



# Manual



Extreme Wheel ES



This manual will provide you a better understanding of your extreme wheel electric dirt bike. Please take your time to read this manual and all safety labels carefully before riding.

This manual contains the most current product information available at the time of printing, your motorcycle may look and setup differ from the information supplied in this owner's manual. Please visit our website { HYPERLINK "http://www.begode.com" } for updates and additional information about your dirt bike.



## Riding Tips For Maximum Range

Range varies in extreme wheel electric dirt bike similarly to how it varies in gas motorcycles. The range variety of extreme wheel electric dirt bike comes from the riding application after each full charge. In addition to riding habits, energy consumption is also affected by environmental conditions (such as extreme cold or hot weather, riding on steep hill or soft sand etc.). To achieve the maximum range with a single full charge, please pay attention to reduce the maximum speed, lessen sudden acceleration and maintain a constant speed to ensure the maximum range.

To reach the maximum range, please follow the tips:

1. Avoid frequent and acute acceleration and braking.
2. Under absolute safe riding conditions, please reduce the riding speed by using throttle to decelerate instead of pulling the brake lever. When you're riding the dirt bike, if the bike is moving and the throttle is in the idle position, the energy regenerative brake will reduce the speed of the dirt bike and convert kinetic energy to charge the battery pack.
3. Maintain a correct tire pressure (Please refer to Recommended tire pressure table at page
4. Remove unnecessary goods and reduce load.
5. The maximum range in winter or summer could be slightly different.

In conclusion, you can estimate the bike range according to the above factors and your riding habits.

Note: The range will be varying significantly according to the various tough road conditions during off road riding.



### Important Notice

Congratulations on your decision to purchase a extremewheel electric dirt bike.

We welcome you to the community of extremewheel dirt bike riders. You are now the owner of state-of the art electric dirt bike, with appropriate care, will bring you pleasure for a long time to come.

This electric dirt bike has been designed and built mainly to withstand the normal stresses and strains of off road use, and only authorized for operation on public roads in its homologated version. This dirt bike must only be used as intended, dangers can be arisen for people, property and the environment through use not as intended.

This manual is designed to provide you with a better understanding of the operation, inspection, basic maintenance requirements, main functions, helpful tips and explain important safety matters of this electric motorcycle. Please read through this Owner' s manual carefully, exercise cautiously when riding the dirtbike, and contact ExtremeWheel or the authorized ExtremeWheel dealer if you have any questions. For the latest manual updates and additional information about your dirtbike, please visit the official ExtremeWheel website:

**[www.begode.com](http://www.begode.com).**

This manual is intended for personal use only, this manual is not intended for commercial use. To protect your investment, we urge you to take responsibility for keeping your ES dirtbike well maintained. Scheduled service is a must, of course. But it' s just as important to observe the break-in guidelines, and preform all the pre-ride and other periodic checks detailed in this manual. This Owner's Manual should be considered a permanent part of this dirtbike and should remain with it even if the dirtbike is subsequently sold. Please make sure the next owner well received the manual, it is, by regulation and law in same countries, regions or states, an important part of the vehicle.

All specifications contained herein are non-binding. This manual contains the word WARNING! to indicate something that could hurt you or others. The terms "right" or "left" in this manual refer to the rider's right or left side when sitting on the dirtbike.

If you have any questions concerning the operation or maintenance of your dirtbike, or if you ever need a special service or repairs, please contact your authorized ExtremeWheel dirtbike dealer, and remember that your dealer knows your ES dirtbike best and is dedicated to your complete satisfaction. If the dealer's service cannot meet your requirement, you can also contact ExtremeWheel's After-sale Service Department for help at any time:

Happy riding! We wish you enjoy safe and excellent riding at all times.



### **Warning**

If the power supply, charging system or any other power related equipment is damaged or malfunctioned, please stop using the charger or vehicle immediately and contact the local ExtremeWheel authorized dealer or workshop for replacement or repair.

### **Transporting**

It is highly recommended that the electric motorcycle be firmly secured on the transport frame using ratchet straps while it is being transported. It is also recommended to use soft straps to reduce scratches or other damages.

It is recommended to fix the ratchet straps according to the points shown in the figure. The front two are tied to the handlebar and the back two are tied to the left and right swing arm. Please do not damage the chain or brake line when tied the straps. The tie down straps should be at a 45 ° angle from the bike. Please follow the manufacturer's instructions for the ratchet straps you are using.

If you use a truck or motorcycle trailer to transport your ES dirtbike, we recommend that you follow the guidelines below:

1. Use a loading ramp.
2. Secure the dirt in an upright position, using motorcycle tie-down straps.
3. Avoid using rope, which can loosen and allow the dirtbike to fall over.

To secure your ES dirtbike, brace the front wheel against the front of the truck bed or trailer rail.

Attach the lower ends of two straps to the tie-down hooks on truck bed or trailer rail. Attach the upper ends of the straps to the handlebar (one on the right side, the other on the left), close to the fork.

Check that the tie-down straps do not contact any control cables or electrical wiring.

Tighten both straps until the front suspension is compressed about half-way. Too much pressure is unnecessary and could damage the fork seals.

Use another tie-down strap to keep the rear of the motorcycle from moving.

We recommend that you do not transport your ES dirtbike on its side. This can damage the bike.



### **Safety Riding Requirement**

Your electric motorcycle can provide many years of service and pleasure if you take responsibility for your own safety and understand the challenges you can meet while riding. There is a lot you can do to protect yourself whilst riding. Be aware that offroad racing is a physically demanding sport that requires more than just a fine motorcycle. To do well, you must be in excellent physical condition and be a skillful rider. For the best results, work diligently on your physical conditioning and practice frequently.

This electric dirtbike has been designed and built mainly to withstand the normal stresses and strains of offroad use. This electric dirtbike is only authorized for operation on public roads in its homologated version. This dirtbike must only be used as intended, otherwise dangers can be arisen for people, property and the environment through use not as intended.

You will find many helpful recommendations and safety instructions throughout this manual. The followings are a few that we consider to be the utmost important.

ES dirtbike is a high performance electric bike and should be treated with extreme cautions.

Proper safety gear, including a regional/national approved helmet, riding boots, eyewear, gloves, and protective clothing should be worn while riding to reduce the risk of potential injury, whether you are practicing to improve your skills, or riding in competition. We highly recommend the use of full height offroad boots since the vast majority of bike injuries are through ankle, leg and foot impact.

Read all Warning! and instructions in this manual as well as all the safety labels on the bike before operating your electric dirtbike.

Never allow a guest to ride your electric dirtbike without proper instruction.

Ensure you have the legal qualification to ride the dirtbike before operation.

Never consume alcohol or drugs before operation of your electric dirtbike. Even one drink or drug can reduce your ability to respond to changing conditions, and your reaction time get worse with every additional drink or drug. So don't consume alcohol or drugs and ride, and don't let your friends or others drink and ride either.

People unwilling or unable to take responsibility for their actions should not use this dirtbike. You assume all responsibility while operating your dirtbike. The seller assumes no liability for misuse or operator negligence.

Take time to get to know your ES dirtbike. Because every bike is unique, take time to become thoroughly familiar with how this one operates and responds to your commands before placing your bike, and yourself, in competition.



Learn and respect your limits. Never ride beyond your personal abilities or faster than conditions warrant. Remember that alcohol, drugs, illness and fatigue can reduce your ability to perform well and ride safely.

Keep your ES dirtbike in safe condition. Use only ExtremeWheel approved parts and ExtremeWheel bike genuine accessories. Maintaining your ES dirtbike properly is critical to your safety. A loose bolt, for example, can cause a breakdown in which you can be seriously injured. Only operate the bike when it is in perfect technical condition, in accordance with its intended use, and in a safe and environmentally compatible manner.

This motorcycle is a high voltage electric motorcycle, follow the safety and caution instructions that apply when using an electric dirtbike. If you smell an unusual odor coming from the lithium-ion (Li-Ion) battery, park your ES dirtbike in a safe place outside and away from flammable objects, and then turn off the key switch. Contact your local authorized ExtremeWheel dealer to help you to inspect your ES dirtbike immediately.

Prior to each use, the rider must check everything listed in the “Check before Riding” section on page, and the charge level of the battery pack as indicated on the dashboard display.

It is important to keep your motorcycle properly maintained and in safe riding condition. Having a breakdown can be difficult, especially if you are stranded offroad far from your base. To help avoid problems, inspect your motorcycle before every ride and perform all recommended maintenance according to the maintenance schedule and adjustment requirements listed in this manual. Be sure you understand the importance of checking all items thoroughly before riding. The tires are not made for paved surface use and the motorcycle does not have turn signals or other features required for use on public roads. If you need to cross a paved or public road, use other authorized vehicle to transporting or get off the dirtbike and push your dirtbike to your destination.

The rear brake lever is located on the left side of the handlebar. Because this electric dirtbike does not have a manual transmission, and thus there is no clutch and gear shifting.

Modifying the dirtbike is prohibited, as otherwise safe operation cannot be guaranteed. Modification such as using opening Li-ion battery pack, motor, and MCU may render the motorcycle unsafe and may cause severe personal injury. The manufacturer does not hold liable for non-approved modifications.

Be very careful when loading or adding accessories to your motorcycle. Large or heavy items may adversely affect the handling and performance of your bike.



### Important Information

Several important operational considerations are listed below:

Always use the NFC card key to turn off the bike or unplug the magnetic switch to the OFF position when not actively riding. It is extremely easy to forget that the dirtbike is still in standby mode because it is completely silent. An accident might occur if the bike is left powered on while getting on or off the bike.

Use the NFC card key to turn off the bike and make sure the indicator is not light up when pushing or moving the bike.

A rechargeable Lithium-ion battery is installed in the bike. The battery pack is located under the seat, please recharge the battery pack of your electric dirtbike after each use. Once fully charged, please disconnect from AC power supply. Make sure that the charging is carried out in a safe and open space or under monitor.

When unplugged the battery power plug while the key in the OFF position, the motorcycles electronic components will consume a small amount of power and the battery pack will drain extremely slowly. If you don't ride for a long-term period of time (30 days or more), you may need to charge the e-bike for a few hours prior to your next ride.

The battery pack will be damaged if it is stored for a long time under low power.

#### Caution

Only charge the ExtremeWheel lithium-ion battery pack with the manufacturer's genuine charger or extremewheel approved charger. Only use the battery pack while it is inside the bike.

The battery pack does not require nor benefit from deep discharging. To get the maximum battery pack lifecycle, recharge the battery pack after each ride. Constantly leaving the battery pack in a deep discharging state will damage the battery cell.

Failure to follow instructions of the battery pack storage and charging as written in this manual may void the warranty of your Extremewheel ES bike. These guidelines have been rigorously tested to ensure maximum battery pack efficiency and service.

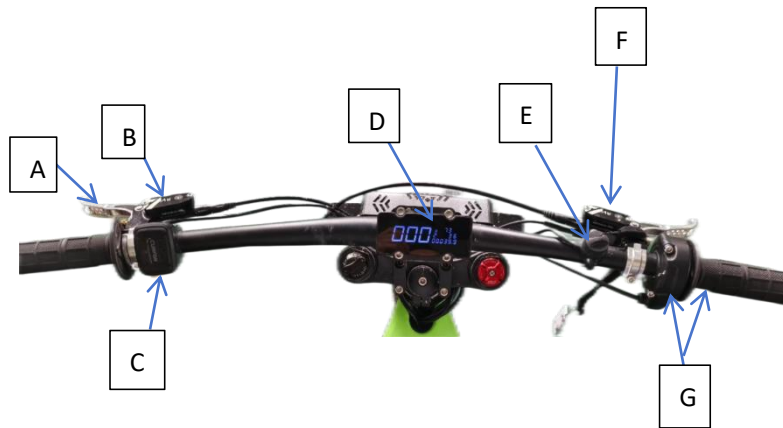
#### Note

The battery pack contains components and elements that might harmful to the environment, so please dispose the battery pack properly and in compliance with the applicable regulations. Never throw the battery into the household trash bin.





## Feature Introduction



- A. Rear Brake Lever
- B. Rear Brake Fluid Reservoir
- C. Left Combination Switch
- D. Dashboard
- E. Magnetic Switch
- F. Front Brake Fluid Reservoir
- G. Throttle Grip



**Bike left side**



- A. Headlight
- B. Front Turn Signals
- C. Integrated Battery Charging Port
- D. Rear Turn Signals/Brake Light
- E. Side Stand Pedal
- F. Parking Stand
- G. Chain Adjuster
- H. Motor
- I. Motor



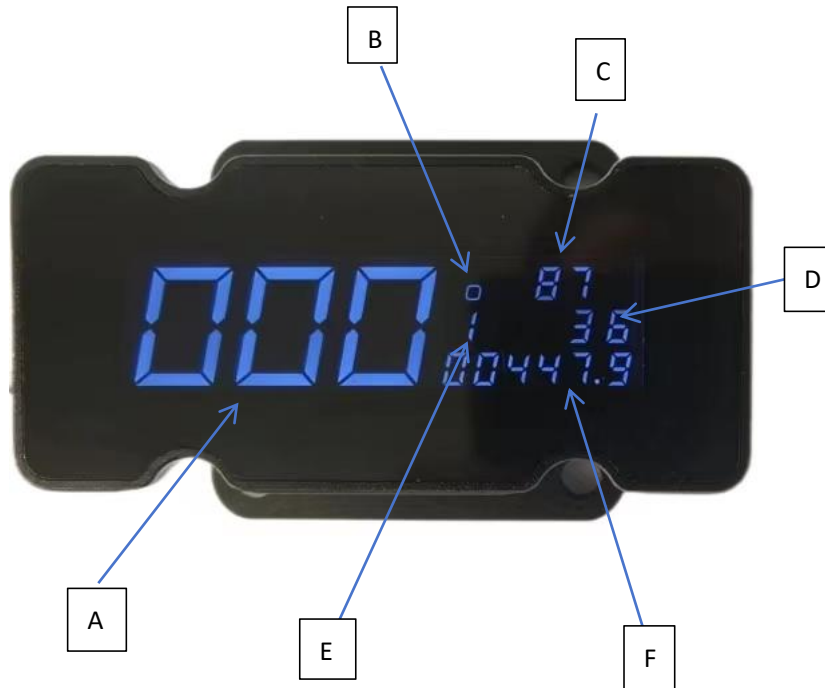
Bike right side



- A. Rear Shock Absorber
- B. Front Fork
- C. MCU
- D. Battery Pack



### Dashboard Overview



#### A. Speedometer

The speedometer is digital display in either kilometers per hour (km/h) or miles per hour (mph).

#### B. Ride mode

O-Off Road mode      S-Speed mode

#### C. Battery Indicator

This indicator and readout display the amount of energy remaining in the battery pack, which is similar to the fuel gauge on a gasoline powered motorcycle.

#### D. Temperature Indicator

The temperature indicator is on the left side of the dashboard LCD display, indicating the overall temperature of the MCU. When the temperature exceeds the maximum temperature limitation, the temperature indicator will start to flash and the MCU buzzer will sound.

#### E. Riding Mode

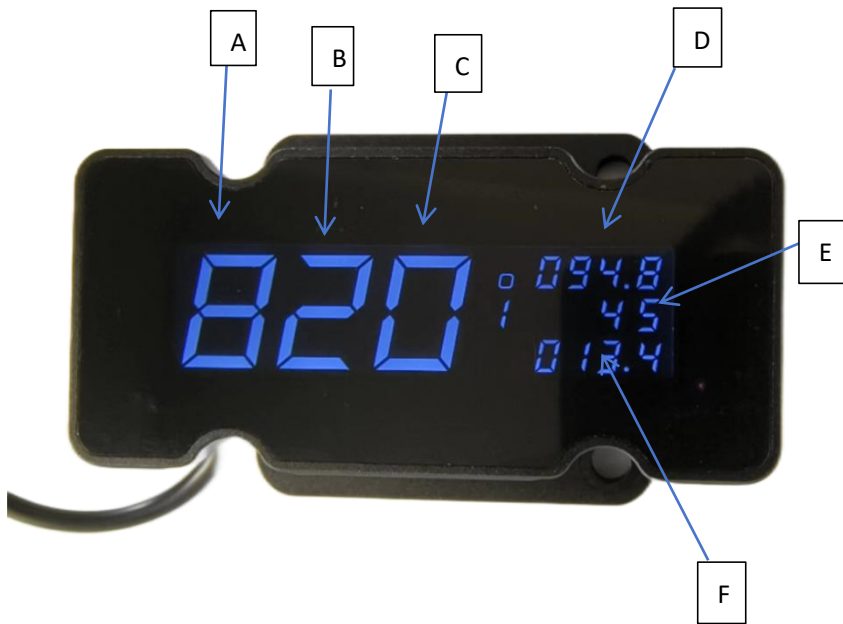
This area displays the riding mode (1, 2, 3) corresponding to the Riding mode of ECO, SPORT and DAILY. The Riding mode switch is located on the left combination switch.

#### F. Odometer

The odometer displays the total distance the bike has been ridden in kilometers or miles.



Long press the M button for more than 3 seconds and release it, the Dashboard Overview



At this moment, the left turn button is increasing, and the right turn signal is decreasing, the headlight button is to switch the next adjustment module. The digit blinks when it is in the adjustment module.

A. Magnetic field weakening degree

The size of weak magnetic field, the bigger the number, the higher the degree of weak magnetic field. The faster the motor speed, the faster the bike speed.

B. Electronic Brake degree

The bigger the number, the stronger the electronic brake.

C. Angle of inclination

If the inclined angle exceeds this Angle, the controller will cut off the power to the motor. The bigger the number, the bigger the Angle.

**Caution:**

the above three items, if the number is zero, this function is canceled.

D. Voltage display

E. The Angle of inclination

Set the inclined Angle when the power is off.

F. Real-time bike inclined Angle



### Combination switch



#### A. Headlight High/Low Light button

Press once to switch lights.

In adjusted mode, press once to switch the next function.

#### B. Left turn signals button

Press once to turn on the front and rear left turn signals.

In adjusted mode, press once to increase the number, the stronger the function.

#### C. Right turn signals button

Press once to turn on the front and rear right turn signals.

In adjusted mode, press once to decrease the number, the weaker the function.

#### D. Mode button

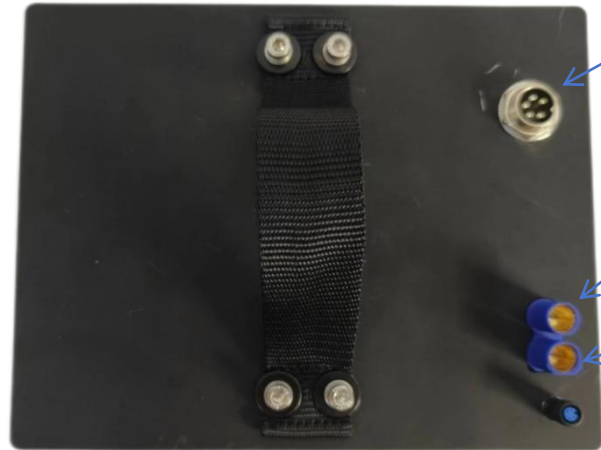
Press twice to switch to next riding mode. When you press the mode button and don't let go, the indicator shows "R", which is Reverse mode.

Press and hold for more than 3 seconds to switch to adjustment mode. At the same time, the indicator shows some functions that can be adjusted.

#### E. Horn Button



## Battery



Charging port

Output

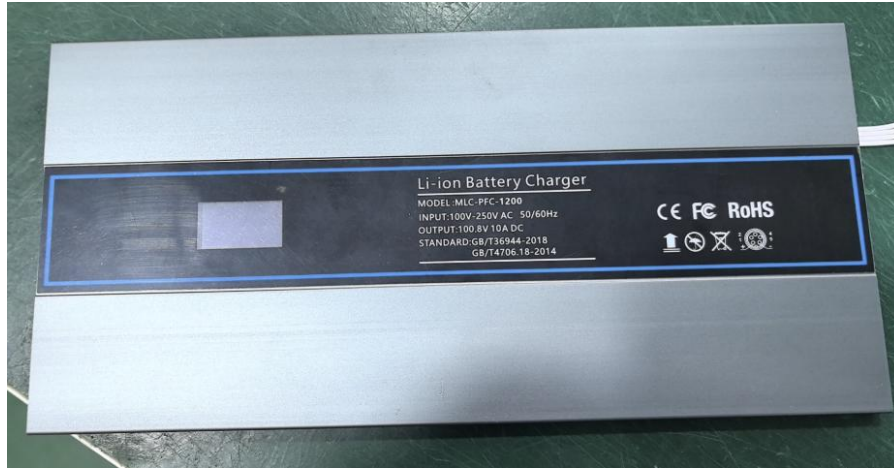
Battery information

### battery pack caution

1. Battery packs are lithium-ion systems that do not require maintenance but need to be recharged time and again. When not in use for a long time, please charge the battery pack to about 60% ~ 80% of the power storage. You will need to check the remaining power every month. If the battery pack power drops below 30%, it should be recharged to 60%~80% to prevent the battery pack from losing activity, which will affect performance and cause damage.
2. The battery pack should be kept away from high temperature environments. Do not store it in high temperature environment or under direct sunlight. When not used for a long time, please store the battery pack in an ambient temperature of 10° C~30° C.
3. Only a service agent authorized by the manufacturer is qualified to repair or unpack the battery pack.
4. Disposing of the battery packs is complied with your local laws. Used battery pack is encouraged to be handled and recycled by professional company or organization and not to be discarded at will.



## Charger



## Specification parameters:

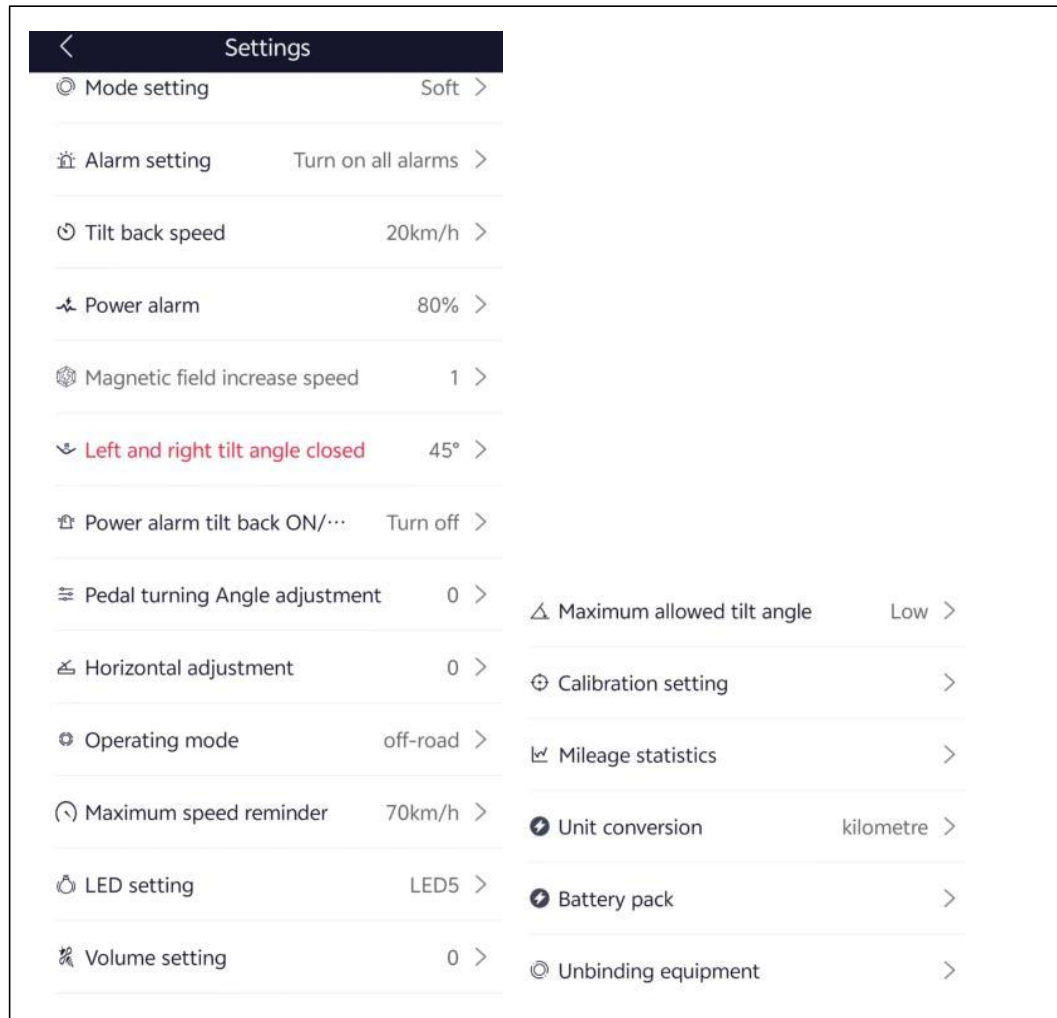
Input 110V/220V, support 50Hz/60Hz

Output 100.8V, 10A, pin Gx16-4, 12 positive, 34 negative





## App settings Troubleshooting



### Mode setting:

Riding mode setting

### Magnetic field increase speed:

The intensity of the magnetic field weakening is adjusted. The number “0” means no magnetic field weakening, and the larger the number, the higher the degree of magnetic field weakening.

### Left and right tilt angle closed:

When the real-time angle exceeds the setted angle, the bike will immediately shut down the power. If the bike is straightened, the power will be automatically restored.

### Power alarm tilt back:

If it is Off, the bike will still have power output when you squeeze the right hand brake.

If it is ON, the bike will be powered off when you squeeze the right hand brake.

### LED setting:

Electronic brake setting

### Battery pack:

Battery informations



1. Cannot start the bike, the rear wheel is stuck.

Disconnect the U, V, and W three-phase wires of the motor from the mainboard. Do not get the three-phase wires together. The rear wheel will not get stuck when turning. Short-circuit the three-phase wires in pairs. If the wheel is stuck when turning in the three connection methods of yellow-blue, yellow-green, and green-blue, it means that the motor is normal.

If the three-phase wires do not touch each other, the rear wheel is stuck when turning, or the three-phase wires are short-circuited in pairs, the rear wheel is not stuck when turning in the three connection methods, it means that the motor is faulty. The motor needs to be replaced.

If the motor is normal, the three-phase wires of the motor are connected to the mainboard. If the wheel is stuck when turning without starting the machine, it means that the MOS tube of the mainboard is damaged. The mainboard needs to be replaced.

2. Cannot start the machine

Disconnect the mainboard power cord and use the multimeter buzzer mode to measure both ends of mainboard '+ and -'. If the multimeter keeps ringing, it means that the mainboard is short-circuited and needs to be replaced.

If the multimeter does not ring, it means that there is no short circuit at both ends of the power supply. Unplug the 30-pin cable of the motherboard, short-circuit the NFC and GND of the 30-pin interface of the motherboard, and power on the motherboard. If the motherboard can be turned on and the motherboard buzzer sounds, it means that the motherboard startup circuit is fine. The 30-pin cable or NFC module of the motherboard is faulty. Unplug all the functional module interfaces on the 30-pin cable, connect the NFC switch of the 30-pin cable to the magnetic suction module on the handlebar, and power the motherboard. If it can be turned on, it means that the NFC module is faulty and needs to be replaced. If it cannot be turned on, it means that the 30-pin cable is abnormal and needs to be replaced or checked for open circuit.

3. Hall fault.

Disconnect the Hall line of the motor from the motherboard. If the mainboard does not report a Hall fault after turning on, it means that the Hall circuit of the mainboard is faulty and the mainboard needs to be replaced. Use the diode range of the multimeter, connect the red probe of the multimeter to the negative pole of the Hall, that is, the black line, and connect the COM port, that is, the black probe, to the yellow, blue and green phases in turn. If the voltage of yellow, blue and green is 0.4~0.8V for 3 times, it means that the motor Hall is normal, and the mainboard Hall circuit is faulty, and the mainboard needs to be replaced.

If the yellow, blue and green are measured 3 times, as long as the overvoltage is not within 0.4~0.8V, it means that the motor Hall is faulty and the motor needs to be replaced.



4. MOS and Gyroscope failure

Restart the machine. If the MOS and gyroscope are still reported to be faulty, it means that the mainboard is faulty and needs to be replaced.

5. High voltage, low voltage

Turn on the adjustment mode and check the voltage displayed on the display. If the voltage is between 70V and 104V, it means that the mainboard is normal. Otherwise, the mainboard is faulty and needs to be replaced. Check the battery information of the APP. The total battery voltage is between 70V and 104V, and the voltage of all cells is between 3.0 and 4.3V, which means that the battery is normal. If the total battery voltage is lower than 70V, please charge it in time.

6. Other module, such as headlight, turn signals, buttons and other module failures

First replace the faulty module. If the fault still occurs, it means that the mainboard is faulty and needs to be replaced.

#### Warranty information

ExtremeWheel provides the following accessories, but shipping is not included

1. Mainboard : 1 year
2. Motor: 1 year
3. Battery: 6 months
4. Suspension: 6 months

When you receive Extreme Wheel ES, you will find two different NFC keys in the box, one is a key with motor block feature (Picture 1) and another is a bracelet (Picture 2), the operation of the keys are as below.



1. The key of picture 1 has been set up as the administrator key of ES and the key of picture 2 has been set up as auxiliary key before they are delivered out. Both of them can turn on ES.

2. If you want to change the NFC key settings, first verify with the administrator key. After successful verification, do not remove the key. Wait for about 15 seconds and hear the buzzer sound 15 times before removing the administrator key. At this time, swipe the administrator key again and all keys will be deleted with a successful deletion notification sound from the buzzer. Now, you can swipe any key to add it as an administrator key.

3. If you want to delete the auxiliary key, first verify with the administrator key. After successful verification, do not remove the key. Wait for about 10 seconds and hear the buzzer sound 10 times before removing the administrator key. At this time, swipe the auxiliary key to be deleted to indicate deletion. After successful deletion, the buzzer will sound a prompt sound. If there are multiple user keys, they can continue to be deleted at this time. Automatically exit the add process after a timeout of 10 seconds. If you want to end the deletion, swipe the administrator key again to exit.

4. If you want to add an auxiliary key, first verify it with the administrator key. After successful verification, do not remove the administrator key. Wait for about 5 seconds and the buzzer will sound 5 times before removing the administrator key. At this time, swipe the auxiliary key that you want to add. After successful addition, the buzzer will sound a message indicating successful addition. At this point, you can continue to add the auxiliary key. The addition process will automatically exit after a timeout of 10 seconds. If you want to end the addition, swipe the administrator key again to exit the user key addition.