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OPERATION MANUAL

THANK YOU FOR YOUR PURCHASE OF THE E-BIKE.

WARNING

The following operation manual is a guide to assist you. This manual is not a complete document on all aspects for the maintenance and repair of your bike. The electric bicycle you have purchased is not a complex object however, it is recommended that you consult an e-bike repair specialist if you have concerns as to your ability to assemble, repair, or maintain this product.

It is important for you to understand the electric bike. By reading this manual completely before the first ride, one will get better performance and enjoyment from this product; also it's helpful to extend the life of the electric bicycle.

This operational manual should remain an integral part of the product. Changes or any copy actions in pictures, specifications and descriptions are strictly prohibited.

Safety Instructions

Motorized e-bikes are new to most riders so in the interest of safe cycling make sure you read, understand, and follow the instructions in this manual.

This manual contains important safety, signal words such as **DANGER**, **WARNING, CAUTION, IMPORTANT**, and **NOTE** or **NOTICE**. These are important signal words telling you to pay special attention to that text as rider safety is involved.

This symbol will appear in areas of critical rider safety.
Pay special attention to the words **DANGER** and **WARNING** as failure to do so can result in serious injury or death to the rider or others.

CAUTION notes will indicate instructions that need to be followed to prevent injury, mechanical failure, or damage to the e-bike. They also indicate a hazardous situation, which, if not avoided, can cause minor or moderate injury.

NOTE or **NOTICE** or **IMPORTANT** specify special interest notes. Pay close attention to these as your safety and that of your e-bike is involved.

IMPORTANT: Read the **BEFORE RIDING** section and check that all parts are working as stated in the manual. If you understand how the e-bike operates, you will ensure the vehicle's best performance. When you read this manual, compare the illustrations to your e-bike. Learn the location of all controls and parts and their functions. **KEEP THIS MANUAL FOR FUTURE REFERENCE.**

CAUTION: Before you ride the e-bike, check the brakes and other parts of the bike. Make sure all parts are assembled correctly, securely tightened, and working properly. Take your first ride in a large, open, level area away from traffic.

DO NOT RIDE YOUR E-BIKE WITHOUT FIRST SECURING AND FASTENING ALL HARDWARE CORRECTLY.

Make sure you read this complete manual before riding your e-bike. Failure to do so, or failure to follow its guidelines could lead to serious injury or death.

Brake pads and rotors get very hot during use and could burn skin. The edges can also be very sharp and cut skin. Do not touch the brake pads or rotors directly after riding your e-bike.

Proper use of your brake is vital to ensure safe, efficient stopping. To avoid misuse and potential injury, do not apply sudden or excessive force to your brakes. Apply your brakes gradually and give yourself enough room to come to a complete stop safely.

Different localities and countries have different laws governing riding on public roads, and you should check with local officials to ensure you are complying with these laws

Brakes do not work as well under wet conditions as they do when dry, It is recommended that you do not ride your e-bike in wet weather, as there are electronic components of your e-bike that may be damaged if exposed to water.

Wet conditions will require a longer distance to stop. Brake earlier and avoid sudden stops when riding in wet conditions.

When you ride in low-visibility conditions such as fog, dusk, or at night, vision could be impaired, which could lead to a collision. Wear bright reflective clothing when riding in poor lighting conditions and use lights.

WARNING
There may be additional risk to injury if you use your e-bike incorrectly. This includes, but is not limited to:

- Riding e-bike over debris or obstacles
- Performing stunts
- Riding on off-road terrain
- Riding fast
- Racing other riders
- Riding in an unusual manner

The aforementioned examples add stress to each part of your e-bike and can lead to long term damage of the e-bike. Damage to your e-bike can lead to an accident or increase your risk of injury. To decrease your risk of injury, operate your e-bike correctly.

IMPORTANT
Do not ride the e-bike without the battery pack. The battery pack must be on the e-bike while riding or else the motor and safety lights will not function when needed.

Check to see that your wheels are securely fastened and that your helmet is securely fastened.

Protect the battery docking connector. When the battery pack is removed, apply a protective cover to prevent corrosion and damage to the connector.

Remove the battery pack from the e-bike and store it elsewhere in the vehicle during your transport.

Always respect local transportation laws when riding your e-bike.

Lithium battery packs of this size and power are considered "Dangerous Goods, Class 9." When transporting, regulations may restrict the transport of separate lithium batteries in some places.

WARNING!
Tampering or modifying the electric circuit system may case a shock, fire or explosion and permanently damage the system. Exposed wiring and circuitry in the charger may cause electric shock. Always keep the charger housing closed.

Non-rechargeable batteries are not to be recharged.

WARNING!
SEEK *IMMEDIATE* MEDICAL ATTENTION IF YOU ARE EXPOSED TO ANY SUBSTANCE THAT IS EMITTED FROM THE BATTERY PACK.

This equipment is not intended to be used at ambient temperatures less than -20°C (-4°F) or above ambient temperatures of 55°C (131°F)."

The battery is intended to be charged when the ambient temperature is between 0°C (32°F) and 40°C (104°F)

SAFETY PRECAUTIONS

• If the e-bike is not to be used for an extended period of time, you may need to recharge the battery every 1 month to maintain the battery life.
• Ensure that the screws on the front and back tires are locked firmly before each ride.
• Check to ensure the tires are not worn..
• Check to ensure all connections are maintained on your e-bike.
• Ensure the brake cables are well lubricated. It is suggested you lubricate brakes every 6 months
• Ensure all gears move smoothly.
• Make sure there are no frayed cables, loose connections, missing fasteners or axle/lug nuts.
• For your safety, always wear a helmet that meets CPSC or CE safety standards. In the event of an accident, a helmet can protect you from serious injury and in some cases, even death.
• Obey all local traffic laws. Obey red and green lights, one-way streets, stop signs, pedestrian crosswalks, etc..
• Ride with the traffic, not against it.
• A crash can put extraordinary stress on your e-bike's components, possibly causing them to fail prematurely. Components suffering from stress fatigue can fail suddenly, causing loss of control, or serious injury.

CARE & MAINTENANCE

• Do not expose the e-bike to liquid, moisture, or humidity to avoid damage to the electrical system.
• Do not use abrasive cleaning solvents to clean the e-bike.
• Do not expose the e-bike to extremely high or low temperatures as this will shorten the life of the electrical system, destroy the battery, and/or distort certain plastic parts.
• Do not dispose of the e-bike in a fire as it may explode or combust.
• Do not expose the e-bike to contact with sharp objects as this will cause scratches and damage.
• Do not let the e-bike fall from high places, as doing so may damage the internal circuitry.
• Do not attempt to disassemble the e-bike.
• Use only the specified charger provided.
• Ensure the e-bike chain is well lubricated for optimal performance.
• To minimize tire wear and for maximum riding safety, comfort and handling, maintain recommended tire air pressure which can be found on the side wall of all tires. Use a reliable tire air pressure gauge to check for proper inflation before every ride. At the same time, inspect tires for excessive wear and cracks. Replace tires if necessary.

Preface

Congratulations on the purchase of your new e-bike! With proper assembly and maintenance it will offer you years of enjoyable riding!

IMPORTANT: Carefully read and follow this manual (and any other materials included with this bike) before riding. Please retain this manual for future use. If this bike was purchased for a child, it is the responsibility of the purchaser to verify the bike has been properly assembled, and that the user has been properly trained and instructed in use of the bike. This manual is provided to assist you and is not intended to be a comprehensive manual covering all aspects of maintaining and repairing your bicycle. The bicycle you have purchased is a complex piece of equipment that must be properly assembled and maintained in order to be ridden safely.

If you have any doubts about the assembly or your ability to properly assemble and maintain the bicycle. You must have it assembled and maintained by a professional bicycle mechanic.

WARNING: E-bikes are fun to ride but can be dangerous to use. The user or consumer assumes all risk of personal injuries, damage, or failure of the bicycle or system and all other losses or damages to themselves and others and to any property arising as a result of using the bicycle.

WARNING

DO NOT DISASSEMBLE, MODIFY OR REPLACE ELECTRICAL PARTS.
If you need to change any parts, please consult a professional bicycle mechanical or contact customer service for additional help.

NOTE: YOUR INSURANCE POLICIES MAY NOT PROVIDE COVERAGE FOR ACCIDENTS INVOLVING THE USE OF THIS BICYCLE. TO DETERMINE IF COVERAGE IS PROVIDED YOU SHOULD CONTACT YOUR INSURANCE COMPANY OR AGENT.

DANGER: Failure to properly assemble and maintain your bicycle could result in serious injury or death to the rider.

This manual contains important safety, performance and service information. The purpose of this manual is to help you use your e-bike safely in the manner intended and allow you to enjoy the benefits it offers for years to come. **Please read it carefully before you take your first ride on your e-bike and keep it in a safe place for reference.**

Owner Responsibility

IMPORTANT: Reading and following the information and instructions in this manual are essential to the ability of the owner or any other persons allowed to use this bicycle in order to ride safely.

1. It is the responsibility of the owner or in the case of a younger rider the parents of the rider to be certain all assembly instructions have been followed, even if the bike has been assembled by the seller, manufacturer, or a professional assembly company.

2. Brakes are essential to safety. Be sure they are checked and working properly before each use. Remember that any mechanical system changes condition during use and must be maintained and checked before each use.

3. Rules for bicycle use (bicycle laws) vary from location to location so be certain the rider knows and understands the rules that apply to bicycle usage in all areas where the bicycle will be used. Wearing a helmet, light or reflective clothing, using lights and reflectors are examples of rules which may exist and which make sense as rider safety precautions at all times.

4. Know how to operate the bicycle and all equipment on it before first use and be certain anyone allowed to use the bike knows how to properly and safely use the bike as well.

5. There are many different types of bicycles and often these types are designed for different uses. Make sure you know what type unit you have and do not exceed its service limitations. Be sure you check and understand the bicycle classifications set in this manual, including size of the unit that is proper for the rider to insure good control during use. Riders who are too small or large may have control problems. Do not overload a unit with a rider that is too heavy or too large, and do not attempt to carry extra passengers, packages or loads on the bicycle. Do not use street bikes for off road riding.

6. Your electric bike is water-resistant, but must be properly maintained to preserve this condition. Please do not submerge the bicycle or any electric components in water. Water entering electric components can cause a short circuit and damage the electric components with possible injury to the rider and others.

7. The battery's performance can be effected by its environment. Generally speaking, battery's discharge performance is better in a higher temperature. Electric power will drop by more than 1/3 when the temperature is below 32°F (0°C). Thus, this e-bike's riding distance per charge will become shorter in winter or cold areas. It returns to normal / optimal when the temperature is higher than 68°F (20°C).

8. Do not put any metal objects in charge hole or battery circuit, it may cause a short circuit, start a fire, or cause an explosion with personal injury or property damage.

CAUTION: For your safety you must carefully read this manual and follow its instructions. Your bicycle may come with additional instruction sheets that cover features unique to your bike. Please ensure that you read and become familiar with their contents and retain them with this manual for future reference. Remember bicycles, in most areas, are subject to the same laws, rules, and regulations as motor vehicles.

Always wear a CPSC approved helmet when riding your bike.

Learn and follow local and state traffic use laws.

Any major service or adjustments on your bike not covered in this manual should be carried out by a professional bicycle mechanic. If you wish to make adjustments yourself, this manual contains important tips on how to do it.

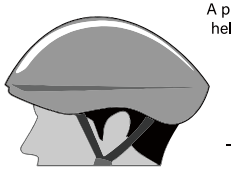
CAUTION: Any adjustments you make are entirely at your own risk. Do **NOT** use your bike for freestyle and stunt riding, jumping or competitive events. Even if you are riding a mountain bike, you should know that off-road use or any similar activities can be dangerous, and you assume the risk for personal injury, damages or losses incurred from such use. Do not ride your bike when any part is damaged or not working properly.

You must, for your safety and the safety of other users, consult a professional bicycle mechanic for any questions on repairs or maintenance.

WARNING

As with all mechanical components, the bicycle is subjected to wear and high stresses. Different materials and components react to wear or stress fatigue in different ways. As your bicycle ages, you should inspect it more frequently to look for deformed, cracked, bent, or loose components. Such conditions may lead to sudden failure. This may possibly cause injuries to the rider. If something is cracked or broken, do not ride until repairs have been made.

ALWAYS WEAR A HELMET!
IT COULD SAVE YOUR LIFE



A properly fitting, CPSC-approved bicycle helmet should be worn at all times when riding your e-bike.

The correct helmet should:
- be lightweight and comfortable
- have good ventilation
- cover the forehead and fit correctly
- be securely fastened on the rider

Riding Precautions

1. WARNING - ON AND OFF ROAD CONDITIONS: The condition of the riding surface is very important to your safety. If the surface is wet, or has sand, leaves, small rocks or other loose debris on the surface where you plan to ride, carefully decrease the speed of the bicycle and ride with extra caution. It will take a longer time and more distance to stop. Apply the brakes sooner and with less force. Always apply the rear brake first allowing time and distance for it to take effect. Then follow by cautiously applying the front brake, in order to maintain control of the bicycle. Rapid front brake application first may cause a front pitch over or fall. Learn to use your brakes properly under controlled conditions until you learn proper braking under all road conditions.

2. NOTICE: State and federal regulations require a full set of reflectors. Some state and local laws may require that your bike be equipped with a warning device, such as a horn or bell and most states require a light. The manufacturer and many legal authorities **DO NOT** approve or encourage riding at night. Vision is quite limited at dawn, dusk and at night for bike riders, motorists and by-standers. If you must ride at night, take extra precautions, use front and rear lights, wear flashers on your arms, wear light-colored clothing, and plan your route to ride in well lighted areas avoiding heavy traffic areas.

3. NOTE: Always wear shoes when riding a bicycle and avoid loose fitting clothes. Wear a cuff band or trouser clip to keep pants or other loose clothing from getting caught in the chain wheel. Long sleeves, long pants, gloves, eye protection, a CPSC-approved helmet, elbow and knee pads are recommended.

Helmet use is required by law in many states and is always a good idea for your safety.

4. CAUTION: WET WEATHER WARNING: Check your brakes frequently. The ability to stop is critical to your safety. Roads are slippery in wet weather so avoid sharp turns and allow more distance for stopping. Brakes become less efficient when wet. Leaves, loose gravel and other debris on the road can also lengthen stopping distance. If at all possible, do not ride in wet weather. Vision and control are impaired, creating a greater risk of accidents and injury.

5. CAUTION: A bicycle rider's best defense against accidents is to be alert to road conditions and traffic in the area. Do not wear anything that restricts your vision or your hearing.

6. When riding, **ALWAYS WEAR A CPSC-APPROVED BIKE HELMET.** It may save your life.

7. Obey all traffic regulations. Most traffic regulations apply to bike riders as well as automobile operators. Observe all state and local traffic regulations, signs and signals. Check with your local police station on bicycle licensing and inspection, and where it is legal to ride your bike.

8. Keep to the **RIGHT SIDE** of the road. Follow the traffic flow in a straight line close to the curb. Watch out for opening car doors and cars moving in and out of traffic. Use caution at intersections.

9. Never carry passengers. This is dangerous and it makes the bicycle harder to control. Never carry anything that can inhibit your ability to control the bicycle or see the road.

10. When riding in pairs or in larger groups, form a single line along the right side of the road. Set up a sensible distance between riders. Don't follow too closely.

11. Always be alert. Animals or people may dart in front of you. Give pedestrians the right-of-way. Don't ride too close to pedestrians, and don't park your bicycle where it can get in the way of foot/vehicle traffic.

12. Be careful at all intersections. Slow down and look both ways before crossing.

13. Use hand signals. Always let other drivers and pedestrians know what you are going to do. Signal 100 ft. before turning unless your hand is needed to control the bike.

14. WARNING: NIGHT TIME OPERATION: We do **NOT** recommend riding your bike at night. If you have an emergency that requires you to ride at night you must have proper lights and reflectors. **NEVER** ride at night without a helmet, taillight, a white front reflector, a red rear reflector, pedal reflectors and white wheel reflectors. You must be able to clearly see the surface where you are riding and be seen by others.

15. Never hitch rides. Never hold onto moving vehicles while riding. Never stunt ride or jump on your bike.

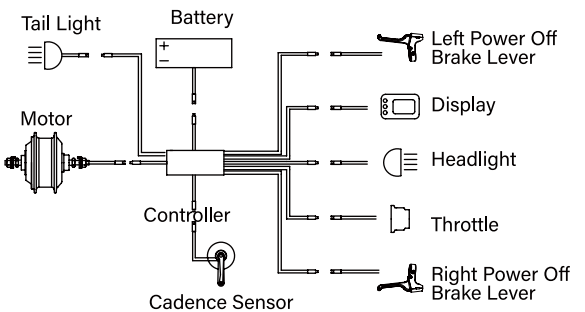
16. ON AND OFF ROAD OPERATION: Avoid the following road hazards: drain grates, pot holes, ruts, soft road edges, gravel, leaves (especially when they are wet), uneven pavement, railroad crossings, manhole covers, curbs, speed bumps, puddles, and debris as all have an effect on your riding and may result in loss of control. Adjust your speed and the way you use your brakes if you must ride in such areas.

17. If any components becomes loose while riding, **(STOP!!)** immediately and tighten, or bring to a mechanic for repair.

E-bike Diagram & Parts

1. Tire
2. Tail Light
3. Motor
4. Disc-Brake
5. Saddle
6. Frame
7. Monitor Display
8. Handlebar Stem
9. Handlebar
10. Headlight
11. Battery
12. Derailleur
13. Chain
14. Kickstand
15. Chain Wheel
16. Crank & Pedal
17. Disc
18. Fork

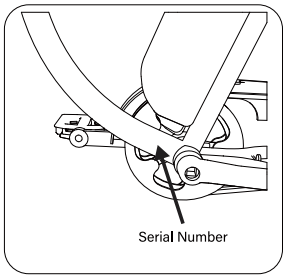
Circuitry Diagram



Serial Number

EACH BICYCLE HAS A SERIAL NUMBER STAMPED INTO THE BOTTOM OF THE E-BIKE (SEE ILLUSTRATION).

Record this number HERE to keep for future reference. This number can be helpful to the manufacturer in customer complaints or issues.



THIS INFORMATION IS ONLY AVAILABLE ON THE E-BIKE ITSELF.

There is no record of your serial number at the store purchased or with our company. It is your responsibility to record this information.

SERIAL NUMBER:

Assembly Instructions

Your new bicycle was assembled and tuned in the factory and then partially disassembled for shipping. The following instructions will enable you to prepare your bicycle for years of enjoyable cycling. For more details on inspection, lubrication, maintenance and adjustment of any area please refer to the relevant sections in this manual.

If you have questions about your ability to properly assemble this bicycle, please consult a professional bicycle mechanic before riding.

WARNING

TO AVOID INJURY, THIS PRODUCT MUST BE PROPERLY ASSEMBLED BEFORE USE. WE STRONGLY RECOMMEND THAT YOU REVIEW THE COMPLETE ASSEMBLY GUIDE AND PERFORM CHECKS SPECIFIED IN THE OWNER'S MANUAL BEFORE RIDING.

Preparation

It is important that you read this owner's manual before you start to assemble your bicycle.

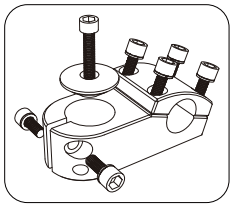
WE HIGHLY RECOMMEND THAT YOU CONSULT A PROFESSIONAL BICYCLE MECHANIC IF YOU HAVE DOUBTS OR CONCERNS AS TO YOUR ABILITY TO PROPERLY ASSEMBLE, REPAIR, OR MAINTAIN YOUR E-BIKE.

Remove all parts from the shipping carton. Check to make sure no parts are loose on the bottom of the carton. Carefully remove the front wheel which is attached to the side of the bicycle for shipping. Carefully remove all other packing material from the bicycle. This includes zip ties, axle caps and material protecting the frame.

Attach & adjust the handlebars

Your handlebars have two main parts -- the bar itself and the stem. On some models, the stem can be adjusted to tip the handlebar forward or back. If your bar has been removed for shipping, position the bar in the center of the stem and check, to be sure that your grips are in the right place and the angle of the bar is comfortable. Tighten the screws to hold the bar in place, ensuring all brake cables are clear, the suggested torque is 5-6N.m

***Be sure to check that your handlebars are centered and tight before riding.*



1. The stem must be inserted to the Minimum depth or lower as indicated on the steer post to insure the safety, see the above diagram.
2. Tighten the stem screw located on the top of the handlebar stem.

You may adjust the handlebar stem angle by loosening the Allen key screw located underneath the stem. Tighten the stem, adjustment screw securely after positioning the stem angle. The tightening torque between the handlebar and the upper stem should be 8-10N.m. The tightening torque between the frame and the down stem should be 12-15N.m.

Check that the forks and the handlebars are facing forward and straight. Stand at the front of the handlebar, vise the front wheel by your legs and hold the handlebar, adjust the handlebar and the body of the bicycle to form a 90°angle, see the diagram above.

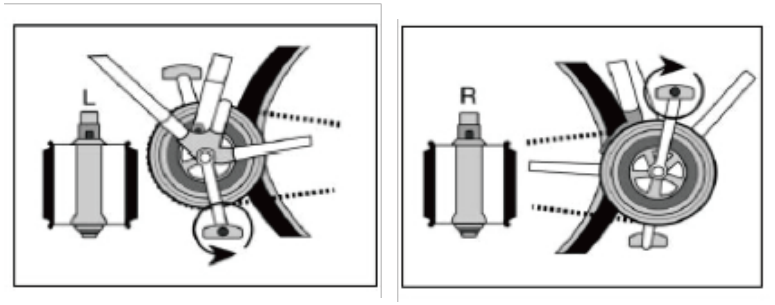
Attach the pedals

Pedals are marked “L” and “R” on axle end. Screw the pedal marked “L” into the left side of crank and “R” to right.

1. The right pedal attaches to the chain side crank arm in a **CLOCKWISE** direction.

2. The left pedal attaches to the other arm in a **COUNTER-CLOCKWISE** direction.

Check your pedals before each ride to ensure that they are tight. If you ride your bike with loose pedals, you may strip the threads that hold the pedal to the crank.



WARNING

ATTACH THE PEDALS IN THE DIRECTIONS INDICATED. WHEN ATTACHING THE LEFT PEDAL, COUNTER-CLOCKWISE IS CORRECT. THIS IS COUNTER-INTUITIVE TO HOW MOST ITEMS TIGHTEN, BUT WILL ENSURE YOU DO NOT STRIP YOUR PEDALS. STRIPPING PEDALS CAN LEAD TO SERIOUS INJURY, AND WILL DAMAGE YOUR E-BIKE AND INVALIDATE YOUR WARRANTY.

Brakes

Make sure your brakes are adjusted correctly at all times prior to riding. The left brake lever controls the front wheel. The right brake lever controls the rear wheel.

Check & Adjust Front Brake

1. Screw down the positioning screw.
2. Adjust the distance of brake shoe by rotating left/right. The left rotation of the brake shoe adjustment bolt will increase the distance of brake shoe, and right rotation of the brake shoe will decrease on the distance.

Adjust rear brake

For models with standard bike rear brakes:

Always check that both your front and rear brakes are properly adjusted before riding your bike.

Please seek for help from professional when you need to add mineral oil.

Before Riding

Just a minute spent before each ride can significantly improve your safety and the enjoyment of your ride. So, **EACH TIME** before you ride, make a habit of performing the following safety checks:

Pre-ride checklist

▪ Stand in front of the bicycle facing rearward and hold the front wheel securely between your legs. Try to twist the handlebar and verify that they do not move. Then pull the handlebars up, trying to lift the bike. There should be no movement.

▪ Try to push the front wheel from side to side and confirm that it feels tight and will not wobble. Lift the front wheel up by the handlebars and strike the wheel downward with the heel of your hand to confirm that it is securely attached to the wheel. Spin the front wheel and confirm that it does not wobble or contact the fork or brake pads.

▪ Try to lift/push down on and twist the seat to confirm it is tight.

▪ Look at the connection of the pedals to the crank arm. You should not see pedal screw threads and the pedal should feel firm and be parallel to the ground.

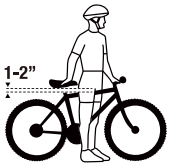
▪ Apply your brake(s) and make sure they feel firm to the touch, and then spin the wheel(s). Apply the brakes. The brakes should stop the wheel(s).

▪ Check to be sure that the fenders and accessories (if equipped) are firmly attached and will not contact any moving parts. Make sure all reflectors are in position and not broken.

Now, put on your **BICYCLE SAFETY HELMET** and enjoy your ride. Your safety is well worth just a minute . Also, be sure to read and follow the warnings and instructions in this manual.

Correct frame sizing

When selecting a new bicycle, the correct choice of frame size is a very important safety consideration. The ideal clearance will vary between types of bicycles and rider preference. This makes straddling the frame when off the saddle easier and safer in situations such as sudden traffic stops. Women can use a man's bicycle to determine their correct frame size.



Approximate Rider Leg Length	Suggested Frame Size for Racing/Touring Bicycle	Suggested Frame Size for Mountain/Hybrid Bicycle
24-27in / 61-69cm	-	14.5in / 37cm
26-30in / 66-76cm	-	17in / 43cm
28-31in / 71-79cm	19.5in / 50cm	18in / 45cm
30-33in / 76-84cm	21.5in / 55cm	19.5in / 50cm
31-34in / 79-86cm	22.5in / 57cm	20.5in / 52cm
32-35in / 81-89cm	23.5in / 60cm	21-22in / 53-56cm
34-37in / 86-94cm	25in / 63cm	23-23.5in / 58-60cm

NOTE

THERE SHOULD BE A CLEARANCE OF NO LESS THAN 1-2 INCHES BETWEEN THE GROIN AREA OF THE INTENDED RIDER AND THE TOP TUBE OF THE BICYCLE, WHILE THE RIDER STRADDLES THE BICYCLE WITH BOTH FEET FLAT ON THE GROUND.

NOTE

THE SEAT POST "MINIMUM INSERTION" / "MAXIMUM HEIGHT" MARK SHOULD NOT BE VISIBLE WHEN THE SEAT POST IS INSERTED INTO THE SEAT MAST OF THE BIKE. DO NOT RAISE THE SEAT POST BEYOND THIS MARK. THE SEAT POST OR FRAME MAY BREAK CAUSING YOU TO LOSE CONTROL AND FALL. ALWAYS CHECK TO MAKE SURE THE SEAT POST ADJUSTING MECHANISM IS TIGHTENED SECURELY BEFORE RIDING.

E-Bike Operation

Your e-bike is driven by a motor embedded in the hub of the rear wheel and can not be driven directly by throttle. The motor is powered by a battery. The amount of power delivered to the motor, and hence the accelerating force on the e-bike, is controlled by you in a way according to the power-assisted mode you choose.

Start your e-bike

Turn on the battery using the on/off switch. The switch is located on the left side of the frame - opposite the charging port.

Then press the ON/OFF BUTTON on the monitor display for 3 seconds. The monitor display will turn on.

Once monitor display is ON, verify that the Battery Charging Indicator shows sufficient charge for your ride. If the battery does not have sufficient charge for your ride, please refer to instructions on how to charge the battery.

Be sure to turn the bike and battery power off when not in use or while recharging.

Start your ride

Once you begin riding, you can choose the appropriate assistance level using the INCREASE MOTOR ASSIST [+] or DECREASE MOTOR ASSIST [–] buttons on your display.

The motor will assist you once you start pedaling. There are 3 levels of assistance on the display.

NOTE

During riding, frequent braking and again accelerating will deplete the battery faster. The motor will stop assisting once you stop pedaling. Your e-bikes rated maximum load is 220lbs/100kg~ 265lbs/120kg including the rider. Do not overload your e-bike.

WARNING

When stopped, turn off the battery in case the crank arm keeps turning while you push the bike. The motor may start suddenly which may lead to an accident.

CAUTION

FOR YOUR SAFETY, PLEASE MAINTAIN AND CLEAN YOUR E-BIKE REGULARLY.

Monitor display

Your e-bike is equipped with an LCD meter that monitors motor assist, speed, odometer, trip distance, riding time, and battery energy level. To turn the meter on, make sure the battery is charged in the e-bike.

TURNING THE DISPLAY ON

Press the power on/off button on the button selector located near the left grip on the handlebars to turn the meter on. You can adjust the motor-assist power level by pressing the INCREASE MOTOR-ASSIST [+] button or DECREASE MOTOR-ASSIST [–] button.

When first riding your e-bike, you will notice that when the motor-assist function is activated, the motor will supply power when you pedal forward.

In motor-assist level "1", you will get around 20% assistance of the maximum power of the motor. In level "3", you will get 100% assistance of the motor's power. When the monitor display is powered off, the bicycle will operate without motor assistance. The assistance level will reset when the bike and monitor are powered off.

Experiment with the different levels of motor-assist to become familiar with how much power you want. You will need different levels of assistance for different riding conditions.

The bars of the battery charge indicator display the amount of power remaining in the battery. The more bars that are displayed, the more battery power available. When not riding the bike, you can turn off the meter by holding down the ON/OFF BUTTON for several seconds.

NOTE

When the e-bike is not used for 5 consecutive minutes, the monitor display and power supply will shut off automatically.

Your Monitor Display

1. Increase Pedal-Assist
2. Power Button
3. Decrease Pedal-Assist
4. ODO: Odometer
5. TRIP: Single Trip Distance
6. Distance
7. MILE
8. KM / Kilometers
9. Headlight
10. Brake Error
11. Engine Error
12. Controller Error
13. Switch Error
14. Low Voltage
15. Cruise
16. Battery Life Indicator
17. Speed
18. MODE: Ride Assist Level

For error displays, please refer to the TROUBLESHOOTING section of this manual.

Enabling Power-assist

Power-Assist allows you to choose how you want to power your e-bike. Set your power-assist level, and either use the throttle for some extra juice, or begin pedalling to get further with each pedal.

Increase or decrease your power-assist using the monitor display up and down arrows until you reach a setting you're comfortable with.

Pedal-Assist - enable when the bike is travelling faster than 2 mph.
Walk-Assist - enable when the bike is travelling less than 4 mph.
Cruise Control - enable when the bike is travelling faster than 5mph.

Charging the E-Bike

Fully charge your battery before your first ride and then after any operation, especially after long-distance riding .

Park the e-bike where an electric socket is available. With the battery off, insert the round charging plug of the charger into the charging port on your e-bike frame, and then plug the other end into a standard 100-240 volt AC outlet.

When the charging indicator turns red, the battery is charging. When the charging indicator turns green, charging is finished and the battery is fully charged.

It takes up to 6 hours to fully charge a 10Ah battery pack.

When the charging is finished, unplug the electrical plug from the wall outlet first, then disconnect the charging plug from the e-bike.

NOT FULLY CHARGED

FULLY CHARGED

Notes for charging

▪ Make sure to charge your bike before rides. Do not attempt to ride with too little power available.

▪ PLEASE CHARGE THE BATTERY IN A DRY, WELL VENTILATED AREA WITH ADEQUATE POWER SUPPLY.

▪ To protect the battery, only use the original charger designated for your e-bike. Please do not use the enclosed charger to charge other e-bike models or batteries.

▪ The charger contains high-voltage circuit. Do not dismantle it.

▪ Only charge the battery while it is switched off.

▪ Please avoid any liquid or foreign substance from entering the charger. Please protect the charger from impact. Never let it drop or drop objects onto it.

▪ Do not cover the charger when it is charging.

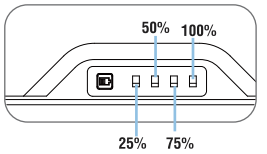
▪ Please keep and use our charger in a dry and ventilated area.

▪ During charging, if the charger emits any smell or it becomes excessively hot, please stop charging and contact customer service.

▪ Do not charge your e-bike without supervising the charging process.

Your E-Bike's Battery Pack

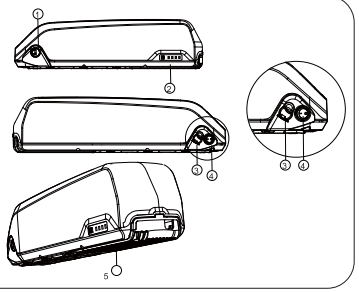
To check the life of your battery, locate your battery pack on your e-bike. Find the side panel and press the battery button. Your battery pack will light up to indicate your e-bike's current battery life.



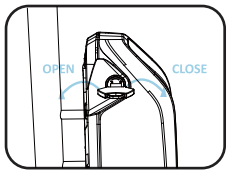
FULLY CHARGED
CHARGE YOUR BATTERY
BATTERY IS DEAD

BATTERY PACK DIAGRAM
FEATURES / PARTS

1. Keyhole
2. Battery Power Indicator Lights
3. Charging Port
4. Power Switch
   O : Powered Off
   — : Powered On
5. Battery Dock Port

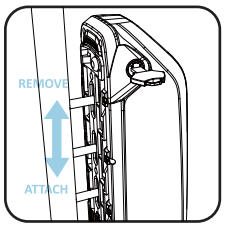


Your e-bikes battery pack is removable. It is recommended you remove your battery pack if you are not riding your e-bike for extended periods of time, storing it, or have parked your e-bike in an unsecure location.



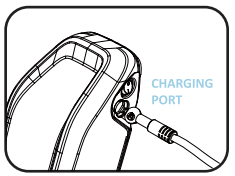
UNLOCK BATTERY
Insert your e-bike key into the keyhole and turn counterclockwise to unlock battery.

LOCKING THE BATTERY
Align and attach your battery, insert your e-bike key into the keyhole and turn clockwise to lock your battery to the frame.



DETACHING / REATTACHING YOUR BATTERY
After unlocking your battery pack, slide the full battery pack upwards to remove from the frame.

To reattach, ensure the key has been turned into the "unlock" position, align your battery pack to your e-bike frame, and slide down to lock into the frame. Turn your key to the "lock" position and remove your key.



CHARGING THE BATTERY PACK
Before charging your e-bike battery, ensure that your battery pack is turned off. Flip the Power Switch on your battery pack to the "O" position to turn it off. Connect your charger to your e-bike until your charger indicates your e-bike is fully charged.

Battery Care & Maintenance

1. Please charge the battery after its energy is consumed for 50% - 70% of its total energy, rather than waiting until the battery's energy is fully consumed. Doing so ensures you extend your battery's lifespan. Charge the battery pack to full after each long-distance ride. Do not charge the battery for a long time (in excess of 10 hours) in summer. Doing so may damage the battery.

2. Recharge the battery once a month, even if your e-bike is in storage and not being used.

3. The ideal charging temperature is between 32°F - 104°F (0°C - 40°C).

4. Battery pack might not been fully charged when temperature is over low or over high.

When the battery is charged, its temperature may become a little higher, it is normal under the temperature of 50°C. If the charger indicator is useless when the battery is full charged or the battery is very hot (that exceeds 50°C), please come to the seller to find maintenance at once.

5. Do not jolt the charger in the rear box if there is one box attached; and the charger should be far away from water. The impact and shake should be at the lowest degree when the battery is moved.

6. Each specially designed charger is provided for each battery pack. Do not use other type of charger for fear of burning out battery and causing danger.

7. Battery storage conditions: cleanliness, coolness, dryness and airiness, temperature 0°C - 45°C. Keep away from longterm sun-exposure, fire, water-logging and mixing the battery together with corrosive substance during battery shipping and storage.

8. Please let the key on the head of the battery case be "on" when you charge it.

9. Please sure that there is no short-circuit in your wall socket for fear of burning out battery and causing danger.

10. Please don't pull out the power key when you are riding the bike forward under high speed.

Battery warning

A lithium ion battery requires specially designed chargers. You should never charge your battery with a substitute charger that is not designed for this e-bike. Use of an unsuitable charger to charge a lithium ion battery could result in over-heating, fire or even explosion.

- Recharge battery after every use.
- Do not disassemble or alter the battery/charger.
- Do not place battery/charger near open flame or corrosive substances.
- Do not allow any liquids on or inside the battery/charger.
- Do not expose the battery/charger to extreme weather conditions.
- Do not operate the battery/charger if damaged.
- Recharge the battery only with a charger specified by the manufacturer.
- Only use the battery/charger in its intended purpose.
- Only use the battery/charger on approved products.

Battery disposal

WARNING: Do not dispose of the battery in a fire or with household waste. Contact your local waste disposal agency for the address of the nearest battery deposit site.

No, rechargeable batteries of any kind should not be placed in your trash can (or dumpster). It is illegal in some states to do so because rechargeable batteries contain heavy metals that can be hazardous to the environment.

Troubleshooting

No.	Problems	Causes	Troubleshooting
1	Battery gauge lights up but bicycle does not operate	1. Power cord is not properly plugged into battery 2. Brake cut-off engaged or faulty 3. Speed sensor adjusted too low 4. Blown fuse 5. Loose motor wire connector 6. Loose connectors 7. Broken wire 8. Throttle disengaged or faulty	1. Properly plug in power cord to battery 2. Disengage brake cut-off or replace 3. Adjust speed sensor 4. Replace fuse 5. Check motor wire connector 6. Check all connectors 7. Inspect all wires 8. Engage throttle or replace
2	Bicycle operates but battery gauge does not light up	1. Loose connectors 2. Damaged wires 3. Faulty battery gauge	1. Check throttle connectors 2. Inspect all wires 3. Replace battery gauge
3	Bicycle has reduced speed and/or range	1. Speed sensor is not adjusted 2. Low batteries 3. Faulty batteries 4. Low tire pressure 5 Brakes dragging against rim	1. Adjust speed sensor 2. Charge batteries for recommended time 3. Replace batteries 4. Inflate tires to recommended pressure 5. Adjust brakes and/or rim
4	Bicycle has intermittent power	1. Loose connectors 2. Loose fuse 3. Damaged wires	1. Check all connectors 2. Check fuse connector 3. Inspect all wires
5	Charger light does not operate	1. Power outlet faulty 2. Charger is not plugged into wall or battery properly 3. Charger light or charger is faulty	1. Try another outlet 2. Check all plugs 3. Replace charger
6	Charger completes charging in an unusually short amount of time	1. Faulty charger 2. Faulty batteries	1. Replace charger 2. Replace batteries
7	Chain jumping off freewheel sprocket or chain ring	1. Chain ring out of true 2. Chain ring loose 3. Chain ring teeth bent or broken 4. Rear or front derailleur side-to-side travel out of adjustment	1. Re-true if possible or replace 2. Tighten mounting bolts 3. Repair or replace chain ring/set 4. Adjust derailleur travel
8	Gear shifts not working properly	1. Derailleur cables sticking/stretched/damaged 2. Front or rear derailleur not adjusted properly 3. Indexed shifting not adjusted properly	1. Lubricate/tighten/replace cables 2. Adjust derailleur 3. Adjust indexing

No.	Display Error	Causes	Troubleshooting
1	Brake Error	1. Brake wiring harness connector is loose. 2. Brake wiring harness is cracked. 3. Inside joint pin is bent or offset	1. Plug/connect the wiring harness connector. 2. Replace the power brake. 3. Replace the main line bundle. 4. Go to bike repair shop for assistance.
2	Engine Error	1. Motor wiring harness joint is loose 2. Motor wiring harness is cracked. 3. Motor failure.	1. Restart the e-bike after connecting the motor wiring harness. 2. Seek help from a professional repair shop to repair or replace the motor.
3	Controller Error	1. The controller communication wiring harness is loose or damaged. 2. The internal pin of the controller wire harness connector is bent or offset. 3. The controller is malfunctioning.	1. Restart the instrument after plugging in the motor wiring harness connector. 2. Replace the main wiring harness. 3. Seek help from a professional repair shop to repair or replace the controller.
4	Switch Error	1. Twist-grip throttle communication wiring harness is loose or damaged. 2. Internal wiring harness connector pin of the twist-grip is bent or offset. 3. Internal pin of the controller communication wiring harness joint is bent or offset. 4. Twist-grip switch is malfunctioning.	1. Connect the wiring harness connector and restart the e-bike. 2. Replace the main wiring harness. 3. Seek help from a profssional repair shop to repair, or replace electronic twist-grip switch.
5	Low Voltage	1. Battery power is too low.	1. Recharge your e-bike. 2. Turn off your battery pack and ride as a normal bike until you are able to recharge.

E-Bike Inspection Checklist

Before every ride, it is important to carry out the following safety checks on a regular basis:

BRAKES:

- Ensure front and rear brakes work properly
- Ensure brake shoe pads are not over worn and are correctly positioned in relation to the rims.
- Ensure brake control cables are lubricated correctly, adjusted and display no obvious wear.
- Ensure brake levers are lubricated and tightly secured to the handlebar.

WHEELS & TIRES:

- Ensure tires are inflated to within the recommended limit as displayed on the tire sidewall.

SAFETY WARNING

There is a danger of wheel failure due to rim wear. Replace wheel immediately when/if any part of the above groove wears off.

- Ensure tires have thread and have no bulges or excessive wear.
- Ensure rims run true and have no obvious wobbles or kinks.
- Ensure all wheel spokes tight and not broken.
- Check that axle nuts are tight. If your bicycle is fitted with quick release axles, make sure locking levers are correctly tension and in the closed position.

STEERING COLUMN:

- Ensure handlebar and stem are correctly adjusted and tightened, and allow proper steering.
- Ensure that the handlebars are set correctly in relation to the forks and the direction of travel.
- Check that the headset locking mechanism is properly adjusted and tightened.
- If the bicycle is fitted with handlebar end extensions. Ensure they are properly positioned and tightened.

FRAME & FORK:

- Check that the frame and fork are not bent or broken.
- If either are bent or broken, they should be replaced.

CHAIN:

- Ensure chain is oiled, clean and runs smoothly.
- Please go to the qualified technician for adjusting the correct chain tension.
- Extra care is required in wet or dusty conditions.

REAR SUSPENSION:

- Please check the rear suspension connection regularly.

BEARINGS:

- Ensure all bearings are lubricated, run freely and display no excess movement, grinding, or ratting.
- Check headset, wheel bearing, pedal bearings and bottom bracket bearings.

CRANKS & PEDALS:

- Ensure pedals are securely tightened to the cranks.
- Ensure cranks are securely tightened to the axle and are not bent.

DERAILLEURS:

- Check that front rear mechanisms are adjusted and function properly.
- Ensure control levers are securely attached.
- Ensure derailleurs, shift levers and control cables are properly lubricated.

ACCESSORIES:

- Ensure that all reflectors are properly fitted and not obscured.
- Ensure all other fittings on the bike are properly and securely fastened, and functioning.
- Ensure the rider is wearing a helmet.

WARNING

If any safety-critical components need to be changed, please see an authorized retailer or professional bicycle repair shop.

CAUTION!

This assembly and operation manual shall remain an integral part of the e-bike. When you transfer the e-bike to others, please include this manual as it contains the important safety guidance and operation instructions. Anyone riding the e-bike should carefully read the safety guidance and operation instructions prior to riding.

Changes in pictures, diagrams, data, descriptions and specifications in this manual may change as we continuously improve our products.

Limited Warranty

PLEASE SAVE YOUR SALES RECEIPT

1. **Frame:** 2 years quality warranty.
2. **Battery:** 10 months quality guarantee for Li-ion battery.
3. **Electric Motor:** We provide as long as 12 months quality warranty.
4. **Charger/Controller:** 12 months quality warranty.
5. **Other Electric Parts:** 6 months quality warranty.
6. No warranty for brake shoes and tires.

This warranty covers normal use only. It does not cover the product due to rider misuse, neglect, accident or improper servicing.

Any attempt of repair done by the consumer (other than tires and normal adjustments) will void the warranty.

PROOF OF PURCHASE

Fill in and retain for your records.
(Please retain / attach your sales receipt for warranty claims.)

Full Name: _____

Date of Purchase: _____

Place of Purchase: _____

Model Name: _____

Wheel Size: _____

Color: _____