# TekDoc

# USER MANUAL 2025



# ATOMX CARBON



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01 INTR	RODUCTION
this document of <b>ER925 / ER905</b> /	ual contains important information for proper use and maintenance of the bicycle. In particular, contains specific information about the ATOMX LYNX CARBON (ER995 / ER985 / ER975 / ER875 / / ER845 / ER825 / ER565). Please read the entire manual carefully. The user manuals of all BH models d on the website at the following address:
<u>https://www.bl</u>	nbikes.com/manuals
•	at the manuals on the BH BIKES website are updated on a regular basis. Make sure you have downloaded on from the website. You can check the version on the front page.
This document	contains additional information to the general user manual, available at:
<u>https://www.bh</u>	<u>bikes.com/es_INT/quienes-somos/manuales-descargas</u>
You can check official websites	the characteristics, recommendations and warranties of third-party parts on their corresponding s.

#### 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.



 $(\mathbf{f})$ 

**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 FLAT WRENCH Q ALLEN KEY TORX KEY (۲) PHILLIPS SCREWDRIVER (+)**10**Nm tightening torque will be indicated in newton metre.

#### TYPE OF ASSEMBLY COMPOUND



TIGHTENING TORQUES: on one side of each tool symbol, the

**CARBON PASTE:** assembly paste used to increase the friction of the carbon elements.

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





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\_INT/registro-garantia-vida-bh/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:

- by BHBIKES EUROPE S.L.

  - EUROPE and according to the instructions in the user manual.
- 2. The LIFETIME warranty does not cover:
  - paint, or rust caused by natural deterioration.
  - •
  - bicycle was designed have been installed.
  - Defects resulting from improper handling.
  - prolonged exposure to sunlight or other weather conditions.
  - the bicycle.

  - Frames that have been used in competitions, demos or as rentals.

Read the full terms and conditions at:

#### https://www.bhbikes.com/es\_INT/registro-garantia-vida-bh/registra-tu-bici-garantia-de-por-vida

#### 1. The LIFETIME warranty solely applies to BH frames and bikes that are sold through stores that are authorised

 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

• The rear swingarms of the double suspension models, fork, kids' bikes, defects and/or fading of the original

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

• Scratches, discolouration, or stains caused by the use of abrasive fluids, sharp items, clamps and/or

 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

• Improper use and/or maintenance of the product (carefully read the recommendations for use and cleaning).

#### EXTENDED WARRANTY FOR BH BATTERIES

In a constant effort to improve our customer services on a daily basis, BH offers the best warranty conditions and the possibility of acquiring an extended warranty for its e-Bike range (an additional one or two years). Through its authorised stores, BH Bikes provides the original buyer with a commercial policy to cover any manufacturing defects in BH batteries for a period beyond that specified in the product's statutory warranty, pursuant to the following clauses:

- 1. The BH battery extended warranty solely applies to BH batteries installed in BH bikes and sold through stores that are authorised by BHBIKES EUROPE S.L:
  - The buyer must register the 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, on which the bike's serial no. must be specified.
  - 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 and according to the instructions in the user manual.
- 2. The BH battery extended warranty shall not ever cover:
  - Fading paintwork and a loss of original colour, or corrosion caused by normal wear and tear.
  - Defects or breakages resulting from an accident or improper and/or negligent use of the bicycle.
  - Deterioration or natural degradation due to age, even without use. Deterioration after 500 full charging and discharging cycles if it is below 30% of the nominal capacity (read the recommendations in the user manual carefully).
  - When components or accessories have been installed that are not intended for/compatible with the use for which the bicycle was designed.
  - 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.
  - Improper use and/or maintenance of the product (carefully read the recommendations for use and cleaning).
  - Batteries that have been used in competitions, demos or in rentals.
  - Auxiliary batteries (extenders).

Read the full terms and conditions at:

https://www.bhbikes.com/es\_INT/registro-garantia-vida-bh/extension-garantia-bateria

## **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\_INT/registro-garantia-vida-bh/registra-tu-bici-garantia-de-por-vida

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

#### https://youtu.be/47aLVgUI248



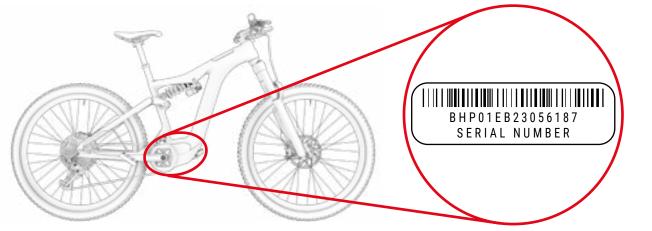
#### EXTENDED WARRANTY FOR BH BATTERIES

You must register the bicycle on the BH BIKES website to enjoy the BH BATTERY extended warranty: https://www.bhbikes.com/es\_INT/registro-garantia-vida-bh/extension-garantia-bateria Watch this video to find out what you need to do:

https://youtu.be/slNzdFBygMM



above the bottom bracket:







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

#### WARRANTY OF PARTS OF THE ELECTRICAL ASSISTANCE SYSTEM

As in the case of BH BIKES frames and parts, all electrical components made exclusively for BH will be covered by the statutory warranty (BH motors feature an extended 5-year warranty after the LIFETIME FRAME warranty is activated). 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 free of charge, including the reimbursement of transport expenses and any losses caused as a result of this. The terms and conditions are as described in the section "Statutory Warranty" and can be read at:

#### https://www.bhbikes.com/manuals

Under no circumstances shall the warranty cover the wear and natural ageing of batteries due to use, charging and storage. Likewise, the buyer must contact the original manufacturer to use the warranty of third-party parts.

#### 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.

This user manual contains important information for proper use and maintenance of the bicycle. In particular, this document contains specific information about the ATOMX LYNX CARBON (ER995 / ER985 / ER975 / ER875 / ER925 / ER905 / ER845 / ER825 / ER565). 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:

#### https://www.bhbikes.com/manuals

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.
- check that it does not touch the handlebars.
- the wear level does not exceed the maximum recommended level
- 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.
- mean that the tightening torques are incorrect or that the bearings are worn.
- must be replaced to prevent damage to the components on which they are installed.
- connections are correct and show no signs of damage.

**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

**TYRES:** the pressure must be correct and there must be no cuts on the tread or on the sides. Also check that

WHEELS: the wheels must rotate freely in order to check how they rotate. Also check the space between the

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

BEARINGS: the bearings must work properly and with no strange noises. The bearings are subject to wear and

**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

- 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 At the latest after the second linings.		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.			
Pedals	Bearing inspection.			
	Lubrication, cleaning the anchoring mechanism.			

Part	Action required	Before each outing	Monthly	Annually
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.

#### 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:

move freely.

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

- respect to the front wheel.
- effective (also refer to the "Traction" section).
- loose bolts.
- Inspect the entire bicycle again to check for bent areas, worn finish or cracks.
- please contact your nearest BH workshop!
- $\mathbf{A}$ for greater safety.

• **BATTERIES AND ACCUMULATORS:** Change for the same type. Check the indication on the outer area.

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

• 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

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

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 coq, 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

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

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,

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

# **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:

Enduro: ER995 / ER985 / ER975 / ER925 / ER905.

Trail: ER875 / ER845 / ER825.

Urban: ER565.

# **05** WARNINGS 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.
- 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.
- charge level.
- Δ the warranty.

## 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.

Expose the batteries to very high temperatures. If the temperature exceeds 70°C, this could cause leaks and

• Do not use the battery with a charge of less than 10%. The useful life of the cells may be affected below this

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

- 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.

#### MOTOR

The DC motor is located on the bottom bracket bearing axle. As with any other part of your bicycle, the service life of the motor depends on how it is used. Under normal conditions, the motor can last for 10 to 20 years, or up to 100,000 km.

In the case of ATOMX models with a central motor, it is compulsory for the motor unit to be inspected by a Brosecertified service centre after 15.000 km.

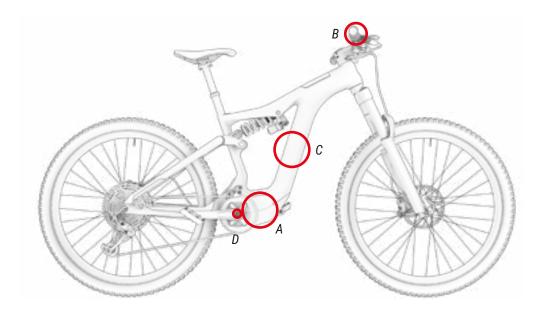


## COMPONENTS OF THE PEDAL ASSISTANCE SYSTEM

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

- **A.** A **motor**, which drives the bicycle.

- **D.** A **torgue sensor**, which reads the force applied to the pedal by the user.



#### PEDAL ASSISTANCE SYSTEM

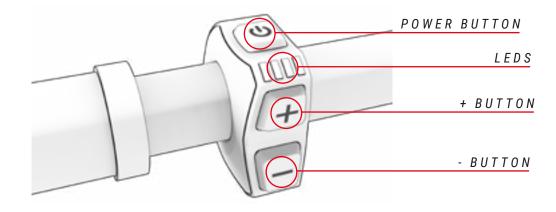
The pedal assistance system is designed to provide the optimal amount of assisted power. It provides assistance within a standard range, based on factors such as the pedalling force, the speed of the bicycle and the transmission. The system does not provide assistance in the following situations:

- 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.

**B.** A control panel (I-REMOTE), which, among other things, allows you to select the assistance mode. **C.** A **battery** that powers the operation of the motor and can be located in different places.

#### PARTS OF THE CONTROL PANEL

The i-Remote or general control panel is located on the left side of the handlebars, next to the grip. The control consists of 4 parts:



#### SWITCHING THE PEDAL ASSISTANCE SYSTEM ON AND OFF

The pedal assistance system is turned on from the i-Remote (central control panel). It is located next to the left grip on the handlebars. Press the power button to start the system. The 4 LEDs will be activated one at a time and lit blue to indicate that it has been turned on. The LEDs will change colour immediately after, showing the current pedal assistance mode. If the battery has been removed from the frame and put back into its position, the system will also turn on, first showing the same blue LED (see the section "Releasing and removing the battery").

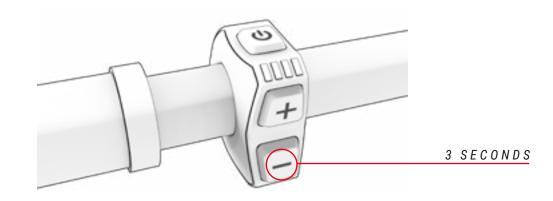
To turn off the pedal assistance system, press and hold the power button for 3 seconds. The LEDs will turn off and the system will then shut down.

- After turning the system on, make sure that you do not start riding without checking the assistance mode.  $\bigcirc$ By default, it starts with the assistance mode selected before it was last switched off.
- Wait for 3 seconds after turning on the system before you start applying pressure on the pedals. During this (!) 3-second period, the assistance system is starting up and calibrating the torque sensor. Otherwise, if you press the pedals beforehand, this may reduce the effectiveness of the assistance system and error 14 may even be displayed on the screen (see the "Error code" section). To fix this, you should reboot the system without applying pressure to the pedals for the 3-second period.



## TURNING THE BICYCLE LIGHTS ON AND OFF

When you press and hold the (-) button for 3 seconds, lights are switched on and off in those models equipped with a battery-powered light system.

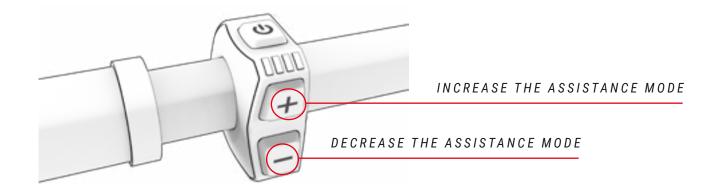


## SELECTING THE PEDAL ASSISTANCE MODE

The system features four pedal assistance modes:

- **Sport:** Identified by the colour **Orange**. Use when climbing difficult terrains.
- through the assistance modes.
- **Eco:** Identified by the colour **Green**. Use when you want to travel as far as possible.
- to use the other functions of the control panel.

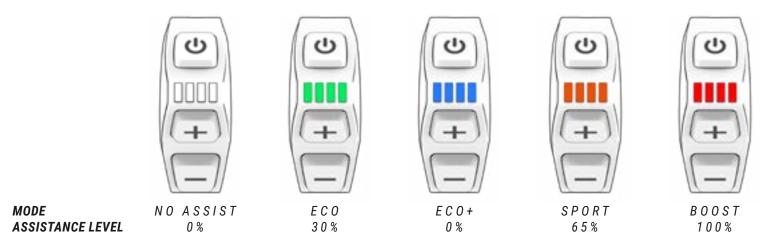
To toggle through the assistance modes, the user must press the (+) button to increase the level of assistance and the (-) button to reduce the level of assistance.



Boost: Identified by the colour **Red**. Use when you want to get peak power from the system.

Eco + (disabled from factory): Identified by the colour Blue. This mode is disabled from factory. It can be activated from the BH iConnect app, adding an assistance percentage value other than 0. As in this mode, if the assistance level is personalised to 0 in any of the modes, these are not shown in iRemote when scrolling

• No assist: Identified by the colour White. Use when you want to travel without assisted power. You can continue



In order to increase the life of the battery and prevent a full discharge which may damage it, the assistance modes are limited based on the state of charge of the battery:

- Battery charge above 20%: 100% of the highest assistance level is available.
- Battery charge between 10% and 20%: assistance level limited to 50% of the highest assistance level.
- Battery charge between 5% and 10%: assistance level limited to 25% of the highest assistance level.
- Battery charge between 1% and 5%: assistance is not permitted. Only the lights can be turned on.

#### WALK ASSIST MODE

There is a sixth assistance mode that helps the user transport the bicycle while on foot. To activate the walk assist mode, press and hold the + button on the control panel (it doesn't matter which assistance mode is selected when the + button is pressed). The LEDs on the i-Remote control panel will flash blue, indicating that this mode has been activated. Release the + button to exit this mode.

#### START OF PEDALLING

Before resting your feet on the pedals, you must sit on the saddle and hold the handlebars firmly. Special care should be taken if you start pedalling when using a high assistance mode (BOOST or SPORT modes), as the motor will respond with maximum thrust and you may lose control. To facilitate acceleration, the motor provides an additional initial thrust as soon as you start pedalling. Therefore, minimal force is required to put the bicycle in motion, helping you to join the traffic quickly and safely.

- Start pedalling with a short gear ratio (higher gears) and low assistance mode (ECO mode). As well as  $\bigcirc$ providing greater control and safety on the bicycle, it requires less energy consumption and, therefore, ensures a longer range. Starting to pedal with a higher assistance mode than ECO may put the user's safety at risk.
- When the user pushes the bike while walking alongside it, they must make sure that the system is disconnected.

## DISPLAYING THE BATTERY CHARGE LEVEL

A 100% charge can provide a range of up to 155 km. The battery charge level can be displayed in three ways: from the central control panel, the internal battery or from a Garmin device. The battery charge level indicator shows the estimated remaining battery capacity in all cases:

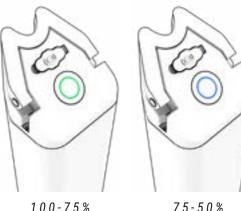
of LEDs that are on and off will indicate the charge level, regardless of their colour:





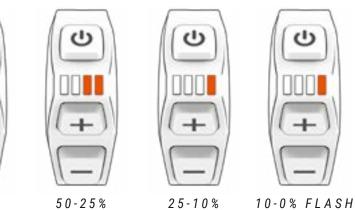
100-75%

- 75-50%
- $\bigcirc$ in lighting system, incorrect tyre pressure, chain or brake settings.
- red 25-10% and flashing red 10-0%



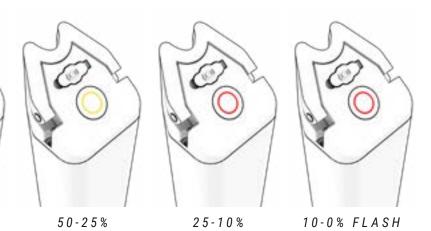
75-50%

• **i-Remote:** the four LEDs on the control panel show the charge level using LEDs, which will either be on or off (see the image below). The LEDs will always display the colour of the current pedal assistance mode. The number



The range of the system will vary depending on the following riding conditions, among others: frequent starts and stops, transmission ratio, numerous steep slopes, road surface in poor condition, carrying heavy loads, strong wind coming towards the cyclist, low temperatures, degradation of the battery, use of the built-

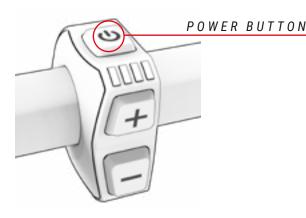
**Internal battery:** by pressing the battery button shown in the image below, a ring will be lit around the button. The colour of this ring indicates the battery charge level. Green 100-75%, blue 75-50%, yellow 50-25%,



**Garmin devices:** Garmin devices also display the battery level on the interface:



#### 1. TURN OFF THE PEDAL ASSISTANCE SYSTEM.



# LEAVE IT IN PLACE IF YOU WISH TO CHARGE IT INSIDE THE FRAME.

#### BATTERY AND CHARGER

The battery that your BH bike is equipped with contains lithium-ion cells and is the most advanced technology available in terms of energy density (energy stored per kilogram of weight and per cm<sup>3</sup> of volume).

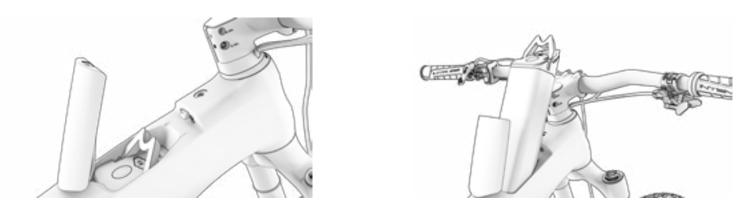
Lithium-ion batteries have the following characteristics:

- Their performance decreases in extremely hot or cold environments.
- An additional characteristic of BH's lithium-ion batteries is that they have no "memory effect", and are not affected by incomplete discharging.
- They lose their charge naturally and gradually with use. The battery can be fully discharged (100%) approximately 500 times, with maximum battery deterioration of 20%. In the case of partial discharges, only the discharged part is counted. For example, if you charge the battery every time its charge level falls by 25%, you will be able to charge it to 100% of its initial capacity 2,000 times. In short, the guaranteed durability of the battery with maximum degradation of 20% is at least 20,000 km.

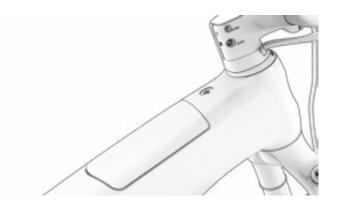
#### BATTERY CHARGE LEVEL

Due to its advanced lithium-ion technology, there is no need to wait for the battery to completely discharge before connecting it to the charger. Likewise, it is also not necessary to charge it to 100% before using it again. But bear in mind that, in order to achieve a maximum operating range, a full charge is recommended.

The battery can be charged while mounted on the bicycle and when it is removed from the frame. The steps that must be followed to charge the battery correctly in both cases are described below:



#### 4. CLOSE THE FRAME COVER TO ENSURE NO DIRT ENTERS IF THE BATTERY WAS REMOVED TO CHARGE IT OUTSIDE THE BICYCLE.

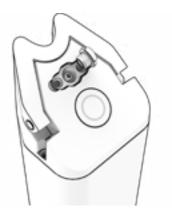


2. USE THE KEY TO OPEN THE BATTERY COVER.



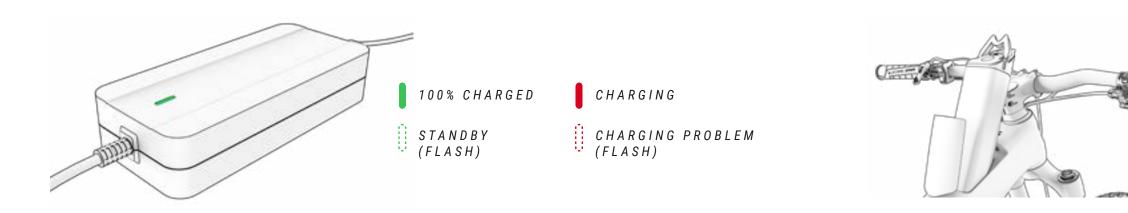
3. LIFT THE BATTERY HANDLE AND PULL UPWARDS TO CHARGE IT OUTSIDE THE FRAME.

5. OPEN THE BATTERY COVER TO CONNECT THE BATTERY CHARGER FIRST AND THEN PLUG INTO THE POWER SOCKET.

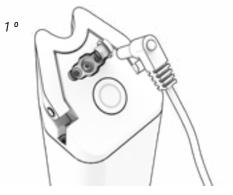


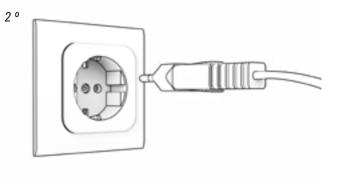
#### 6. VIEW THE STATE OF CHARGE AND ERRORS.

#### 10. FIT THE BATTERY INSIDE THE FRAME.



7. ALWAYS DISCONNECT THE BATTERY CHARGER FIRST AND THEN REMOVE THE PLUG FROM THE POWER SOCKET.

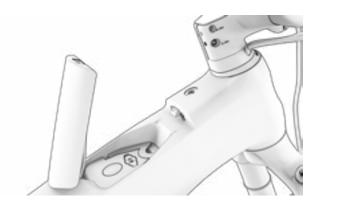




8. FIRMLY CLOSE THE BATTERY COVER.



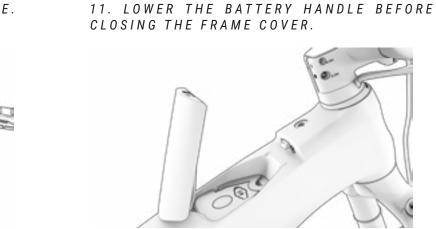
9. USE THE KEY TO OPEN THE BATTERY COVER.



12. CLOSE THE FRAME COVER AND CHECK THAT IT DOES NOT OPEN.



- ⚠ Never charge or use a damaged battery.
- Δ temperatures.
- wait for the battery to cool down.
- Never touch the power plug, charging plug or contacts with wet hands.
- ⚠
- ()



Be careful not to touch the charger during the charging process. It may be hot, especially in high ambient

If a fault occurs while the battery is being charged, remove the charger's power plug from the socket and

Make sure that there is no foreign matter on the battery's contacts before placing it on the bicycle.

Do not connect the charger's power plug to the battery or bicycle's charging port if it is wet or damp. Make sure that you only connect the power plug when the battery or bicycle's charging port is completely dry.

Do not apply excessive force on the power plug or pull the cable with the power plug connected to the battery.

- Turn off the pedal assistance system before removing the battery from the bicycle.  $\square$
- Use both hands to remove the battery, taking special care not to drop it. Dropping the battery on your foot could cause injury and may damage the battery.

#### ENERGY SAVING MODES

The battery has been designed to ensure a long service life. This is possible thanks to the energy saving modes that prevent inefficient battery consumption:

• **Transport mode:** In order to minimise internal consumption while transporting the bicycle from the factory to the store, the battery is in Transport mode. The user can finally exit this Transport mode by charging the battery to 100% before its first use.

If the battery does not charge fully, the Transport mode will not deactivate, repeatedly entering this mode quickly for its protection. Remember to fully charge the battery to finally deactivate the Transport mode.

Standby mode: In order to minimise internal consumption, the battery automatically switches to Standby mode. This happens automatically when the system detects no charging, no discharging and no communication with the battery for a period of 10 minutes. So, for example, this mode will automatically turn off the control panel after 10 minutes without use, if the user has left it on after parking.

The user can exit this Standby mode by simply turning on the bicycle's control panel.

- **Deep Sleep mode:** In order to protect the battery during long periods of inactivity or storage (for example, during the winter), the battery automatically switches to Deep Sleep mode. This happens automatically when any of the following situations occur:
- If the charge level of the battery is below 1%, the battery goes into Deep Sleep mode when the battery has continuously been in Standby mode for 10 minutes.
- If the charge level of the battery is below 10%, the battery goes into Deep Sleep mode when the battery has continuously been in Standby mode for 48 hours.
- If the charge level of the battery is below 40%: Deep Sleep mode is activated when the battery has continuously been in Standby mode for 14 days.
- If the charge level of the battery is below 80%: Deep Sleep mode is activated when the battery has continuously been in Standby mode for 30 days.

The user can exit this Deep Sleep mode by pressing and holding the battery's SOC button (which checks the charge level) for 5 seconds or by starting to charge the battery with the charger. All LEDs will flash twice in the Standby mode and once in the Deep Sleep mode.

#### APP BH BIKES ICONNECT

The BH Bikes iConnect app can be used to customise the configuration of the pedal assistance system:

- Change the assistance level colours.

#### Download the app (available for IOS and Android) and follow these steps to link your bicycle to the app:

App Store: <u>https://apps.apple.</u> com/es/app/bh-bikes-iconnect/ id1494346206



#### Watch the video from the following link to learn how the app works:

https://youtu.be/k4s0iG0cX3U



#### The general operation is described below:

#### 1. TAP ON "SEARCH" TO SEARCH FOR AVAILABLE DEVICES.



Changing the assistance (0-100%) and acceleration parameters for each level of assistance.



Google Play: <u>https://play.google.</u> com/store/apps/details?id=com. <u>bh.ebikelight</u>





#### 2. TAP ON UPLOAD TO LOAD THE BICYCLE'S CONFIGURATION TO THE APP.

<	Settings		C Dates	-
SPORT			ALC: COM	
LED Color		>	Participant Provide	15.5
Assist Power		755.>	Academica	
Acceleration		100 % >	anger 110 Date	
BOOST				coeff 8.3
EED Codes		<b>—</b> >	*** 🛄	
Assist Power		100% >	BRONT ALIE DAY	-
Acceleration		100 % >	Augustions -	
			-	104.5
			107510	
-			Department of	THE 2

#### 3. CHANGE THE COLOUR, ASSISTANCE AND ACCELERATION OF EACH MODE.

<	Settings	< ECO Assist Power
SPORT		25.01
LED Color	<b>—</b> >	dommhunhunhunun
Assist Power	75% >	13 20 20 40
Acceleration	100 % >	OK
BOOST		
LED Color	<b>—</b> >	
Assist Power	100 N >	
Acceleration	100 % >	
	DOWNLINE	

SENSOR".

6964

5953

0	Settings
SPORT	
LED Color	>
Assist Power	75% >
Acceleration	100 % >
BOOST	
(ED Color	>
Assist Power	100 % >
Acceleration	100 % >

#### 4. TAP ON "DOWNLOAD" TO SEND THE 4. SELECT THE E - B eB .

✓	
r	

# Añadir sensor 1 6964 5953

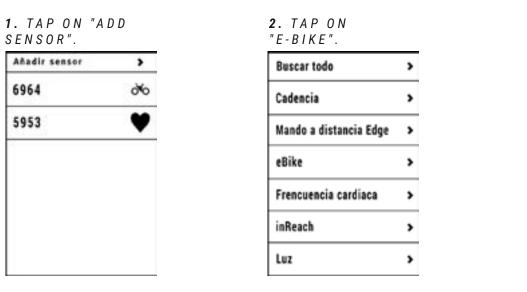
#### Watch the video from the following link to learn how to connect your Garmin device:

#### **OPERATION WITH THE 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 https://youtu.be/K80915-0w5A



the bicycle's battery status and to select the desired pedal assistance level.



#### 3. PAIR WITH YOUR GARMIN DEVICE.

Para conectar el eBike, enciéndelo

O

## SOFTWARE UPDATE OF THE I-REMOTE

The BH control panel and display software must be up-to-date at all times. Updates optimise the safety, energy efficiency, reliability and overall operation of the electrical system. Updates are published on a regular basis on the BH Bikes website. You can find them at the path About / Downloads and manuals / Display updates or at the following link:

#### https://www.bhbikes.com/es\_INT/quienes-somos/manuales-descargas

OTRAS OPERACIÓNES	1	(E) HON TO UPD
	2022	HYNX & CORE MT SOFTWARE VI. 17
ACTUALIZACIÓN DE DISPLAY & SMART KEY	0.010	HOW TO UP:
APPS LINKS	2022	CORE ROAD ( X 0) SOFTWARE VI.13
MANUAL DE USUARIO	100	
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DECLARACIÓN DE CONFORMIDAD	2072	ADDINE CARBON I SOFTWARE SOFTWARE VI. 13
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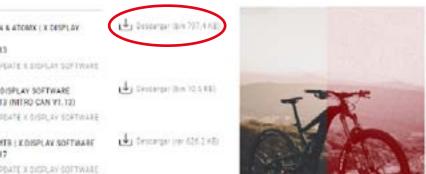
#### ATOMX LYNX CARBON 2025



#### 6. GARMIN CONNECTED.







V0.0 | BH | 16

The latest updates should be checked and the necessary actions should be carried out during regular maintenance or repairs at an official dealer.

▲ Keep in mind that some actions require advanced knowledge and incorrect handling may cause serious accidents. In addition, incorrect handling will not be covered by the warranty.

Watch the video by clicking on the link below to learn about the entire update process:

<u>https://youtu.be/iRKSaQ7bVVE</u>



## ERROR CODES

Errors will be shown with the iRemote LEDs. The errors will be indicated according to the colour, position and number of LEDs lit. The tables below describe the codes used for the LEDs. The first one shows the error codes for red LEDs. The second one shows the error codes for yellow LEDs and the last one for blue LEDs.

#### RED LED CODES

Code	LEDs	Description	Action required
01		System overcurrent.	Check that the connection between the motor and the controller is OK. If not, replace the controller.
02		System overcurrent.	Replace the controller.
03		TMM sensor.	Check that the connection between the TMM sensor and the controller is OK. Check if the TMM sensor's output is exceeding the normal range; it should be 0.1 V-3.5 V.
04		Error in the motor.	Check the motor's connector or the controller.
05		Error in the motor's sensor.	Check that the connection between the motor and the controller is OK. If the sensor inside the motor is broken, replace the sensor or the motor with a new one. Check that the connection between the motor's cable and the controller is OK. If not, replace the controller.
06		Walk mode icon.	
07		Brake sensor input.	-
08		Low battery.	Check the battery level or replace it with a new one.
09		Blocked motor.	Motor stopped. Replace motor.
10		System overcurrent.	If there is faulty contact between the controller and the motor's connector, replace it with a new one.
11		Overheating.	If the temperature exceeds the set value, the current will become gradually weaker.
12		Protection against overheating.	The controller stops on entering temperature protection mode.
13		Communication error	Check the cable and the connector.
14		Pedal error.	Take your foot off the pedal and turn it back on.



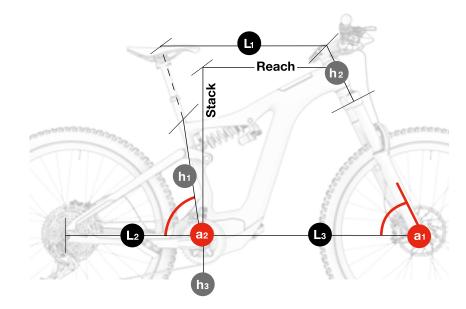
#### YELLOW LED CODES

Code	LEDs	Description	Action required
16		CAN communication error.	Check the cables and connections between all of the system's components.
20		Low battery level.	Charge the battery and stop using it before it reaches 1% of its capacity.
21		Overvoltage protection	Completely shut down the system and then restart it. If the problem persists, contact your electric bicycle dealer.
22		Torque sensor out of range.	Completely shut down the system and then restart it. If the problem persists, contact your electric bicycle dealer.
23		Overheating protection.	Completely shut down the system and then restart it. If the problem persists, contact your electric bicycle dealer.
24		Overheating protection.	Completely shut down the system and then restart it. If the problem persists, contact your electric bicycle dealer.
25		Overcurrent protection.	Completely shut down the system and then restart it. If the problem persists, contact your electric bicycle dealer.
26		Error in the torque sensor.	Completely shut down the system and then restart it. If the problem persists, contact your electric bicycle dealer.
27		Error in the speed sensor.	Completely shut down the system and then restart it. If the problem persists, contact your electric bicycle dealer.
28		Overheating protection.	Completely shut down the system and then restart it. If the problem persists, contact your electric bicycle dealer.

#### BLUE LED CODES

Code	LEDs	Description	Action required
		Speed sensor fault.	Check the speed sensor magnet on the rear wheel.

# **07** SIZES AND DIMENSIONS



#### ER995 ER985 ER975 ER925 ER905 ATOMX LYNX CARBON PRO

	h1	h2	h3	L1	L2	L3	a1	a2	Stack	Reach		h1	h2	h3	L1	L2	L3	a1	a2	Stack	Reach
SM	390	95	346	570	454	739	65	76,0	621	423	SM	390	95	340	567	455	730	66	77,0	603	428
MD	410	100	346	598	454	767	65	76,0	625	450	MD	410	100	340	595	455	758	66	77,0	607	455
LA	440	110	346	620	454	790	65	76,0	634	470	LA	440	110	340	617	455	783	66	77,0	616	475
XL	480	125	346	638	454	813	65	76,0	648	485	XL	480	125	340	635	455	804	66	77,0	630	490

ER565 ATOMX CROSS PRO-S

	h1	h2	h3	L1	L2	L3	a1	a2	Stac
SM	420	110	340		453		69	74,0	
MD	450	120	340	595	453	696	69	74,0	60
LA	480	135	340	621	453	721	69	74,0	61
XL	510	150	340	640	453	741	69	74,0	629

DOUBLE SUSPENSION

#### ER875 ER845 ER825 ATOMX LYNX CARBON PRO

ack Reach

601 425

515 445

529 460

# **08** TECHNICAL SPECIFICATIONS

#### GENERAL SPECIFICATIONS

Characteristics	Models	Specification		
Frame materials				
Front triangle	All	Carbon		
	ER995 / ER985 / ER975 / ER875	Carbon		
Swingarm (chainstays and seat posts)	ER925 / ER905 / ER845 / ER825/ ER565	Aluminium alloy		
	ER995 / ER985 / ER975 / ER875	Carbon		
Tie rod	ER925 / ER905 / ER845 / ER825/ ER565	Aluminium alloy		
	ER995 / ER985/ ER975 / ER925/ ER905	Enduro		
Recommended use	ER875 / ER845/ ER825	Trail		
	ER565	Urban		
Sizes	All	S, M, L, XL		
Suspension design	All	Double, Split Pivot system		
	ER995 / ER985/ ER975 / ER925/ ER905	160		
Fork travel	ER875 / ER845/ ER825	140		
	ER565	120		
Maximum fork length (axle to crown)	All	580 mm		

Characteristics	Models	Specification				
Fork offset	All	Contact the model's supplier.				
Shock absorber dimensions	All	Contact the model's supplier.				
Compatibility with spring shock absorbers	All	Depends on the shock absorber and spring dimensions. Contact the manufacturer.				
Steering	All	1 1/8" Steerer				
Chain line	All	53 mm				
Wheel size	ER995 / ER985/ ER975 / ER875/ ER925 / ER905/ ER845 / ER825	29"				
	ER565	27.5"				
Maximum size of the rear tyre	All	2.4" (61mm)				
Maximum size of the front tyre	All	Depends on the fork.				
Speed magnet assembly	All	6 Bolt rotor On the brake disc				
Seat post clamp diameter	ER995 / ER985/ ER975 / ER875/ ER925 / ER905 / ER845 / ER825/ ER565	Built-in				
Standard rear axle	All	Boost 12x148				
Rear axle pitch thread	All	1mm				
Length of the rear axle	ER995 / ER985/ ER975 / ER875/ ER925 / ER905 / ER845 / ER825/ ER565	192mm				
Seat post diameter	All	31.6mm				

Characteristics	Models	Specification			
Maximum insertion length of the seat post					
S	All	200mm			
М	All	220mm			
L	All	240mm			
XL	All	240mm			
Compatible with a telescopic seat post with internal cabling	AII	Yes			
Front derailleur	All	No. Only 1X			
Maximum chain ring size	All	38t			
Minimum chain ring size	All	30t			
Compatible with the oval chain ring	All	No			
Type of brakes	All Disc brakes				
Standard rear brake calliper	All	Post Mount			
Maximum rear disc size	All	203mm			
Minimum rear disc size	All	180mm			
Compatible with chain guides	All	Yes			
ICGS	All	No			
Cabling	All	Internal throught DT and CS. Full housing			
Compatible with left rear brake cabling	All	Yes			
Bottle holder	All	All sizes. Standard bottle holder.			
Potentiometer compatibility	All	No			
Compatible with trailers	All	No			
Pannier rack assembly	All	No			
Mudguard assembly	All	No			
Child seat assembly	All	No			
Maximum recommended weight (cyclist+equipment+bags)	All	165Kg			

#### MOTOR DRIVE SMAG SPECIFICATIONS

Characteristics	Specification				
Rated power	250W				
Voltage	36V				
Туре	Brushless DC				
Assistance	Up to 25 km/h				
Maximum torque	90Nm				
Weight	2900g				
Pedal assistance modes	6				
Walk assist	Yes (by pressing and holding the + button)				
Cadence range	130/min.				
Sensors	Cadence / Torque / Speed				
System technology	CAN bus				

#### BATTERY SPECIFICATIONS

Characteristics	Specification
Voltage	36V
Capacity	720WH
Weight	3600g
Cell pack	40 (10S4P)
Charge level	With the battery mounted on the frame or outside the frame.
Dimensions	510x92x69mm
Connection	Cable connected to the motor, charging port and control panel.
Watertightness	IP65

#### CHARGER SPECIFICATIONS

Characteristics	Specification
Input	100-240V. 50-60Hz. AC
Output	42V
Charging current	4A
Charging temperature range	0°C - 40°C
Display of the charging progress	With the LED built into the charger

#### CONTROL PANEL SPECIFICATIONS, I-REMOTE

Characteristics	Specification
F	Display of the charge level
	Change of assistance mode
Functions	On and off
	Display of errors.

#### SPEED SENSOR SPECIFICATIONS

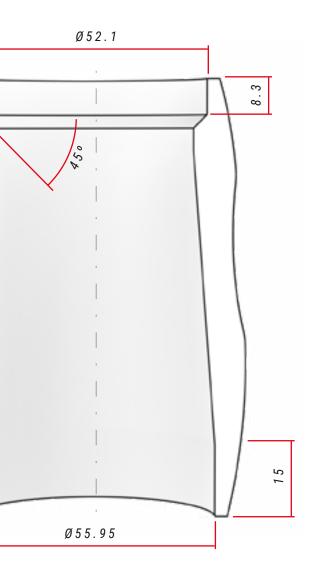
Characteristics	Specification
Assembly	Built into the left chainstay. Internal cabling.
Magnet	On the brake disc.

# **09** ASSEMBLY AND SPARE PARTS

## DIMENSIONS OF THE STEERING TUBE

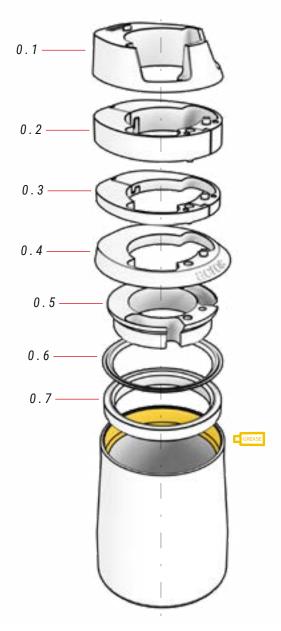
#### STEERING SPECIFICATIONS

Туре		Contact angle with the compression ring / fork track	Bearing dimensions		
Upper	1-1/8" Steerer	45°	42x52x7		
Lower	1,5" Steerer	45°	40x52x7, R2		



#### HEADSET ASSEMBLY

#### FIT STEM ASSEMBLY



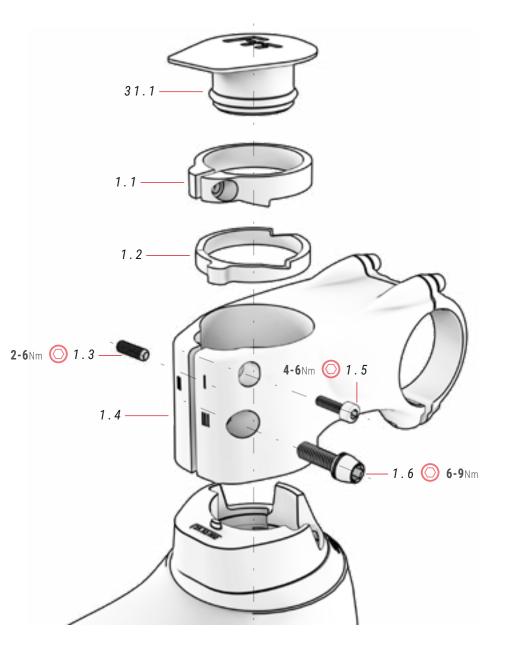
#### **00** HEADSET

ref.: **383260100** 

No.	Item	Quantity
0.1	Top cover, cable insertion point	1
0.2	10 mm spacer (2 parts)	1
0.3	5 mm spacer (2 parts)	1
0.4	Steering tube cover	1
0.5	Cable routing ring	1

Part 0.8 can be mounted with the notch facing the frame, but part 0.9 must always be mounted in the first position, as shown in the images.

No.	Item	Quantity
0.6	Sealing ring	1
0.7	Angular contact bearing 42x52x7	1
0.8	Housing / Angular contact bearing 40x52x7 / Block-Lock locking piece	1
0.9	Base 1.5" chain ring, Block-Lock	1



<b>01</b> F	IT STEM	ref.: <b>384612600</b>
No.	ltem	Quantity
1.1	Top washer	1
1.2	Bottom washer	1
1.3	Stay bolt	1
1.4	FIT stem	1

09 ASSEMBLY AND SPARE PARTS

ATOMX LYNX CARBON 2025

FIT STEM ASSEMBLY INSTRUCTION VIDEO



https://youtu.be/hJ0CCBBYKQk

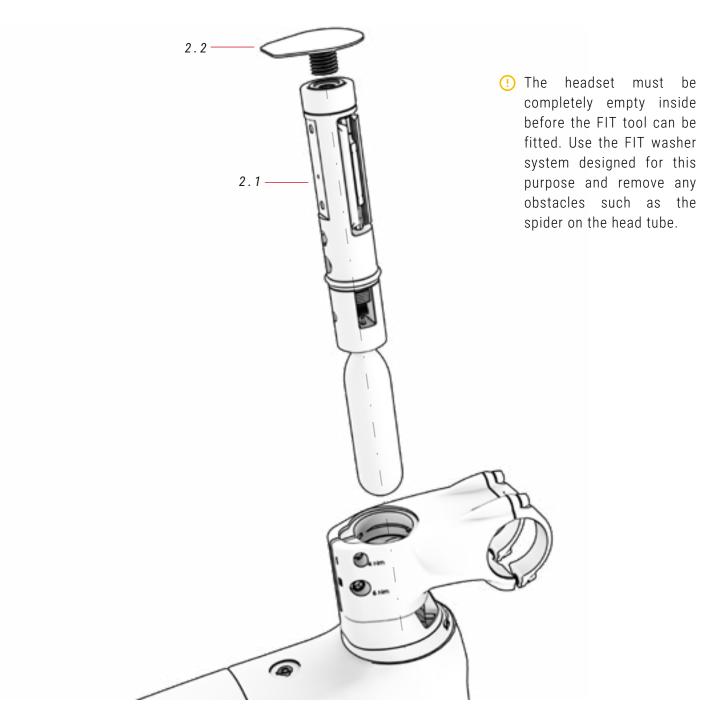
▲ Thanks to the washer system (1.1 and 1.2), the FIT.1 stem eliminates all gaps without using a spindle. Carefully follow all of the steps described in this video to mount the stem correctly and prevent accidents.

No.	Item	Quantity
1.5	Bolt	1
1.6	Bolt	1

#### 31 FIT STEM CAP

No.	Item	Quantity
31.1	FIT stem cap	1

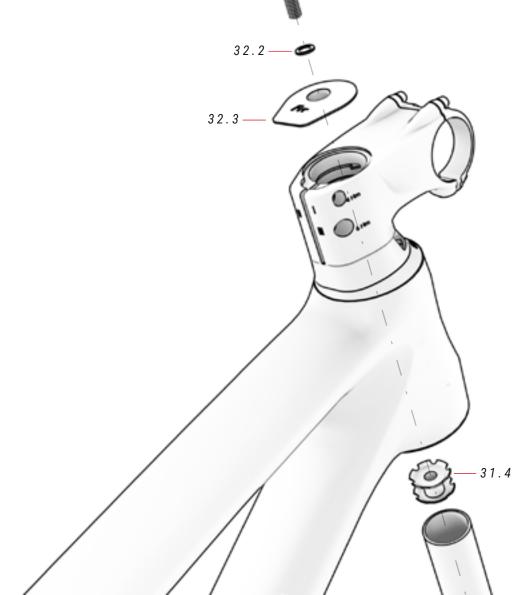
#### MOUNTING THE BH FIT TOOL



#### FIT STEM MOUNT WITH THE SPIDER EVO / RC MODELS

**5**Nm 🔘 32.1— 32.2 —





#### **32** FIT COVER AND SPIDER ref.: 363297300

No.	Item	Quantity	Ν	No.	Item	Quantity
32.1	Bolt	1	Э	32.3	FIT cover with spider mounting	1
32.2	Washer	1	S	32.4	Spider	1

#### **02** FIT TOOL

No.	Item	Quantity
2.1	FIT (sold separately)	1
2.2	Threaded cover for tool. FIT	1

#### ATOMX LYNX CARBON 2025

The innovative washer system of the FIT stem allows you to eliminate clearances in the headset while keeping the steerer tube free to mount the FIT tool inside the steerer tube. If you do not mount the FIT tool, the FIT stem allows you to mount the headset with the traditional spider system if you prefer. The steps for mounting the headset using the spider system are described below:

▲ Not following the steps described in this section correctly may result in a serious accident. Be sure to apply the specified torque to each bolt.

# 1. INSERT THE SPIDER INTO THE STEERER TUBE OF THE FORK.



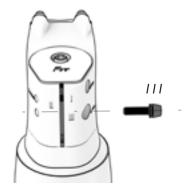
▲ It is recommended to use a duller to ensure that the spider is inserted into the steerer tube perfectly aligned.

#### 2. INSERT THE FORK INTO THE STEERER TUBE AND TIGHTEN THE UPPER BOLT (5NM) TO ELIMINATE CLEARANCES.



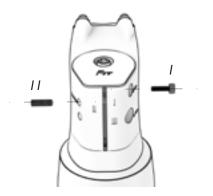
▲ The washers will have no function when the spider is added. Therefore, you can choose to remove them or store them inside the stem.

# 3. TIGHTEN STEM BOLT "III" TO SECURE THE ENTIRE HEADSET.



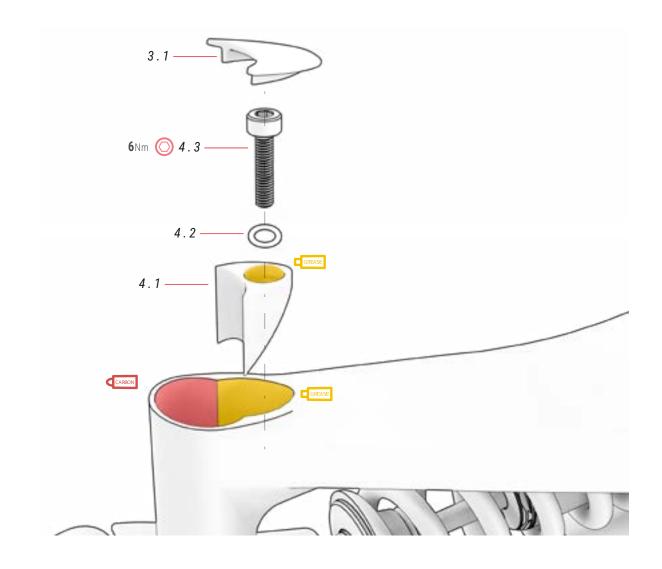
▲ The stem must be perfectly aligned with the wheel.

4. IF YOU DO NOT REMOVE THE WASHERS, TIGHTEN BOLT "I" FIRST AND THEN BOLT "II". TO REMOVE THE STEM, START BY REMOVING BOLT "II".



▲ The purpose of tightening the bolts is to keep the washers from moving. Therefore, do not apply too much torque.

#### MOUNTING THE BUILT-IN LOCK ON THE SADDLE'S SEAT POST



#### **03** SEAT POST CLAMP PLUG ref.: 381528300

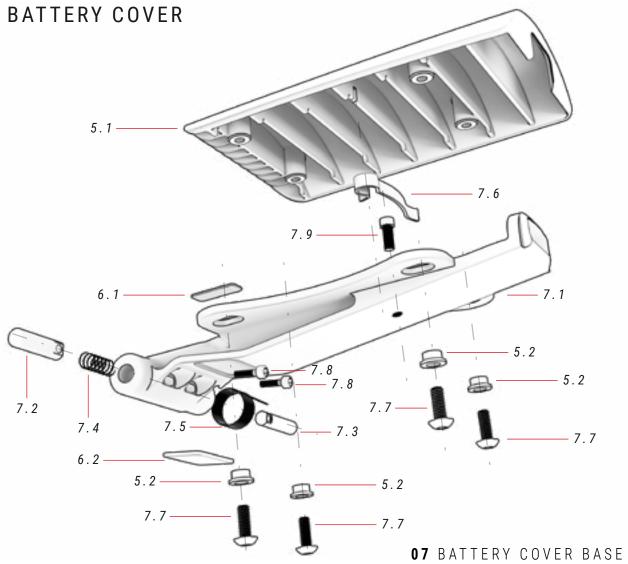
No.	Item	Quan
3.1	Seat post cover	1

antity

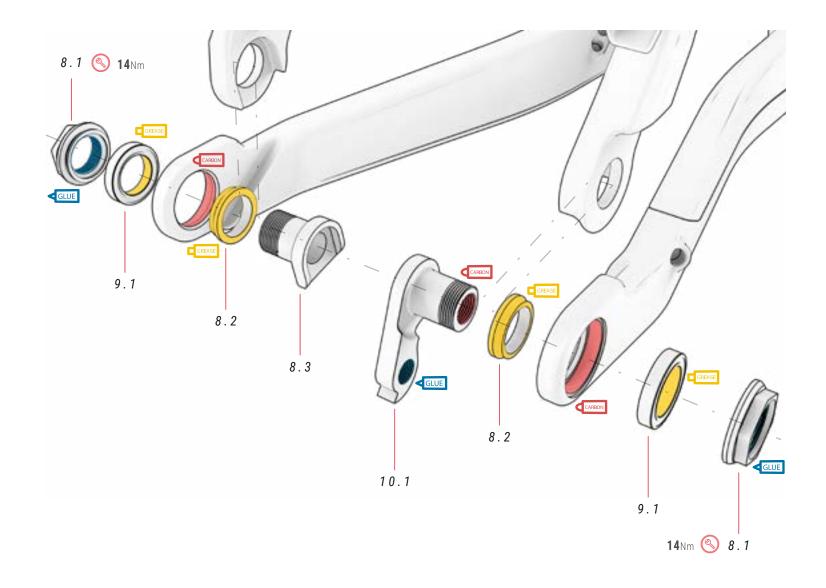
**04** CLAMP

ref.: 386139300

No.	Item	Quantity
4.1	Clamp	1
4.2	Washer	1
4.3	Bolt M6xP1.0x25 mm	1



## REAR AXLE SPLIT PIVOT AND HANGER



#### **05** BATTERY COVER

ref.: **387339700** 

No.	Item	Quantity
5.1	Battery cover	1
5.2	Washer	4

#### **06** BATTERY COVER FOAM ref.: **387443000**

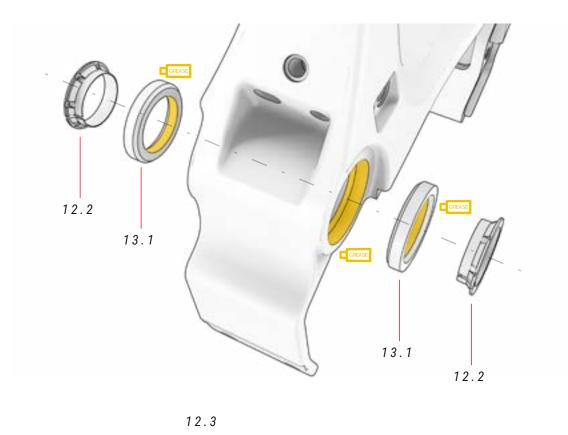
No.	Item	Quantity
6.1	Upper foam	1
6.2	Inner foam	1

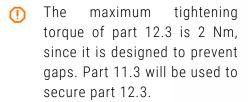
No.	Item	Quantity
7.1	Cover base	1
7.2	Folding hinge (short)	1
7.3	Folding hinge (long)	1
7.4	Compression spring	1
7.5	Torsion spring	1
7.6	Leaf spring	1
7.7	Self-threading bolts M4xP0.7x10 mm	4
7.8	Bolt	2
7.9	Bolt M4xP0.7x8 mm	1

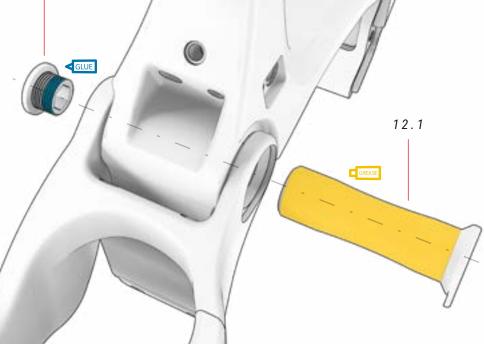
08	SPLIT PIVOT	ref.: <b>381529700</b>	09 8	SPLIT PIVOT BEARING	ref.: <b>381529800</b>
No.	Item	Quantity	No.	Item	Quantity
8.1	Set of nuts	2	9.1	Dropout bearing Ø17/Ø26/5 mm	2
8.2	Washer	2			
8.3	Set of bolts	1	<b>10</b> F	REAR HANGER	ref.: <b>381521400</b>

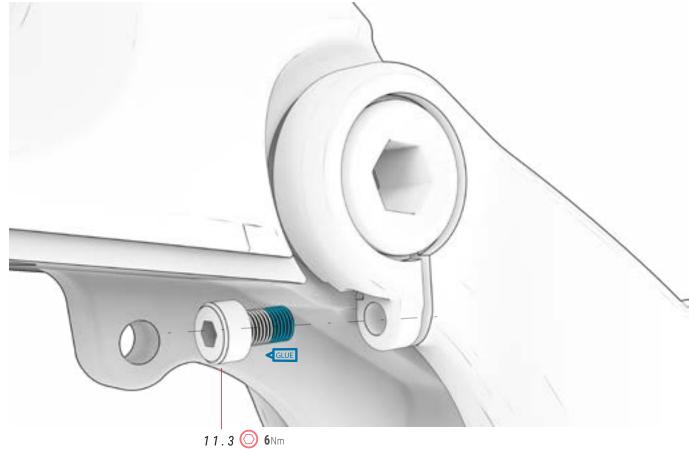
No.	ltem	Quantity
10.1	Rear hanger	1

#### MAIN PIVOT AXLE









<b>11</b> S	CREWS+NUTS SET	ref.: <b>381530500</b>
No.	Item	Quantity
11.1	BH - Post Mount	2
11.2	Bolt	1
11.3	Bolt M6xP1.0x20 mm	1
11.4	Nut	2

#### 12 MAIN PIVOT AXLE

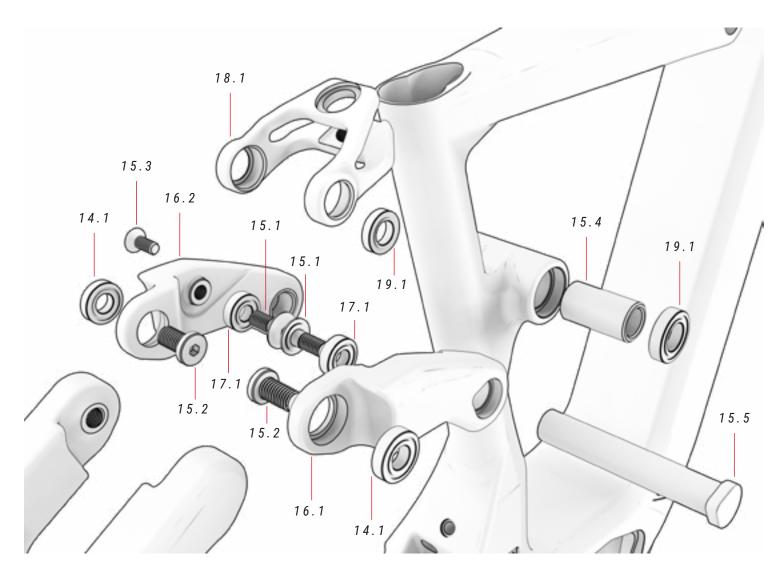
ref.: **381530200** 

No.	ltem	Quantity
12.1	Thru-axle	1
12.2	Elastic bushing	2
12.3	Bolt	1

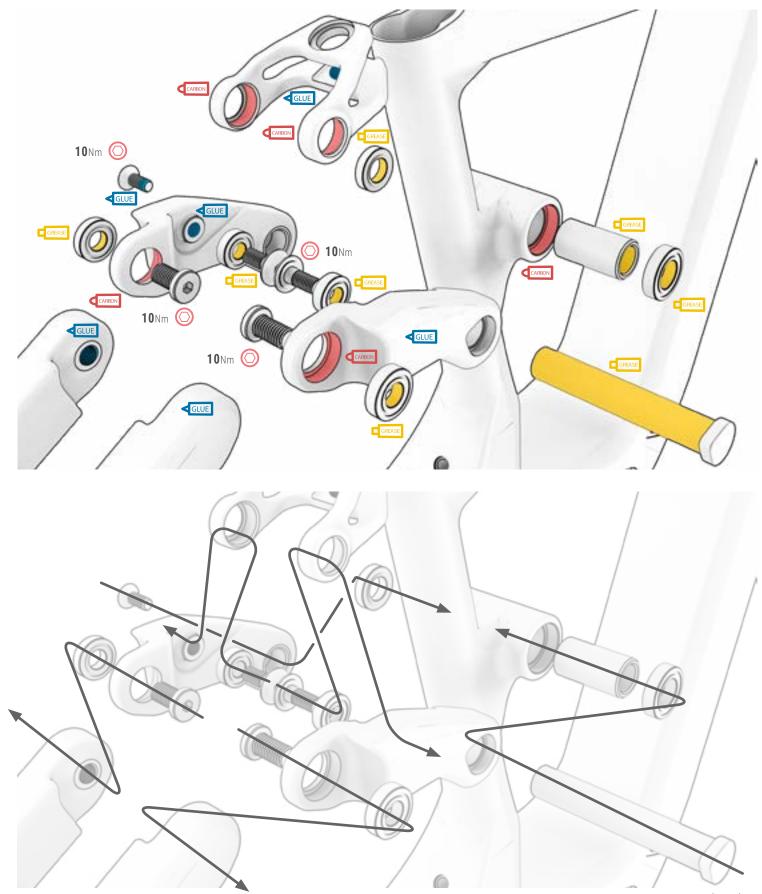
#### **13** MAIN PIVOT BEARING

No.	Item	Quantity
13.1	Bearing Ø27.15xØ38x6.5 mm 36X45° 1″HS	2

#### EXPLODED VIEW OF THE ROCKER



# 10Nm 🔘 10Nm 🔘 **10**Nm



#### **14** SEAT STAYS-ROCKER BEARING ref.: **381530000**

No.	Item	Quantity
14.1	Bearings Ø10xØ22x6 mm	4

#### 16 ROCKER SET

# ref.: **341103400**

No.	Item	Quantity
16.1	Right rocker	1
16.2	Left rocker	1

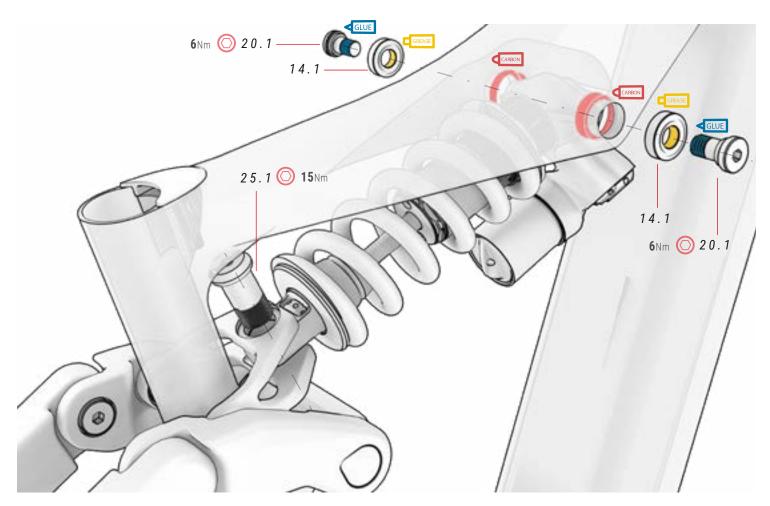
#### 15 CLEVIS BOLT SET

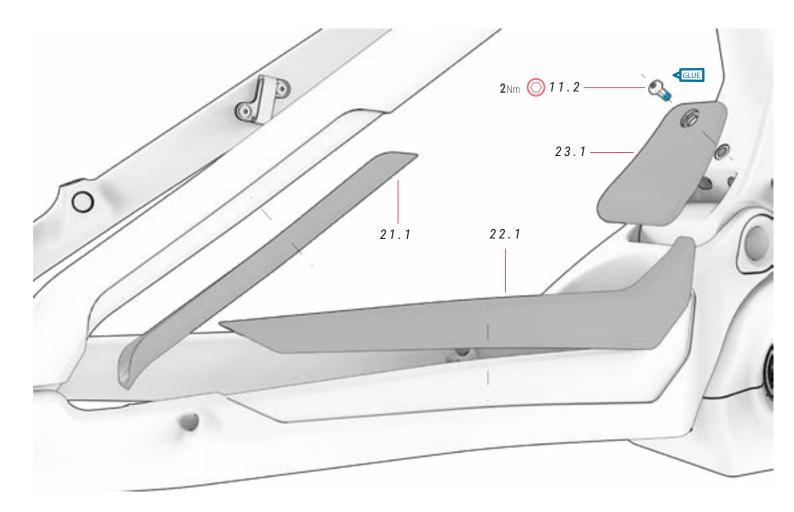
No.	Item	Quantity
15.1	Bolt M8xP1.25x21 mm	2
15.2	Bolt M10xP1.5x18 mm	2
15.3	Bolt M8xP1.25x20 mm	1
15.4	Bushing Ø22xØ15.2x47 mm	1
15.5	Bolt M8xP1.25x88	1

ATOMX LYNX CARBON 2025

#### SHOCK ABSORBER ASSEMBLY

#### GUARDS





	N G ref.: 381530600
No. Item	Quantity
17.1 Bearings Ø8xØ19x	6 mm 2

#### 18 CLEVIS

No.	Item	Quantity
18.1	Clevis	1

ref.: **391762700** 

<b>19</b> F	ROCKER BEARING	381530100
No.	Item	Quantity
19.1	Bearing Ø15xØ28x7 mm	2

20	SHOCK UPPER FIXING AXLE AND BOLT	ref.: <b>381530400</b>
No.	Item	Quantity
20.1	Bolt M10xP1.0x22 mm	2

#### 25 CLEVIS SHOCK FIXING BOLT ref: 391762800

No.	Item	Quantity
25.1	Shock absorber bolt	1

<b>11</b> S	CREWS+NUTS SET ref.:	381530500
No.	ltem	Quantity
11.1	BH - Post Mount	2
11.2	Bolt M5xP0.8x10 mm	1
11.3	Bolt	1
11.4	Nut	2

#### **21** SEAT STAY PROTECTOR ref.: **393235200**

No.	Item	Quanti
21.1	Seat stay protector	1

#### **09** ASSEMBLY AND SPARE PARTS

#### ATOMX LYNX CARBON 2025

#### **22** CHAIN STAY PROTECTOR ref.: **393235300**

No.	Item	Quantity
22.1	Chain stay protector	1

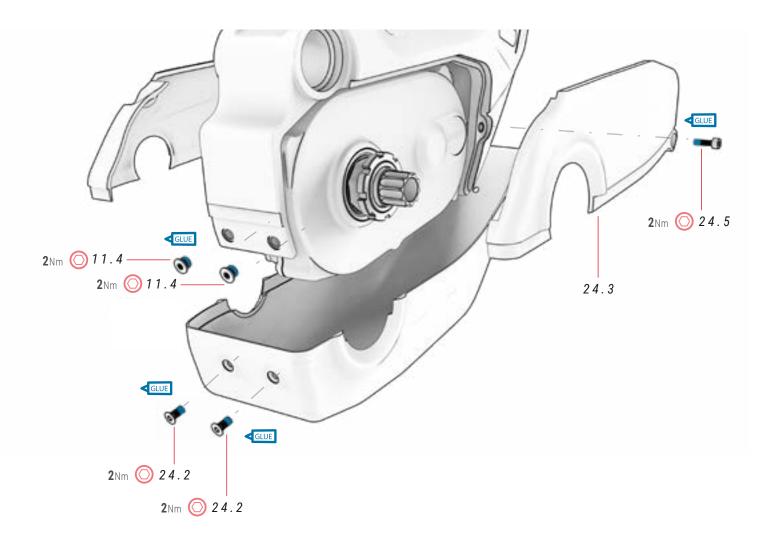
#### **23** REAR MUDGUARD

#### ref.: **386230800**

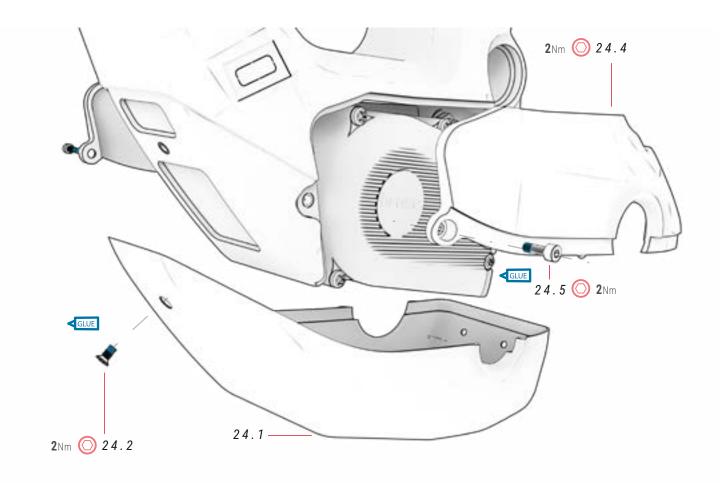
No.	Item	Quantity
23.1	Rear mudguard	1

tity

## MOTOR COVERS



ref.: **386222500** 



#### **24** COVER

No.	Item	Quantity
24.1	Lower motor cover	1
24.2	Bolt M4xP0.7x10 mm	3
24.3	Right motor cover	1
24.4	Left motor cover	1
24.5	Bolt M4xP0.7x16 mm	2

#### 11 SCREWS+NUTS SET

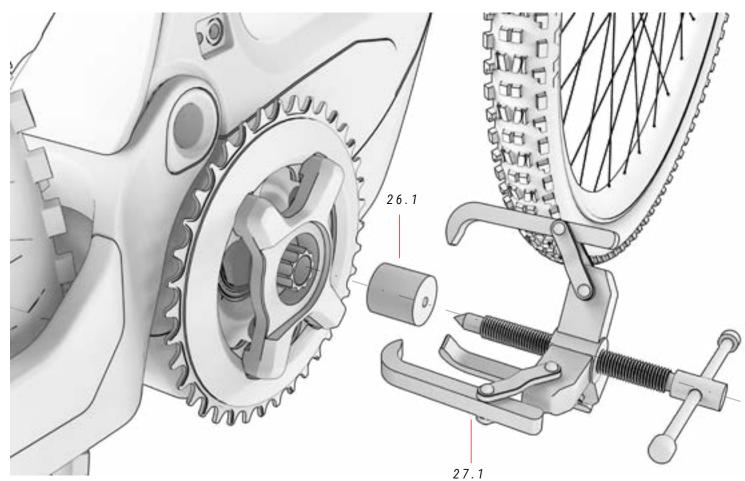
No.	Item	Quantity
11.1	BH - Post Mount	2
11.2	Bolt	1
11.3	Bolt	1
11.4	Nut	2

#### **09** ASSEMBLY AND SPARE PARTS

#### ATOMX LYNX CARBON 2025

#### CHAIN GUIDE

# 25.1 GLUE 0 25.5 0) GLUE 25.2 25.4 25.3



#### **25** CHAIN GUIDE

No.	Item	Quantity
25.1	Bolt	1
25.2	Bolt	3
25.3	Guide	1
25.4	Bracket	1
25.5	Fastener	2

26	GROOVED NUT TOOL	ref.: <b>387244400</b>
No.	Item	Quantity
26.1	Tool for grooved nut	1

## SMAG MOTOR CHAINSET

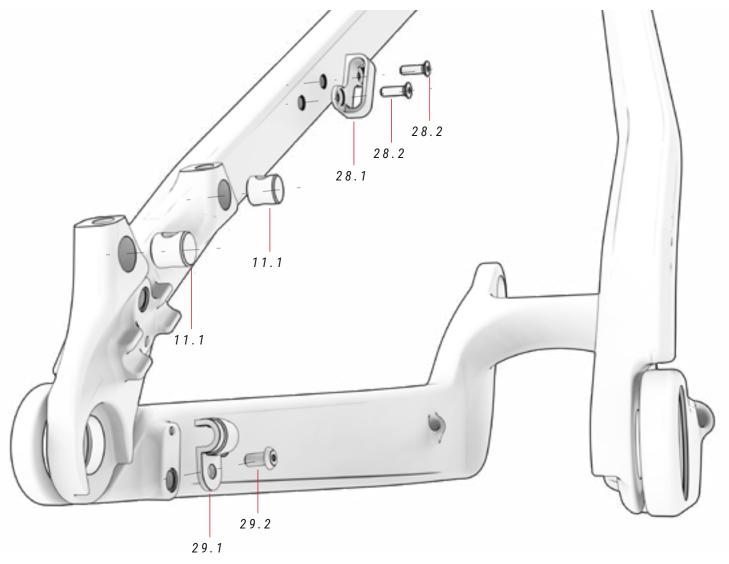
#### 4400

#### **27** CHAINSET EXTRACTOR WITH CAP

No.	Item	Quantity
27.1	Chainset extractor with cap	1

#### SPEED SENSOR AND CABLE GUIDES

#### SPEED SENSOR MAGNET



ref.: **381530500** 

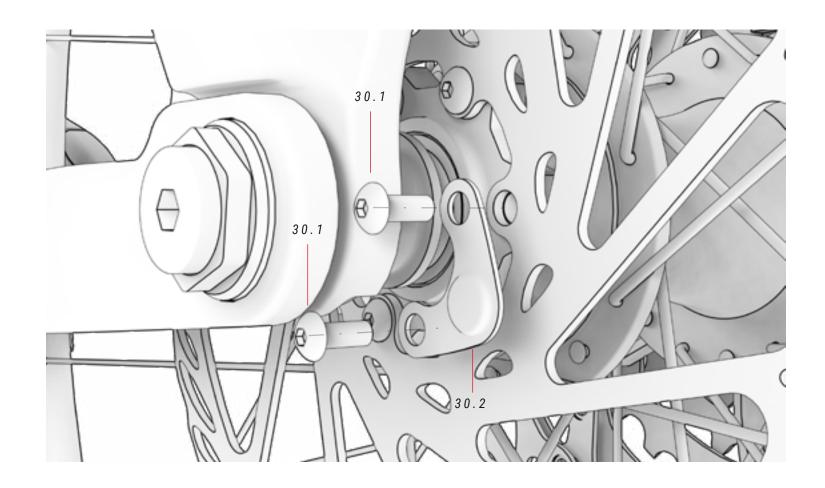
Quantity

2

1

1

2



#### 28 UPPER CABLE GUIDE

No.	Item	Quantity
28.1	Plastic bracket	1
28.2	Bolts	2

#### **29** SPEED SENSOR CABLE GUIDE

No.	Item	Quantity
29.1	Plastic bracket	1
29.2	Bolts	2

#### **30** SPEED SENSOR MAGNET

No.	Item	Quantity
30.1	Disc fastening bolts	2
30.2	Speed sensor magnet	1

**11** SCREWS+NUTS SET

No. Item

11.2 Bolt

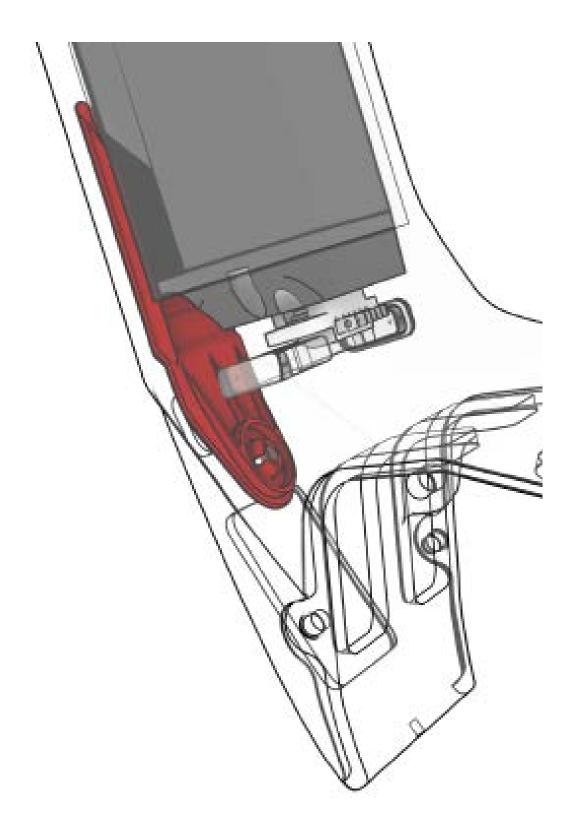
11.3 Bolt

11.4 Nut

11.1 BH - Post Mount

V0.0 | BH | 31

#### BATTERY GUIDE



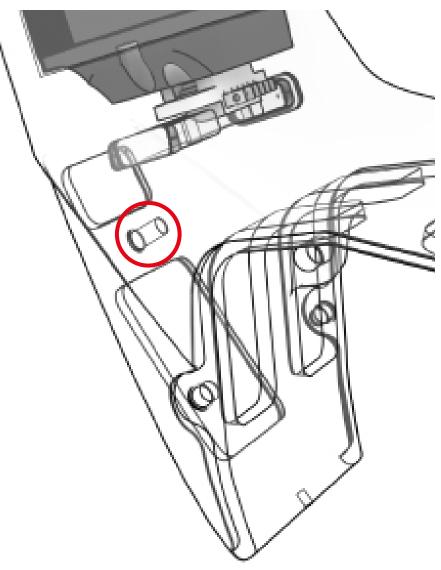
**ASSEMBLY:** REMOVE THE PLASTIC FILM PROTECTING THE GLUE ON THE PART. THEN, INSERT IT INTO THE DIAGONAL TUBE OF THE BIKE AND ASSEMBLE IT BY PRESSING IT AGAINST THE HOUSING OF THE SCREW (MARKED IN RED) THAT FIXES THE MOTOR COVER. FINALLY, PRESS THE PART AGAINST THE FRAME SO THAT THE GLUE FIXES IT COMPLETELY.



① Check the frame size to fit the compatible battery guide. Assemble the same size as the frame.

#### 33 BATTERY GUIDE SIZES S-M ref.: 386232

No.	Item	Quan
33.1	Battery guide sizes S-M	1



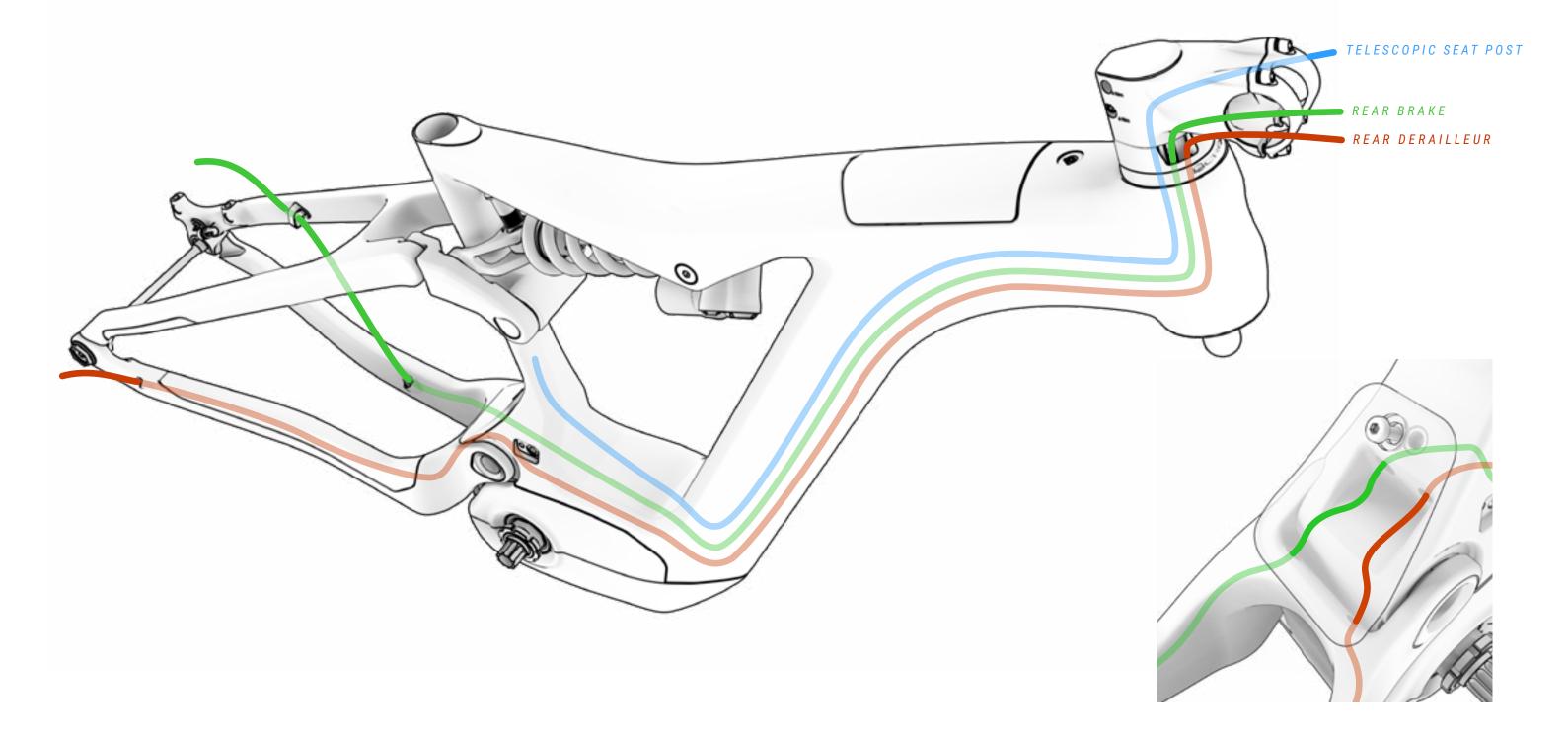
)	7	1	n	n
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34 BATTERY GUIDE SIZES L-XL ref.: 386237200

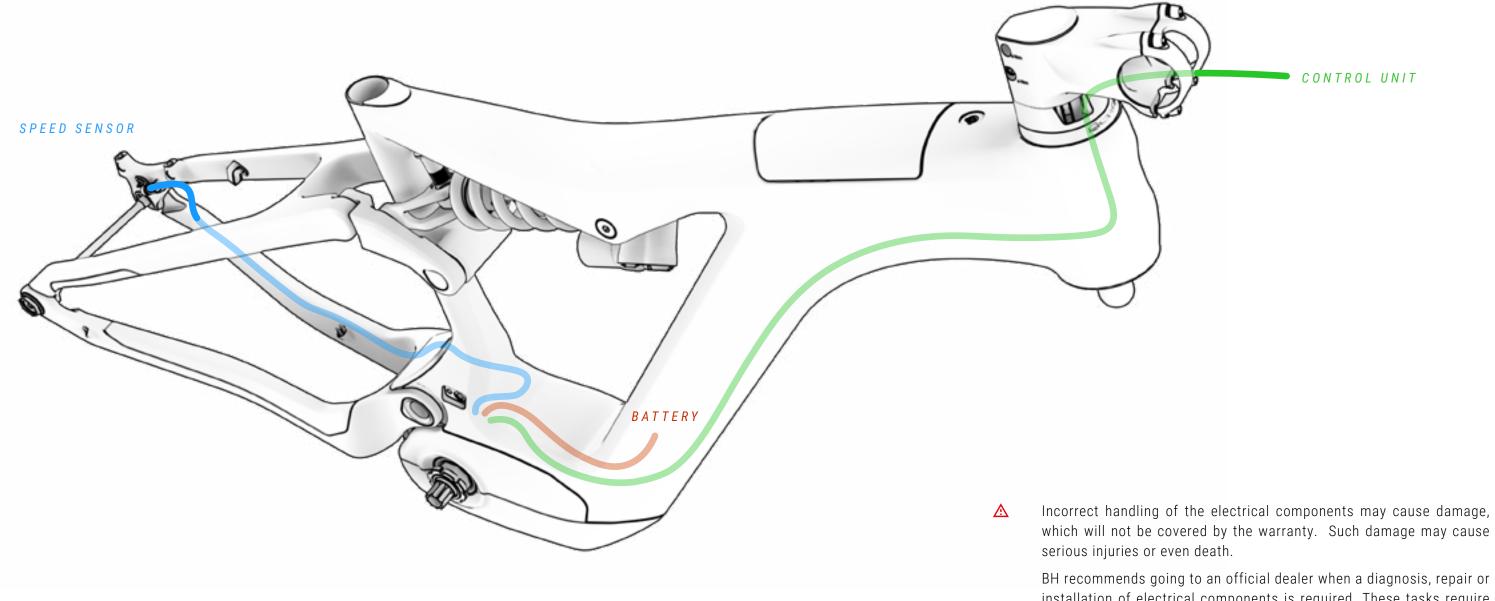
No.	Item	Quantity
34.1	Battery guide sizes L-XL	1

#### CABLING OF THE MECHANICAL PARTS

The FIT stem allows the mechanical and electrical cables to be wired directly through its front holes, achieving a more aerodynamic, clean and minimalist finish. In addition, the cables are routed from the frame to the chainstays, so these are covered and protected at all times.



#### CABLING OF THE ELECTRICAL SYSTEM'S PARTS

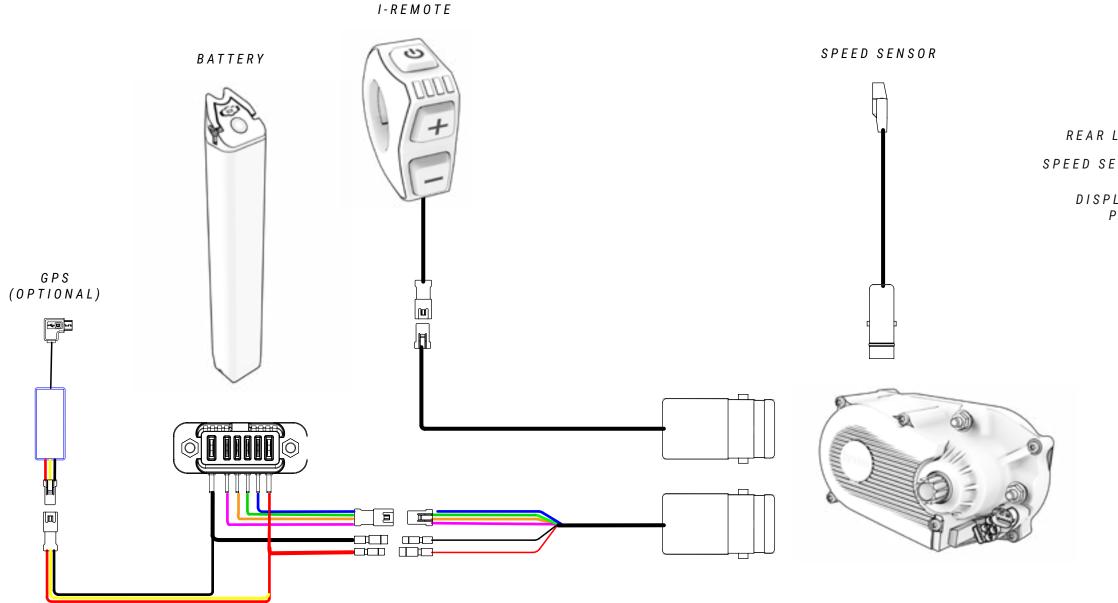


**09** ASSEMBLY AND SPARE PARTS

which will not be covered by the warranty. Such damage may cause

installation of electrical components is required. These tasks require advanced technical knowledge.

#### WIRING DIAGRAM OF THE ELECTRICAL SYSTEM'S PARTS



Incorrect handling of the electrical components may cause damage, which will not be covered by the warranty. Such damage may cause serious injuries or even death.

BH recommends going to an official dealer when a diagnosis, repair or installation of electrical components is required. These tasks require advanced technical knowledge.

#### B A T T E R Y C O N N E C T O R



REAR LIGHT CONNECTOR -

SPEED SENSOR CONNECTOR -

DISPLAY AND CONTROL PANEL CONNECTOR

A

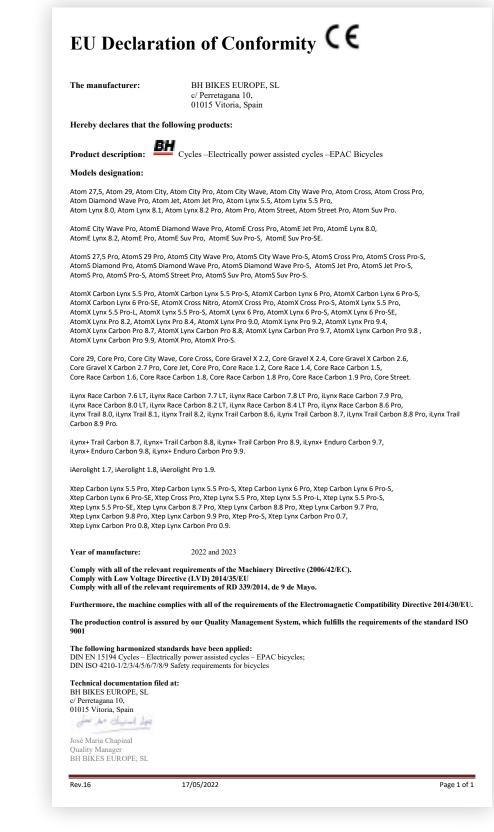
HEADLIGHT CONNECTOR The headlight cables are not supplied with the bicycle; you can purchase them from official suppliers.



When electrical connections come into contact with damp spots or are clogged due to external contamination, a chemical reaction occurs, causing a build-up of lead sulphate crystals in the connections. In other words, the copper on the contacts will rust, resulting in conductivity problems.

The warranty does not cover damage caused by incorrect maintenance of the bicycle's connections. To prevent rust, simply clean the connections (male and female) at regular intervals, using dielectric deoxidisers like the one shown in the image above.

## **10** DECLARATION OF CONFORMITY



# **11** HELP AND ADDITIONAL RESOURCES

BH offers different channels to resolve your queries. In addition, you can join our global cyclist community on our social media.

#### TECHNICAL RESOURCES

You can find all of the resources you need to fine-tune your bicycle on the BH Bikes website. Click on the link below to access the user manuals, apps, warranties, display update files and videos that explain different 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

#### CONTACT US

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\_INT/tiendas/buscador-de-tiendas

To contact us directly:

Tel.: + 34 945 13 52 02

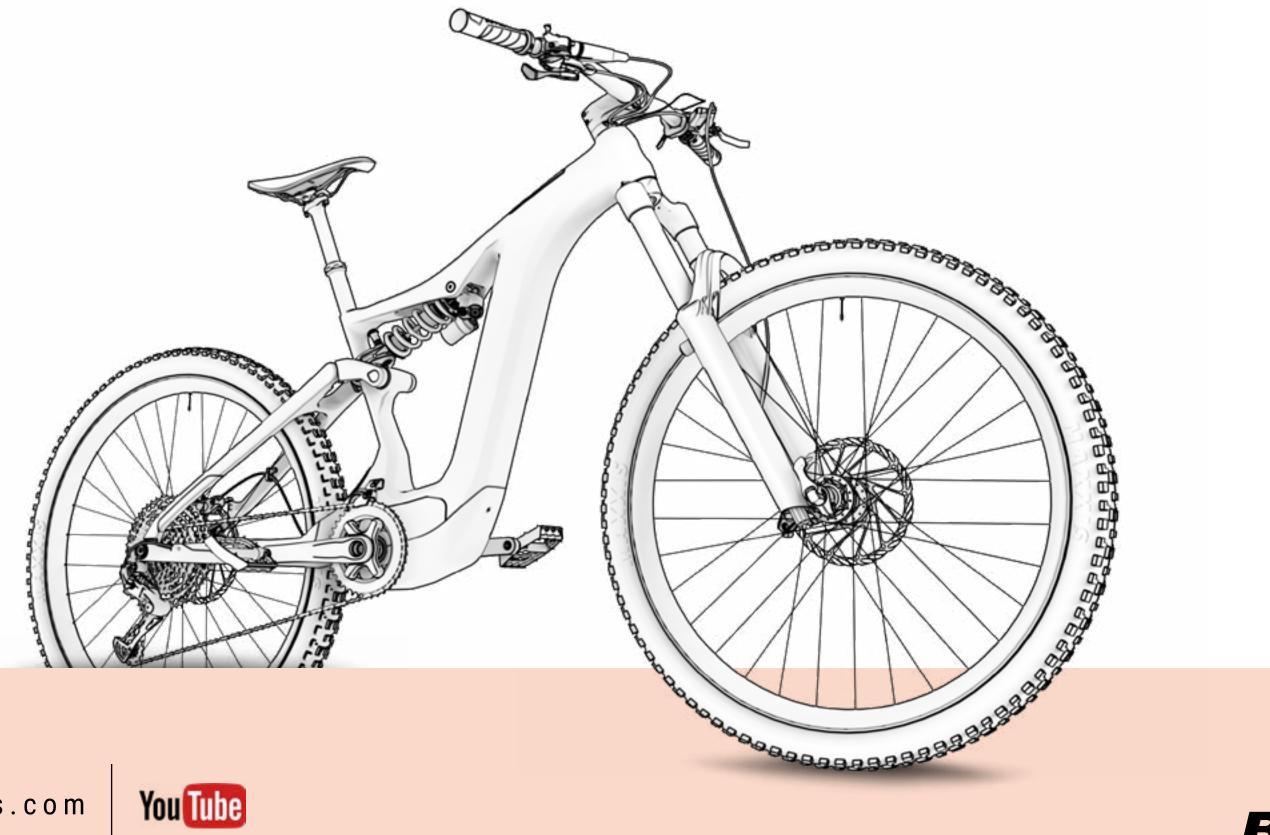
#### info@bhbikes.com

P.I. Jundiz- Perretagana 10, 01015 Vitoria, Alava (Spain)

#### SOCIAL MEDIA

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





www.bhbikes.com



