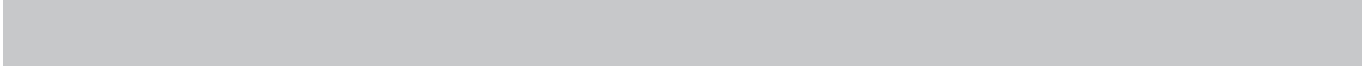




**ELECTRIC BIKE
OWNER'S MANUAL**

TABLE OF CONTENTS

- **About this manual**
 - 1. Why you should read this manual 4
 - 2. Warning, Important safety information5-6
- **Operating instruction**
 - 1. Important notices7
 - 2. Riding mode8
 - 3. Riding safely 9
 - 4. Battery charging 10
 - 5. Check the battery pack before using for the first time 11
 - 6. Inserting, removing, locking the battery 12
 - 7. PAS (pedal assist system) 13
 - 8. Fitting pedals 14
 - 9. Folding instructions (folding bike model only) 15
 - 10. Shifter 16
 - 11. Derailleur system 17
 - 12. Saddle position 18



- **Maintenance and cleaning** 19-20
- **FAQ** 21
- **Service & maintenance schedule** 22-26
- **Troubleshooting** 27-31
- **About seller and information card** 32

*Please note, this is a generic manual designed to cover our complete electric bike range.
For more specific information on your particular model, please visit our relevant brand website,
contact your local retailer or email us on; **support@tgc.bike***

ABOUT THIS MANUAL

WHY YOU SHOULD READ THIS MANUAL

This manual is written to help you to get the best performance, comfort, enjoyment and safety when riding your new E-bike. The manual describes specific care and maintenance procedures that help protect your warranty and ensure years of trouble free use. Please pay particular attention to the section on battery charging and maintenance.

It is important for you to understand the features and operation of your new E-bike so that you can get maximum enjoyment with maximum safety. By reading this manual before you go on your first ride, you'll know how to get the most from your new E-bike.

It is also important that your first ride on a new E-bike be taken under a controlled environment, away from cars, obstacles and other cyclists.



Cycling can be a hazardous activity even under the best circumstances, Giving Proper maintenance to your E-bike is your responsibility as it helps to reduce the risk of injury. This manual contains many “Warnings” and “Cautions” concerning the consequences of failure to maintain or inspect you E-bike. Many of the Warnings and Cautions say “you may lose control and fall” Because any fall can result in serious injury or even death, we do not repeat the warning of possible injury or death whenever the risk of falling is mentioned.

IMPORTANT SAFETY INFORMATION

Your E-Bike can provide many years of service, fun and fitness-if you take good care of it.

Understand the features of your E-Bike and become aware of the challenges that you will meet on the road. There are many things you can do to protect yourself while riding. We will offer many recommendations and safety tips throughout this manual. The following are those we believe the most important.

Always Wear A Helmet!

Helmets significantly reduce the possibility and severity of head injuries. Always wear a helmet that complies with BS EN 1078:1997. Do not wear loose clothing that can become tangled in the moving parts of the E-Bike. Wear sturdy shoes and eye protection.

Know your E-Bike!

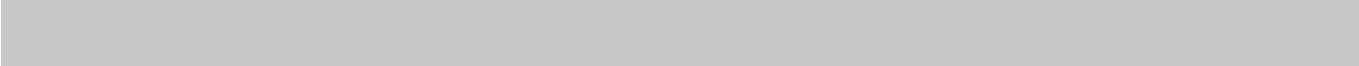
Your new E-Bike incorporates many features and functions that have never been built into a bicycle before. Read this manual thoroughly to understand how those features enhance your riding pleasure and safety.

Ride Defensively!

One of the most common cycling accidents is that when the driver of a parked car opens his door into a rider's path. Another common occurrence is when a car or another cyclist moves suddenly into your path. Always be aware of other vehicles around you. Do not assume that the driver or the other cyclist see you. Get prepared to take evasive action or stop suddenly.

Make Yourself Easy To See!

Make yourself more visible by wearing bright reflective clothing. Keep your reflectors clean and properly aligned. Signal your intentions so that drivers and other cyclists can notice your actions.



Ride Within Your Limits!

Take it slow until you are familiar with conditions that you encounter. Be especially careful in wet conditions as traction can be greatly reduced and brakes less effective. Never ride faster than conditions warrant or beyond your riding abilities. Remember that alcohol, drugs, fatigue and inattention can significantly reduce your ability to make good judgments and ride safely.

Keep Your E-Bike In Safe Condition

Follow the inspection and maintenance guidelines beginning on page 25. Check critical safety equipment before each and every ride.

Know The Law

Cyclists are required to follow the traffic rules. Additionally, some communities regulate the use of motorized bicycles regarding minimum age requirements and necessary equipment. Check with your local police department for specific details.

Correct Frame Size

When selecting a new bicycle, the proper frame size is a very important safety consideration. Most full sized bicycles come in a range of frame sizes. These sizes usually refer to the distance between the center of the bottom bracket and the top of the frame seat tube.

For safe and comfortable riding there should be clearance of no less than 1-2 inches between the groin area of the intended rider and the top tube of the bicycle frame, while the rider straddles the bicycle with both feet flat on the ground.

The ideal clearance will vary between types of bicycles and rider preference. This makes straddling the frame when off the seat easier and safer in situations such as sudden traffic stops. Women can use a men's style bicycle to determine the correct size of women's model.

OPERATION INSTRUCTIONS

Please read and understand these instructions completely before operating your E-bike to prevent serious injury to yourself and others, and to prevent damage to the bike also.

IMPORTANT NOTICES

- Always recharge the battery immediately after each use. Failure to do so may damage the battery.
- For the storage period of more than 1 month, the battery should be fully charged at least every 30 days, and the battery should be checked and fully charged before riding.

Helmets

Always wear a properly fitted helmet which covers the forehead when riding a bicycle.

It's strongly advised that a properly fitting.

Bicycle safety helmet be worn at all times when riding your bicycle.

The correct helmet should be comfortable, lightweight, have good ventilation, fit correctly and cover forehead.

Reflectors

Reflectors are important safety devices which are designed as an integral part of your bicycle. UK regulations require every bicycle to be equipped with front, rear wheels and pedal reflectors. These reflector are designed to pick up and reflect street lights and car lights in a way that helps you to be seen and recognized as a moving bicyclist. Checking reflectors and their mounting brackets regularly to make sure they are clean, straight, unbroken and securely mounted. Replace damaged reflectors and straighten or tighten any that are bent or loose.

Your bicycle is supplied with one front, one rear wheel reflectors, and four pedals reflectors. These are important safety and legal requirements, and should remain securely fitted and in good, clean condition at all times. Periodically inspect all reflectors, brackets and mounting hardware for signs of wear or damage. Replace immediately if damage is found. Some bicycles will require you to install your reflectors onto your bicycle.

RIDING METHOD

Riding method

Be familiar with all the component parts of the e-bike and test all the electric functions before riding. Make sure all the components of the bicycle are in good condition, the battery is charged and the tyres are correctly inflated. The detail operation as following:

START UP:

Your bike is supplied with a set of keys which are to lock your battery in place. They are not ignition keys. Once the battery is in place, turn the key to lock and remove when in use to avoid them falling out/being lost. To turn your electric motor on, press the power button on your handlebar display. Many batteries also have a button which looks similar to a typical power button, by pressing this, LED lights will appear to show the level of charge in the battery at that time.

NB: Certain models also have a secondary power button on the battery which needs to be switched on before use.

RIDING SAFELY

General Rules

When riding, please follow the road laws as all other road vehicles, including giving way to pedestrians, stopping at red lights and stop signs. For further information, contact the road traffic authority, police department or department of motor vehicles in your state. Ride predictably and in a straight line. Never ride against traffic laws. Use correct hand signals to indicate turning or stopping. Ride defensively. To other users, you may be hard to see.

Concentrate on the path ahead. Avoid pot holes, gravel, wet road markings, oil, curbs, speed bumps, drain grates and other obstacles.

Cross train tracks at 90 degree angle or walk your bicycle across.

Except the unexpected such as opening car doors or cars backing out of concealed driveways.

Be extra careful about intersections and when preparing to pass other vehicles.

Familiarize yourself with all the bicycle's features. Practice gear shifts, braking and the use of toe clips and straps, if fitted.

If you are wearing loose pants, use leg clips or elastic bands to prevent them from being caught in the chain or gears. Wear proper riding attire and avoid wearing open toe shoes.

Don't carry packages or passengers that will interfere with your visibility or control of the bicycle.

Don't use items that may restrict your hearing.

Do not lock up the brakes. When braking, always apply the rear brake first, then the front. The front brake is more powerful and if it is not correctly applied, you may lose control and fall.

Maintain a comfortable stopping distance from all other riders, vehicles and objects. Safe braking distance and speed are subject to the prevailing weather conditions.

Use designated bicycle paths if possible.

This bicycle is designed for on-road use only. It is not intended to be used for stunt riding, jumping, carrying passengers, or riding off-road.

If used incorrectly, the rider risks damage to components, injury or death.

BATTERY CHARGING

Battery charging

When the ride is over or the battery is running out, charge battery immediately. This will help maximise it's useable life.

Charging methods can be divided into two kinds:

1. Take off the battery to charge
 2. Charge the E-bike directly.
- Connect the supplied charger connector to the bicycle and connect the AC connector to the power supply. There is an LED indicator on the battery charger.
 - There is an LED indicator on the battery charger unit.
 - The LED is red when the power is connected and the battery is charging.
 - When the LED turns green, it means the battery is full.

Li-LON recommended charge time: 5-6 hours

Do not charge continuously for more than 18 hours at any one time.

After charging, unplug the input socket first (from the outlet), then unplug the output socket (from the bike). The battery charger must have constant voltage. Fluctuating voltage or fluctuating power supply of any kind may damage the battery storage cells so avoid charging from a generator or off grid solar/wind source.

Check the battery Pack before using for the first time

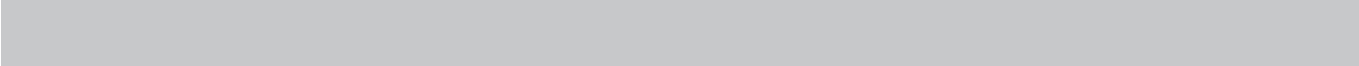
- The battery pack is applied partially charged.To ensure fully battery pack capacity,completely charge the battery pack overnight before using for the first time.
- The distributor should charge the batteries as soon as receiving the e bike from supplier.

Battery Care

Even with proper care,rechargeable batteries do not last forever.Every time the battery is discharged and subsequently recharged.Its relative capacity decreases by a small percentage.You can maximize the life of your battery by following the instructions in this guide.Battery should be fully charged immediately when ther are received for the full recommended charge times

Li-ION recommended charge time:5-6 hours

- For a complete,100% charge, leaving the battery on the charger for one full hour after the charger indicator light turn green.
- Never charge batteries for longer than 18 hours. Or damage will occur.
- Li-ion batteries do not have a "memory."Partial discharge/charge cycles will not harm the batteries"capacity or performance.
- The rated output capacity of a battery is measured at 77°F(25°C).Any variation in this temperature will alter the performance of the battery,and shorten its expected life.High temperatures especially reduce overall battery life&run time.
- Always be sure to turn the bike power switch to "OFF"after each use.If you leave the power switch in the "ON"position,or your product has not been charged for a long period of time,the battery may reach a stage at which they will no longer hold a charge



Inserting, unlocking and removing the battery:

- To install the battery, just press it in place. For safety, please take the key out of the keyhole.
- To take out the battery, insert the key into the keyhole and rotate to the unlocked position to take out the battery.

Please note:

- *your keys are simply to lock your battery into place for security. They do not switch the power on and off.*
- *Please check whether the battery is locked before cycling to prevent bad contact or other problems during cycling.*
- *When removing the battery, please completely power off, turn the key to the unlock position and gently lift it. Do not lift it violently.*



The bikes have an electric pedal assisted driving system. In EU countries, it is known legally as “PAS” cycle or Pedal Assisted System.

The driving assisted system consists of a driving unit, a battery, a controller, and various electronic components (harness wires, sensors and switches). It is important to know that when the assistant system is turned on, the driving unit engages to provide power only while you are pedaling. The amount of power provided by the drive unit depends on your pedaling force and the assistance model/level you set with handlebar control unit at any time, if you stop pedaling, the drive assistant will disengage. In all models/levels, the driving assisted system power reduces progressively and cuts off as the bike reaches a speed of 25km/h, (15.5mph), or sooner if you stop pedaling. The drive assist re-engages when speed drops below 25km/h, (15.5mph) as long as the pedals are turning.

- Your electric bike offers 3 different levels of power assistance which you can switch between using the handlebar controller.
- After pressing the “ON/OFF” button to switch the bike on, simply press the “MODE” button 1, 2 or 3 times to switch between Low, Medium and High power assistance. Pressing it a 4th time switches the assistance off for the bike to be pedalled without assistance, and starts the cycle between modes again.

Please note: Do not use walking aids when you are sitting on a bicycle. This will cause excessive wear of the motor and may cause damage. All our electric bicycles are electric-assisted, and all the motors will only start when you step on the pedal.

FITTING PEDALS

Pedal installation

Pedals are a pair with “R” & “L” , “R” for right, “L” for left.

“R” for right

“L” for left.

Tighten the pedals with the directive turnings .

“R” is NON-DRIVE SIDE,need ANTI-CLOCKWISE

“L” is DRIVE SIDE,need CLOCKWISE

Note: The pedal must be installed with a lock, otherwise it will affect the riding and even lead to injury!

FOLDING INSRTRUCTIONS

How to fold the bike (Only for folding bike)

1. Unlock the handlebar quick release lever and push down down the handlebar to the lowest position, then lock the handlebar quick release lever.
2. Unlock the handlebar quick release lever and rollover The handle bar.
3. Rotate the pedal upward so it is perpendicular to the ground.
4. Release the lock lever from its clasp on the right side of the E-Bike.
5. Rotate the lock lever clockwise until it points backward pull the lock nut and rotate the lock nut out away from the E-Bike until the nut clears the lock plate.
6. Grasp the seat and the handlebar. Pivot the front half of the frame rearward around the hinge until the front wheel is beside the rear wheel.

SHIFTER

Your E-Bike is equipped with a Shimano drivetrain, with multiple gears. This consists of:

- A rear sprocket called a freewheel
- A rear derailleur
- Handlebar shifter (Revoshift or Thumbshift)

There are many different types of shifter mechanisms, each preferred for specific applications because of its ergonomic, performance and price characteristics.

A downshift is a shift to a lower or lower gear, one which is easier to pedal. An upshift is a shift to a higher or faster gear, one which is harder to pedal. For example, you can downshift to a lower gear to make pedaling easier on a hill.

On the other hand, you may upshift to a higher gear when you wish to go faster.

Whether upshifting or downshifting, the derailleur system requires that the drive Chain be moving forward and be under at least some tension. A derailleur will Shift only if you are pedaling forward.

Caution:

Never move the shifter while pedaling backward. Also do not pedal backwards after moving the shifter. Either of these actions could jam chain and cause serious damage to the E-Bike.

DERAILEUR SYSTEM

Deraileur System

The deraileur system includes a rear deraileur, the shift levers, and the deraileur control cables, all of which must function properly for smooth gear shifting to occur.

Rear Deraileur

Begin by shifting the rear shifter to largest number indicated, loosen the cable from the rear deraileur cable anchor bolt, and place the chain on the smallest sprocket.

Adjust the high limit screw so that the guide pulley and the smallest sprocket are lined up vertically. Re-tighten the cable, pull out any slack, and re-tighten the anchor bolt securely. Shifting through the gears, making sure that each gear is achieved quietly and without hesitation. If necessary, use the barrel adjuster to fine tune the cable tension by turning it the direction you want the chain to go. For example, turning clockwise will loose the cable tension and move the chain away from the wheel, while turning counter-clockwise will tighten cable tension and direct the chain to the wheel.

SADDLE POSITION

Saddle position

Correct saddle adjustable is an important factor to get the best performance and comfort from your E-Bike.

Up and down adjustment:

Your leg length determines the correct saddle height. The saddle is at the correct height if you can just reach the “down” pedal with one heel when you are seated on the saddle and the crank arms are parallel to the seat tube. To check for correct saddle height, perform the following:

1. Sit on the saddle, and place one heel on a pedal.
2. Rotate the crank until the pedal with your heel on it is in the down position and the crank arm is parallel to the seat tube. Your leg should be slightly bent and just touching the center of the pedal. If this is not the case, your saddle height needs to be adjusted.

MAINTENANCE AND CLEANING

NOTE:

Technological advances have made the E-Bike and the components more complex than ever before. And the pace of innovation is increasing. This on-going evolution makes it impossible for this manual to provide all the information required to properly repair and/or maintain your E-Bike. In order to help minimize the chances of an accident and possible injury, it is recommended that you have any repair or maintenance performed by your local cycle store.

Equally important is that your individual maintenance requirements will be determined by everything from your riding style to geographic location. Consult your dealer for help in determining your maintenance requirements. How much of your E-Bike service and maintenance you can do yourself depends upon your level of skill, experience, and special tool availability.



Many E-Bike servicing and repair tasks require special knowledge and tools. Do not begin any adjustments or service on your E-Bike if you have the slightest doubt about your ability to properly complete them. Improper adjustment or service may result in damage to the E-Bike or in an accident which can cause serious injury or death.

Battery Storage

- When storing your batteries for a long period of time:
- Charge your batteries every 30 days to avoid capacity loss. Batteries slowly self-discharge when left unused for a long period of time; if the battery cells are allowed to reach a critically low voltage, their lifespan and capacity will be permanently reduced.
- Always disconnect your charge from the wall outlet and battery before storing the battery.
- Avoid storing your batteries in extreme temperatures, whether hot or cold.
- Batteries are best kept in a cool, dry place. Do not allow batteries to accumulate condensation, as this could cause shorting or corrosion.
- The recommended storage temperature for LI-ion batteries is between 32-77 ° F (0-25 ° C).
- Avoid exposing the battery to extreme heat (104° F or higher) for long periods of time.

FAQ

Q: Is it normal that the batteries get warm when recharging?

A: Yes, it is normal that the batteries will become warm to the touch during the recharging process. This is because of the increase of internal resistance and less energy conversion efficiency from electric energy to chemical energy.

Q: How long will my batteries last before needing replacement?

A: Average battery life depends on use and conditions. Even with proper care, rechargeable batteries do not last forever. Li-ion batteries will last more than 800 cycles. A partial charge/discharge counts fractionally against those numbers; running the battery down halfway then recharging it completely uses up one half of a charge cycle.

NOTE: “End of useful life” refers to the point at which a battery can no longer supply 60% of its original rated capacity in ampere-hours. After this point, the aging process will accelerate and the battery will need to be replaced.

NOTE: Extra or replacement batteries are available from your retailer.

SERVICE & MAINTENANCE SCHEDULE

Some service and maintenance can and should be performed by the owner, and requires no special tools or knowledge beyond what is presented in this manual.

The following are examples of the type of service you should perform yourself. All other service, maintenance and repair should be performed in a properly equipped facility by a qualified E-Bike mechanic using the correct tools and procedures specified by the manufacturer.

Break-in Period

Your E-Bike will last longer and work better if you break it in before riding it hard. Control cables and wheel spokes may stretch or wear when a new E-Bike is first used and may require readjustment by your dealer. Your mechanical safety check will help you identify some things that need readjustment. But even if everything seems fine to you. It is best to take your E-Bike back to the dealer for a check-up. Dealers typically suggest you bring the E-Bike in 30 days for a check-up. Another way to judge when it's time for the first check-up is to bring the E-Bike in after 10 to 15 hours of use. But if you think something is wrong with the E-Bike, take it to your dealer before riding it again.

Before every ride:

- Perform a visual safety check and check tyre pressure

After every long or hard ride; if the E-Bike has been exposed to water or grit; or at least every 100 miles:

- Clean the E-Bike
- Lightly oil the chain, freewheel cogs and rear derailleur pulley bushings. Wipe off excess oil. Talk to your dealer about the best lubricants and the recommended lubrication frequency for your area
- Never allow lubricants of any type to get near bicycles wheel rim or disc brake pads/rotor

After every long or hard ride or after every 10 to 20 hours of riding:

- Squeeze the front brake and rock the E-Bike forward and back. Does everything feel solid? If you feel a clunk with each forward or backward movement of the E-Bike, you probably have a loose headset.
- Lift the front wheel off the ground and swing it from side. Feel smooth? If you feel any binding or roughness in the steering, you may have a tight headset. Have your dealer check it.
- Make sure all bolts, nuts and mounting hardware are tight.

CAUTION: Since the right pedal on your E-Bike folds up, grasp the crank arm when performing this check on the right side.

WARNING:

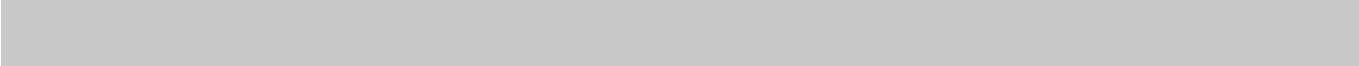
Like any mechanical device, an E-Bike and its components are subject to wear and stress. Different materials and mechanisms wear at different rates and have different life cycles. If a component's life cycle is exceeded, the component can suddenly and catastrophically fail, causing serious injury or death to the rider. Scratches, cracks, fraying and discolouration are signs of stress-caused fatigue and indicate that a part is at the end of its useful life and should be replaced.

Flat Tire

If you get a flat tire, remove the wheel. Depress the tire valve to let all the air out of the tube. Remove one bead of the tire from the rim by grasping the tire at a point opposite the valve stem with both hands lifting and peeling one side of the tire off the rim. If the bead is on too tight for you to unseat it with your hands, use tire levers to lift the bead carefully over the tire rim. Push the valve stem through the wheel rim. Remove the inner tube.

Carefully check the outside and inside of the tire for the cause of the puncture and remove the cause if it is still here. If the tire is cut, line the inside of the tire in the area of the cut with something handy-tape, a spare patch, a piece of inner tube, a dollar bill-whatever will keep the cut from pinching the inner tube.

Either patch the tube (Follow the instructions in your patch kit), or use a new tube. Reinstall the tire and tube. Slip one



tire bead over the rim. Insert the tube valve through its hole in the rim. Feed the tube carefully into the cavity of the tire. Inflate the tube just enough to give it some shape. Starting at the valve stem use your thumbs to seat the tire bead inside the rim. Work your way around both side of the wheel until the entire bead is seated in the rim. Be careful not to pinch the tube between the tire bead and the wheel rim. If you have trouble getting the last few inches of bead over the edge of the rim with thumb pressure, use a tire lever and be careful not to pinch the tube. To avoid punctures we recommend slime tyre sealant or similar.

CAUTION: Do not use a screwdriver or any tool other than a tire lever, you will to puncture the tube.

Check to make sure the tire is evenly seated around both sides of the rim and that the tube is inside the tire beads. Push the valve stem into the tire to make sure that its base is seated within the tyre's beads. Inflate the tube slowly to the recommended pressure, all the while checking to make sure that the tire beads stay seated in the rim. Replace the valve cap, and install the wheel onto the E-Bike.

WARNING: Riding your E-Bike with a flat or under-inflated tire can damage the tire, tube and E-Bike, and can cause you to lose control and fall.

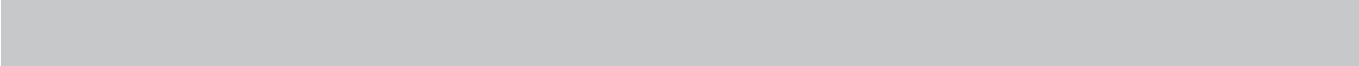
Broken Spoke:

A wheel with a loose or broken spoke is much weaker than a fully tensioned wheel.

If you break a spoke while on a ride, you will have to ride home much more slowly and carefully because the weakened wheel could break additional spokes and become useless.

WARNING:

A broken spoke seriously weakens the wheel and may cause it to wobble, striking the brakes or the frame. Riding with a broken spoke can cause you to lose control and fall.



Twist the broken spoke around the spoke next to it keep it from flopping around and getting caught between the wheel and the frame. Spin the wheel to see if the rim clears the brake pads. If the wheel will not turn because it is rubbing against a brake pad, try turning the brake cable adjusting barrel(s) clockwise to slacken the cable and open up the brakes. If the wheel still won't turn, open the brake's quick release and secure any loose as best you can. Walk the E-Bike, or if you must, ride it with extreme caution, because you now have only one working brake.

Basic Maintenance

The following procedures will help you maintain your hybrid electric bicycle for years of enjoyable riding.

Properly maintain the batteries by keeping them fully charged when not in use.

Do not ride your electric bicycle in the water (damp roads, puddles, rain, streams, etc.) and never immerse it in water as the electrical system may be damaged.

Periodically check the wiring and connectors to ensure there is no damage and the connectors have good continuity.

For painted frames, dust the surface and remove any loose dirt with a dry cloth. Clean and wipe with a damp cloth soaked in a mild detergent mixture. Dry with a cloth and polish with car or furniture wax. Use soap and water to clean plastic parts and rubber tires. Chrome plated bikes should be wiped over with a rust preventative fluid.

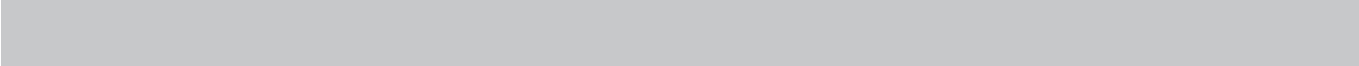
Store your bicycle under shelter. Avoid leaving it in the rain or being exposed to corrosive materials.

Riding on the beach or in coastal areas exposes your bicycle to salt which is very corrosive. Wash your bicycle frequently and wipe or spray all unpainted parts with an anti-rust treatment. Make sure wheel rims are dry so braking performance is not affected. After rain, dry your bicycle and apply anti-rust treatment.

If the hub and bottom bracket bearings of your bicycle have been submerged in water, they should be taken out and re-greased. This will prevent accelerated bearing deterioration.

If paint has become scratched or chipped to the metal, use touch up paint to prevent rust. Clear nail polish can also be used as a preventative measure.

Regularly clean and lubricate all moving parts, tighten components and make adjustments as required.



Storage

Keep your bicycle in a dry location which is away from the weather and sun.

Direct sunlight may cause paint to fade or rubber and plastic parts to crack. Before storing your bicycle for along period of time, clean and lubricate all components and polish the frame. Deflate the tires to half pressure and hang the bicycle off the ground. Charge your batteries and make sure they are protected from water. Batteries should be charged every 30 days to avoid capacity loss. Don't cover the bicycle with plastic as damp / condensation will result and it may cause rusting. Please notice that your bicycle warranty does not cover paint damage (except as outlined in the warranty section of this manual), rust, corrosion, or theft.

DO NOT Store your E-bike outside without adequate protection or a suitable cover, this will void your warranty and potentially cause irrevocable damage.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Gear shifter not working properly	- Derailleur cables sticking/stretched/damaged - Front or rear derailleur not adjusted properly - Indexed shifting not adjusted properly	- Lubricate/tighten/replace cables - Adjust derailleurs - Adjust indexing
Slipping chain	- Excessively worn/chipped chain ring Or freewheel sprocket teeth - Chain worn or stretched - Stiff link in chain - Non-compatible chain/chain ring/ freewheel	- Replace chain ring, sprockets and chain - Replace chain - Lubricate or replace link - Seek advice at a bicycle shop
Chain jumping off freewheel sprocket or chain ring	- Chain ring out of true - Chain ring loose - Chain ring teeth bent or broken - Rear or front derailleur side-to-side Travel out of adjustment	- Re-true if possible, or replace - Tighten mounting bolts - Repair or replace chain ring/set - Adjust derailleur travel
Constant clicking noises when pedaling	- Stiff chain link - Loose pedal axle/bearings - Loose bottom bracket axle/bearings - Bent bottom bracket or pedal axle - Loose crankset	- Lubricate chain/Adjust chain link - Adjust bearings/axle nut - Adjust bottom bracket - Replace bottom bracket axle or pedals - Tighten crank bolts

PROBLEM	POSSIBLE CAUSE	SOLUTION
Grinding noise when pedaling	- Pedal bearings too tight - Bottom bracket bearings too tight - Chain fouling derailleurs - Derailleur jockey wheels dirt/binding	- Adjust bearings - Adjust bearings - Adjust chain line - Clean and lubricate jockey wheels
Freewheel does not rotate	- Freewheel internal pawl pins are jammed	- Lubricate. If problem persists, replace freewheel
Brakes not working effectively	- Brake blocks worn down - Brake blocks/rim greasy, wet or dirty - Brake cables are binding/stretched/damaged - Brakes levers are binding - Brakes out of adjustment	- Replace brake blocks - Clean blocks and rim - Clean/adjust/replace cables - Adjust brake levers - Center brakes
When applying the brakes they squeal/squeak	- Brake blocks worn down - Brake block toe-in incorrect - Brake blocks/rim dirty or wet - Brake arms loose	- Replace blocks - Correct block toe-in - Clean blocks and rim - Tighten mounting bolts
Knocking or shuddering when Applying brakes	- Bulge in the rim or rim out of true - Brake mounting bolts loose - Brakes out of adjustment - Fork loose in head tube	- True wheel or take to a bike shop for repair - Tighten bolts - Center brakes and/or adjust brake block Toe-in - Tighten headset

PROBLEM	POSSIBLE CAUSE	SOLUTION
Wobbling wheel	- Axle broken - Wheel out of true - Hub comes loose - Headset binding - Hub bearings collapsed - QR mechanism loose	- Replace axle - True wheel - Adjust hub bearings - Adjust headset - Replace bearings - Adjust QR mechanism
Steering not accurate	- Wheels not aligned in frame - Headset loose or binding - Front forks or frame bent	- Align wheels correctly - Tighten headset - Take bike to a bike shop for possible frame realignment
Frequent punctures	- Inner tube old or faulty - Tire tread/casing worn - Tire unsuited to rim - Tire not checked after previous puncture - Tire pressure too low - Spoke protruding into rim	- Replace inner tube - Replace tire - Replace with correct tire - Remove sharp object embedded in tire - Correct tire pressure - File down spoke
Bicycle has reduced range And/or speed	- Low batteries - Faulty or old batteries - Low tire pressure - Brakes dragging against rim - Riding in hilly terrain, headwind etc.	- Charge batteries for recommended time - Replace batteries - Inflate tires to recommended pressure - Adjust brakes and/or rim - Reduced range to be expected in these types of terrain and/or weather conditions
Hub motor makes a "clicking" noise and has reduced power and/or shuts off	- Low batteries - Damaged planetary gears	- Charge batteries for recommended time - Re-place hub motor/wheel

PROBLEM	POSSIBLE CAUSE	SOLUTION
No power when the switch is turned "ON"	- Blown fuse - Loose connectors - Broke wire - Faulty switch - Faulty controller	- Replace fuse - Check all connectors - Inspect all wires for damage - Replace switch and retest - Replace controller and retest
Bicycle operates OK but battery gauge does not light up	- Loose connectors - Damaged wires - Faulty battery gauge	- Check throttle and/or battery gauge connectors - Inspect all wires - Replace battery gauge
Battery gauge lights up but bicycle does not operate	- Faulty brake inhibitor - Loose motor wire connector	- Replace brake inhibitor(s) and retest - Check motor wire connector
Bicycle runs at full speed without pedaling	- Faulty sensor - Faulty throttle - Faulty controller	- Replace sensor and retest - Replace throttle and retest - Replace controller and retest
Battery indicates full charge when tested at the charge port but bicycle does not operate	- Faulty controller - Loose connectors - Poor contact between battery terminals	- Replace controller - Check all connectors - Inspect and clean battery terminals
Throttle(on bicycle so equipped) does Not spring back to neutral position	- Grip jammed against throttle - Faulty throttle	- Reposition grip so gap between it and the Throttle is 1-2mm - Replace throttle

PROBLEM	POSSIBLE CAUSE	SOLUTION
Bicycle has intermittent power	- Loose connectors - Damaged wires	- Check all connectors - Inspect all wires
Charge shows a full charge in an Unusually short amount of time	- Faulty charger - Faulty batteries	- Replace charger - Replace batteries
Indicator light on charger not Illuminated when charger is Plugged into outlet	- Outlet has no power - Faulty charger	- Check outlet for power - Replace charger
Charger(Lithium) indicator light only flashes red and never changes to green	- Damage wire from charger port to battery - Faulty batteries	- Inspect wire - Replace batteries



**Use approved replacement parts, particularly for safety -critical components.
Consult with your dealer as needed.**

**UK
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ABOUT THE SELLER

Your new bicycle is supplied by:

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