

User Manual

V 3.0



FOREWORD

The following operation manual is a guide to assist you. This manual is not a complete document on all aspects of 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.

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The Purpose and Benefit of this Booklet

This booklet describes the assembly and safe operation of your electric bicycle. Pictures are for reference only and may show a similar component from another model.

- **Please Read The Entire Users Manual Before Riding Your New Electric Bicycle**
- **Always Check Bike, Brakes, Tires, and Screws/Nuts for Tightness Before Riding**
- **Recharge your electric bike before your first ride and after any long-distance operation.**

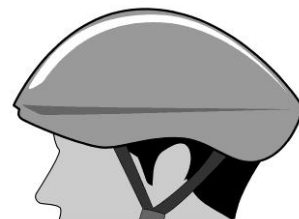
Things you must know before your first ride

Please read this manual carefully before operating your e-bike in order to familiarize yourself with the bike and its different functions.

Please learn and observe all the road rules while riding your e-bike on public roads, including ALWAYS wearing an approved helmet.

The correct helmet should:

- **be comfortable to the rider**
- **be lightweight**
- **have good ventilation for the head**
- **fit snugly**
- **cover the forehead**



It is your responsibility to familiarize yourself with the laws of the state where you ride and to comply with bicycle laws

Young children, pregnant women, and any persons with vision, balance, or other problems that would prevent them from riding a bicycle should not use the e-bike.

The e-bikes are not designed for two riders. Please ensure only one person at a time is riding the e-bike.

E-bikes are for on-road or improved trail use only and should not be used for riding rough trails. Damage to the bike may occur if used off-road.

Do not operate your electric bike after consuming any amount of alcohol or taking any drugs.

All photos are for general reference only and may differ slightly for each model of e-bike.

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- **NEVER** carry a passenger on the Electric Bike!
 - **NEVER** modify the Electric Bike with unapproved accessories.
 - **NEVER** ride through deep water.
 - **NEVER** perform wheelies, jumps, or trick stunts.
 - **AVOID** riding in the rain for long periods of time.
 - **AVOID** water contact to the motor and electric lines.
 - **ALWAYS** keep both hands on handlebars.
 - **ALWAYS** apply brakes lightly when riding on rocks or loose surfaces.
 - **ALWAYS** use caution when going through puddles.
 - **ALWAYS** inspect the Electric Bike before each ride to ensure a safe ride.

Attention :

1. For saving energy and extending the life of the battery, please use the pedal for assistance on the electric bike when climbing the slope or heading into the wind.
2. Please read the manual carefully, do not use the electric bike before familiar with its performance. Do not lend it to the one who does not know about its operation.
3. When in bad weather like rain or snow, the brake distance should be increased.
When the electric bikes runs at the speed of 20km /h, the wet brake distance should be no longer than 15m. Please adjust the brake frequently, and change the brake pad in time.
4. Check the tightness of the chain. The tightness should be about 15mm. When adjusting the chain, loosen the rear axle nuts, adjust the chain tightness screw making sure the chain tightness is proper, then tighten the rear axle screw.
5. For the safety of you and other people, cut the power supply when it is not used.
6. Check the air tension frequently. If the air is too less, the resistance will increase, affecting the running range.
7. The electric element can only be cleaned outside, no need to be maintained for the inside. Do not open it by yourself. (If these parts opened by yourself, no warranty for it)
8. It is forbidden to be overloaded for the electric bicycle. If it is overloaded, the electrical parts will be damaged. (the plastic parts may deform due to the high temperature, or the fuse socket may be damaged due to the high temperature) These are not under warranty.
9. Please cut off the power if there is a problem with the electrical parts.
10. Please pay attention to national legal requirements when the bicycle is to be ridden on public roads (e.g. lighting and reflectors)
11. The fasten torque of the fixing screw for the rear rack should be 16N.m.

Getting Started

First, unpack your electric bike carefully and save all packing material. Be sure to locate your charger, pedals, keys, and any small parts like nuts or screws inside the shipping carton. Sometimes small parts like nuts or screws may come loose during shipping so be sure and check the bottom of the carton and protective wrapping carefully. Keep your packing material until you are through assembling your bike and know that it is running properly.



Assembly Instructions

This bicycle was fully assembled, inspected, and tuned at the factory and then partially disassembled for shipping.

Your bike arrives in the shipping carton about 90% assembled. To ship the bike, the pedals, seat, front wheel, and sometimes the handlebar are loosened or removed.

This manual will list all of the steps required for the various models.

The following “basic” assembly instructions will assist in getting the bike ready to ride. If you have questions about your ability to assemble this product, please consult a qualified bicycle technician.

We recommend that two people work together to assemble the electric bicycle

Assembly Steps

Step 1

Unpack your Electric bicycle - Untie or snip the wires holding your Electric bicycle in its protective frame and remove it from its packaging. Assemble bicycle handlebars and lock them with tools



Step 2

Assemble the headlights and fenders



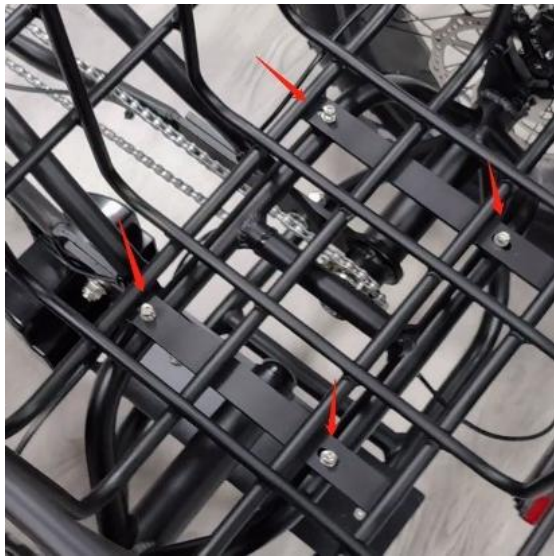
Step 3

Assemble the front wheel set and fix the screws on both sides. The locking torque should reach 10 N.m. Then the motor wire is inserted with the connecting wire together (white arrow to ensure consistency)



Step 4

Place the rear basket in the rear position of the bike, align the four holes above the basket with the corresponding holes on the frame, lock the screws, and the locking torque should reach 5 N.m



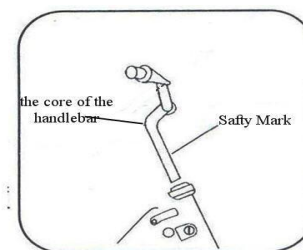
Step 5

Connect the taillight wire connector to the lamp, Please be careful to insert in the correct direction



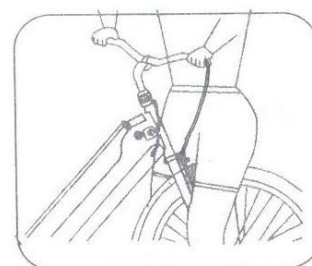
Attach and adjust the handlebar

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 13-14N.m



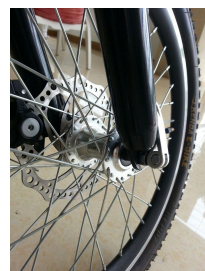
The stem must be inserted to the Minimum depth or lower as indicated on the steering post to ensure safety, see the picture. Tighten the stem screw located on the top of the handlebar stem.

You may adjust the handlebar stem angle by loosening the Allen key screw located underneath the stem. Tighten the stem, adjust the screw securely after positioning the stem angle. The tightening torque between the handlebar and the frame stem should be bigger than 18-20N.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 an angle of 90degree, see the picture.

Some models have a light/power meter console that attaches to the handlebar. Attach this with the plastic brackets and screws provided.



The adjustment of the wheel:

After loosening the wheel, please adjust it according to the recommended torque. The fasten torque should be no less than 30Nm for the rear wheel. The fasten torque of the front wheel should be no less than 25 N.m.

Check and adjust the Front Brake



- 1, distance adjustment bolt
- 2, rocker arm
- 3, fixed base of brake cable
- 4, position adjustment bolt
- 5, fixed base
- 6, brake shoe adjustment bolt

The front brake is operated with the left brake handle.

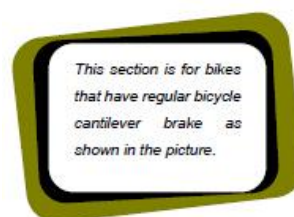
Adjustment method for brake shoe:

- ①Screw down the positioning screw;
- ②Adjust the distance of brake shoe by left/right rotation, the left rotation of brake shoe adjustment bolt will increase the distance of brake shoe, and the distance of brake shoe will decrease on the contrary (as shown in Fig and disc Fig). The adjustment for the brake shall be made according to the conditions.

Adjust the rear brake

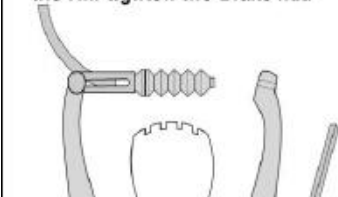
For models with standard bike rear brakes:

Remove the bolts and safety catches from the axle. Slip the wheel into the forks. Slip on the safety catches and then the nuts on both sides. Spin the wheel in order to check that it is straight, Adjust as necessary. Tighten firmly.



The rear brake is operated with the right brake handle.

1. While holding the Brake Pad against the rim tighten the Brake nut.



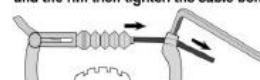
Always check that both your front and rear brakes are properly adjusted before riding your bike.

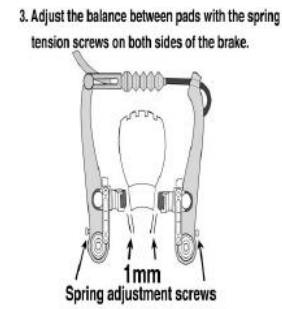
Squeeze your brake together and slip the cable into the trough. You may need to adjust the cable length by loosening the nut and sliding the cable through to the proper position.

— To hold the cable in position

Adjust the brake pads on either side by using an Allen wrench so that they make contact on the metal wheel rim and not the tire. Be sure they are straight and the distance is 1-1.5mm

2. Attach the cable as shown. Set the brake pad clearance at 1mm between the Pad and the rim then tighten the cable bolt.





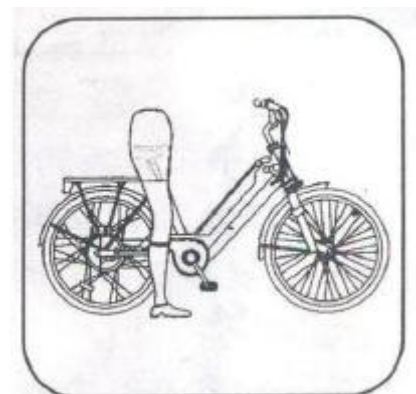
Adjust the Saddle



Your seat will tip forward for easy battery removal on most models.

Your seat height is adjusted by a quick release. Pull the quick-release lever, Insert your seat post to at least the minimum insertion line marked on the post. Tighten the adjusting nut by quick-release lever, then push the quick-release lever to the closed position, the suggested torque is no less than 19.5N.m.

The seat angle is adjusted with the nuts that attach the seat to the seat rail. Ensure that the nuts are tightened firmly and that the seat does not move forward or back while you are sitting on it.

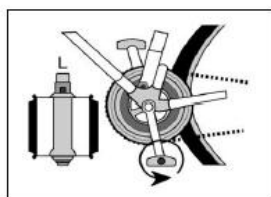


Adjustment of the seat post

The adjustment method is as follows :

Loosen the hand release of the seat post, take out the seat post; Adjust the screw, Insert the seat post back into the frame tube, and tighten the clamp of the seat position.

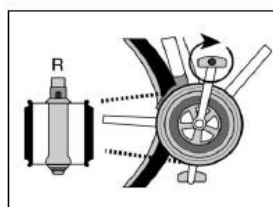
Attach the Pedals



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

(1). The right pedal attaches to the chain side crank arm with (clockwise) thread

(2). The left pedal attaches to the other arm and has a left-hand (counter-clockwise) thread.



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.

Operation of Your Electric Bike

Your e-bike is driven by a motor embedded in the hub of the rear wheel and can not be driven directly by the 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.

Electric -Assisted:

You must turn on the battery to use the e-bike in Electric-Assisted mode.

In the Electric-Assisted model, power assist is triggered when you pedal forward, and power assist stops when you stop pedaling. In other words, power assist happens as long as you pedal. You don't need to pedal hard. All you need is to apply a light force to the pedals continuously to maintain the current flow. When you apply one of the brakes, power-assist will automatically stop. allowing the e-bike to slow down and stop. Power assist will turn itself off when the e-bike has reached the maximum speed of 25km/h.

You should use the SHIMANO gear shifter at the handlebar to set the gears appropriately according to road conditions and pedal as usual, you will find that you need to exert a lot less effort and the e-bike travels faster and at a more steady speed.

Note that the Battery level indicators on the handlebar will show the correct level only when power is not being drawn from the battery.

Charging Your Battery

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

Your charger plugs directly into your battery pack with either a round (RCA or XLR) connector or the same 3-prong plug as your bike's power cord.

You must plug your charger into the bike first and then to the wall outlet.

***NEVER PLUG A POWER CORD FROM A WALL OUTLET DIRECTLY INTO THE BATTERY!
YOU MUST USE YOUR CHARGER!***

The light on the charger will be red while charging and turn green when finished. When the charger's light turns green, please keep on charging the battery for 1-2 hours to ensure that the battery has a longer usage life. Then unplug your charger from the battery and the wall.

Always charge your battery before it gets too low. If you let your pack run completely dead, it may not re-charge. It is a good idea to turn the key to the position OFF and remove your key after any ride so that it will not be left on accidentally.

Your lithium battery pack switch has three positions. All the way to the left is "off". Turn the key to the right to turn the bike on.

To unlock the pack, push the key in slightly and turn to the left. It can then be removed. Push-in and turn right to lock it on.

The red button on top of the pack shows the power level when pushed. The first light only comes on when the battery is too low to run the bike. The next lights indicate low, medium, and full. The lights on the handlebar also show the level.

Remember: the sooner you charge after riding the longer your pack will last.

The Lithium battery is built with circuitry that prohibits over-charging and excessive discharging.

The battery charger is designed specifically for the bike; connecting the battery to any other charger will void the warranty

Operation of Your Display

1. Display function

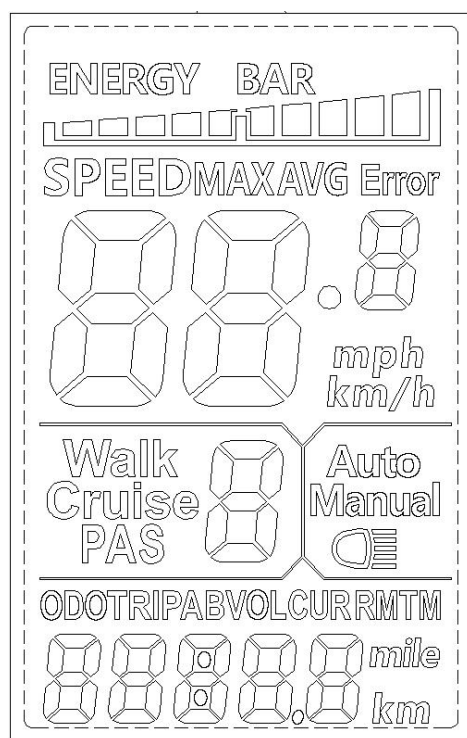
Speed display, power level display, power indicator, failure warning, total mileage, single mileage, headlight display, single driving time display

2. Control, setting up functions

Power switch control, headlight switch control, 6Km/h point control, wheel diameter setting, maximum speed setting, idle automatic hibernation time setting, backlight brightness setting, voltage level setting

3. Communication protocol: UART

All the contents of the display screen(full display in boot 1S)



Show content introduction

Auto
Manual



3.1 Headlight The instrument can be manually turned on and the brightness of the sensing environment is automatically turned on (light sensitivity support is required).

ENERGY BAR

3.2 Battery power display BATTERY



3.3 Multifunctional display area

ODO TRIP A B VOL CUR R MTM

Total mileage ODO, single mileage TRIP A, single mileage TRIP B, battery current voltage VOL, current operating current CUR, remaining mileage RM; Instrument boot time TM



3.4 Vehicle mode

Walk boost mode; Cruise: constant speed cruise mode; PAS: Power file position: 0 ~ 9 adjustable;

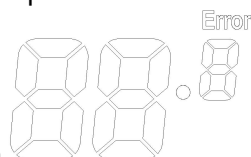


3.5 Speed display area

Maximum speed MAX, average speed AVG

Unit MPH, KM/H

The meter will calculate the true speed based on the wheel diameter and signal data



3.6 Vehicle Status Display Area

Vehicle Status Code Meaning:

Status Code(Decimal)	State Meaning	Remarks
0	Normal	
1	Reservation	
2	Brakes	
3	Power Sensor Fault(Riding Mark)	Not Realized Here
4	6KM/H cruise	
5	Real-time cruising	
6	Battery undervoltage	
7	Motor failure	
8	turn malfunctioning	
9	Controller failure	
10	Communication reception failure	
11	Communication dispatch failure	
12	BMS communication failure	
13	Headlight failure	

5S Protocol Vehicle Status Code Meaning:

Status	State Meaning	Remarks
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Code(Decimal)		
33	Current anomaly	
34	Turn the anomaly	
35	Motor phase deficiency	
36	Motor Hall anomaly	
37	Brake anomaly.	
30	Communication anomaly	

3.7.install

P01: Backlight brightness, the darkest level 1, the brightest level 3;

P02: mileage unit, 0: KM; 1: MILE;

P03: Voltage level: 24V, 36V, 48V, 60V, 64V default 36V;

P04: Dormancy time: 0, not dormancy; Other numbers are dormancy times, range: 1-60; Unit minutes;

P05: Help file bit: 0, 3 file mode:

1,5 gear mode:

P06: Wheel diameter: unit, inch;

Protocol 2 wheel diameter value: 5.0 ~ 50 Precision: 0.1 inch

5S protocol wheel diameter value: 0:16 inch, 1:18 inch, 2:20 inch, 3:22 inch,

4:24 inch, 5:26 inch, 6:700 C, 7:28 inch;

This parameter is related to the meter display speed and needs to be entered correctly;

P07: Speed gauge magnetic steel number: range: 1-100;

This parameter is related to the meter display speed and needs to be entered correctly;

If it is an ordinary hub motor, the number of magnetic steel is input directly;

If it is a high-speed motor, it is also necessary to calculate the deceleration ratio, and the input data = the number of magnetic steel × deceleration ratio;

For example: number of motor magnets 20, deceleration ratio 4.3: input data is: $86 = 20 \times 4.3$

P08: Speed limit: Agreement No. 2 range 0-100km / H, 100 means no speed limit;

5S protocol 0-41km / H;

The input data here represents the maximum operating speed of the vehicle: for example, input 25, indicating that the maximum operating speed of the vehicle will not exceed 25km/h; The drive speed is maintained at the set value,

Error: ± 1 km/h; (The speed limit for power and turning is equal)

Note: The value here is based on kilometers. When the unit setting is converted from kilometers to miles, the speed value of the display interface automatically converts to the correct mile value, but the speed limit value data set at this menu under the mile interface is not converted. Is inconsistent with the actual speed limit of the mile speed;

P09: zero start, non-zero start setting, 0: zero start; 1: Non-zero start;

P10: The drive mode is set to 0: Power Drive(how much power is output is determined by the power file bit, and the switch is invalid at this time).

1: Electric drive(by turning the handle drive, the power file bit is invalid at this time).

2: Power Driven and Electric Driven Coexistence

P11: Help sensitivity setting range: 1-24;

P12: Help start intensity setting range: 1-5;

P13: Power Magnetic Steel Disk Type Setting 5, 8, 12 Magnetic Steel Types

P14: Controller limit value set default 12A range: 1-20A

P15: Controller undervoltage

P16: ODO zero setting length press key 5 seconds ODO zero

P17 :0: No enabling cruising, 1: enabling cruising; Automatic cruise optional(valid for protocol 2 only)

P18: Display speed ratio adjustment range: 50 % ~ 150 %,
P19: 0 power bit, 0: 0 file, 1: does not include 0 file
P20: 0:2 Protocol 1:5 S Protocol 2: Standby 3: Standby
P99: press and hold down the down key for 10 seconds to restore the factory default parameters

4.Key Introduction :

The specific combination of keys is as follows



Press the button to use the brief

Key operation is divided into short press and long press, and combination key length press
Short press is used for rapid/frequent operations, such as the specific key combination position as follows



4.1 When riding, you need to modify the power/speed file, short press



4.2 Toggle display data for multi-function areas during cycling, short click

Single key length is mainly used to switch the mode / switch state

Composite keys(long presses) are used to set parameters because the operation is complex, which can reduce errors

(Short press does not make the composite key, because it is easy to trigger mistakenly, so it is too difficult to do)

Specific operational explanations:

1.modify the power ratio / power file

Let's say the current is power mode.

1) Short press  , Help + 1


2) Short press  , Help - 1

2.Toggle speed display

Long press,  +  Toggle speed display


3.Set / Disable 6Km/h Cruise, Switch Headlight, ODO Clear Zero

Static state of vehicles , long press  , Will enter 6KM/h cruise mode, let go of cruise


mode;long press  Turn the lights on and off ;

P16Menu Interface , long press  five seconds , ODO clear zero.



4.Switching liquid crystal display



If the current display is working , long press  , Will turn off the screen, instead turn on the screen



5.Toggle multi-function display area content


Short  Can switch the value of the multifunction display area

6.Set Parameters

Long press  +  Will enter the parameter setting interface. Parameters that can be set include, Wheel diameter(in: inches), number of magnetic steel, liquid crystal brightness, low pressure points, etc.(see settings: P01-P20) ;

Under Settings Interface , Can be short press  , or  Set the value to perform a

minimum-precision unit value operation, you can also long press  , or  Continuous Fast Modify Parameters:

1.Short press  Switch to Next Parameter ; Exit settings and save parameters. If not operated, the modified parameters will automatically exit and be saved after 8 seconds.

Note: due to the upgrade of the company's products, the content of the product will be different from the specifications, but it will not affect your normal use.

Installation procedure

Step 1

Unpack your Electric bicycle - Untie or snip the wires holding your Electric bicycle in its protective frame and remove it from its packaging. Assemble bicycle handlebars and lock them with tools



Step 2

Assemble the headlights and fenders



Step 3

Assemble the front wheel set and fix the screws on both sides. The locking torque should reach 10 N.m. Then the motor wire is inserted with the connecting wire together (white arrow to ensure consistency)



Step 4

Place the rear basket in the rear position of the bike, align the four holes above the basket with the corresponding holes on the frame, lock the screws, and the locking torque should reach 5 N.m



Step 5

Connect the taillight wire connector to the lamp, Please be careful to insert in the correct direction

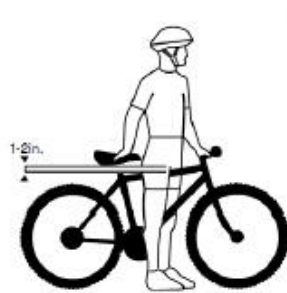


Warning:

1. The rated loading capacity for the rear rack is 25kg. It does not fit for a Children's Seat.
2. The total loading capacity should not be over 120kg.
3. The fastener of the whole electric bicycle should be checked frequently.
4. Please put on your helmet when riding the electric bike.
5. If there is no rear rack on the electric bicycle, do not fix the rear rack by yourself.
6. The rear rack cannot draw a trailer. And the installation of the rear rack can not shield the reflector or light.
7. When the goods are put on the rear rack, the reflector or the lights should not be blocked. The goods should be put on the two sides of the rear rack evenly.

The match of the electric bicycle and people

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



Adjustments and Maintenance

-Your e-bike is designed for regular road use for a single person. Using your e-bike for extreme maneuvers, such as extreme off-road use, jumping, or carrying excessive load will damage the e-bike and could cause serious injury.

-Do not use high-pressure water streams to clean your e-bike, as water might seep inside the motor or the wiring compartment and cause rusting of electric parts or short circuits. Please use a damp cloth with a neutral detergent to clean the bike body. Do not use alkali-based or caid-based detergent such as rust cleaners as it may result in damage and/or failure of the bike body.

-Avoid parking your e-bike outside when there is rain or snow. At the end of a trip where there was rain or snow, bring the e-bike inside and use a clean, dry towel to eliminate any wetness.

-During daily use, please keep the controller clean and dry. Keep it away from water, vibration, and contamination, otherwise, the controller may be damaged.

- The chain can throw excess oil onto the wheel rim. Wipe excess oil off the chain. Keep all oil off the surfaces of the pedals where your feet rest.

-Using soap and hot water, wash all oil off the wheel rims, the brake shoes, the pedals, and the tires. Rinse with clean water and dry completely before you ride the bicycle.

-Using a light machine oil (20W) and the following guidelines, lubricate the bicycle:

Pedal	Every 6 months	Put 4 drops of oil where catch pedal axle goes into the pedal
Chain	Every 6 months	Put 1 drop of oil on each roller of the chain
B.B.	Every 6 months	Contact a professional technician
Motor	Every 1 year	Contact a professional technician

Some instructions on battery maintenance and charging

1. Please charge the battery for 6-10 hours after its energy is consumed for 50%-70% of its total energy, in this way, the battery life will be longer. If you leave the battery pack in your stock in less energy condition, it will sleep to die easy. So please charge the battery pack full after each long-distance ride. Do not charge the battery for a long time (that is “exceeds 10 hours”) in summer; in case that the battery will be calorifacient and broken.

2. Recharging battery once a month during the period of storage

3. Charging temperature: $0^{\circ}\text{C} \sim 45^{\circ}\text{C}$

4. Battery pack might not be fully charged when the temperature is too low or too 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 make the charger jolty 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 another type of charger for fear of burning out the battery and causing danger.

7. Battery storage conditions: cleanliness, coolness, dryness and airiness, temperature $0^{\circ}\text{C} \sim 45^{\circ}\text{C}$. No solarization, 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 ensure that there is no short-circuit in your wall socket for fear of burning out the battery and causing danger.

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

BATTERY DISPOSAL

WARNING!

NEVER throw batteries away in the trash. Take the exhausted battery to a federally or state-approved battery recycle center. Call your waste collection service to find out if they offer disposal of batteries.

Faults and Troubleshooting

No	Faults	Causes	Troubleshooting
1	Battery gauge lights up but bicycle does not operate	1)Power cord is not properly plugged into the 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 the 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	Bike 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 the rim	1) Adjust speed sensor 2)Charge batteries for the 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 to 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

Regular Inspection List

Before every ride, it is important to carry out the following safety checks:

1. 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.

2. Wheels and Tires

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

SAFETY WARNING! Danger of wheel failure due to rim wear. Replace wheel immediately when any part of above groove wears off.

- Ensure tires have tread 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.

3. Steering

- 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

4. Frame and Fork

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

5. Chain

- Ensure the 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.

7. 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.

8. Cranks and pedals

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

9. Derailleurs

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

10. 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

CATION!

If any safety-critical components need to change. Please go to authorized retailer for changing genuine replacement.

12 MONTH LIMITED WARRANTY

PLEASE SAVE YOUR SALES RECEIPT

The limited warranty as contained herein is exclusive and in lieu of all other warranties express or implied. There are no warranties that extend beyond the description in this limited warranty.

The manufacturer warrants this product, including the batteries, charger, motor, controller to be free of manufacturing defects for a period of 12Months from the shipment date (10Months from DATE OF PURCHASE). This limited warranty does not cover the normal wear and tear, tires, inner tubes, cables, or any damage, failure, or loss caused by improper assembly, set up, storage, or maintenance.

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

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

Purchase Card

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

Full Name:

Date of Purchase:

Place of Purchase:

Model Name :

Wheel Size:

Color:



Cautions !

This assembly and operation manual shall remain an integral part of the electric bicycle. When you transfer the electric bicycle to others, please enclose this manual as it contains the important safety guidance and operation instructions. Anyone riding the electric bike shall carefully read the safety guidance and operation instructions first.

The changes in the pictures, data, descriptions, and specifications under this manual may not be notified separately with continuous improvement of our corporate products.