USER MANUAL 2026







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01 INTRODUCTION

This user manual contains important information for proper use and maintenance of the bicycle. In particular, this document contains specific information about ATOM+ NX (EX466, EX456, EX446, EX436). Please read the entire manual carefully. The user manuals of all BH models can be consulted on the website at the following address:

https://www.bhbikes.com/manuals

Keep in mind that the manuals on the BH BIKES website are updated on a regular basis. Make sure you have downloaded the latest version from the website. You can check the version on the front page.

This document contains additional information to the general user manual, available at:

https://www.bhbikes.com/es_INT/quienes-somos/manuales-descargas

You can check the characteristics, recommendations and warranties of third-party parts on their corresponding official websites.

SYMBOLS

This document contains different icons that refer to use, maintenance and assembly warnings. Carefully read the meaning of each one to prevent improper handling or hazardous situations that may result in serious personal injuries or fatal accidents.

SAFETY



DANGER: refers to a hazardous situation that, if not avoided, will lead to serious injuries or even a fatal accident.

- (!) WARNING: refers to a hazardous situation that, if not avoided, could lead to serious injuries or even a fatal accident.
- ! ATTENTION: refers to a hazardous situation that, if not avoided, could cause minor or moderate injuries.
- RISK OF ELECTRIC SHOCK: refers to a hazardous situation that, if not avoided, could cause serious injuries due to electric shock or even death.
- RISK OF SHORT CIRCUIT: refers to a hazardous situation that, if not avoided, could cause short circuits in the electrical components. Short circuits may cause damage to the electrical components and fire.

TOOLS







PHILLIPS SCREWDRIVER

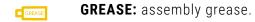


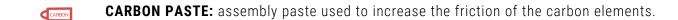
TIGHTENING TORQUES: on one side of each tool symbol, the tightening torque will be indicated in newton metre.

TYPE OF ASSEMBLY COMPOUND



OIL: light lubrication for elements such as chains and cables.







Adhesive is used to fasten bolts and make sure that they do not come loose due to vibrations when using the bicycle. Add a drop of thread lock to the tip of the screw thread in all cases. Never apply more than one drop around the thread, since this will make it very hard to remove the bolt.



02 BH WARRANTY

BH BIKES undertakes to offer long-lasting bicycles, in compliance with the highest standards of quality. Therefore, in addition to the statutory warranty, BH BIKES offers an additional coverage and warranty. This section defines the different types of warranty and the process that must be followed to register for the additional "LifeTime Frame" warranty.

STATUTORY WARRANTY

The statutory warranty covers the original purchaser in the event of manufacturing defects and/or non-conformities. This warranty applies to frames and components manufactured by BH BIKES. The warranty period will be established according to the current laws of the country where the bicycle was purchased, and will start on the date of purchase. During this period, the holder of the warranty will be entitled to have all manufacturing defects repaired or replaced free of charge, including the reimbursement of transport expenses and any losses caused as a result of this. Different conditions must be met in order to be covered by the warranty:

- This warranty does not affect the consumer's applicable rights, according to the current laws in each country.
- · Faulty bicycles or parts will be covered by warranty upon the decision of our Technical Service.
- The warranty does not include the replacement of parts prone to wear and arising from normal use of the bicycle.
- The warranty does not cover defects or broken parts due to improper use of the bicycle, use for competitions, mounting of non-original accessories or improper handling and incorrect maintenance work.
- The warranty does not apply if the inspection before delivery and the corresponding inspection intervals included in this document have not been carried out, observed, documented as required and stamped by an authorised BH dealer.
- Should the repair not be satisfactory and not ensure that the optimum conditions are met according to the intended use, the holder of the warranty will be entitled to request the replacement of the purchased item or faulty part with one of identical characteristics, or to receive a refund of the amount paid for the damaged item or part.
- The warranty period will be interrupted during the repairs or, in the event of replaced items or components, it will be renewed.
- Any claim against this warranty shall expire six months after the end of the warranty validity period.
- All warranty claims must be processed by an authorised dealer.
- Geographical scope: refer to the User Manual or www. BHbikes.com

Visit the following link to read the terms and conditions:

https://www.bhbikes.com/es_ES/registro-garantia/registra-tu-bici-garantia-de-por-vida

LIFETIME FRAME WARRANTY

Through its authorised stores, BH Bikes provides the original buyer with a commercial policy to cover any manufacturing defects in frames for a period beyond that specified in the product's statutory warranty, pursuant to the following clauses:

- 1. The LIFETIME warranty solely applies to BH frames and bikes that are sold through stores that are authorised by BHBIKES EUROPE S.L.
 - The buyer must register the LIFETIME warranty online, with the information duly completed, within 30 calendar days of the purchase date, as it appears on the invoice issued by the authorised store.
 - This warranty cannot be transferred to subsequent buyers and it is cancelled when the bicycle is sold to a third party. Original buyer means the individual who registers the warranty at the time of the purchase; the commercial warranty cannot be transferred to third parties who are not the original buyer.
 - It shall be compulsory to have the bicycle serviced in an establishment that is authorised by BHBIKES EUROPE and according to the instructions in the user manual.

2. The LIFETIME warranty does not cover:

- The rear swingarms of the double suspension models, fork, kids' bikes, defects and/or fading of the original paint, or rust caused by natural deterioration.
- Defects or breakages resulting from an accident or improper and/or negligent use of the bicycle.
- When components or accessories that are not intended for or are not compatible with the use for which the bicycle was designed have been installed.
- Defects resulting from improper handling.
- Scratches, discolouration, or stains caused by the use of abrasive fluids, sharp items, clamps and/or prolonged exposure to sunlight or other weather conditions.
- Defects caused by the bicycle's normal wear and tear, including those due to material fatigue. Fatigue damage is a sign that the frame has been damaged by normal use, so it is the user's responsibility to regularly inspect the bicycle.
- · Improper use and/or maintenance of the product (carefully read the recommendations for use and cleaning).
- Frames that have been used in competitions, demos or as rentals.

Read the full terms and conditions at:

https://www.bhbikes.com/es_ES/registro-garantia/registra-tu-bici-garantia-de-por-vida

REGISTERING EXTENDED WARRANTIES

You must register the bicycle within 30 days after purchase to enjoy the BH BIKES additional warranties. The process to activate the extended warranties is described below:

LIFETIME FRAME WARRANTY

You must register the bicycle on the BH BIKES website to enjoy the LIFETIME FRAME extended warranty:

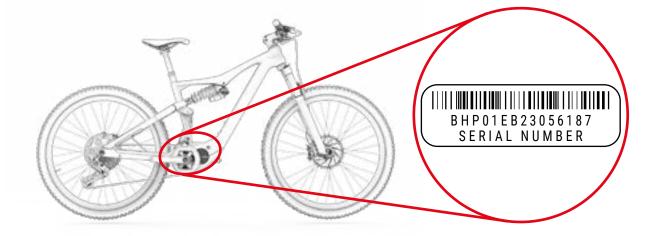
https://www.bhbikes.com/es_ES/registro-garantia/registra-tu-bici-garantia-de-por-vida

Watch this video to find out what you need to do:

https://youtu.be/47aLVgUI248



① The serial number required to register the bicycle is located on the bottom of the bicycle, on the seat tube, above the bottom bracket:



SUBMITTING A WARRANTY CLAIM

All warranty claims must be channelled through an official BH dealer. The dealer will analyse the claim to identify its scope and perform a preliminary assessment of the incident. The dealer will submit and process the claim directly with BH. Once BH has defined the corrective measures required, the dealer will send this information to the customer.

All claims must be processed by the official dealer from which you purchased your bicycle. If this is not possible, please contact us directly. We will help you find an authorised dealer near you:

https://www.bhbikes.com/es_INT/quienes-somos/contacto

CONDITIONS THAT MAY VOID THE WARRANTY OF ELECTRICAL COMPONENTS

The BH battery and electrical components are covered by the statutory warranty, but the following requirements must be met:

- · No electrical components must be removed or tampered with.
- The service life will vary according to the use, charging and storage conditions.
- · Keep the battery charged at all times. Otherwise, the battery may deteriorate faster than normal.

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03 MAINTENANCE

This user manual contains important information for proper use and maintenance of the bicycle. In particular, this document contains specific information about ATOM+ NX (EX466, EX456, EX446, EX436). Please read the entire manual carefully. The user manuals of all BH models can be consulted on the website at the following address:

https://www.bhbikes.com/manuals

This document contains additional information to the general user manual, available at:

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You can check the characteristics and recommendations of third-party parts on their corresponding official websites.

INSPECT THE BICYCLE BEFORE USE

Bicycles are inspected several times throughout the manufacturing process and then at the BH workshop during the final check. As the bicycle's operation may be affected during transport or third parties may have modified the bicycle before its sale, the following must be checked before each trip:

- FRAME: no cracks, damage or strange noises.
- CHAIN: it must be lubricated and the transmission system must not make any strange noises.
- BRAKES: the brakes must be working properly. When stopped, press the brake lever with enough strength and check that it does not touch the handlebars.
- TYRES: the pressure must be correct and there must be no cuts on the tread or on the sides. Also check that the wear level does not exceed the maximum recommended level.
- WHEELS: the wheels must rotate freely in order to check how they rotate. Also check the space between the brake lining and the rim, as well as the space between the frame and tyre.
- STEERING: the steering must turn smoothly and with no strange noises.
- SWINGARM ROTATION POINTS: when weight is exerted on the bicycle, the suspension must work as expected and with no strange noises. If it is not working properly or there is play between the moving parts, this might mean that the tightening torques are incorrect or that the bearings are worn.
- **BEARINGS**: the bearings must work properly and with no strange noises. The bearings are subject to wear and must be replaced to prevent damage to the components on which they are installed.
- **ELECTRICAL SYSTEM:** if the bicycle features an electrical system, check that it is functioning properly by ensuring that the electrical assistance mode is running and that all parts are functioning properly (motor, display, change of assistance mode and speed sensor). If there is no electrical assistance, check that all connections are correct and show no signs of damage.

- ① Do not ride your bicycle if it does not meet any of these points! A faulty bicycle may cause serious accidents! If you are unsure or have any queries, please contact your nearest BH workshop!
- Check the tightening torques to make sure that they are as described in the recommendations in the user manuals. Failure to observe these recommendations may result in accidents and even death.
- The effect of the ground and the forces exerted on the wheel subject the bicycle to a lot of stress. The different parts will be subject to fatigue and wear because of these dynamic loads. Check the bicycle at regular intervals to look for signs of wear, scratches, bent parts, wear on the finish or the formation of cracks. Parts may fail suddenly after their service life has expired. Take your bicycle to an authorised BH workshop regularly to have these parts replaced if needed.

KEEP THE BICYCLE CLEAN

We recommend you follow these basic prevention measures to make sure that the bicycle is in perfect working order. Failure to observe these recommendations may lead to premature wear or even breakages in specific areas, such as gaskets or moving parts.

- · Clean the dust and mud with a damp sponge and a gentle and neutral cleaning product.
- · Plastic parts must only be washed with soapy water.
- · Tyres can be washed with a sponge or brush and soapy water.
- · After cleaning the bicycle, dry it by rubbing it firmly with a smooth cloth.
- After each cleaning, lubricate the transmission elements.
- ⚠ Dirt may cause damage that can result in accidents or even death.
- Never use pressure washers or steam cleaners.

KEEP THE TRANSMISSION LUBRICATED AT ALL TIMES

After washing the bicycle, the chain transmission's lubrication may have also been washed off. Inspect and lubricate the chain's links, if needed. Excess lubrication may attract more dirt, causing premature wear and incorrect functioning of the system.

Never use pressure washers or steam cleaners.

PART MAINTENANCE

The bicycle requires regular maintenance and a minimum number of regular inspections. The frequency of the maintenance operations depends on the type of vehicle (leisure, road or mountain bike), as well as the frequency and conditions of use.

PART MAINTENANCE CALENDAR

Part	Action required	Before each outing	Monthly	Annually
Lighting	Functional check.			
Tyres	Pressure check.			
	Inspect the height of the profile and sides.			
Brakes (on the rim)	Check the lever travel, lining strength and rim position.			
	Brake test when stopped.			
	Clean the brake pads.			
Brake cables	Visual inspection.			
Brakes (disc brakes)	Change the brake fluid (DOT fluid).			
Suspension fork	Check the bolts and the corresponding tightening torque.			
	Change the oil and lubricate the elastomer.			
Saddle seat post with	Maintenance.			
suspension '	Play check.			
Rims on rim brakes	Inspection and replacement, if needed, of the wall linings.	At the latest	after the secon brake lining.	d part of the
Bottom bracket axle	Check the play.			
	Re-lubrication.			
Chain	Check and lubrication.			
	Check and replacement.		After 800 km.	
Chainsets	Check and tightening.			
Wheels / Spokes	Check wheel spin and spoke tension.			
Headset	Inspection of the headset.			
	Re-lubrication.			
Metal surfaces	Maintenance.	At least	once every six	months.
Hubs	Bearing inspection.			
	Re-lubrication.			

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Part	Action required	Before each outing	Monthly	Annually
Pedals	Bearing inspection.			
	Lubrication, cleaning the anchoring mechanism.			
Saddle seat post / Stem	Inspection of the fastening screws.			
Rear derailleur / Derailleur	Cleaning, lubrication.			
Quick-release mechanism / Thru-axle	Efficacy check.			
Nuts and bolts	Check and tightening.			
Spokes	Tension check.			
Stem / Saddle seat post	Removing and applying new assembly paste.			
Circuit / Brakes	Disassembly and greasing.			
Components of the	Check the connections.			
electrical assistance system	Check there is no dirt.			

You do not need to take the bicycle to an expert if you are skilled, experienced and have the appropriate tools. Immediately implement the corrective measures if you detect problems. If you are unsure or have queries, please contact BH.

The tasks described above must only be carried out by a trusted bike repair expert.

SPARE PARTS

Original parts must be used to ensure the optimum performance of your bicycle and the utmost safety. Failure to use original parts may cause damage that is not covered by the warranty.

The most common spare parts are parts prone to wear. The most common ones are tyres, inner tubes, brake pads, disc brakes and brake pads, as well as rims, when these are part of the brake unit, headlights, position lights, batteries and accumulators.

- TYRES: Replace them with an equivalent type of tyre. Check the marking on the outside of the tyre (ETRTO standard). Keep in mind that using a tyre with a larger outer diameter than the recommended one may cause the tip of the foot to touch the front wheel or rear wheel guard when the handlebars turn. The cyclist may lose control of the bicycle and suffer an accident with serious consequences. This can also occur when the pedal chainset is replaced with a longer one.
- INNER TUBES: Replace them with a suitable type of inner tube, according to the type of tyre. Refer to the information on the outside of the inner tube (ETRTO standard).
- DISC BRAKES AND BRAKE PADS: Follow the instructions supplied by the manufacturer.
- **HEADLIGHTS AND POSITION LIGHTS**: Replace the bulb with one of the same type. Check the indication on the metal area.
- CHAIN, COG AND CHAIN RINGS: Follow the instructions supplied by the manufacturer.
- BATTERIES AND ACCUMULATORS: Change for the same type. Check the indication on the outer area.

 \triangle Remember that the failure to use original parts may cause damage that is not covered by the warranty.

AFTER A FALL, BLOW OR IMPACT

If you suffer a fall, blow or impact, first make sure that you are okay to continue cycling. Do not use the bike if you are injured and ask for medical assistance if needed.

If you are okay to continue cycling, check the bicycle to make sure that it is in perfect working order:

• Check that the wheels are firmly secured and that the rims are in the centre of the frame and fork. Turn the wheels. If they cannot be centred in situ because the gap is too small, separate the brakes from the rim so it can move freely.



In this case, keep in mind that the braking efficacy will be less.

- Check whether the handlebars or the front of the frame are twisted or broken. Check that the front is firmly seated on the fork, holding the front wheel firmly between your legs and trying to twist the handlebars with respect to the front wheel.
- Check that the chain is fitted correctly. If the bicycle fell onto the transmission side, check that it is working properly. Ask for help to place the bicycle on its saddle and change gears. When the chain fits on the largest cog, check the distance between the gear and the spokes. If the gear or bracket are bent, the first one may become stuck on the spokes Danger of falling! The gear, rear wheel or frame may be damaged. Check the derailleur. If it has shifted, the chain may come off the gear. The bicycle's transmission will become less effective (also refer to the "Traction" section).
- Check the saddle, upper tube or the bottom bracket box to make sure that there are no defects.
- Lift the bicycle slightly and let it drop onto the ground. If there are any noises, inspect the bicycle for any loose bolts.
- · Inspect the entire bicycle again to check for bent areas, worn finish or cracks.
- Ride again carefully if no problems have been detected during the inspection. Do not brake or accelerate suddenly or pedal when going uphill. If you are unsure, wait for a car to pick you up instead of risking an accident. Once home, you should inspect the bicycle carefully again. If you are still unsure or have any queries, please contact your nearest BH workshop!



Bent aluminium parts must not be straightened, i.e., they must not be repaired. Even afterwards, there is a high risk of breakage, especially in regards to the fork, handlebars, front part, chainsets and pedals. Replace them for greater safety.

03 MAINTENANCE | ATOM+ NX 2026 | V0.0|BH| 8

04 WARNINGS ON USE

MAXIMUM TYRE SIZE

If you install a tyre of a different size on your bicycle, check and make sure that there are at least 6 mm between the tyre and other parts of the frame and fork.

MINIMUM AND MAXIMUM INSERTION LENGTH OF THE SEAT POST

Failure to observe the maximum and minimum seat post insertion dimensions indicated in this manual may cause a lever effect on the frame. The pressure exerted could damage the frame and cause serious accidents. The warranty does not cover the damage generated by failing to observe these indications.

MAXIMUM FORK LENGTH (AXLE-TO-CROWN)

Observe the maximum length between the fork axle and the lower part of the steering tube (axle-to-crown). If this maximum length is not observed, the frame could be damaged due to withstanding a greater load than that for which it was designed and may cause serious accidents.

MAXIMUM NUMBER OF STEERING SPACERS

This manual specifies the maximum number of steering spacers that can be fitted under the stem. If this maximum quantity is not observed, the materials could be damaged due to withstanding a greater load than that for which they were designed and may cause serious accidents.

POSITION OF THE SPINDLE INSIDE THE FORK TUBE

No steering spacers must be fitted above the stem. Otherwise, the materials could be damaged due to withstanding a greater load than that for which they were designed and may cause serious accidents.

INTENDED USE

Each bicycle has been designed according to a specific intended use. The models described in this manual meet the requirements associated with their intended use:

EX436, EX446: Hibrid use.

EX456, EX466: Urban use.

05 WARNING ON USE OF THE ELECTRICAL ASSISTANCE SYSTEM

CARE AND INSTRUCTIONS FOR USE OF THE ELECTRICAL COMPONENTS AND BATTERIES

All BH products and parts have been designed to withstand splashed liquids and rain. However, some practices may cause damage to the parts and short circuits. Do not do the following:

- · Wash the bicycle with pressure devices.
- Use the bicycle under adverse weather conditions.
- · Transport the bicycle on the outside of a vehicle when it is raining.
- Expose the batteries to very high temperatures. If the temperature exceeds 70°C, this could cause leaks and there could be a risk of fire.
- Fail to observe the working temperature, storage and charging range of the bicycle.

RECOMMENDATIONS TO MAXIMISE THE BATTERY LIFE

We recommend the following to maximise the battery life:

- · Charge it on a flat and stable surface.
- · Make sure that it is not exposed to direct sunlight.
- Make sure that there are no children or pets near.
- · Make sure that there is no rain or dampness.
- The place must be well ventilated and dry.
- The temperature must be between 15-25°C.
- Do not use the battery with a charge of less than 10%. The useful life of the cells may be affected below this charge level.



Any unauthorised handling of the electrical system's components may cause serious accidents and will void the warranty.

04 Warnings on use | **V**0.0|BH|9

WARNINGS ON THE USE OF BATTERIES

Improper use of the batteries may cause damage and serious accidents. Follow these recommendations to prevent this:

- Always use the original battery charger.
- · Never leave the battery near sources of heat.
- Do not heat the battery or throw it into a fire.
- Prevent the battery connections from coming into contact with metal objects.
- Do not submerge the battery in water and prevent splashes and dampness.
- Do not hit or drill holes into the battery.
- Make sure that the battery liquid does not touch your hands or eyes in the event of a leak.
- Do not use it if there are external signs of damage.
- · Only clean the battery with a dry or damp cloth.

UNSUITABLE CHARGING AND DISCHARGING ENVIRONMENTS AND SOLUTIONS

The hot and cold environments described below may lead to charging entering standby or sleep mode without fully charging the battery.

- Winter discharging sleep mode or DUT (Discharge Under Temperature): Battery discharging will enter the deep sleep mode if the temperature is below -20°C, stopping the pedal assistance system from working and protecting the battery. In such cases, sleep mode will automatically be disabled when the battery exceeds -20°C.
- Winter charging sleep mode or CUT (Charge Under Temperature): Battery charging will enter sleep mode if the temperature is below 0°C. If charging starts and the temperature falls below this level due to night cooling or other factors, charging will stop and sleep mode will be activated to protect the battery. In such cases, sleep mode will automatically be disabled when the battery exceeds 0°C.
- **Noise on televisions/radios/computers:** Charging near televisions, radios or similar devices may cause static electricity, flickering images and other interference. If this happens, recharge somewhere that is away from the television or radio (e.g. in another room).

RECYCLING

Ion-lithium batteries can be recycled but they may harm the environment if they are not managed properly after the end of their service life. Follow these steps after the end of their service life:

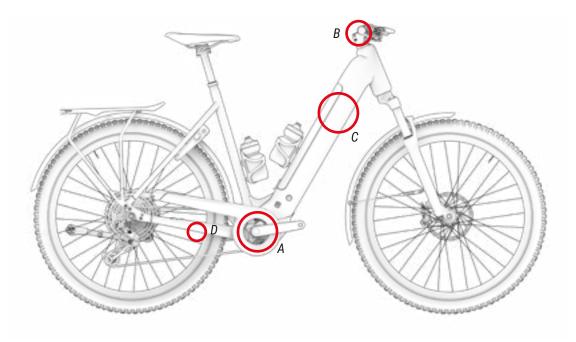
- · Classify and recycle each electrical component in a place prepared for the sustainable recycling of such parts.
- · Check and make sure that the applicable regulations of your country are observed with regards to batteries.

06 PEDAL ASSISTANCE SYSTEM OPERATION

COMPONENTS OF THE PEDAL ASSISTANCE SYSTEM

The BH Bikes pedal assistance system is made up of the following components:

- A. The motor Bosch Performance Line PX, which drives the bicycle.
- B. A control unit, which, among other things, allows you to select the assistance mode.
- C. T battery Bosch PowerTube600, which powers the motor and can be located in different places.
- **D.** A **speedsensor**, which reads the force applied to the pedal by the user.



PEDAL ASSISTANCE SYSTEM

The pedal assistance system is designed to provide the optimal amount of assisted power. It provides assistance within a standard range, based on factors such as the pedalling force, the speed of the bicycle and the transmission. The system does not provide assistance in the following situations:

- If the control panel is off.
- · When travelling at 25 km/h or faster.
- If you are not pedalling and the throttle function is released at 6 km/h.
- If there is no remaining battery capacity.
- If the assistance mode selected is 0% assistance.

CONTROL UNIT COMPONENTS

Refer to the Bosch-specific manual for full details on the Bosch control unit and its components.

The complete Bosch Performance Line PX (BDU34YY) manual is available at the following link:

https://www.bosch-ebike.com/es/productos/performance-line-px

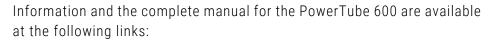


The complete manuals for the Kiox 300 (BHU3600), Intuvia 100 (BHU3200) and LED Remote (BRC3600) are available at the following links:

https://www.bosch-ebike.com/es/productos/kiox300-kiox500

https://www.bosch-ebike.com/es/productos/led-remote

https://www.bosch-ebike.com/es/productos/intuvia100



https://www.bosch-ebike.com/es/servicio/folletos-de-los-productos
https://www.bosch-ebike.com/es/productos/baterias





START OF PEDALING

The user should position themselves on the saddle and firmly grip the handlebars before applying pressure to the pedals. Special attention should be paid if starting to pedal in a mode with higher assistance (TRACK and BOOST mode) because the motor will react with maximum thrust, posing a risk of loss of control. To facilitate acceleration, the motor provides an additional initial push as soon as pedaling begins. This makes the effort required to set the bike in motion minimal, helping to integrate into traffic more quickly and safely.

- "Start pedaling with a lower gear (higher gears) and in a lower assistance mode (ECO Mode). In addition to greater control and safety on the bike, this will require less energy consumption and, therefore, provide greater range. It is advised that starting in a higher assistance mode (TRACK and BOOST modes) can pose a safety risk to the user.
- (!) When the user pushes the bicycle while walking alongside it, they should make sure that the system is turned off

BATTERY CHARGING

Due to its advanced Ion-Lithium technology, it is not necessary to wait for the battery to fully discharge before connecting it to the charger. Likewise, it is not necessary to charge it to 100% before you can use it again. However, please note that, in order to achieve maximum range, it is advisable to proceed with a full charge.

The battery can be charged whether it is inside the bicycle or removed from the frame. Below are the steps to correctly charge the battery in both cases:

- ▲ Never charge or use a damaged battery.
- Be cautious and do not touch the charger during the charging process. It can become very hot, especially in high ambient temperatures.
- If a failure occurs during battery charging, unplug the charger power plug from the outlet and wait until the battery cools down.
- Never touch the power plug, charging plug, or contacts with wet hands.
- △ Ensure there is no foreign matter on the battery contacts before inserting it into the bicycle.
- ① Do not connect the charger power plug to the battery or bicycle charging port if it is wet or damp. Make sure to connect the power plug only after the battery or bicycle charging port has dried completely.
- ① Do not apply excessive force on the power plug or pull the cable with the power plug connected to the battery.

- ① Turn off the pedal-assist system before removing the battery from its location on the bicycle.
- Use both hands to remove the battery from its location, being careful not to drop it. Dropping the battery on your foot can cause injuries and may damage the battery

APP BOSCH EBIKE FLOW

The specific Bosch eBike Flow app allows, among other things, customizing the level of assistance for each pedal-assist mode. This manual describes the main features and functionalities of this app. For more information, refer to bosch's specific user manual via the following link:

https://www.bosch-ebike.com/es/productos/aplicacion-ebike-flow

This app also serves to update the firmware of the components and to diagnose the problem in case of anomalies.

This app is available for download on both Google Play and the Apple Store. Once downloaded, follow these steps to start using it:

- 1. Open the app on your smartphone.
- 2. Register and/or log in.
- 3. Select Connect eBike and select the device you want to connect to. Make sure your bike is stopped and turned on with the battery inserted.
- 4. Connect via Bluetooth to the device and follow the steps in the app to finish setting up your eBike.
- 5. Once connected to your eBike, select the four modes that will appear on your device by default every time you turn on your bike.

OPERATION WITH GARMIN DEVICE

The ANT+ connection to a Garmin device grants you access to additional assistance display and control functions. The Heart Rate strap connects via the Garmin device. The steps that must be followed to connect iRemote to the Garmin device are described below. The image in the sixth step shows that the Garmin device can be used to check the bicycle's battery status and to select the desired pedal assistance level.

1. PRESS "ADD SENSOR".



2. CLICK "EBIKE".



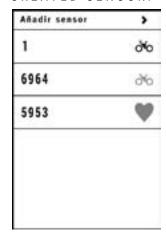
3. PAIRING WITH GARMIN.



4. SELECT THE EBIKE.



5. SELECT THE CREATED SENSOR.



6. GARMINN CONECTED.



ELECTRIC SYSTEM UPDATE

System electrical updates are performed through the Shimano Etube app when connected to your bicycle via Bluetooth. If the update process is interrupted for any external reason, such as an incoming call on your mobile phone, it will be necessary to take the bicycle to an authorized dealer to install the update correctly.

The complete manual for the app can be consulted at the following link:

https://www.bosch-ebike.com/es/productos/aplicacion-ebike-flow

It is recommended that as part of regular maintenance or repairs with an authorized dealer, the status of updates is checked and necessary actions are carried out.



Please remember that some actions require advanced knowledge, and incorrect handling can lead to serious accidents. In addition, improper manipulations are not covered by the warranty.

BOSCH CATALOGS AND MANUALS

Additionally, you can check out the Bosch website for catalogs and instructions:

https://www.bosch-ebike.com/es/servicio/folletos-de-los-productos



07 SIZES AND MEASUREMENTS

EX466, EX446 MODELS

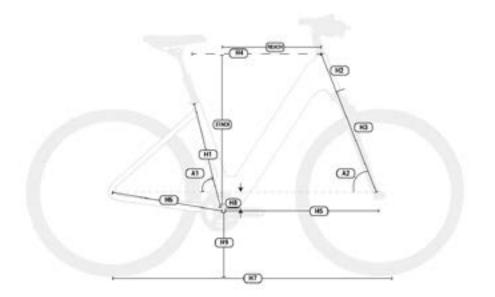
ATOM+ NX DIAMOND, ATOM+ NX JET

	H1	H2	Н3	H4	H5	Н6	H7	Н8	A 1	A2	REACH	STACK
MD	520	165	491	625	731	480	1202	70.5	75	68.5	448	660
LA	560	170	491	635	742	480	1214	70.5	75	68.5	456	669
XL	600	180	491	645	754	480	1226	70.5	75	68.5	464	678

EX456, EX436 MODELS

ATOM+ NX DIAMOND WAVE, ATOM+ NX WAVE

	H1	H2	Н3	H4	H5	Н6	H7	Н8	A1	A2	REACH	STACK
MD	480	180	491	600	702	480	1173	70.5	75	69	417	681
LA	520	185	491	605	709	480	1180	70.5	75	69	422	685
XL	560	190	491	615	718	480	1190	70.5	75	69	430	690



GENERAL SPECIFICATIONS

Feature	Models	Specification
Frame material	AII	Aluminum
Danaman dad usa	EX466 / EX456	Urban
Recomended use	EX446 / EX436	Hybrid
Sizes	AII	See 07 Sizes and Measurements section
Suspension design	AII	Front suspension
Pauls Annual	EX466 / EX456	100mm
Fork travel	EX446 / EX436	120mm
Fork offset	AII	Contact the manufacturer
Shock absorver dimensions	All	Contact the manufacturer
Compatibility with coil shock absorbers	All	It depends on the measurements of the shock absorber and spring. Please consult with the manufacturer.
Headset	AII	1.5" steerer - 1 1/8" steerer
Chainline	AII	52mm
Tura aire	EX466 / EX456	Belt Gates 125T
Tyre size	EX446 / EX436	Chain Shimano LG500
Mauimum vaav tuva aina	EX466 / EX456	28"
Maximum rear tyre size	EX446 / EX436	29"
Maximum front tyre size	AII	It depends on the fork
Speedsensor installation	AII	At the rear wheel valve
Dear avia atonderd	EX466 / EX456	135mm
Rear axle standard	EX446 / EX436	148mm
Seatpost tube diameter	AII	31.6mm
Seatpost clamp size	All	35mm

Feature	Models	Specification
Maximum seatpost insertion		
48	EX466 / EX456 / EX436	195mm
40	EX446	270mm
E2	EX466 / EX456 / EX436	235mm
52	EX446	280mm
F.	EX466 / EX456 / EX436	275mm
56	EX446	280mm
60	All	280mm
Compatible with dropper post	All	Yes
Front derailleur	All	No
Mavimum abainving aire	EX466 / EX456	50T
Maximum chainring size	EX446 / EX436	-
Minimum abaimina air-	EX466 / EX456	42T
Minimum chainring size	EX446 / EX436	-
Compatible with oval chainring	All	No
Brake type	All	Disc brake
Rear brake pad standard size	All	Post Mount
Rear brake disc minimum size	AII	160mm
Compatible with chain guide	AII	No
ICGS	AII	No
Cable routing	All	Internal
Compatible with internal rear brake cable routing	AII	Yes
Bottle cage	All	Yes, standard bottle cage

GENERAL SPECIFICATIONS

Feature	Models	Specification
Compatible con potenciómetro	All	No
Compatible con trailer	All	No
Montaje portabultos	All	Yes
Montaje guardabarros	All	Yes
Montaje asiento niño	All	No
Peso máximo recomendado (ciclista + equipación + equipaje)	All	165kg

ESPECIFICACIONES MANDO DE CONTROL Y DISPLAY

Feature	Specification
	Turning the pedal-assist system on and off
	Changing the assist mode
Functions	Increasing and decreasing the assist level
	Displaying the battery charge level
	Turning the bicycle lights on and off

ESPECIFICACIONES DEL CARGADOR

Feature	Models	Specification
Port		100 - 240 V
Voltage		2A y 4A
Charging temperature range		0°C - 40°C
Charge display		via integrated LED in the charger
Cable length		1.5 m + 1.0 m

BOSCH PERFORMANCE LINE PX MOTOR SPECIFICATIONS

Feature	Specification
Nominal power	600W
Туре	Brushless DC
Assistance	Up to 25km/h
Maximum torque	90Nm
Weight	2.9kg
Pedal assist modes	8 modes
Walk assist	Yes
Sensors	Cadence / Torque / Speed
System technology	CAN bus

BATTERY SPECIFICATIONS

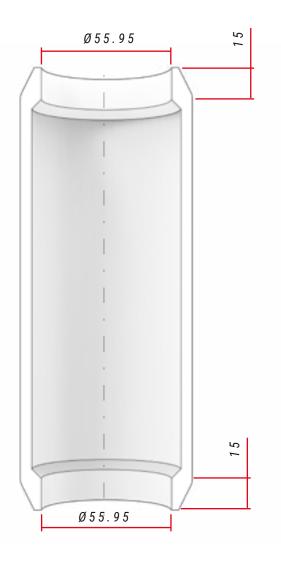
Feature	Specification
Voltage	36V
Capacity	600Wh
Weight	3kg
Cell type	With the battery installed in the frame
Dimensions	424 x 71 x 67 mm
Conection	Cable to charging port
Compatible with PowerTube800	Yes
Compatible with Extender	Yes

SPEEDSENSOR SPECIFICATIONS

Feature	Specification	
Installation	Integrated in the motor	
Magnet	In the rear wheel valve.	

DIMENSIONS OF THE STEERING PIPE

ALL MODELS

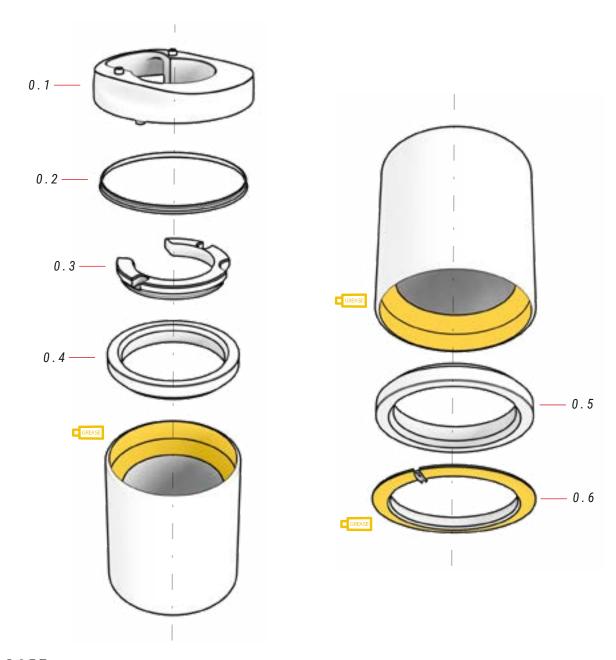


HEADSET SPECIFICATIONS

	Туре	Contact angle with compression ring/fork race	Bearing dimensions
Upper	11/8" Steerer	45°	-
Lower	1.5" Steerer	45°	-

HEADSET ASSEMBLY

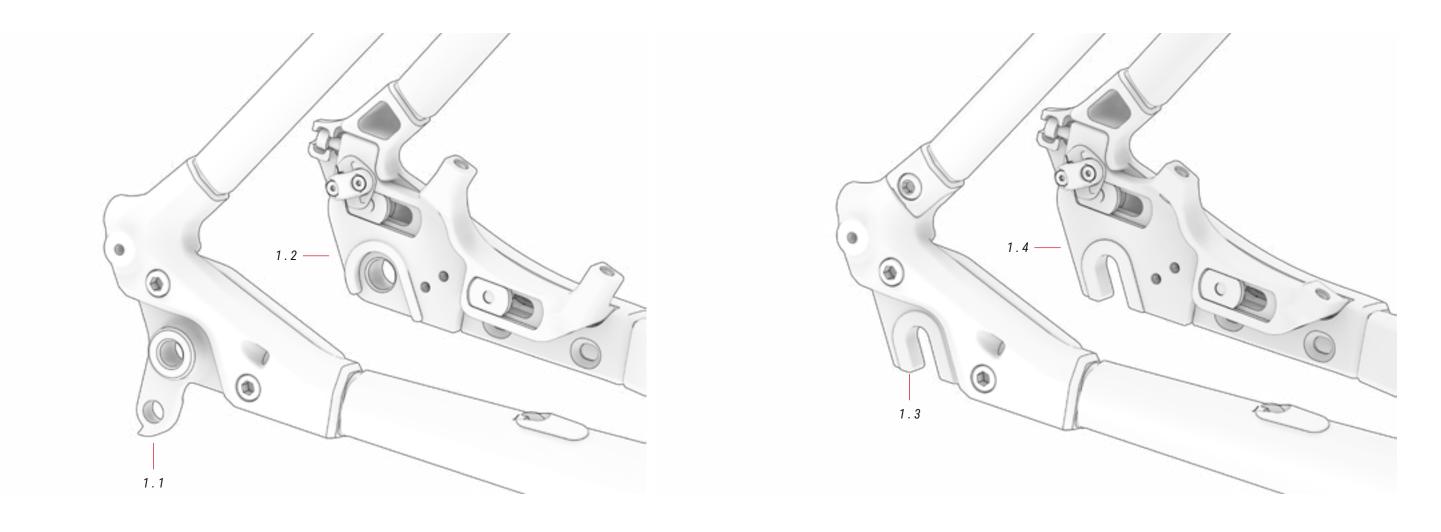
ALL MODELS



00 HEADSET

No	Item	Ref.	Quantity
0.1	Top cup	384676600	1
0.2	Washer	384676600	1
0.3	Cable routing ring	384676600	1

Nº	Item	Ref.	Quantity
0.4	Bearing	384676600	1
0.5	Bearing	384676600	1
0.6	Base plate	384676600	1



01 HANGER

Nº	Item	Ref.	Quantity
1.1	Hanger	-	1
1.2	Hanger	-	1
1.3	Hanger	-	1
1.4	Hanger	-	1

BATTERY INSTALLATION

4.5Nm (2.5 — »

4.5Nm 2.5

2.4 **4.5**Nm

2.4 **(A)** 4.5 Nm

2.4 **4.5**Nm

2.2

2.3

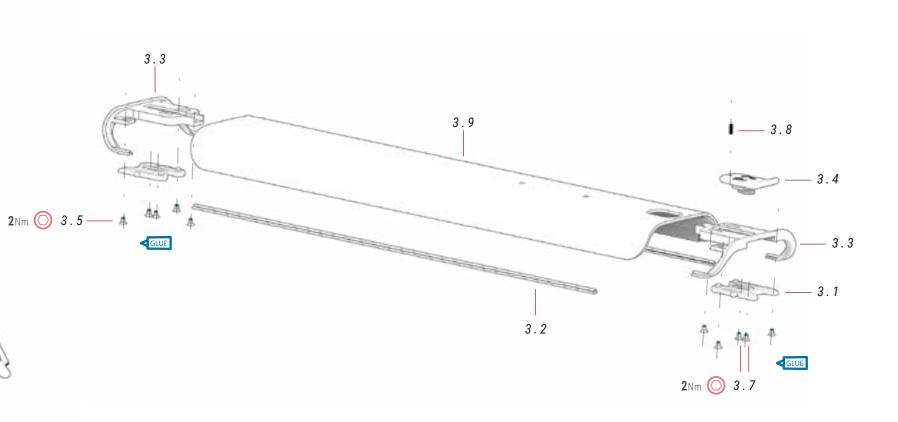
12Nm 2.5

12Nm 🔘 2.5 —

ALL MODELS

BATTERY COVER INSTALATION

ALL MODELS



! For precise and safe installation of Bosch components, refer to the manufacturer's specific manual.

02 BATTERY, COVER AND COMPONENTS

Nº	Item	Ref.	Quantity
2.1	Battery cover	-	1
2.2	BOSCH battery	387473900	1
2.3	Internal plate	387475300	1
2.4	Plate screw	-	3
2.5	BOSCH battery scew + BOSCH nut	-	4

03 COVER COMPONENTS

Nº	Item	Ref.	Quantity
3.1	Sliding piece	-	2
3.2	Side rubber	-	2
3.3	Mounting rubber	-	2
3.4	Tab	-	1
3.5	Screw	-	8
3.6	Spring	-	1
3.7	Screw	-	2
3.8	Threaded shaft	-	1
3.9	Cup	<u>-</u>	1

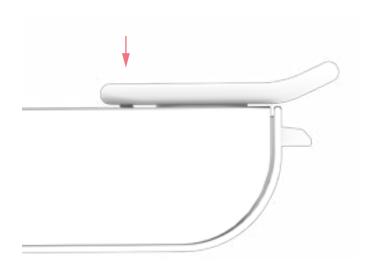


BATTERY COVER LOCKING

ALL MODELS

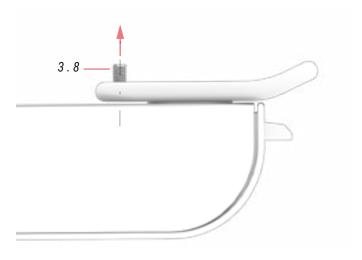


⚠ Completely remove the 3.8 shaft before moving the sliding part to avoid damaging the paint.





For the battery cover to remain locked, the screw must be positioned inside the sliding part.

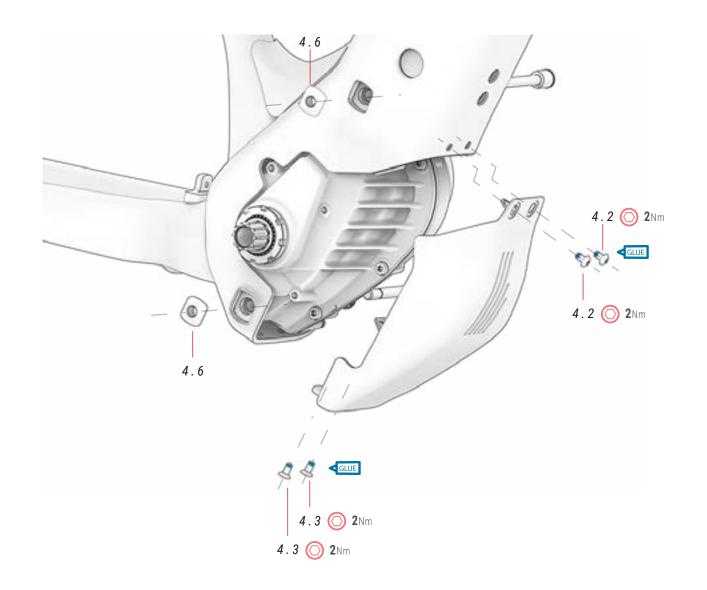


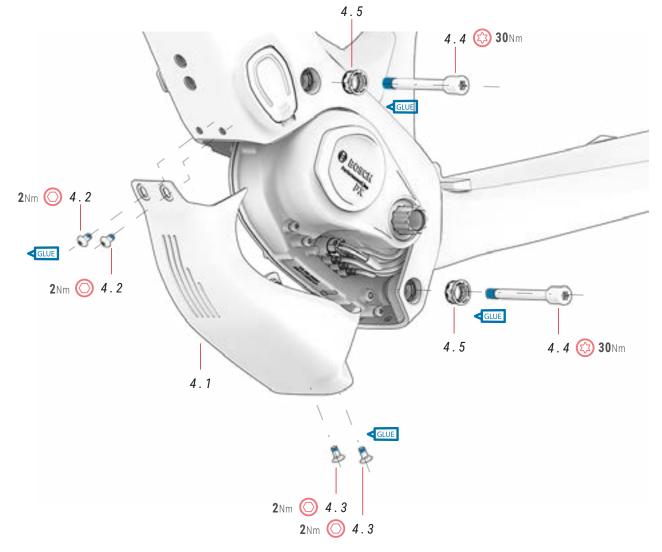


For the battery cover to remain unlocked, the shaft must not be screwed into the cover.

MOTOR AND MOTOR COVER

ALL MODELS





04 COVER AND SCREWS

No	Item	Ref.	Quantity
4.1	Motor cover	386243500	1
4.2	Screw	386243500	2
4.3	Screw	386243500	2

 N°
 Item
 Ref.
 Quantity

 4.4
 BOSCH screw
 EB11.200.12G
 2

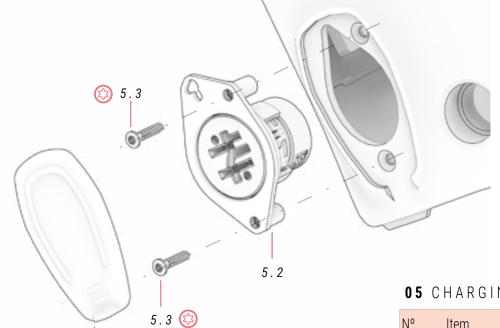
 4.5
 BOSCH screw
 EB11.200.12F
 2

 4.6
 BOSCH nut
 EB11.200.03C
 2

- ! When turning the drive unit with one screw, make sure there is no resistance; otherwise, loosen the screw.
- ! For precise and safe installation of Bosch components, refer to the manufacturer's specific manual.

CHARGING PORT INSTALLATION

ALL MODELS



! For precise and safe installation of Bosch components, refer to the manufacturer's specific manual.

05 CHARGING PORT

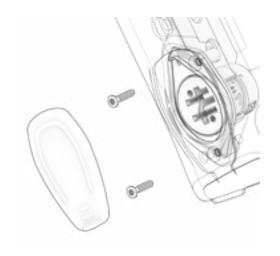
No	Item	Ref.	Quantity
5.1	BOSCH cover	EB12.120.01B	1
5.2	BOSCH charging port base	EB12.120.01A	1
5.3	BOSCH self-tapping screw	F04N.002N.663	2

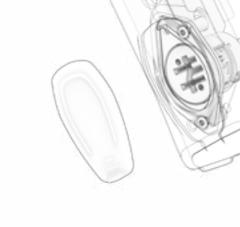
THE FRAME

5.1



3. PLACE PART 4.1.

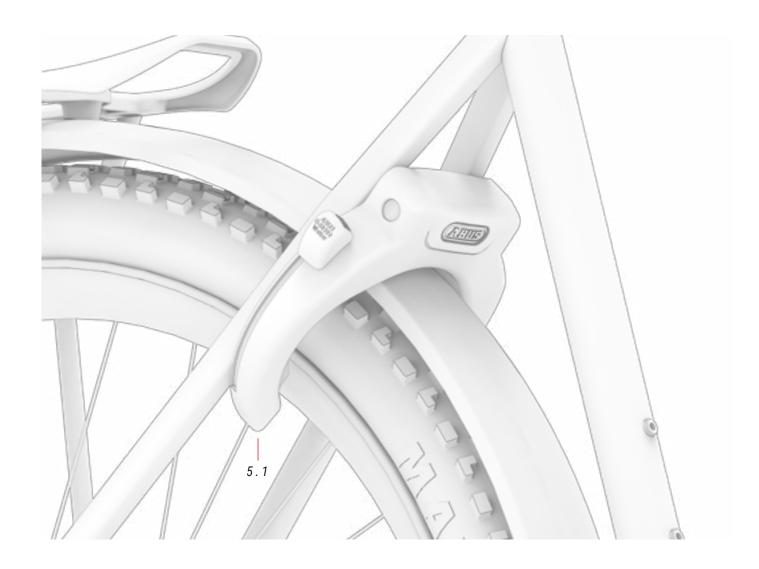






RING LOCK

ALL MODELS

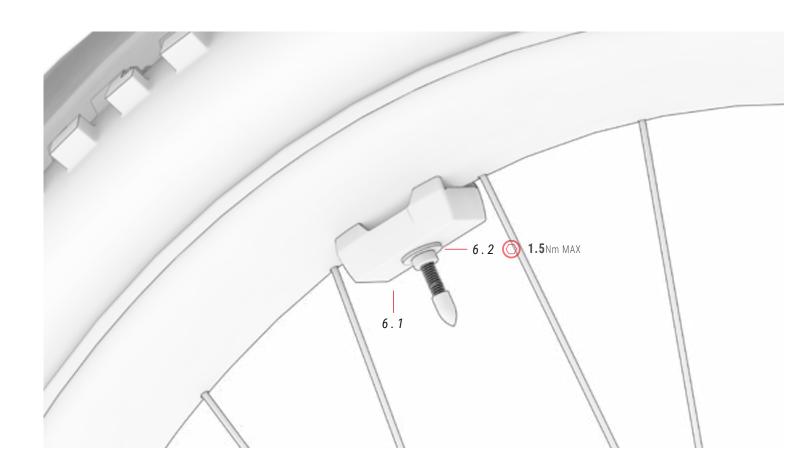


05 RING LOCK

Nº	Item	Ref.	Quantity
5.1	ABUS lock	387480700	1

SPEEDSENSOR

ALL MODELS



For precise and safe installation of Bosch components, refer to the manufacturer's specific manual.

06 SPEEDSENSOR

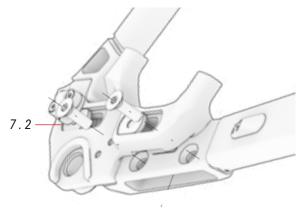
No	Item	Ref.	Cantidad
6.1	BOSCH speedsensor magnet	EB11.200.015	1
6.2	BOSCH adapter	EB11.200.02S	1

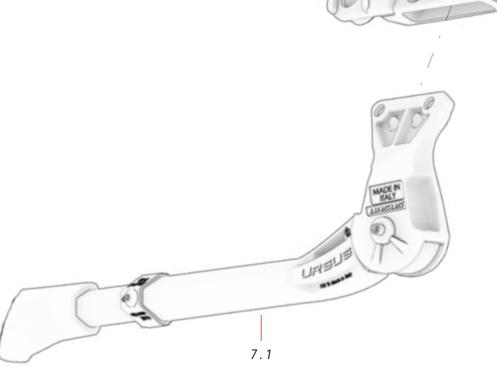
KICKSTAND

ALL MODELS

07 KICKSTAND

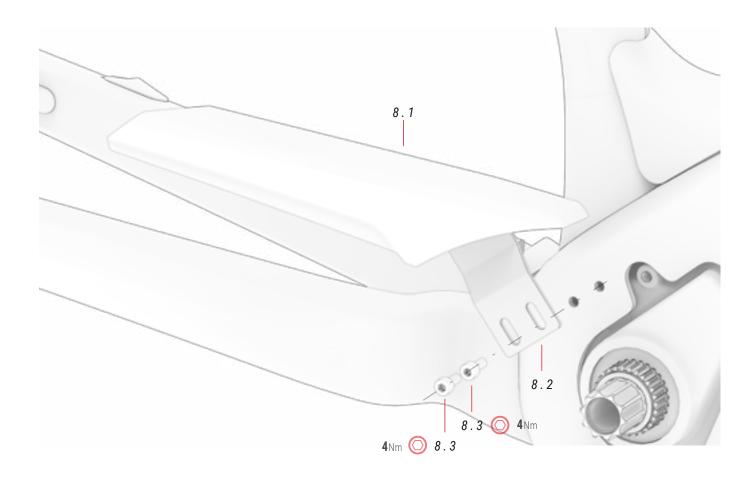
No	Item	Ref.	Cantidad
7.1	Kickstand King Evo	342295800	1
7.2	Screw	342295800	2





BELT GUARD

EX466, EX456 MODELS

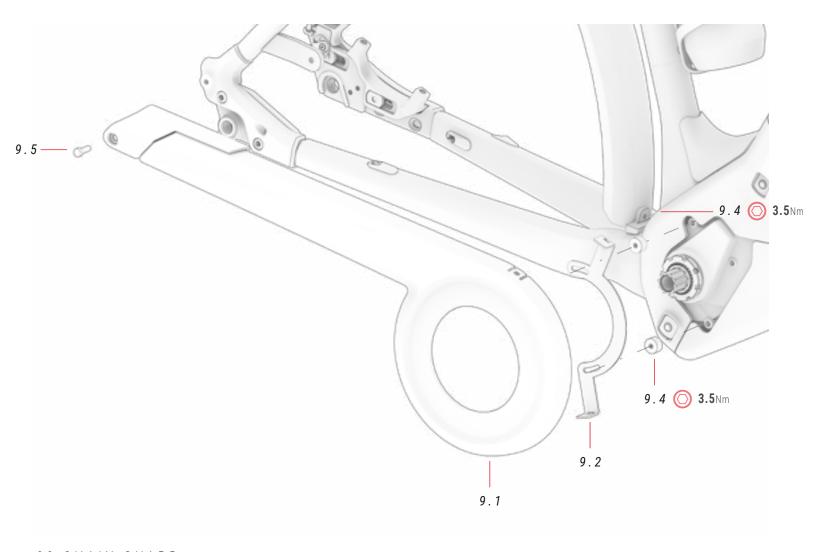


08 BELT GUARD

No)	Item	Ref.	Cantidad
8.	1	Wing belt guard	364297400	1
8.	2	Bracket	364297400	1
8.	3	Screw	364297400	

CHAIN GUARD

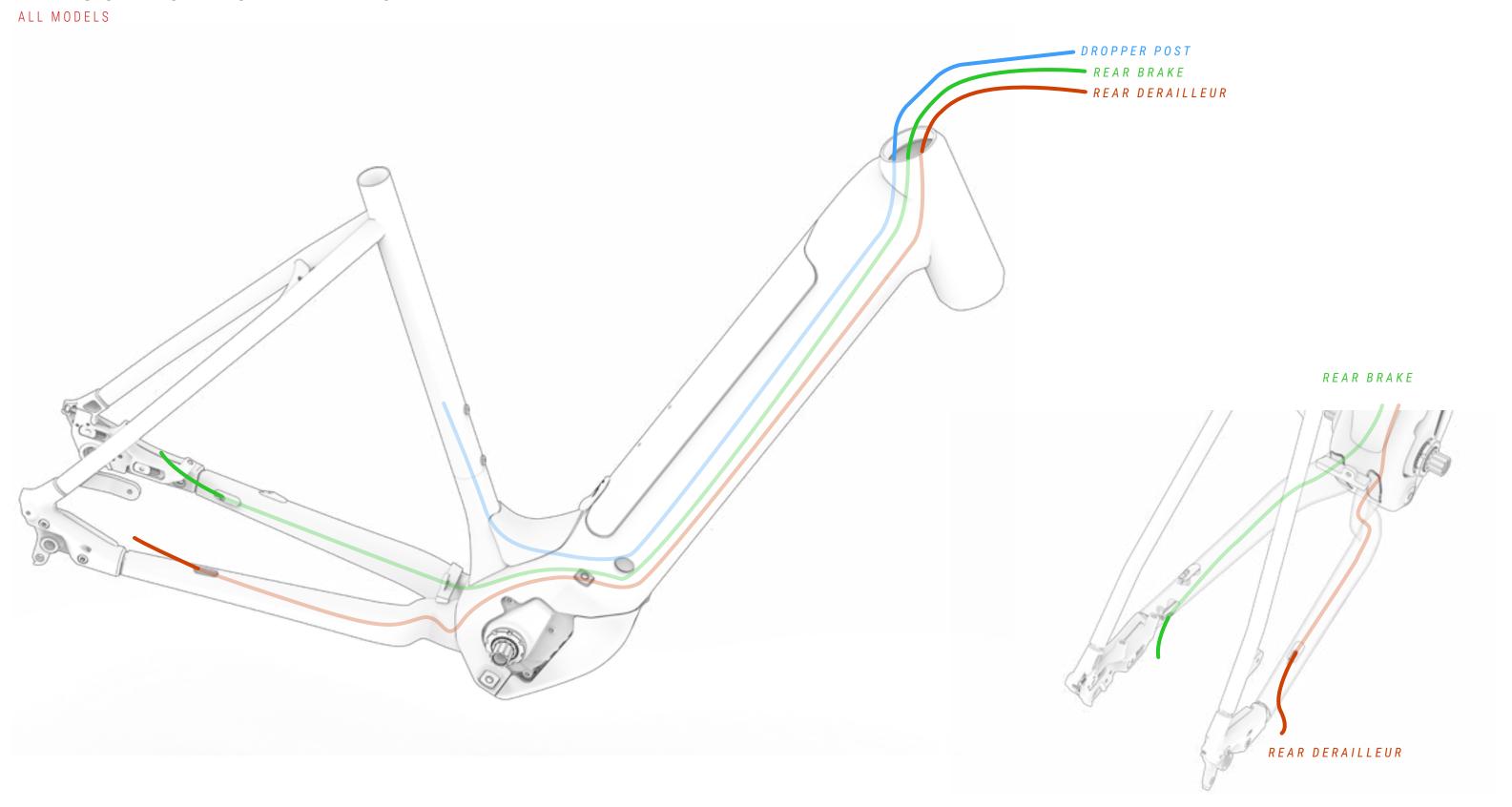
EX446, EX436 MODELS



09 CHAIN GUARD

No	Item	Ref.	Cantidad
9.1	MOVE 7 chain guard	364297300	1
9.2	Bracket	364297300	1
9.3	Screw	364297300	2
9.4	Spacer	364297300	2
9.5	Screw	364297300	1

WIRING OF MECHANICAL ELEMENTS



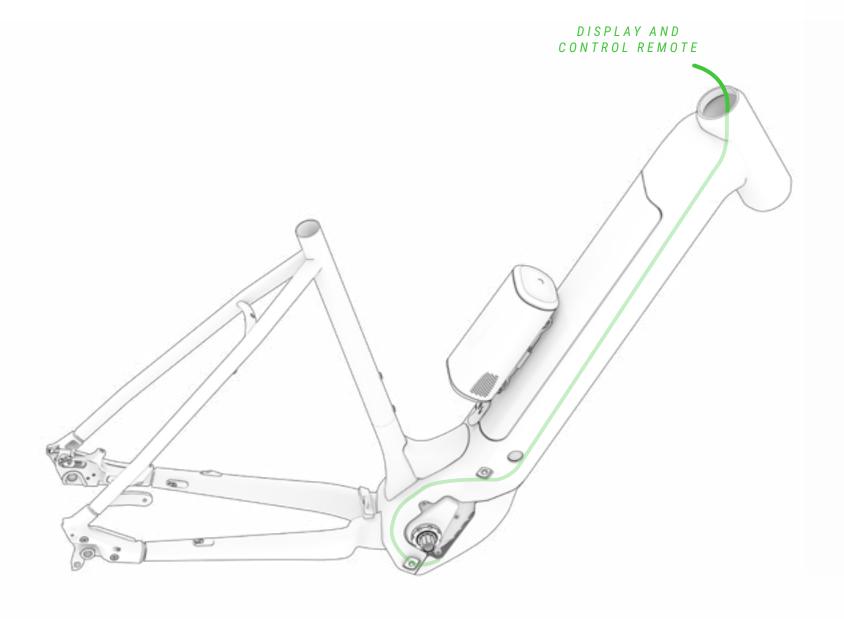
WIRING OF COMPONENTS OF THE ELECTRICAL SYSTEM

ALL MODELS

 \triangle

The incorrect handling of electrical components can lead to damage not covered by the warranty. This damage could also cause serious injury or even death.

BH recommends always consulting an official dealer when a diagnosis, repair, or installation of electrical components is required. These actions require advanced technical knowledge.

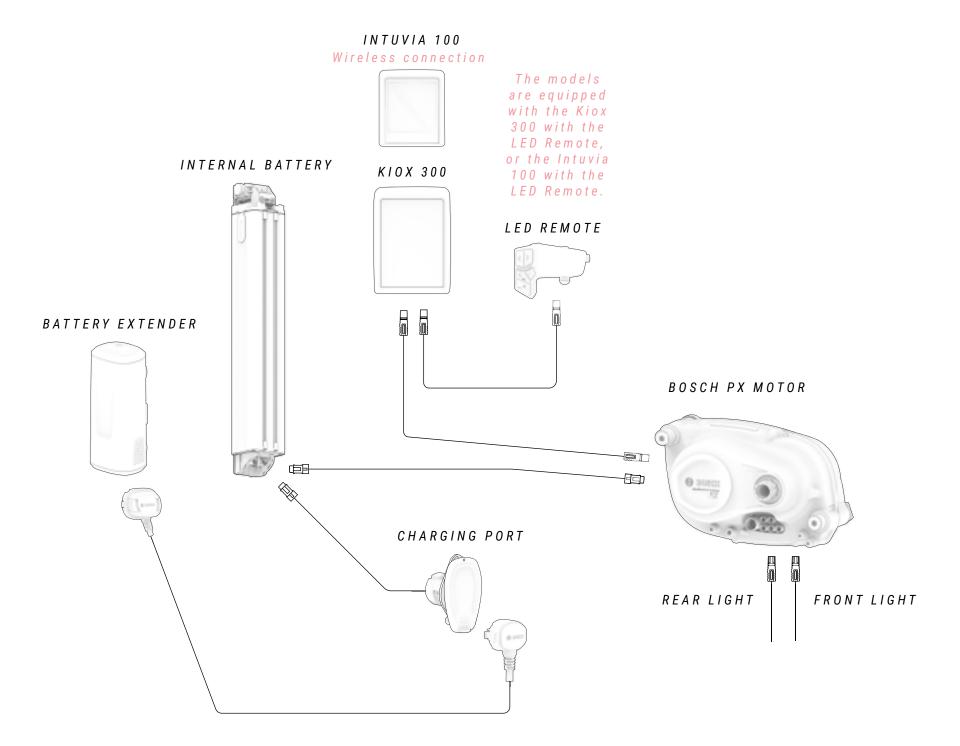


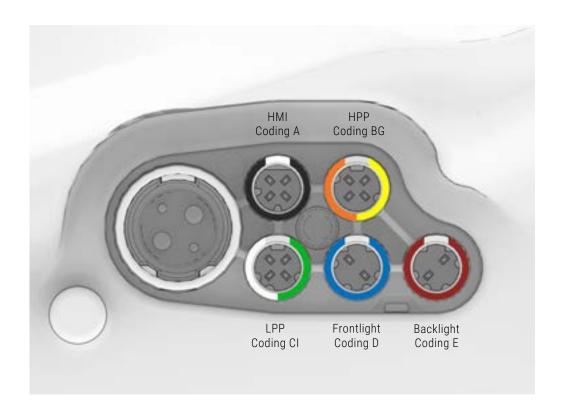
For precise and safe Bosch installation of components, refer to the manufacturer's specific manual. BATTERYEXTENDER CHARGING PORT BATERÍA INTERNA

09 ASSEMBLY AND SPARE PARTS VO.0 | BH | 25

SCHEME OF COMPONENTS OF THE ELECTRICAL SYSTEM

ALL MODELS





- For precise and safe installation of Bosch components, refer to the manufacturer's specific manual.
- The incorrect handling of electrical components can lead to damage not covered by the warranty. This damage could also cause serious injury or even death. BH recommends always consulting an official dealer when a diagnosis, repair, or installation of electrical components is required. These actions require advanced technical knowledge.
- When an electrical connection comes into contact with moisture or is clogged due to external contamination, a chemical reaction occurs whereby the connections become sulfated. That is, the copper of the contacts oxidizes, causing conductivity failures. The warranty does not cover damage resulting from improper maintenance of the connections. To prevent oxidations, it is sufficient to periodically clean the connections (male and female) with dielectric deoxidizers as shown in the image above.

10 DECLARATION OF CONFORMITY



10 DECLARATION OF CONFORMITY VO.0|BH|27

11 HELP AND ADDITIONAL RESOURCES

At BH, we provide you with various means to address all your doubts. Additionally, you can become a part of our global cycling community through our social media channels.

TECHNICAL RESOURCES

On the BH Bikes website, you will find all the necessary resources to tune up your bike. In the following link, you can access user manuals, apps, warranties, files for updating displays, and explanatory videos for various operations:

https://www.bhbikes.com/manuals

You can also check out our step-by-step tutorials to learn how to maintain and fine-tune your bicycle on our specialised

Youtube channel::

https://www.youtube.com/user/ServicioTecnicoBH

CONTACTOS

Our authorised dealers have the necessary knowledge and resources to help you with anything you need in relation to your bicycle. Don't hesitate to contact your nearest store. You can find it by clicking on the link below::

https://www.bhbikes.com/es_ES/busca-tu-tienda-mas-cercana/buscador-de-tiendas

To contact us directly:

Tel: + 34 945 13 52 02

info@bhbikes.com

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SOCIAL MEDIA

Join our global cyclist community. Discover the BH experiences of other cyclists and share yours.













