

USER MANUAL

Electric fat bike



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Let this electric bike to be your travel companion !

This user manual applies to the following models, please read the manual carefully before use .



GENERAL INFORMATION

This manual introduces the correct use, function, safety tips, features and parameters of the Electric bike.

This manual introduces the correct use, function, safety tips, features and parameters of the electric bike

This manual contains important information, read it carefully, for the safety of yourself and others. It is your responsibility to carefully follow this manual and the instructions contained therein and also to make it known to others using this scooter. Make sure that others understand all instructions and safety issues as well. We advise you read the instructions regularly with all other drivers of the scooter. You can then also check the scooter for any defects.

Note: Check how the legislation in your country is regulated and choose a vehicle and /or liability insurance.

When using for the first time, make sure that you practice first in a place where there are no obstacles and people. And that you get to know all the possibilities of your bike.

Enjoy driving your new electric bike!

IMPORTANT INFORMATION

Thank you for choosing the electric bike from our company. This manual has been written to help you with proper use and maintenance. It is important that you understand all the functions of your new bike, in order to be able to enjoy your bike optimally, both the first ride and every ride thereafter. First practice on a road without obstacles.

The box contains the electric bike itself and in addition:

- a manual
- a charger
- a tool kit

Check that all the parts mentioned are present.

LIABILITY

Our company is not liable for any damage or consequential damage that arose directly or indirectly through the use of the scooter.

CAUTION

This company reserves the right to the final explanation of all clauses in this manual. We understand that the manual does not, and cannot, fully cover all situations that may arise from riding an electric bike, but we want to take this time to remind you to be safe while on your bike. Obey all traffic laws, and observe where in your city area you are allowed to ride your electric bike. Please wear the proper protection when riding.

Failure to follow instructions in this manual properly may lead to an improperly assembled, maintained, or operating bicycle, which can lead to a damaged product, serious injury, or death. Please follow the instructions to the best of your ability; if you are stuck, please refer to our "Contact Us!", for support! If you are not confident in your abilities to assemble or maintain, be sure to send this to a certified professional to properly tend to it.

Warranty

1. Our bicycle frames are guaranteed for lifetime
2. Electric parts: electric motor, controller, 2 years and charger: 2 years.
 - a. If batteries, chargers or electronic parts show fall damage, the guarantee will lapse.
 - b. Normal wear / removal of battery capacity is not covered by the warranty. Batteries lose capacity over time. Li-ion batteries also lose when they are not used. Batteries that are not used for more than one month can discharge themselves. Batteries that are less than 10% charged must be charged immediately otherwise they will be irreparably damaged and are not covered by the warranty. We guarantee that within 1 year of purchase the battery will retain at least 70% of its specified capacity, provided that the charging and maintenance requirements of the battery are met. If the warranty of the battery is longer than one year, capacity loss is guaranteed less than 30% per year.
3. No guarantee is given for parts subject to wear and tear, such as tires, chain, chain rings, freewheel, rear gears, cables and brake blocks, unless there are construction and / or material faults.

Claims under this guarantee must be submitted under the offer of the electric bike or the relevant part for inspection via the dealer from whom the electric bike was purchased. At the same time, the proof of purchase as well as the proof of ownership supplied with the electric bike must be handed over to the dealer.

The guarantee expires in the following cases:

- a. Incorrect and / or careless use of the bike and use that is not in accordance with the intended use;
- b. The bike is not maintained in accordance with the service booklet;
- c. Technical repairs have not been carried out in a professional manner;
- d. Afterwards assembled parts do not match the technical specification of the relevant electric bike or are incorrectly fitted;
- e. If the proof of ownership, which shows that the electric bike has been professionally assembled.
- f. The bike with pressurized water has been sprayed clean, such as with garden hose and / or high-pressure sprayer;

Electrical

The electrical system including the motor wheel , controller , battery , display etc have already be set to the frame. Please make sure the battery is sufficient before use. All information will be showed on LCD Display.Such like the current speed, ODM, speed gear battery level etc .

Brakes

Please make sure the brakes are in good condition before riding . If the brakes require any adjustment ,please contact us or find professional person to handle them.

Tires/Wheels

Before driving, check that the tires have sufficient tension, if not, please use an air pump on tension . Recommended tire pressure is 4 bar, this applies to the front and rear tires.

NOTE: Too low tire pressure affects the driving characteristics negatively, gives increased tire wear and reduces the range.

Suspension

All bicycles are with front suspension and also have suspension locks. Please choose whether or not suspension are needed on the appropriate road.

Battery

We have different battery capacity for selection. The larger the battery, the longer range it will be. We recommend that customers choose the appropriate battery capacity according to their own conditions.Recharge the battery every two weeks on (regular charging and discharging can extend the life of the battery extend).Always use the original charger other chargers may damage the battery .

Charger

- 1.Connect the plug of the charger with a socket of 110-220V.
- 2.While the bike is charging, the charger light is on red.
- 3.The light of the charger green when the bike is almost complete is charged. After the light turns green we advise to continue for 1 to 1.5 hours to recharge the battery full load.
- 4.Remove the plug from charging socket₂and disconnect the plug from the charging port , then close the charging port on cover.

LCD display: LCD-M5 Hand Control Panel Operation
Instruction1.Button definition

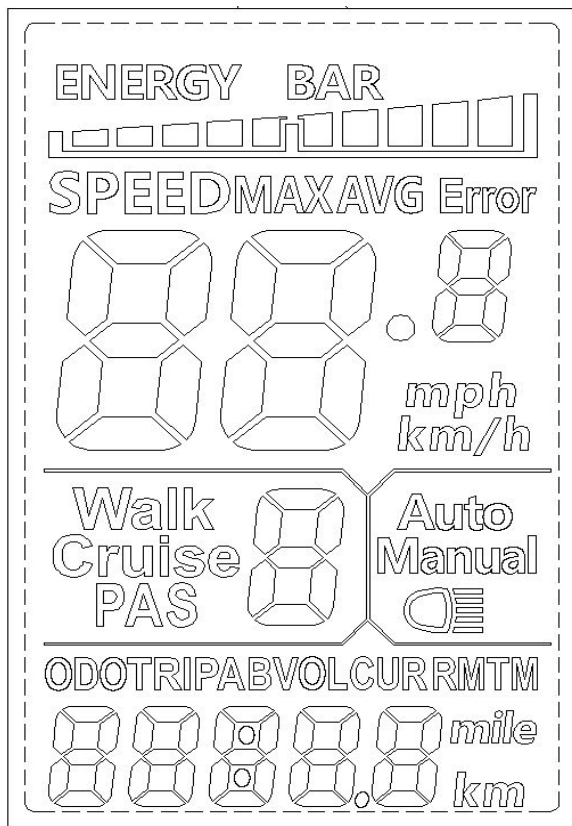


Table: Line sequence of the label connector table

Order of line	Color of line	Function
1	Brown (VCC)	Instrument power cord
2	Green (RX)	Meter data receiving line
3	Black (GND)	Meter earth wire
4	Orange (K)	Controller power line
5	White (TX)	Data transmission line of instrument

2.Function description

- 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)



3.Setup summary

Show content introduction



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).

3.2 Battery power display

BATTERY



3.3 Multifunctional display area

ODO TRIP A B VOL CUR RM TM

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

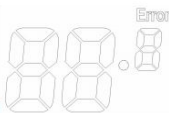


Maximum speed MAX, average speed AVG

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 Code(Decimal)	State Meaning	Remarks
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

Product parameters:

Motor	250W、350W、500W、750W、1000W
Display	LED display
Controller	36、48V Intelligent brushless controller
Charger	AC 100V-220V,2A
Battery	10.0AH/12.5AH/15AH/17.5AH
Charging time	5-9hours
Maxed speed	25Km/h (optional)
Speed gear	SHIMANO 7 speed gears
Max load	120KG
Range	30-65km full electric120kmwith PAS
Frame and Handlebar	Alloy aluminum 6061,20inch
Brake	F/R disc brake
Tyre	20" x 4.0

Safety/Use:

Driving electric bike can be a dangerous activity. Steps are means of transportation to travel quickly. This makes it possible for a dangerous situation to arise. One can lose control and / or fall. Always wear sufficient protection (helmet, elbow, knee and wrist protection). Without this protection it can happen that the rider can seriously injure himself or even possibly die. Use of the bike is entirely at your own risk and responsibility. Use your full mind, the supplier or producer can never be held liable for or through incorrect use and or errors on your part.

- * Drive on a smooth, preferably asphalted surface and stay away from motorized traffic as much as possible.
- * Avoid driving over or against sharp edges, pits and the transition to another surface. It is possible that the wheels will catch on it.
- * Avoid driving on streets or surfaces with water, sand, gravel, dirt, leaves and other disturbances.
- * Wet weather affects braking and visibility, be extra attentive.
- * Do not use the bike in the evening or at night.
- * The brakes become hot when used frequently, do NOT touch them after braking.
- * Avoid driving at high speeds when driving downhill.
- * Follow local laws and traffic regulations at all times.
- * Watch out for pedestrians and fellow road users and do not endanger them yourself.
- * Maximum carrying capacity of the scooter is 120 kilos.

Assembly

We have separate assembly instructions for each model, please refer to the attached assembly instructions

Operation

1. Check that the stand is folded. Always leave it folded during driving.
2. Then switch the electric step in (power button on the right display) and check the indicator of the battery level.
3. Sit on the saddle with one foot on the pedal and gently press the accelerator button downwards with your thumb.
4. When the electric scooter starts driving, place your other foot on the pedal.
5. To stop slowly, release the acceleration button; to really brake, release the acceleration button and use the front and rear brake at the same time.
6. When taking a turn, lean your body in the direction of the bend and steer the bend.
7. For this bike, it has 6 speeds for selection. You can select the right speed.
8. When battery powered off, you can ride the bike as a common one.

Maintenance

A lot of the basic maintenance on an e-bike is similar to that of a regular bicycle. Things like keeping chains oiled, and regularly washing bicycles to promote longevity, are key. However, this need is significantly amplified, because the torque and velocity of the motor makes the individual parts work harder. It is important to note that we believe that **customers should replace parts upon wear - not upon fail**. All pieces and parts should be as new as possible, so maintenance upkeep of the e-bike is important!

The electrical component, like the LCD display, the motor, the battery, and the circuit wiring, make it so prolonged water contact is not suitable for the electric components.

Do not submerge this e-bike in any body of water. If wiring is causing the e-bike to spark, please refrain from riding, kill the electrical current, and contact us to replace the electrical system. If the system is faulty, or becomes faulty without outside tampering or changes to the e-bike, please refer to our warranty rules.

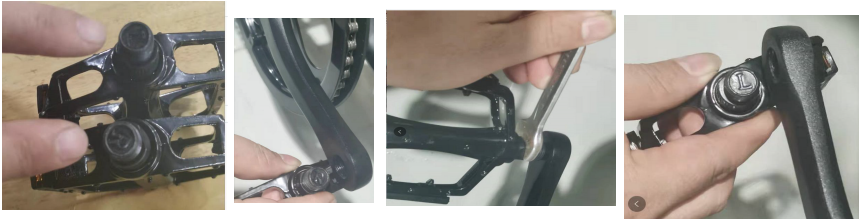
Contact Us!

We thank you again for investing in our product! We want you to have the most fun possible with your new e-bike, so if you have any problems, or want to know more about e-bikes and e-bike culture, please do not hesitate to contact us.

Installation Instructions

Step 1 . Pedal installation

1. Identify the right and left pedal with the logo on it (L is for left pedal , R is for right pedal)
2. Fix the right pedal to the chain wheel side with wrench.
3. Fix the left pedal to the crank side with wrench .



Step 2.:Front wheel installation

1. Put the front wheel on the front fork
2. Insert the quick release stem
3. Fix the quick release stem . (Please refer to the below pictures)



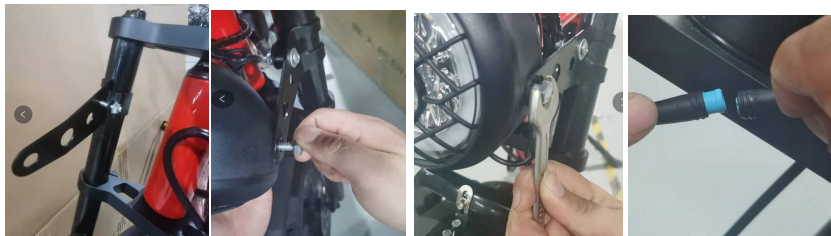
Step 3 , Front mudguard installation

1. Put the mudguard under the U-frame of front fork
2. Put the screws on the fixing part
- 3 Fix the screws with wrench .(Please refer to the below pictures)



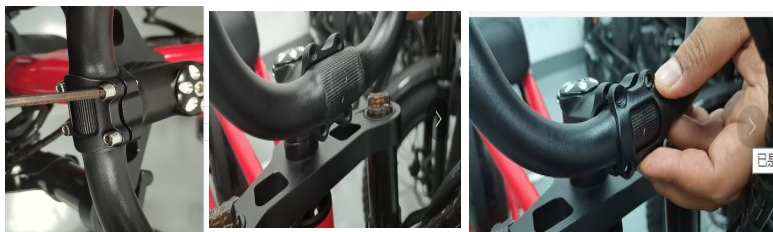
Step 4 , Front lamp installation

1. make sure the power of electric bike is off
2. Put the front lamp on the lamp stand , and fix it with screws,
3. Connect the lamp wire connectors



Step 5 . Handlebar installation

1. Release the screws on fixing parts of front tube ,
2. Insert the handlebar to the front tube and fix it with screws
3. Adjust the right position of the handle bar ,(Refer to the below pictures)





ENJOY YOUR RIDE