







QUICK START GUIDE

Version 1.2

This document is not the complete manual for your EPAC. This manual contains important safety, performance and service information. Read it before you take the first ride on your new electric bicycle (eBike), and keep it for reference. Additional safety, performance and service information for specific components such as suspension or pedals on your eBike, or for accessories such as helmets or lights that you purchase, may also be available. Make sure that your authorised retailer has given you all the manufacturers' literature that was included with your eBike or accessories. This manual can be downloaded from our website to access all the updated relevant information about the use and care of this EPAC and it's components, as well as information about spare parts, apps, warranty terms, etc.

This document is not the complete manual for your EPAC. This manual is a Quick Start Guide to get you out riding quickly and safely. Additional safety, performance and service information for specific bicycles and thier components can be found here https://whytebikes.com/pages/documents

All of Whytes manuals can be downloaded from our website to access all the updated relevant information about the use and care of your EPAC. Please note that manuals can be updated at any point.



WELCOME

Welcome to the Whyte Bikes family. Before you get riding on your new bike please ensure you have read all the manuals provided with this product carefully. This manual contains important user directions and safety information to get you riding quickly and safely.

REGISTER

Registering your bike is the official way for us to welcome you into the Whyte Bikes family. It's also an important step in activating your bike's warranty. If you ever have an issue, we'll be able to handle your case efficiently and get you back riding as soon as possible. It's easy and only takes a few minutes. Please follow this link https://whytebikes.com/pages/registration





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O1 - INTRODUCTION 1.1 Manual Info & Symbols

PLEASE NOTE: This manual was drafted in the English language and may have been translated to other applicable languages. This quick start manual assumes that you have basic knowledge or experience of riding pedelec's/bicycles.

Thanks for choosing to purchase this Whyte product. We hope you will enjoy all the benefits of its advanced design and engineering.

This manual will guide you through the set-up, safety and operations procedures that are specific to your Whyte bike. Please read it carefully and for more general information, we strongly advise that you also read the 'General Instructions Manual' and 'EPAC Operating Manual', that is also supplied with your new bike. If you do not have a copy of your 'General Instructions Manual' you can download it for free from www.whytebikes.com/ support

Your Whyte Bikes component specifications that are fitted as standard may be obtained from the Whyte Bikes website www.whytebikes.com. Please remember, if you are in any doubt about your ability to safely assemble, service, or repair your Whyte bike, DO NOT RIDE IT and instead arrange for a professional bicycle mechanic at your local Whyte retailer to do the job correctly.

Bundled with this manual, may be some of the respective manufacturers instructions and manuals for the branded parts that are fitted to your Whyte bike. Please take time to study all the relevant instruction manuals to ensure you have a continually safe and well set-up bike before every ride.

Happy and safe riding.

INFO Whyte Bikes website www.whytebikes.com

Manual Symbols



WARNING

This symbol indicates a hazardous situation which could result in serious injury or death. Riding bicycles can result in loss of control or falls which may result in injury or death, this manual doesn't always repeat the warning of possible injury or death.



CAUTION!

This symbol indicates a potential hazardous situation which could result in a minor or moderate injury. This symbol may also alert against unsafe practices. The symbol will also be used as a safety alert to indicate a situation where damage to the bicycle/EPAC will void your warranty.



INFO

This symbol indicates to the reader that the information is important to the user and product.

O1 - INTRODUCTION 1.2 Product Warnings

Your Whyte eBike system can only be activated when there is sufficiently charged battery. Please check the 'CHARGING' section of this manual which shows how to charge your bicycle safely. If a sufficiently charged battery is installed and the eBike system is switched on, pedal assistance can be engaged when pedal force is applied. For all pedal assist modes please find the correct operating system in this manual.



Kynamic Power

Your Whyte/Kynamic bicycle features a powerful pedal assist when force is applied to the pedals. Familiarise yourself with your bike's ride and pedal assist characteristics in a safe and flat environment. Ensure you feel comfortable with your bikes performance before riding in public areas where you may put other peoples safety at risk.



Keep your fingers away

Do not place your fingers or tools near the Drive unit. Maintenance and repair of the drive unit should only be performed by an Authorised Whyte Bike Service Centre.



Modifications

Do not modify the Kynamic Drive unit or any components directly connected to the drive unit. Maintenance and repair of the drive unit should only be performed by an Authorised Whyte Service Centre. Any attempt to modify the Drive unit may result in serious personal injury or death, and will immediately void the bicycle's warranty.



Tyres

Never inflate a tyre beyond the lower of the two values of the maximum pressure marked on the tyre's sidewall and the maximum pressure marked on the rim that the tyre is installed on. Exceeding the recommended maximum pressure may blow the tyre off the rim, which could cause damage to the bike and injury to the rider and bystanders.



Influences

Never ride your eBike/pedelec whilst using headphones. Never ride whilst operating your mobile phone or other electronic device. Never ever ride your bike under the influence of alcohol or drugs. Failure to follow these strict rules could lead to a serious accident or even death.







Riding conditions



Under wet and slippery conditions please consider your cornering and braking. Make adaptations to your riding by decreasing your speed, braking earlier, and gradually applying braking force. Braking distance is likely to be significantly increased especially in off road conditions. Ensure you ride at an appropriate speed for the conditions. terrain, and your ability.



Bicycle carrier - Child carrier or seat - Trailer

Whyte bicycles are only designed and tested for use by one person at any time. Carrying a child, pet, or cargo load on your Whyte bicycle is at your own risk. If you choose to install an accessory on your Whyte Bike such as a child carrier or a trailer, make sure it is compatible and refer to the manufacturer's instructions and your authorised Whyte retailer for mounting point advice.



Failure to follow the warnings in this manual may result in damage to the components on your bicycle and will void your warranty, but, most importantly, may result in serious personal injury or death. If your bicycle exhibits any signs of damage, do not use it and immediately bring it to your authorised Whyte Bikes retailer for inspection.

01 - INTRODUCTION 1.3 Rider Advice

Rider advice

Riding an eBike offers a very different experience to riding a conventional bicycle with no motor. The injection of power and increased weight can change your riding approach. Below are some considerations to ensure safe riding, reduce component wear, and increase battery range;

- Additional weight can affect braking distances. Consider your speed when entering corners and trail features. Pedalling through corners or trail features will increase your speed and may exceed the riders control.
- Shifting gears efficiently dependant upon gradient and terrain ensures an
 efficient cadence reducing wear to drive-train components. This will also
 extend the battery life of the eBike.
- Check tyre pressures regularly to ensure optimum grip and roll efficiency.
 Store the eBike indoors and where possible avoid storing in a cooler temperature lower than 5 °C.

Rider advice

Ensure that the eBike is properly sized for the user. Check your owners manual for assistance with size adjustments. Please ensure you have read the sections in your owners manual regarding set up, mechanical checks, and safety checks. Please see advice below specific to EPAC's.

- · Check battery charge level prior to every ride.
- Ensure you are familiar with the display functions.
- Ensure you are familiar with the remote functions.
- Make sure the bike is disconnected from the charger before every ride.





Please note the use of a Pedelec or and E-MTB by children or adolescents under the age of 14 is not recommended and or illegal in the UK. Please check your regions laws and restrictions.

Fellow riders and your environment

Always be courteous to other trail users. Use extra caution around domestic animals, such as dogs and horses. Give other trail users right-of-way in all situations, take care in urban areas where human traffic is greatly increased.

Please see the 'regulations and usage' section of this manual to learn about your bikes capabilities. Your Whyte eBike and Kynamic hub motor system has not been design for offroad terrain or MTB graded trails. Riding your bike in environments that it hasn't been designed for could lead to mechanical failure and put the rider at risk.

Public roads

Before riding your Whyte eBike, please inform yourself of all applicable legal requirements and regulations in your country, state, and/or province. There may be restrictions on riding your eBike on public roads, cycling paths, and/or trails. There may also be applicable helmet and light requirements, age restrictions or license or insurance requirements. Whyte Bikes encourages its bike owners to research all legal requirements for their own safety. Failure to do so puts the rider and others around them at risk, voids warranty, and support from Whyte Bikes will not be offered. As laws and regulations regarding electric bicycles vary by country and/or state and province and are constantly changing, please make sure to obtain the latest information. Please read this manual fully and if you have any further questions please contact your Whyte Bikes retailer.

O2 - RIDE INFO 2.1 Out the Box

This manual is not intended as a comprehensive guide to assembling, servicing, or maintaining your bicycle. Please see your authorised Whyte Bikes retailer for assembly guidance, service, repairs, and maintenance.



INFO: Specification of all the components that are fitted to your bike as standard may be obtained from the Whyte Bikes website www. whytebikes.com



WARNING: If you are in any doubt about your ability to safely service or repair your Whyte bike, DO NOT RIDE IT and instead arrange for a professional bicycle mechanic at your local Whyte retailer to do the job correctly.



WARNING: Before any ride check all fixings are tight and secure. This is very important to ensure the bikes performance and your safety. Please read the Pre-Ride Checks section of this manual and learn what is required to operate this bicycle. Correct tightening force on fasteners (nuts bolts and screws) is critical. Too much force can cause damage to the fixing and too little force could cause them to undo or rattle loose. Where indicated in the instructions or printed on the fixing please adhere to the recommended torque specification. Please see below for recommended tools and torque settings.

Tools Required For Assembly:

- 4,5,6,8mm Allen key
- Adjustable spanner
- Bicycle Pump
- Torque Meter Wrench (Optional)

LOCATION	TOOL	TORQUE	
		(Nm)	(IN LBS)
Seat Collar	5mm Allen Key	5-7	44-62
Stem to Steerer Tube (Vertical)	5mm Allen Key	10.8 - 13.6	96-120
Stem to Steerer Tube (Horizontal)	4mm Allen Key	10.5 - 12.7	93-112
Crank Bolts	8mm Allen Key	54	480
Water Bottle Cage Bolts	3mm Allen Key	3	25
12mm Front Axle	8mm Allen Key	8 - 10	70- 88
12mm Rear Axle	18mm Hex Socket	35 - 40	310 - 354

O2 - RIDE INFO 2.1 Out the Box

When unboxing your new Whyte eBike you will find a Whyte Charger Case containing numerous manuals (Including this manual). Please ensure you read all relevant literature prior to assembly or riding your eBike. Relevant manufacturer manuals for your eBikes components will be provided. Ensure all documents are retained for assistance with maintenance, cleaning, and warranty.

In addition to your charger case there will be an accessories box containing components that are specific to your eBike. Follow the instructions below or please contact your Whyte retailer for any support required.

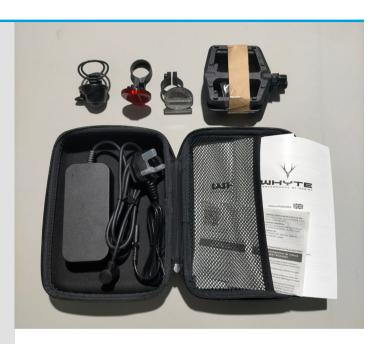
Please note: the Whyte charger box and accessories box will differ between bike models and may not reflect the illustrations in this manual.

Tools Required

- 15mm Spanner
- Philips Head Screwdriver

Accessory Part Instructions:

In the bicycle accessories kit you will find numerous components relevant to your bicycle. If your bicycle is supplied with pedals you will need a 15mm spanner to fit them to the cranks. Ensure you have identified the right and left pedal prior to installation. Tighten pedals to a recommended 40.2–42.9 Nm (350–380 lb/in). A Philips screw driver is required to mount reflectors to your bicycle. Reflectors are a crucial part of the safety system and must not be removed. Before riding your Whyte eBike please inform yourself of all applicable legal requirements to ride safely in your country/state.



O2 - RIDE INFO 2.2 Pre-ride Check

Pre-Ride Check

Routinely check the condition of your bicycle before every ride. Regardless of ability and experience level, you should read all of your Owners Manual (Assembly Safety Equipment, Pre–Ride Check, Safety Checks, And Set Up) and carry out all the required checks. In addition, make sure you are comfortable operating the eBike's controls and are familiar with all aspects of your bike.

- Make sure nothing is loose. Lift the front wheel off the ground by approximately 5cm (2 inches), then let it drop and bounce on the ground. Does anything sound, feel or look loose? Then do a visual and tactile inspection of the whole bike. Can you find any loose parts or accessories? If so, secure them. (Frequency: Before every ride)
- Tyre pressure. Make sure tyres are correctly inflated. Check by pushing the bike down into the floor, while looking at how the tyre deflects. Check Manufacturer's recommended tyre pressures indicated on the side wall. Adjust the air pressure if necessary. (Frequency: Before every ride)
- Tyre condition. Spin each wheel slowly and look for cuts in the tread and side wall. Replace damaged tyres, do not ride on them. (Frequency: Before every ride)
- Wheels are true. Spin each wheel and check for side-to-side rim movement. If a rim moves side to side even slightly take the bike to a Whyte retailer to have the wheel trued. (Frequency: Before every ride)
- Ensure there is ample battery charge before setting off (Frequency: Before every ride)
- Check that the display and control functions are operational (Frequency: Before every ride).



WADNING

It is critical that the checks above are completed before every ride.



Brake Lever Adjustment:



INFO

Please note front and rear brake levers change sides dependant upon country/state. Ensure you identify which brake lever operates each brake.

Whyte recommends that at least the index fingers have the range to reach the brake levers easily. Brake lever adjustment can be achieved – please consult brake manufacturers manuals or by consulting a Whyte retailer for further details.



INF

Take care during assembly not to damage the discs, callipers, or pads when installing the wheels. With hydraulic brakes, never apply pressure to the levers with the wheel uninstalled.

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O2 - RIDE INFO 2.2 Pre-ride Check



INFO

Ergonomic adjustments to seat-post heights, handlebars, and suspension set ups can affect the control, comfort and performance of the user and bicycle. Correct set up can have great affect on increasing or reducing the rider safety and enjoyment.



WARNING

A loose or damaged stem, handlebars, grips or extensions can cause you to lose control and fall. Unplugged handlebars or extensions can cut you and cause serious injury in an otherwise minor accident.



WARNING

As with all mechanical components, the bicycle is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design

life of a component has been exceeded, it may suddenly fail possibly causing injuries to the rider. Any form of cracking, scratches, fraying or change of colouring in highly stressed areas indicate that the life of the component has been reached and it should be replaced.



Control Checks

Checking over your bike controls prior to every ride is critical to the riders safety. These checks must be carried out after assembly.

Brake function.

Squeeze the brake levers. Can you apply full braking force at the levers without having them touch the handlebar? Try to move the bike forwards with the brake levers squeezed. Are the wheels locked? If not, then the brakes are not working properly. Do not ride the bike until you have consulted your Whyte retailer.

Wheel attachment.

Ensure the front and rear wheels are correctly secured to the fork and frame.

Secure seat post.

If the seat post has a quick-release clamp fastener for easy height adjustment, check that it is properly adjusted and in the locked position

Handlebar and saddle alignment.

Make sure the saddle and handlebar stem are parallel to the bike's centre line and clamped tight enough so that you can't twist them out of alignment. If they are not, do not ride the bike until you have consulted your Whyte retailer.

· Handlebar grips.

Ensure the grips are tight by twisting the handlebar grips with force making sure they do not move. Make sure there is a plug in each end of the handlebars.

O3 - RIDE INFO 2.3 Safety Equipment



INFO The user of this Whyte bike is responsible for understanding current laws and regulations regarding bicycle use. The rider must obey regulations and must be aware of the penalties for their violation.



WARNING! Safety gear such as helmets may be required by law. Please educate yourself on current laws and legislations before riding. The use of helmets and other protective wear can reduce serious injuries and even death.



WARNING! When using pannier racks, pay attention to the maximum loading weight. The rack will have the max. weight stamped into the metal work or on a visible label. Ensure the rack's fixings are checked and tightened regularly.

Lights: Lights are mandatory for night riding by law, reflectors are not sufficient. Please make yourself aware of all laws and regulations for your country/state. Riding at night or in poor visibility is dangerous. Ensure lights are installed at the front and rear of your bicycle before riding at night.

Helmet: Whyte Bikes strongly recommend that when riding any of their bikes, that a helmet is worn at all times. This is regardless of the discipline or bicycle type. Ensure the helmet is securely fastened. Failure to wear a helmet could result in serious injury or even death.

Reflectors: The reflectors on your bicycle reflect light, which illuminates them, making the cyclist visible to other vehicles, pedestrians and cyclists. They make you visible in conditions of poor visibility/light. They are therefore a crucial part of the safety system and must not be removed.

Please ensure all reflectors are securely fastened, clean, clear of any obstructions and exhibit no signs of damage. Do not remove reflectors from your Whyte bike, they have been installed to meet current laws and are fitted for the users safety.





O2 - RIDE INFO 2.4 After a Crash

AFTER A CRASH

Check yourself for injuries. Take care of them as best you can. If necessary, seek medical help. An apparently minor incident could have major implications later on.

Ensure a thorough check of the complete bike is carried out before riding the bike after a crash/fall. Damage might be obvious like a cracked frame, forks, or bent handlebars. Less obvious damage like bent or twisted controls on the handlebar can affect handling of the bike and will need to be rectified. Please go through the 'Pre-Ride' checks supplied in this manual. Carefully examine all areas of the frame, forks, and rims for any dents, cracks or deformations. If you find any signs of damage to the frame, forks, or rims then do not ride the bike. Consult your Whyte retailer to have the bike thoroughly inspected before riding the bike again.

Check the seat, seat-post, stem, and handlebars are still in the correct orientation. NEVER try to correct the position by force. Loosen fixings/bolts with the correct tools and reposition before re-tightening (Ensure you refer to the specified torque settings).

Check both wheels are securely fitted in the right position in the frame and fork. Lift the eBike at both the front and rear to test the wheels rotate freely. Make sure there are no dents or deformations to the rims. Ensure the wheel runs true with no interference from the frame. Be sure to check over brake alignment with discs and pads as this may have been altered in the crash. Failure to carry out these checks before riding puts the rider at risk.



WARNING: Aluminium components when deformed can break unexpectedly. If any of your Whyte bicycle components have been deformed or bent after a fall then the bicycle is unsafe to ride. Please ensure damaged parts are replaced and correctly installed. If there is any doubt do not ride your bicycle and contact your Whyte retailer for support.



WARNING: A collision or impact can cause serious damage to your bicycle and its components, causing them to malfunction or wear out prematurely. Malfunctions can occur suddenly and without notice, causing you to lose control of your bicycle and suffer serious injuries.



WARNING: Carbon composite components, including frames, wheels, handlebars, stems, cranksets, brakes, etc. which have sustained an impact must not be ridden until they have been disassembled and thoroughly inspected by a qualified mechanic.

If you discover any damage to your Whyte bike or its components, STOP using the bicycle immediately!

Even if you cannot visually observe any damage, pay close attention to the sound of your bicycle when riding. Unusual noises or riding vibrations can be a clear sign of damage and you should stop riding immediately. Contact your Whyte retailer who will be able to correctly diagnose the problem.

03 - REGULATIONS & USAGE 3.1 Legal Regulations



INFO

Before riding your Whyte eBike please inform yourself of all applicable legal requirements to ride safely in your country/state. Please ensure adequate safety restrictions are obeyed with regards to lighting, licenses, helmet and insurance requirements. Whyte Bikes will not make any promise, representation, or warranty regarding the use of your EPAC. Laws and regulations for EPAC's vary in different markets and continue to evolve, please ensure you obtain the latest information.

An eBike/pedelec is a bicycle where the rider is assisted when pedalling. The motor can legally go up to 250 Watts with a maximum assisted speed of 25Km/h. Any bike that exceeds these limits is considered to be a moped or light motorcycle depending upon country/state law.

Under EU and UK law eBikes/pedelec's fall under the same category as bicycles. These laws may differ or special rules may apply dependant upon region so please take the time to educate yourself before riding. It is extremely important to obey the regulations governing the operation of an eBike/pedelec and the requirements regarding minimum age, certificates, licenses, insurance and helmets.



INFO

Do not tamper with your eBike/pedelec's electrical system in any way. Unauthorised modifications will void your bikes warranty, and make the product unsafe, whilst endangering the user and others. Making any changes to increase the speed or performance could incur legal problems. Any maintenance to the electrical system must be carried out by a professional accredited mechanic and all replacement parts must be original. For further assistance please consult your Whyte retailer or motor manufacturer.

Possible Legal Implications:

- The eBike/pedelec is required by law to be registered for approval and insured. All legal requirements regarding the bike components stated by road traffic licensing authority must be adhered to e.g. lights, reflectors and helmets.
- Whyte do not offer representation, warranty, or liability for use of youR eBike/pedelec
- Tampering with your eBike/pedelec may result in a legal offence and termination of warranty and insurance.



Please check age restrictions for EPAC users in your country/state as it is common to find laws banning the use of EPAC's for children on public roads.

If you plan to ride with kids on your bicycle, please inform yourself of all applicable legal requirements and regulations in your country/state. There may be restrictions on riding your bicycle with certain or any accessory(ies). This is especially true for electric and pedal-assist bicycles

O3 - REGULATIONS & USAGE 3.2 Usage Classification

To define the intended use of your bike please contact your Whyte retailer. All Whyte bikes have been tested and classified accordingly. The purpose of this classification is to define the test requirements comply with the respective stress loads.



WARNING: It is critical that your Whyte bike isn't ridden under conditions that do not fall under its intended usage category. Exceeding the usage category of your bike could result in serious damage to the bike, injury, or even death.



WARNING: The maximum permitted weight should not exceeded. Whyte bikes may have differing maximum permissible weight limits, this can be found in the owners manual or on the frame sticker. An example of frame sticker pictured to the right. Exceeding the weight limit will damage the bike and could result in a failure or accident.

The maximum permissible weight is calculated using the following factors:

Weight of Pedelec (Kg) + Weight of rider (Kg) + Weight of Luggage, Tools, Rucksack (Kg) = Maximum Permissible Weight (Kg)

An example of the frame sticker shown to the right can be found on the underside of your downtube near the headset. This sticker will display maximum permissible weight whilst stating the bikes overall weight, cut off speed, maximum power, manufacture year, and contact information.



WARNING: Towing is not permitted on this bicycle. Please do not use tow ropes or trailers. Towing will void your warranty and risks damaging the motor components.



WARNING: This bike has not been tested or approved for mounting child carriers. Doing so will put the passengers at risk.

EPAC ACC. TO EN15194 EPAC-MTB ACC. TO EN17404

EU CONTACT: AR EXPERTS B.V, P.O. BOX 5047, BREUKELEN, NIEDERLANDE EMAIL: INFO@AR-EXPERTS.EU

MANUFACTURER: WHYTE BIKES LTD WHITWORTH ROAD, ST LEONARDS ON SEA

TELEPHONE: +44 (0)1424 753 566 EMAIL: INFO@WHYTEBIKES.COM



WEIGHT OF EPAC: CA. 20KG MAX. WEIGHT: 140KG

CUT OFF SPEED: 25 KM/H MAX POWER: 0.25 KW



PRODUCED IN

PLEASE NOTE: STICKER CONTENTS WILL DIFFER BETWEEN BIKE MODEL, YEAR AND COUNTRY/STATE OF SALE.

O3 - REGULATIONS & USAGE 3.3 Usage Categories







Whyte pedelecs of the category '1 - ROAD' have been designed to be ridden on hard-packed road surfaces where the wheels remain in constant contact with the surface. Pedelecs of this category are not intended for use as touring or travel bikes. Maximum permissible weight consisting of the rider and luggage is specified on the CE marking on your bike.

Whyte pedelecs of the category '2 - CROSS' have been designed to be ridden on roads, tarred cycle lanes, or gravel/earthy surfaces that have been sign posted for bikes. This category of bike is intended for leisure and trekking where loss of contact between the wheels and surface may occur. Drops must be limited to 15cm (6") or less. Maximum permissible weight consisting of the rider and luggage is specified on the CE marking on your bike.

Whyte pedelecs of the category '3 – TRAIL' have been designed to be ridden on hard-packed surfaces mentioned in category 1 & 2 as well as unpaved roads, rough trails, and unimproved trails which require technical skills. This category of bike is intended for leisure, trekking, and cross country where loss of contact between the wheels and surface may occur. Drops must be limited to 61cm (24") or less. Maximum permissible weight consisting of the rider and luggage is specified on the CE marking on your bike.

Whyte pedelecs of the category '4 – ENDURO' have been designed to be ridden on surfaces mentioned in category 1, 2, and 3, or downhill grades. This category of bike is intended for All-mountain and Enduro where loss of contact between the wheels and surface is common. Drops must be limited to 122cm (48") and speeds limited to 40km/h. This bike category is suitable for bike parks which feature jumps, drops, roots, rocks, and loose ground. Please note bike park construction characteristics to be suitable for this bike category. Maximum permissible weight consisting of the rider and luggage is specified on the CE marking on your bike.

Whyte pedelecs of the category '5 – DOWNHILL & FREERIDE' have been designed to be ridden on surfaces mentioned in category 1, 2, 3 and 4; extreme jumping; or downhill grades on rough trails where speeds may exceed 40km/h. This category of bike is intended for Downhill and Freeride where loss of contact between the wheels and surface is common. This bike category is suitable for bike parks which feature jumps, drops, roots, rocks, and loose ground. Jumps and drops can exceed 122cm (48") on official trails with purpose built landings. Maximum permissible weight consisting of the rider and luggage is specified on the CE marking on your bike.



INFO Usage categories meet safety standards 'DIN EN ISO 4210' & 'DIN EN 15194'.





O3 - REGULATIONS & USAGE 3.4 Ride Conditions



WARNING – Conditions on the road, path or trail you are riding on can present sudden hazards. Avoid or exercise caution by slowing your speed on dangerous terrain, including:

- Potholes
- Train tracks
- Wet, oily or icy terrain
- Gravel or sand
- Kerbs
- · Wet leaves
- Speed bumps
- Drain grates
- · Broken glass
- Thorns
- Steep hills
- · Sharp or sudden turns
- Other hazards that can cause a puncture and/or loss of control

Failure to take these potentially dangerous conditions into account can cause a crash, leading to serious personal injury or death.



WARNING – As a road user, it is your responsibility to follow the rules of the road and operate your eBike in such a manner as to reduce your risk of a collision. Failure to follow this warning may lead to a collision or crash, resulting in serious personal injury or death.

Considerations:

Speed: Always ride at a speed within your comfort zone and or according to the conditions you're riding in (e.g., rain, darkness or loose dirt). This especially applies when riding in wet weather, as you'll need even more time and greater distance to slow down and are more likely to crash. Give lots of room to slow down and apply brakes gently. Riding at speeds beyond your comfort or skill level can result in a serious crash. Even if it's legal, it's not always safe to be riding at high speeds on paths or trails when other users are present.



CAUTION - When riding in a group, following other riders, or riding on crowded roads, paths or trails, always maintain a gap sufficient to allow you to stop safely.



Surrounding people:

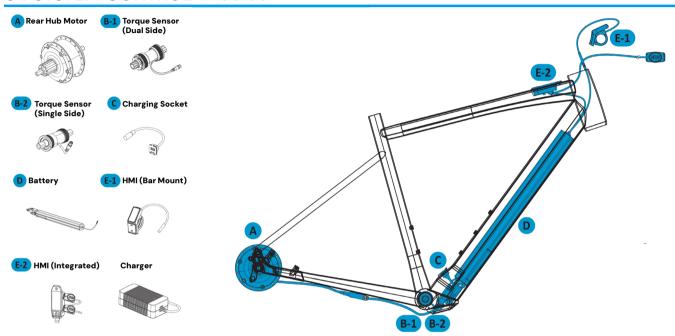
Exercise caution when passing pedestrians or other cyclists. The greater the speed difference, the greater the likelihood of a crash. Slow down when people or pedestrians are present, as they may not be aware of your presence and may step out in front of you. Riding with greater speed and weight requires more care, especially around other riders. Avoid distractions and stay focused on the road ahead. When following other riders, maintain a sufficient enough gap to allow you to stop safely. The higher your speed, the greater the gap should be.

Passengers:

Transporting passengers with your eBike is NOT permitted. Your eBike has been designed and tested for use by one person (the rider). Any transportation of a passenger beyond the intended design of the eBike is at your own risk.

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04 SYSTEM CONTROL 4.1 Hardware



Whyte & Kynamic

Thank you for choosing the new Kynamic powered Whyte bike. The illustration above depicts the key Kynamic components equipped with your eBike. Please note the products and specifications stated in this manual may be updated without prior notification. This manual includes instructions for the Kynamic KY-BC250 System, including the following components; Rear Hub Motor - Intube Battery Set - Torque Sensor - HMI (mounted) - HMI (integrated) - Battery Charger.

O4 SYSTEM CONTROL 4.2 Product Warnings



Read all the safety and general instructions. Failure to observe the safety and general instructions may result in electric shock, fire and/ or serious injury.

The term charger is used in these instructions to mean all original Kynamic chargers from the system generation. The term eBike battery is used in these instructions to mean all original Kynamic eBike rechargeable battery packs from the system.



WARNING - When using the Kynamic Unit-e system, the following basic precautions should always be followed:

- · Read all the instructions before using the product.
- To reduce the risk of injury, close supervision is necessary when the product is Maintenance and cleaning used near children
- Do not put fingers or hands into the product.
- Do not use this product if the flexible power cord or output cable is fraved, has broken insulation, or any other signs of damage.
- All the component leads shall use original components.
- This equipment is not intended to be used at ambient temperatures less than -10°C (14°F) or above ambient temperatures of 60°C (140°F).
- Do not immerse the product or any e-system component in water. The penetration of water into the charger could cause electric shock.
- Do not place the product or any e-system component near fire or heat.
- Always turn off the eBike system and remove the battery before installing, disassembling or modifying any components on the eBike.



INFO - This product manual is intended primarily for the User to have the knowledge of the good and safe operation with Kynamic Unit-e System.



INFO - Users who are not professionally trained for bicycle assembly should not attempt to install, disassemble or modify the components themselves.



CAUTION - If you replace the bolts required to secure the battery in the frame, ensure you contact your Whyte retailer for replacement screw specifications.

If the charger fails, please contact an authorised Whyte bike retailer. Clean the charger using a dry cloth.

After-sales service and advice on using products

If you have any questions about the eBike and its components, contact an authorised Whyte bicycle retailer.

O5 HMI BAR MOUNT 5.1 On/Off



CAUTION - Before your ride:

- Regardless of your experience level, you should read the User Manual carefully and carry out all important safety checks.
- The eBike system can only operate when the battery is sufficiently charged.

Product Features

All illustrations of bike parts except for the drive unit, on-board computer (including operating unit), speed sensor and the corresponding holders are a schematic representation and may differ on your eBike. The numbering of the components shown refers to the illustrations on the graphics to the right.

Operation Requirements

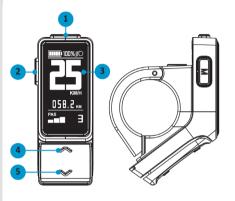
Your eBike system can only be activated when the following requirements are met:

- A sufficiently charged battery is inserted (see battery operating instructions).
- The speed sensor is connected (see drive unit operating instructions).

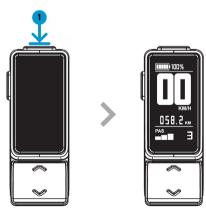
Power On/Off

Press and hold the power button (1) to turn on/off. Start up logo will be displayed for 3 seconds after initiating power to the controller. Then the home screen will be displayed.





- 1.Power On/Off Button
- 2.Mode Button
- 3.HMI Screen
- 4.Up & Increase button
- 5.Down & Decrease button



O5 HMI BAR MOUNT 5.2 Home Screen

Home Screen

Please study the 'Home Screen' illustration to the right to fully understand the data being displayed. It is very important that these instructions are followed and understood to operate your eBike safely. Failure to operate the eBike in a safe and controlled manner can lead to accidents, putting the rider and others at risk.

Navigation

To navigate from the home screen, press the mode button (2) to switch the screen from Home to Function I and Function II.

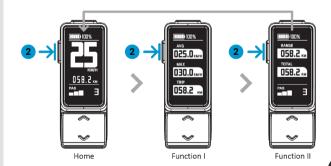
Whilst riding, if no commands are given, the screen will automatically return to Home Screen after 5 seconds.

With one click of the mode button (2) Function I displays the average speed (AVG), maximum speed (MAX) and subtotal mileage (TRIP). With two clicks of the mode button (2) Function II displays the available range (RANGE) and Total mileage (TOTAL). Please see illustration showing Home, Function I, and Function II screens.

HOME SCREEN



NAVIGATION



O5 HMI BAR MOUNT 5.3 Data Clearance & Assist Modes

Data clearance

You can clear and reset the subtotal mileage (TRIP), average speed (AVG), and maximum speed (MAX). After the HMI controller has been powered for 10 seconds, navigate to Function 1 screen, press and hold the Mode button (2) until the CLEAR DATA window appears. Press the Up & Down button (4 & 5) to select accordingly, then click and hold Mode button (2) to confirm selection. To close the pop-up CLEAR DATA window, press Mode button (2) or leave the HMI controls for 30 seconds.

Walk Assist

When bike is stationary, press and hold the down button (5) to activate Walk Assist mode. The display will show the Walk Assist icon (circled) and the real time speed shown above the Walk Assist icon. To stay in walk mode the down button (5) must be held down.

To exit Walk Assist mode release the down button (5). The motor will disengage operation, and the HMI screen will return to the Home screen.



WARNING - Proper use of walk-assist mode is important to prevent loss of control and injury.

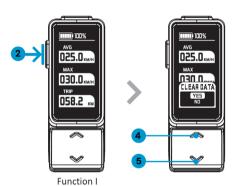
- · Only use when dismounted.
- Keep both hands on the grips and fingers on one or both brake levers so the motor power can be stopped immediately if necessary.
- Keep clear of the pedals while walking the eBike.



WARNING - Make sure the eBike system is turned off so that the walk-assist mode cannot be accidentally activated when:

- Pushing the eBike without the walk-assist mode turned on.
- Transporting the eBike (lifting onto a car, bike rack or a train).
- · Carrying the eBike up and down stairs.
- Performing any maintenance or service (e.g., placing the chain on a chainring) or other drivetrain parts, pedals or fixing a flat tyre.

DATA CLEARANCE



WALK ASSIST



O5 HMI BAR MOUNT 5.3 Data Clearance & Assist Modes

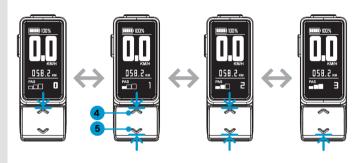
Assist Level Switch

In the normal operation, short press Up / Down button (4/5) to switch increase and decrease assist level.

Light Function

If the eBike is equipped with a front or rear light, from the home screen press and hold the Up (4) button for 3 seconds to turn them on. A light icon on the top-right corner of screen will appear when the light is on. To turn the lights off, repeat the operation holding the Up (4) button for 3 seconds. The light icon in the top right will disappear from HMI screen.

ASSIST LEVEL SWITCH



LIGHT FUNCTION



O5 HMI BAR MOUNT 5.4 Charge Level & Errors

Battery Power Indicator

Battery power information is displayed at the top left of the HMI screen . The battery icon is divided into 5 bars indicating the State of Charge (SOC) value.

During start up the battery icon will flash until a connection is established. Once connected, the flashing will stop and the corresponding bars will show the SOC value.

When the SOC value is lower than 5%, the battery icon will show zero battery capacity and continually flash.



PLEASE NOTE:

When there is a communication error between HMI and battery:

- No SOC value information will be shown
- Range information will not be displayed

Error Information

The HMI screen will warn the user when there is a fault. When a fault is detected, 'ERROR' will be flash at the top of the screen. When screen displays 'ERROR', control functions will not be affected. Normal functions can still be performed.

If there are no commands are made within 5 seconds, the HMI screen will return to the 'ERROR' warning. Please see the error code information table for further details.

BATTERY POWER



ERROR INFO



O5 HMI BAR MOUNT 5.4 Charge Level & Errors

Error Code Information Table:

Code	Condition	User Handling	Retailer Handling
1	Hardware break	- Please turn on and off for a few times - Please contact your nearest service shop	- Please turn on and off for a few times - Please return the controller to Whyte/Kynamic Service Center
2	Battery current over protection setting	Please contact your nearest service shop	Please check battery cable and connector to see if there is an abnormal and short-circuit condition
3	Phase current over protection setting	Please contact your nearest service shop	Please check motor cable and connector to see if there is an abnormal and short-circuit condition
4	Battery voltage over protection setting	Please contact your nearest service shop	Please check battery voltage
5	Motor hall sensor signal error or lost	Please contact your nearest service shop	– Please check motor cable and connector to see if connection is fine or short-circuit condition – Please check hall sensor in the motor
6	Motor blocked	- Please check motor and wheel if it is blocked - Please check motor cable connection is fine	- Please check motor and wheel if it is blocked - Please check if motor cable connection is fine - Please check if torque sensor connection is fine
7	Torque sensor signal over protection setting	Please contact your nearest service shop	- Please check if torque sensor connection is fine - Please check torque sensor status
8	Torque sensor signal under protection setting	Please contact your nearest service shop	- Please check if torque sensor connection is fine - Please check torque sensor status
9	Torque sensor signal under protection setting	Please contact your nearest service shop	- Please check if throttle connection is fine - Please check throttle status
10	Throttle signal under protection setting	Please contact your nearest service shop	- Please check if throttle connection is fine - Please check throttle status

O5 HMI BAR MOUNT 5.4 Charge Level & Errors

Error Code Information Table:

Code	Condition	User Handling	Retailer Handling
11	Controller exceeds temperature over protection setting	Wait until temperature back to normal	Wait until temperature back to normal
12	Motor temperature over protection setting	- Please check if motor cable connection is fine - Wait until temperature back to normal - Please contact your nearest service shop	- Please check if motor cable connection is fine - Please check NTC status
13	Battery voltage under protection setting	Please recharge the battery	- Please recharge the battery - Please check battery status
14	Regeneration does not work	Please contact your nearest service shop	Please return to Whyte/Kynamic Service Center if error continues
15	Turn on system when bike is moving	Stop the bike completely and hold up for 2 seconds	Stop the bike completely and hold up for 2 seconds
17	BMS communication lost	Please contact your nearest service shop	Please check connection between battery and controller
18	Controller detect BMS error	Please contact your nearest service shop	None
19	Battery SOC is higher than setting and regeneration is activated	Please contact your nearest service shop	
30	HMI Lost Communication	- Please check connection between HMI and system - Please contact your nearest service shop if this error persists	- Please check connection between HMI and system - Please check controller status - please return HMI and/or controller to Whyte/Kynamic service centre if error persists
31	FW is damaged or lost in the controller	- Please repeat update firmware for a few times - Please return the controller to the service shop	- Please repeat update firmware for a few times - Please return the controller to Whyte/Kynamic Service Center

06 HMI INTEGRATED 6.1 On/Off



CAUTION - Before your ride:

- Regardless of your experience level, you should read the User Manual carefully and carry out all important safety checks.
- The eBike system can only operate when the battery is sufficiently charged.

Product Features

All illustrations of bike parts except for the drive unit, on-board computer (including operating unit), speed sensor and the corresponding holders are a schematic representation and may differ on your eBike. The numbering of the components shown refers to the illustrations on the graphics to the right.

Operation Requirements

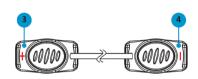
Your eBike system can only be activated when a sufficiently charged battery is inserted (see battery operating instructions).

Power On/Off

Press and hold the Power/Mode button (1) to turn on/off. Start up logo will be displayed for 3 seconds after initiating power to the controller. Then the home screen will be displayed.

CONTROLS





- 1.Power On/Off & Mode Button 2.HMI Screen
- 3.Up & Increase button
- 4.Down & Decrease button

ON/OFF



O6 HMI INTEGRATED 6.2 Home Screen

Home Screen

Please study the 'Home Screen' illustration to the right to fully understand the data being displayed. It is very important that these instructions are followed and understood to operate your eBike safely. Failure to operate the eBike in a safe and controlled manner can lead to accidents, putting the rider and others at risk.

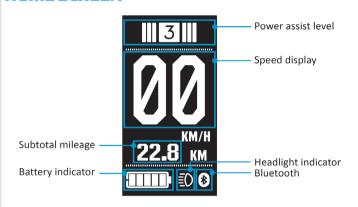
Navigation

To navigate from the home screen, press the Power/Mode button (1) to switch the screen from Home to Function I and Function II. Please refer to the 'NAVIGATION' illustration below.

Whilst riding, if no commands are given, the screen will automatically return to Home Screen after 5 seconds.

- Function I displays the subtotal TRIP time.
- Function II displays the average speed, maximum speed and subtotal TRIP mileage.

HOME SCREEN



NAVIGATION



O6 HMI INTEGRATED 6.3 Data Clearance & Assist Modes

Data Clearance

You can clear and reset the subtotal mileage (TRIP), average speed (AVG), and maximum speed (MAX). After the HMI controller has been powered on, press down the Power/Mode button (1), at the bottom of the screen a timing bar will appear and track across the screen. When the loading bar moves between two vertical line markers, release the Power/Mode button (1). Upon release between the markers a CLEAR DATA window will pop up.

By quick pressing the Power/Mode button (1) a pop up box offering two options "YES" or "NO" will appear. Using the Up (3) & Down (4) button select your command and confirm by a quick press of the Power/ Mode button (1). After confirmation, you will automatically return to the Home Screen. Please refer to the 'DATA CLEARANCE' illustration to the right.

Walk Assist

When bike is stationary, press and hold the down button (4) to activate Walk Assist mode. The display will show the Walk Assist icon (circled) and the real time speed shown below the Walk Assist icon. To stay in walk mode the down button (4) must be held down.

To exit Walk Assist mode release the down button (4). The motor will disengage operation, and the HMI screen will return to the Home screen. Please refer to the 'WALK ASSIST' illustration to the right.



WARNING - Proper use of walk-assist mode is important to prevent loss of control and injury.

- Only use when dismounted.
- Keep both hands on the grips and fingers on one or both brake levers so the motor power can be stopped immediately if necessary.
- Keep clear of the pedals while walking the eBike.

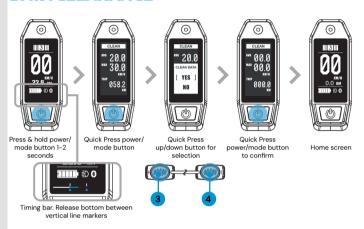


WARNING - Make sure the eBike system is turned off so that the walk-assist mode cannot be accidentally activated when:

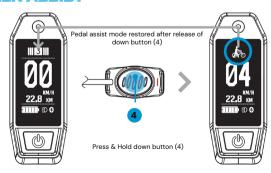
• Pushing the eBike without the walk-assist mode turned on.

- Transporting the eBike (lifting onto a car, bike rack or a train).
- · Carrying the eBike up and down stairs.
- Performing any maintenance or service (e.g., placing the chain on a chainring) or other drivetrain parts, pedals or fixing a flat tyre.

DATA CLEARANCE



WALK ASSIST



O6 HMI INTEGRATED 6.3 Data Clearance & Assist Modes

Assist Level Switch

In the normal operation, short press Up / Down button (3/4) to switch increase and decrease assist level.

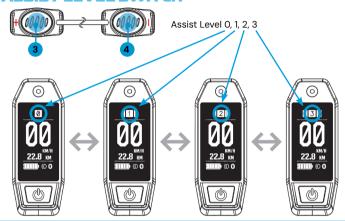
Level 0: No assistance is provided

Level 1–3: Provides incremental power with level 1 being the lowest power mode and level 3 being full power mode. Take care riding in assist level 3 if this is your first time riding your eBike. Whyte recommends always starting your ride in assist level 1. Please note, riding the bike in assist level 3 will drain you eBikes battery much faster that assist level 1 or 2. Please refer to the 'ASSIST LEVEL SWITCH' illustration to the right.

Light Function

If the eBike is equipped with a front or rear light, from the home screen press and hold the Up button (3) for 3 seconds to turn them on. A light icon on the bottom-right corner of screen will appear when the light is on. To turn the lights off, repeat the operation holding the Up button (3) for 3 seconds. The light icon in the bottom right will disappear from HMI screen. Please refer to the 'LIGHT FUNCTION' illustration to the right.

ASSIST LEVEL SWITCH



LIGHT FUNCTION



O6 HMI INTEGRATED 6.4 Charge Level & Errors

Battery Power Indicator

Battery power information is displayed at the top left of the HMI screen . The battery icon is divided into 5 bars indicating the State of Charge (SOC) value.

During start up the battery icon will be flashing whilst a connection is established. Once connected, the flashing will stop and the corresponding bars will show the SOC value.

When the SOC value is lower than 6%, the battery icon will show zero battery capacity and continually flash.



PLEASE NOTE:

When there is a communication error between HMI and battery:

- No SOC value information will be shown
- · Range information will not be displayed

Error Information

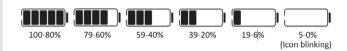
The HMI screen will warn the user when there is a fault. When a fault is detected, 'ERROR' will be flash at the top of the screen. When screen displays 'ERROR', control functions will not be affected. Normal functions can still be performed.

If there are no commands are made within 5 seconds, the HMI screen will return to the 'ERROR' warning. Please see the error code information table for further details.

Frror Codes

Please refer back to pages 25 & 26.

BATTERY POWER



ERROR INFO



07 CHARGING 7.1 Technical Data

Intended Use

In addition to the functions described in this manual, changes to software relating to troubleshooting and functional modifications may be introduced at any time.

The Kynamic eBike chargers are intended exclusively for charging Kynamic eBike batteries and must not be used for any other purpose.



WARNING - There is a risk of fire due to the charger heating up during charging. Ensure the eBike battery on the eBike is completely dry and placed on a fireproof surface before charging. If this is not possible, remove the eBike battery from the holder and charge it in a more suitable location. When doing so, read and observe the operating instructions of the eBike battery. Whyte does not recommend removing the battery unless you are a skilled bicycle mechanic. If there is any doubt please contact your Whyte retailer.

Charging process

The charging process begins as soon as the charger is connected to the eBike battery or charging socket on the eBike and to the mains.

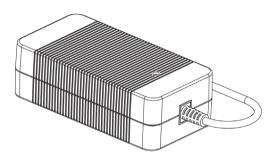
Note: The charging process is only possible when the temperature of the eBike battery is within the permitted charging temperature range.

Note: The drive unit is deactivated during the charging process. The eBike battery can be charged with or without the on-board computer.



CAUTION - Your eBike will come partially charged. Ensure you have fully charged the battery before your first ride. Where possible always store the bike fully charged to extend battery life span.

Battery Charger



CHARGER TECHNICAL DATA

Product Code/Identification Number	T090SC-4202000G
Rate Voltage	100-240V
Frequency	50/60Hz
Battery charging Voltage	41.5V +/- 0.2V
Storage Temperature range	-30°C~70°C
Operating Temperature range	-0°C~40°C
Charging Curent (Max.)	2.0A +/- 0.2A
Charging Time	4Hr
Weight, approx.	0.55Kg

O7 CHARGING 7.2 Charging Instructions



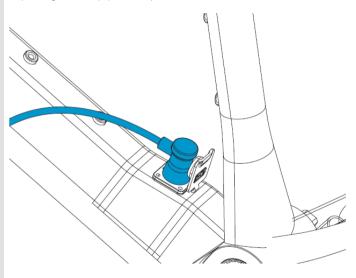
WARNING - Read all the safety and general instructions. Failure to observe the safety and general instructions may result in electric shock, fire and/or serious injury.

- Read and observe the safety warnings and directions contained in all the eBike system operating instructions and in the operating instructions of your eBike.
- Carefully cover the charging socket with the cover after charging the eBike to prevent dirt or water ingress.
- Do not expose the charger to rain or wet conditions. If water enters a charger, there is a risk of electric shock.
- Only charge Li-ion batteries approved for Kynamic eBikes with approved Kynamic chargers. The battery voltage must match the battery charging voltage of the charger. Only charge rechargeable batteries. Otherwise, there is a risk of fire or explosion.
- Keep the charger clean. Dirt poses a risk of electric shock.
- Always check the charger, cable and plug before use. Stop using the charger if you discover any damage. Do not open the charger. Damaged chargers, cables and plugs increase the risk of electric shock.
- Do not operate the charger on an easily ignited surface (e.g. paper, textiles, etc.) or in a flammable environment. There is a risk of fire due to the charger heating up during operation.
- Take care if you touch the charger while it is charging. Wear protective gloves. The charger can get very hot, especially when the ambient temperature is high.
- The eBike battery may give off fumes if it becomes damaged or is used incorrectly. Ensure the area is well ventilated and seek medical attention should you experience any adverse effects. The fumes may irritate the respiratory system.
- Charger light warning. If the LED light on the charger does not light up, this suggests there is a problem with the charger or battery. Please return the bike and charger to your nearest Whyte retailer for diagnosis.
- Do not leave batteries charging for more than 24 hours, if the charging cannot be completed in 8 hours, contact your nearest Whyte retailer to have a battery health check.

Charging the Battery

- Plug the charger into the outlet. Pay attention to the mains voltage. The voltage of the power source must match the voltage specified on the rating plate of the charger.

-Locate the eBike charge port and lift the cover. Plug the charger into the socket. Illustration shown below may differ slightly from the actual conditions depending on the equipment of your eBike.



O7 CHARGING 7.2 Charging Instructions

Charge Port Location Your Whyte eBike's charge port can be located where the seat-tube meets the down-tube. The charge port is sealed by a rubber cover. For access use the raised finger tab to lift the rubber cover. Once the cover has been flexed out of the way the charger can now be inserted into the socket. Charge port location may vary between eBike models, please check your owners manual for specific model details. CAUTION - Always make sure whilst riding or performing cleaning/maintenance that the rubber cover is closed fully. The cover must be correctly inserted into the socket to ensure a tight seal is made.

O7 CHARGING 7.2 Charging Instructions

Charging the Battery

- When charging is in progress the LED on the charger will flash red. When charging is complete, the LED on the charger will change from flashing red to a green light. After the charge is complete remove the charging plug from the charging socket and unplug from the mains outlet.
- Make sure to close the eBike charge port cover after charging. If foreign matter such as dirt or dust adheres to the charging socket, there is a risk that the charging plug will not fit into the charging port.
- If the battery is out of charge, ensure to charge it as soon as possible. Over charging the battery may cause the battery to deteriorate and become unusable. Storing the battery with low charge levels may also cause the battery to deteriorate.



WARNING - Where possible, you should charge the battery in an area with a smoke detector or make sure someone is taking care of the battery during the charging process.



WARNING – Do not place the battery and charger at locations that are easily accessible to children.

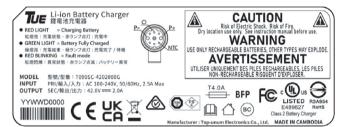
Indicator on Charger

- During the charging process, the indicator on the charger will glow/flash red.
- When the battery is fully charged, the indicator on the charger will turn green.

Charge the Battery Before and After Storage

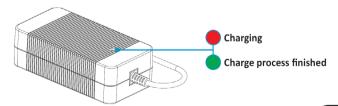
It is always best practice to charge your bike after each ride. Charging before storing your bike will help improve the life span of the battery. If your Whyte eBike is going to be stored for an extended period it is recommended that the battery is charged to 30–60% battery capacity. This will need to be repeated every six months for optimum storage.







INFO - On the product warning label of the battery and charger, you can find simple descriptions of safety warnings (Please see illustration above for reference).



O7 CHARGING 7.3 Disposal

Disposal

All Kynamic eBike system components should be disposed of in a environmental considered manner in accordance with the local regulations. Do not dispose of the eBike and its components by household waste.

The drive unit, on-board computer incl. operating unit, eBike battery, speed sensor, accessories and packaging should be disposed of in an environmentally correct manner.

Waste Disposal for Consumers of Electrical & Electronic Equipment
This Whyte product must be treated as Waste Electrical & Electronic
Equipment (WEEE). Any WEEE marked product must not be mixed with
general household waste, but kept separate for the treatment, recovery and
recycling of the materials used. The WEEE marking appears as a crossed
out bin symbol which indicates that the product should not be discarded as
unsorted waste but must be sent to separate collection facilities for recovery
and recycling.

For proper treatment, recovery and recycling; please dispose of all WEEE marked waste by returning them to the retailer or taking them to a recycling centre, where it will be accepted free of charge. If all consumers dispose of Waste Electrical & Electronic Equipment correctly, they will be helping to save valuable resources and preventing any potential negative effects upon human health and the environment.



In accordance with Directive 2012/19/EU and Directive 2006/66/EC respectively, electronic devices that are no longer usable and defective/ drained batteries must be collected separately and recycled in an environmentally friendly manner.

Electrical and electronic equipment are collected separately for pre-sorting by type and helps to ensure that raw materials are treated and recovered properly, thereby protecting people and the environment. Please return Kynamic eBike components that are no longer usable free of charge to a Whyte authorised bicycle retailer or to a recycling facility.

O8 Battery 8.1 Technical Data

Storage Conditions

Where possible, store the eBike battery in a dry, well-ventilated place. Protect it against moisture and water. When the weather conditions are bad, it is advisable to remove the eBike battery from the eBike and store it in a closed room, for example, until you use it next.

Do not store the eBike battery in the following locations:

- In areas without smoke alarms
- Near combustible or easily flammable objects
- Near heat sources
- In locked vehicles (especially in the summer)
- In direct sunlight

To ensure an optimum service life, store eBike batteries at room temperature. Never store them at temperatures below -20 °C or above 60 °C. Make sure that the maximum storage temperature is not exceeded.

Maintenance and Cleaning

PLEASE NOTE: The eBike battery must not be submerged in water or cleaned using a jet of water.

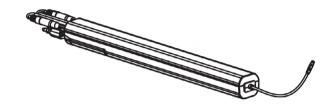
Keep the eBike battery clean and avoid contact with skincare products, sun cream and insect repellent. Clean it carefully with a soft, damp cloth. Clean and lightly grease the connector pins occasionally. Use medical or technical Vaseline for this purpose. Please contact an authorised bicycle retailer if the eBike battery is no longer working. Whyte does not recommend removing the battery from the bike unless you are a skilled bike mechanic. Speak to your Whyte retailer for further advice.



WARNING – In the event of a battery fault the eBike battery must not be opened, not even for repairs. There is a risk of the eBike battery catching fire, e.g. as a result of a short circuit. This risk continues to apply for any Kynamic eBike battery that has ever been opened, even at a later point in time.

Do not have your eBike battery repaired; instead, have your bicycle retailer replace it with an original Kynamic eBike battery of the correct system generation.

Intube Battery KY-BC250



BATTERY TECHNICAL DATA

Product Code/Identification Number	DKN-35E-25
Rate Voltage	36V
Nominal Capacity	6.8Ah
Energy	244.8Wh
Operating Temperature range	Charge: 0~45°C, Discharge: 10~60°C
Storage Temperature range	-20°C~60°C (<1 month) -20°C~45°C (<3 months) -20°C~23°C (<12months)
Permitted Charge Temperature range	0~45°C
Weight, approx.	1.25+/-0.1Kg
Protection Rating	IPX6

O8 BATTERY 8.2 Range & Care

Influences on Range

The range is affected by a number of factors, such as:

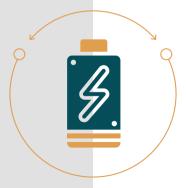
- Assistance level
- Speed
- Gear shifting behaviour
- Tyre type and tyre pressure
- Age and condition of the eBike battery
- Route profile (gradients) and conditions (road surface)
- Headwind and ambient temperature
- Weight of eBike, rider and luggage

For this reason, it is not possible to predict the range accurately before and during a trip. However, as a general rule:

- With the same assistance level on the drive: The less energy you need to exert in order to reach a certain speed (e.g. by changing gears optimally), the less energy the drive will consume and the higher the range per battery charge will be.
- The higher the selected assistance level under otherwise constant conditions, the smaller the range will be.

Taking Care of your eBike

Please observe the operating and storage temperatures of the eBike components. Protect the drive unit, on-board computer and eBike battery against extreme temperatures (e.g. from intense sunlight without adequate ventilation). The components (especially the eBike battery) can become damaged through extreme temperatures. All components fitted to the drive unit and all other components of the drive (e.g. chainring, chainring receptacle, pedals, cranks) must only be replaced with identical components or components that have been specifically approved by the manufacturer of your eBike. This will protect the drive unit from overloading and becoming damaged. When replacing the crank, make sure to use exactly the same crank as a spare part, so that damage to the drive unit is ruled out. If you have any questions and for further information, contact an authorised Whyte bike retailership. Do not immerse any components, including the drive unit, in water or clean them with pressurised water. Have your eBike checked by an expert at least once a year (including mechanical parts, up to date system software). Please have your eBike serviced and repaired by an authorised bicycle retailer.



O8 Battery 8.3 Removal & Disposal

Removal

The battery has been designed and secured into the frame of the eBike and should only be removed by a trained professional mechanic. Removal of the eBike battery should only be performed for essential maintenance or system failure. Please contact your Whyte retailer for advice and guidance regarding battery removal.

Transport

The eBike batteries are subject to legislation on the transport of dangerous goods. Private users can transport undamaged eBike batteries by road without having to comply with additional requirements.

When batteries are transported by commercial users or third parties (e.g. air transport or forwarding agency), special requirements on packaging and labelling (e.g. ADR regulations) must be met. When preparing items for shipping, a dangerous goods expert can be consulted as required.

Do not ship batteries if the housing is damaged or the eBike battery is not fully functional. Use only the original Kynamic eBike battery packaging when transporting the eBike battery. Apply tape over exposed contacts and pack the eBike battery such that it cannot move around inside the packaging. Inform your parcel service that the package contains dangerous goods. Please also observe any additional national regulations should these exist. If you have any questions about transporting the eBike batteries, contact an authorised Whyte bicycle retailer.

Disposal

Batteries, accessories and packaging should be recycled in an environmentally friendly manner. Do not dispose of batteries along with household waste. Apply tape over the contact surfaces of the battery terminals before disposing of batteries.



INFO - This product has a built-in battery system. Your Whyte retailer can help with the removal of your battery for disposal. Do not attempt this process yourself. Whyte trained specialists are available to help.

Do not touch severely damaged eBike batteries with your bare hands – electrolyte may escape and cause skin irritation. Store the defective battery in a safe location outdoors. Cover the terminals if necessary and inform your Whyte retailer. They will help you to dispose of it properly.

Please return batteries that are no longer usable to an authorised Whyte bicycle retailer.



In accordance with Directive 2012/19/EU and Directive 2006/66/EC respectively, electronic devices that are no longer usable and defective/drained batteries must be collected separately and recycled in an environmentally friendly manner.

O9 HUB MOTOR 9.1 Product Information

Operation

Please observe the operating instructions of the control unit and, if necessary, additional components from the system generation.

Notes on Cycling with Your eBike

When does the drive work? The drive assists you only when you are pedalling. If you do not pedal, the assistance will not work. The drive power always depends on the pedalling force and cadence you apply. With low force or cadence, the support will be less than with high force or cadence. This applies irrespective of the assistance level.

The drive automatically switches off at speeds over 25 km/h. When the speed falls be low 25 km/h, the drive automatically becomes available again. An exception applies to the walk assistance function, in which the eBike can be pushed at low speed without pedalling. The pedals may rotate when the walk assistance is in use.

You can also use the eBike as a normal bicycle without assistance at any time, either by switching off the eBike or by setting the assistance level to OFF. The same applies when the eBike battery is drained.

Interaction Between the Drive Unit and Gear-shifting

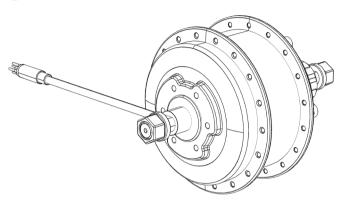
The gear shifting should be used with an eBike in the same way as with a normal bicycle. Irrespective of the type of gear shifting, it is advisable that you briefly reduce the pressure on the pedals when changing gear. This will aid gear shifting and reduce wear on the powertrain. By selecting the correct gear, you can increase your speed and range while applying the same amount of force.



Read all the safety and general instructions. Failure to observe the safety and general instructions may result in electric shock, fire and/or serious injury.



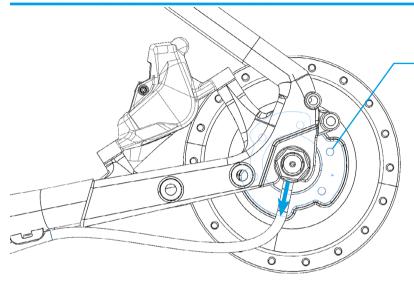
INFO: The A-weighted emission sound pressure level at the driver ears is less than 70 dB(A).



HUB MOTOR TECHNICAL DATA

Rated Voltage	36V
Rated Power	250W
Max. Torque	45N.m
Max. Speed	25Km/H
Operating Temperature range	-20°C (-4°F) to 45°C (113°F)
Storage Temperature range	-10°C (-14°F) to 80°C (176°F)
Weight, approx.	2.1Kg
Protection Rating	IP65

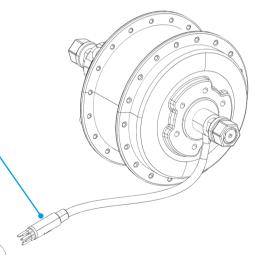
09 HUB MOTOR 9.1 Product Information



PLEASE NOTE: The rear disc brake must be installed with specific M5x8-10mm TORX screws and tightened to 4Nm.



WARNING! When removing or installing the rear wheel make sure the power cable has been disconnected to avoid accidents. Keep the power cable away from moisture and debris when carrying out maintenance.





WARNING! When installing the rear wheel ensure the hub motor power cable is facing towards the floor as pictured above. This will ensure the cable can reconnect to the battery. Incorrect Installation could cause the cables to interact with rotating components resulting in an accident or damage to the product.







INFO: When connecting the power cable pay attention to alignment arrows as pictured above.



O9 HUB MOTOR 9.2 Motor Disposal

After-Sales Service and Advice on Using Products

If you have any questions about the eBike and its components, contact an authorised Whyte bicycle retailer. Always consult the Kynamic website for manuals and product updates.

Do not dispose of eBikes and their components with household waste.

The drive unit, on-board computer incl. operating unit, eBike battery, speed sensor, accessories and packaging should be disposed of in an environmentally correct manner.

Check that your personal data has been deleted from the device.

Batteries that can be removed from the power tool without destruction must be removed before disposal itself and sorted for separate battery collection.



In accordance with Directive 2012/19/EU and Directive 2006/66/EC respectively, electronic devices that are no longer usable and defective/ drained batteries must be collected separately and recycled in an environmentally friendly manner.

Electrical and electronic equipment are collected separately for pre-sorting by type, and helps to ensure that raw materials are treated and recovered properly, thereby protecting people and the environment.

Please return Kynamic eBike components that are no longer usable free of charge to an authorised Whyte bicycle retailer or to a recycling facility.



10 Declaration Of Conformity



Contact Info: https://whytebikes.com/pages/fag

Whyte Content: https://whytebikes.com/pages/documents

Whyte UK retailers: https://whytebikes.com/pages/retailer-locator

Whyte International retailers: https://whytebikes.com/pages/ international-retailers



www.facebook.com/whytebikesGB/



https://www.linkedin.com/company/whyteBikes-limited



https://www.youtube.com/channel/UCSwoGH_w_JZhgf9KO5sJnyw



www.instagram.com/whytebikes

- UK DECLARATION OF CONFORMITY -

This declaration of conformity is issued under the sole responsibility of the manufacturer.

MANUFACTURER

Company Name Whyte Bikes Ltd.

Full Address Whitworth Road, St Leonards on Sea

Postal Code TN37 7PZ
Place East Sussex
Country United Kingdom

As the manufacturer we hereby declare that the following products:

DESCRIPTION AND IDENTIFICATION

Product name: Electrically Power Assisted Cycles (EPAC Bicycle)

Commercial name: E-Commuter

Function: Electric Commuter bike
Model: RHeO

Article number:

WRHEOIISVI-1, WRHEO12MVI-1, WRHEO13LVI-1, WRHEOILOXSVI-1, WRHEOILISVI-1, WRHEOILISVI-1, WRHEOIL2MVI-1, WRHEO2ISVI-1, WRHEO22MVI-1, WRHEO23LVI-1, WRHEO23LVI-

WERHEO24XVI-1, WERHEO2LOXSVI-1, WERHEO2LISVI-1, WERHEO2L2MVI-1, WERHEO2LOXVI-2, WERHEO23LVI-2, WERHEO24XVI-2, WERHEO23LOXSVI-2, WERHEO21SVI-2, WERHEO21SVI-1, WERHEO3LOXSVI-1, WERHEO2ISVI-1, WERHEO3LOXSVI-1, WER

WERHEO32MVI-1, WERHEO33LVI-1, WERHEO34XVI-1, WERHEO3LOXSVI-1, WERHEO3LISVI-1, WERHEO3LSVI-1, WERHEO31SVI-2, WERHEO32MVI-2, WERHEO33LVI-2, WERHEO34XVI-2, WER

WERHEO3LOXSV1-2, WERHEO3L1SV1-2, WERHEO3L2MV1-2

COMPLIANCE

The manufacturer declares that the above-mentioned machinery fulfils all relevant provisions of

Machinery Directive 2006/42/EC; Radio Equipment Directive 2014/53/EU; RoHS Directive 2011/65/EU and Amendment Directive (EU)2015/863

In conjunction with the following harmonised standards and where appropriate other technical standards and specifications for the design and manufacture

EN ISO 12100:2010; EN 15194:2017; EN 17404:2022; EN 301 489-1 V2.2.3

Authorised signatory on behalf of WhyteBikes LTD

Technical File Contact:

October 2023

Name: Clayton Woolham

Position: Compliance Office & industrial Designer

Address: 21 Lansdown Place Lane, Cheltenham, Gloucestershire, GL5O 2UW, UK

Andy Jeffries Product Director

11 WARRANTY

Whyte Bikes Ltd warrants with the purchaser of a new Whyte bike, or a Whyte Certified Refurbished bike, that the frame will be free from defects in materials and workmanship for a period of two years from the date of purchase. The duration of the limited frame warranty can be extended to four years by registering your purchase online (excluding Whyte Certified Refurbished bikes). Registration must occur within 28 days of the purchase date via the online registration form, together with a valid proof of purchase. The cosmetic finish of the frame, including all paint and graphics is warranted for a period of one year from date of purchase. This warranty does not cover in any case, damages derived from inadequate use, falls or accidents, incorrect installation, lack of maintenance or not observing the recommended usage category, storage, and charge guidance.

The Main Pivot Bearings fitted to Whyte Full Suspension bikes are warranted for life (original owner only for both new and Whyte Certified Refurbished bikes).

This limited warranty is subject to the following conditions:

- 1. The bike must be supplied fully assembled from an official Whyte retailer's premises or, in the case of Whyte Certified Refurbished bikes, direct from us via our Outlet store.
- 2. The instructions for use, maintenance and cleaning of the frame must be followed and all usual precautions to protect the frame from the elements must be taken at all times as the frame may suffer damage if it is neglected or not properly maintained and cleaned.
- 3. Normal wear and tear, crash damage or accidental damage is excluded from this warranty.
- 4. This warranty will not apply to frames which have been improperly assembled; or modified; or have had parts or accessories fitted which are not compatible with the frame.
- 5. Repainting or re-lacquering a metal frame will invalidate the warranty where the process involves heating the frame to over 180 Celsius. Repainting or re-lacquering a carbon frame will invalidate this warranty altogether.
- 6. This warranty will not apply to frames used for racing, jumping, trick riding or any other non standard use.
- 7. This warranty does not include any liability for indirect or consequential loss or damage and such is expressly excluded.
- 8. This warranty does not cover labour charges incurred in changing over parts or the cost of carriage.
- 9. Claims under this warranty must be reported in writing by the first registered owner to Whyte Bikes Ltd and the frame delivered to one of its authorised retailers within the period of this warranty. In the case of Whyte Certified Refurbished bikes warranty claims, these must be reported to us directly in writing by the purchaser within the period of this warranty via our contact form.
- 10. Whyte Bikes decline all responsibility for damages to people, animals or objects due to the use of this product.



Whyte Bikes use Kynamic electric systems. All Kynamic eBikes come with a two year guarantee (commencing upon date of purchase) which includes the motor, battery and display. The date of sale is verified by the activation date of the Product via Kynamic Software/Dear App at the retailer.



IMPORTANT SAFETY INFORMATION

Before use, it is essential that the rider is familiar with the safe operation of this bicycle. Please read all the supplied documentation carefully before use of this bike. If you have any questions, please contact your Whyte retailer.

Warranty Claims made on Kynamic Components must be processed by an authorised retailer or Kynamic.

12 NOTES

12 NOTES

12 NOTES



Quick Start Quide Version 1.2