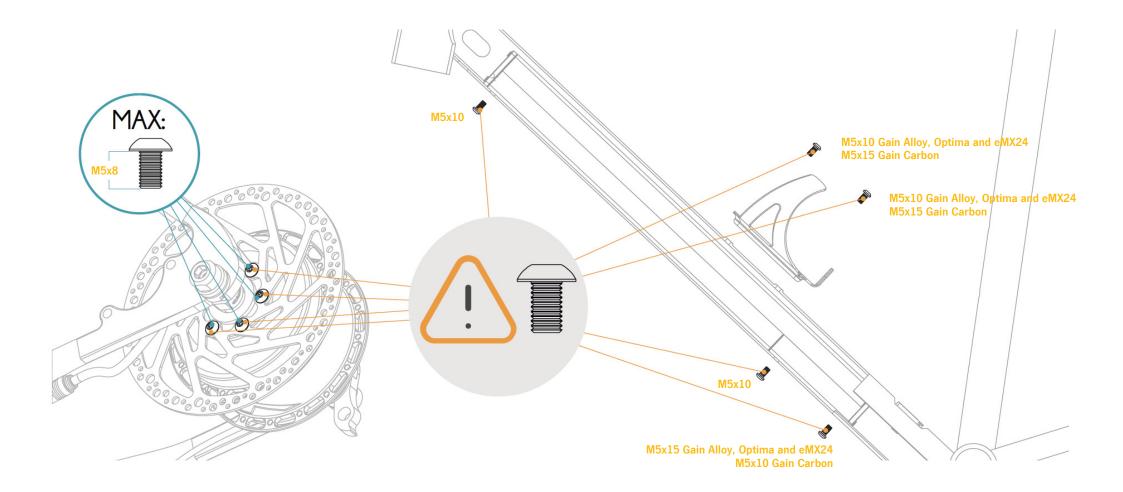




X35 MAINTENANCE

SCREW TYPE FOR BATTERY AND DISCS

Only use the screws provided in order to fix the battery and the bottle cage to the frame and the disc brakes to the motor. The usage of longer screws can damage the components.



FRAME AND MATERIAL

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

1) Keep your Gain 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 Gain 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 Gain before you ride

Do a guick 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 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 Gain, 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.

MAINTENANCE AND PART REPLACEMENT IN OUR ebikes

The components of your eBike are associated with your frame number. If a component is replaced, it must be linked to your bike through a special system available at all technical service centers and shops authorized by your brand. Visit one of these points to complete the purchase and replacement operation. The components of your e-bike are designed to be used in poor weather conditions, such as rain and snow, and are protected against splashing, but not against immersion or pressurized water. It is important when transporting your eBike outside on a car or camper to properly protect the bike, or at least the most delicate electronic parts, such as the remote control, display and USB port, with a tarp. Keep the remote control free of dust and water. Never use pressurized water systems on the surface of the battery, motor, remote control, display or charging port.



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 vour 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:

orbea@orbea.com

