

Arctic Leopard



ARCTIC LEOPARD



Clouded Leopard
XE PRO
Models (Full Range)

User Manual

This manual contains important safety information.

Please read this instruction manual carefully before using the motorcycle, and keep it properly after reading it. A driver should possess a valid driving license. Please do not use this motorcycle until you fully understand its performance.

Dear customers,

Many thanks for buying this product manufactured by Zhejiang Arctic Leopard Electric Technology Co., Ltd. We hope you will enjoy using it. Ride safely!

Please read this User Manual thoroughly before riding this motorcycle. It contains not only instructions on operation, troubleshooting and maintenance of this motorcycle, but also guidance on how to prevent vehicle accidents and protect yourself and others from personal injuries.

This product is not originally designed for off-road racing, high-intensity competitive competitions and extreme sports. These special scenarios have stringent requirements for motorcycle performance and structure that far exceed daily use, and this product has not been designed and calibrated for such extreme situations.

If you insist on using your motorcycle for above purposes, it will not only subject the motorcycle to tremendous stress, causing accelerated wear or even damage to the key components, and even result in voiding the warranty, but also expose yourself to extremely high safety risks, which is very likely to cause serious personal injury.

For the sake of your property safety and personal health, please use this motorcycle reasonably in strict accordance with the product design purpose. Be sure to wear helmets and other protective equipment when riding.

It also contains the latest information on this product. With continuous improvement of the product, there may be slight differences between your motorcycle and that described in this User Manual in which case the actual product shall prevail.

Zhejiang Arctic Leopard Electric Technology Co., Ltd. reserves the right to revise this User Manual at any time without any advance notice. No responsibility shall be borne by us for such revision.

If you have any question about this User Manual, please consult the authorized dealer from whom you purchase your motorcycle.

No part of this User Manual can be reproduced without the written consent of Zhejiang Arctic Leopard Electric Technology Co., Ltd.

Illegal modification to vehicles is prohibited.

This User Manual is applicable to the following models of motorcycles: Clouded Leopard XE PRO Models (Full Range)

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1.1 Safety guidelines

As the owner, you shall be responsible for operating your vehicle safely and properly. Every rider should be familiar with the following requirements before riding this motorcycle:

- The rider would have received training for safe and proper riding skills and possess relevant certificates.
- Please follow the warnings and maintenance requirements in this User Manual.
- Please ride this motorcycle on specified roads according to local regulations.

1.2 Riding gear

Make sure you wear the helmet, goggles and eye-catching protective clothing that conform to national certifications. Take proper measures to protect yourself against weather and road conditions while riding.

Helmet

We recommend that you choose a helmet in eye-catching colour with the suitable size that complies with national standards. Failure to wear a helmet may increase the risk of serious injury or death during a crash.

Gloves

Select a pair of high-abrasion and full-finger leather gloves and judge whether to wear warm and non-slip riding gloves according to actual weather conditions.

Boots

Select a pair of protective riding boots that fit your feet without affecting your ability to control the vehicle.

Warning

Before every ride, make sure that your shoelaces are fastened tightly. Entanglement of shoelaces with gears or chains may have serious consequences.

Clothing

Select an eye-catching long-sleeved shirt with protective effect, and a pair of durable pants (or a protective suit) suitable for riding.

1.3 Precautions for safe riding

Make sure you are healthy and able to stay focused before riding. Do not drink alcohol or take drugs before or during riding.

- Ride carefully and keep your hands on the handlebars and your feet on the footrests at all times.
- Keep an eye on the riding environment around you and stay alert and prepare for any emergency braking, dodging or detouring.
- Avoid riding when feeling tired. Fatigue and negligence can impair your capability to make proper judgements and ride safely.
- Please maintain your motorcycle properly and keep it in good condition at all times.
- The motorcycle's braking performance may be reduced in wet conditions such as slippery roads, so make sure to ride slowly and carefully.

Riding safety

1.4 Recommended treatment for special circumstances

Personal safety is your first priority. If you or anyone else is injured, carefully assess the severity of the injury and determine whether it is safe to continue riding.

If necessary, please call for emergency assistance. If other people and vehicles are involved in the crash, you need to follow local laws and regulations.

If you decide to continue riding, turn the power switch to the OFF position and assess the situation of your motorcycle.

Check whether the power battery in the motorcycle runs properly, the key nuts and bolts are tightened and whether the handlebars, brakes and wheels work properly.

After an accident occurs, please promptly go to a qualified maintenance shop for motorcycle inspection and maintenance. During the transportation process, please pay attention to the following conditions:

- If your motorcycle is severely damaged in a crash, there may be a risk of electric shock. Please do not touch any electrical components or their wiring harnesses.
- Avoid touching any power battery.
- If a fire occurs, please use a fire extinguisher for electrical fires and promptly call the local fire department.

Danger

This motorcycle uses lithium battery above 72V. If you dispose it improperly after an accident, it may cause serious injuries or even deaths.

In the event of an accident, please follow the methods described in this User Manual for disposal.

1.5 Power battery

If the power battery emits smell or smoke, it may be faulty.

Immediately park your motorcycle in a safe outdoor place away from flammable materials, turn off the power and then contact your authorized dealer.

Do not disassemble or modify the power battery on your own.

1.6 Brake system

Precautions for the brake system:

- Avoid excessive emergency braking. Sudden braking may reduce the stability of your motorcycle. Slow down your motorcycle before turning if conditions permit, or you may slip and fall on the ground.
- Please be careful when riding on surfaces with low friction. Tires are more likely to slip on such surfaces, so the motorcycle needs longer braking distance.

- In roads with long and steep slopes, repeated braking may cause the brake to get overheated severely, thus affecting the braking effectiveness.
- To achieve better braking performance, please operate both front and rear brakes simultaneously.
- Abnormal noises without affecting the normal operation of your motorcycle after a long ride is normal.

1.7 Accessories and modifications

We strongly recommend that you do not add any accessories or make modifications to the original design of your motorcycle. They may cause safety hazards.

Modifications to your motorcycle may render our warranty invalid. Before you decide to add any accessories to your motorcycle, please firstly check which modifications are safe and legal.

Danger

Improper accessories or modifications may cause accidents that can put you and others at a risk of serious personal injury or death.

1.8 Maximum load

- Overloading may affect the operating, braking and stability of your motorcycle. Please avoid overloading, and follow the specified loading limits.

Maximum load: 100 kg

- When carrying heavy loads, please keep your ride at a safe speed.
- Securely fasten the load on the vehicle. Make sure the load is not prone to move from side to side while riding, and adjust it if necessary.
- Do not place any objects near the motor.

Warning

Overloading, improper loading or carrying too many people may cause an accident resulting in serious injury or death. Please load your motorcycle by following the loading guidelines specified in this User Manual.

Chapter 2 Important information

2.1 Warning signs

In this User Manual, particularly important information is distinguished with the following symbols.



Danger

Failure to follow the instructions will result in serious injury or death.



Warning

Failure to follow the instructions may result in serious injury or death.



Attention

Failure to follow the instructions may result in your injury.



Caution

Take special measures to prevent damage to your electric motorcycle or other property.

Your and others' safety is very important, and it is your responsibility as the owner to operate your motorcycle safely and properly.

Safety symbol-related operation steps and other information have been provided in this User Manual to help you make the right decisions regarding safety.

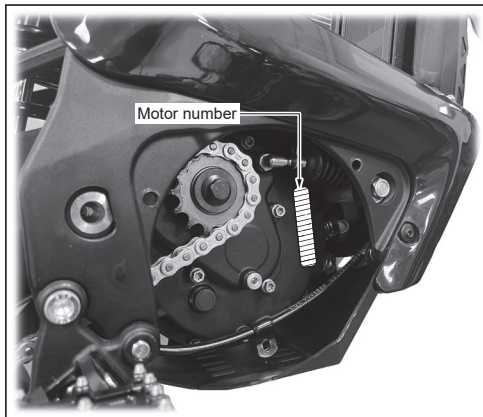
This information is intended to alert you to potential hazards that may harm you or others.

Please be sure to follow such instructions on the safe operation and proper maintenance of your motorcycle!

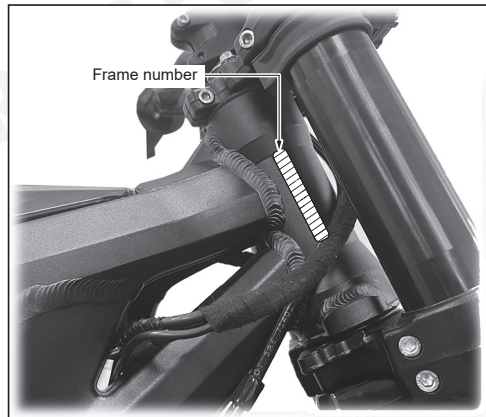
2.2 Motorcycle information

They may be required by your dealer when you order any replacement part.
You can refer to the location shown below to find the information of the vehicle you purchased.

Motor number

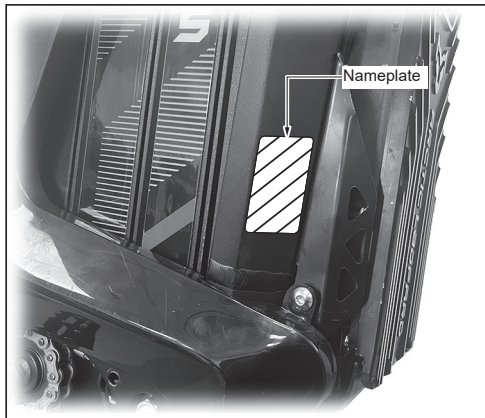


Frame number



Important information

Nameplate



2.3 User's instructions and pre-driving inspection

User's instructions

- Install the motorcycle license plate in accordance with the actual conditions, always complying with local laws and regulations.
- It is strictly forbidden for drivers under 18 years of age to ride this motorcycle on roads.
- If there is no non-motorized lane on the road, you should always ride on the right side of the driveway.
- Do not lend your motorcycle to any one who does not know how to drive it properly to avoid accidents.
- Please carry people or items in accordance with local laws and regulations.
- Please wear a helmet and other protective equipment when riding.
- When riding in the rain or snow, the braking distance may be extended. You should therefore slow down and ride slowly. Please try not to ride on this motorcycle in severe weather including snowstorms.
- Do not park your motorcycle in building foyers, evacuation staircases, walkways and safety exits.
- Do not charge or park the motorcycle indoors. When charging, please keep the motorcycle away from combustible materials. It is preferable to keep the charging time short.
- Prohibit to disassemble waste batteries on your own. Batteries should be processed and recycled by professional organizations.
- Before use, you should fully understand how to properly use and maintain the lithium battery.
- New battery charges should be compatible with the current lithium battery model.

Rider requirements (The following persons are not allowed to drive this electric motorcycle.):

1. Who is under 18 years old.
2. Who is unable to operate the motorcycle due to pregnancy or illness.
3. Who is under the influence of alcohol or drugs.
4. Whose weight exceeds the prescribed limit. (Maximum load 100kg)

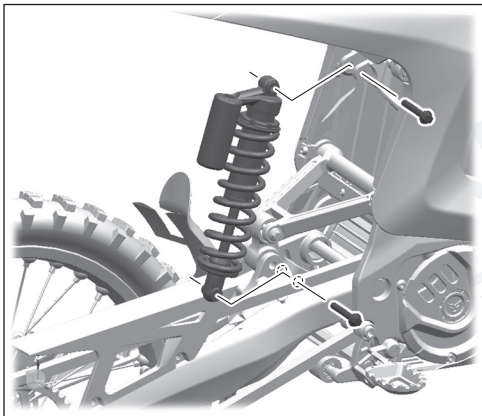
Pre-driving inspection

- Check whether the tire pressure is normal, the tire is damaged or there is any abnormal object in the tire.
- Check whether front and rear wheel shaft bolts and nuts are loose.
- Check whether the reflector is damaged or stained.
- Check whether the power supply circuit and electrical system operate normally.
- Check whether the power is sufficient for your riding.
- Check whether the front and rear brake systems operate properly.
- Check whether the speed-control grip rotates and rebounds normally.
- Check whether the front and rear shock absorbers can be compressed or rebound normally without oil leakage or abnormal objects that may affect the operation of the shock absorbers.

Chapter 3 Component installation guide

3.1 Install the rear shock absorber

Install the rear shock absorber to the rear shock absorber bracket and secure it with bolts.



3.2 Install the front wheel fender

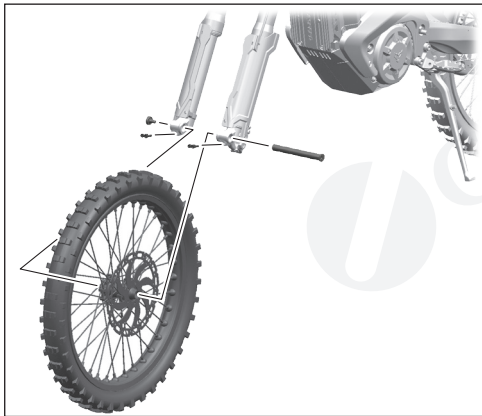
Assemble the front wheel fender and secure it with bolts.



Component installation guide

3.3 Install the front wheel

1. Remove securing bolts from the front wheel shaft.
2. Disassemble the front wheel shaft with an Allen wrench.
3. Assemble the front wheel, the front wheel shaft and the securing bolts in proper order.



3.4 Install the front brake caliper

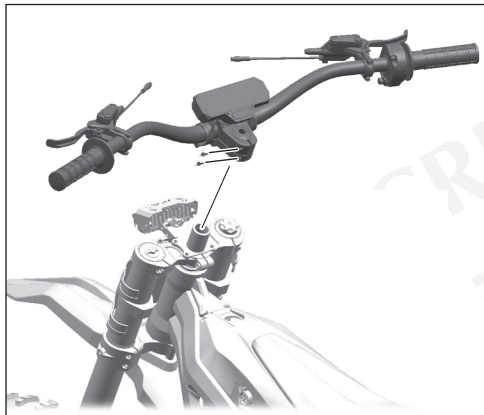
After installing the front wheel, install the front brake caliper and secure it with bolts.



Component installation guide

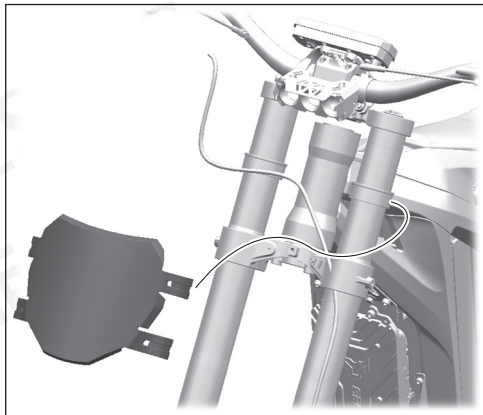
3.5 Install the steering handlebar

Install the steering handlebar to the steering column as shown and secure it with bolts.



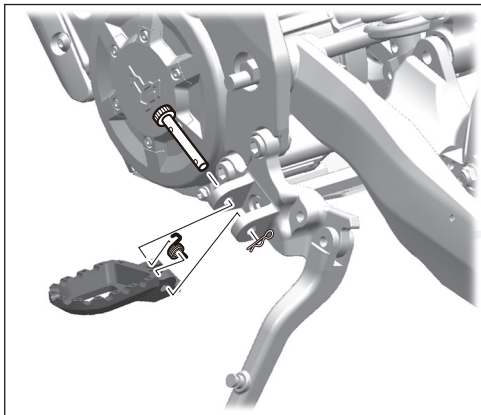
3.6 Install the front decorative panel

Snap the front decorative panel directly onto the front shock absorber as shown.



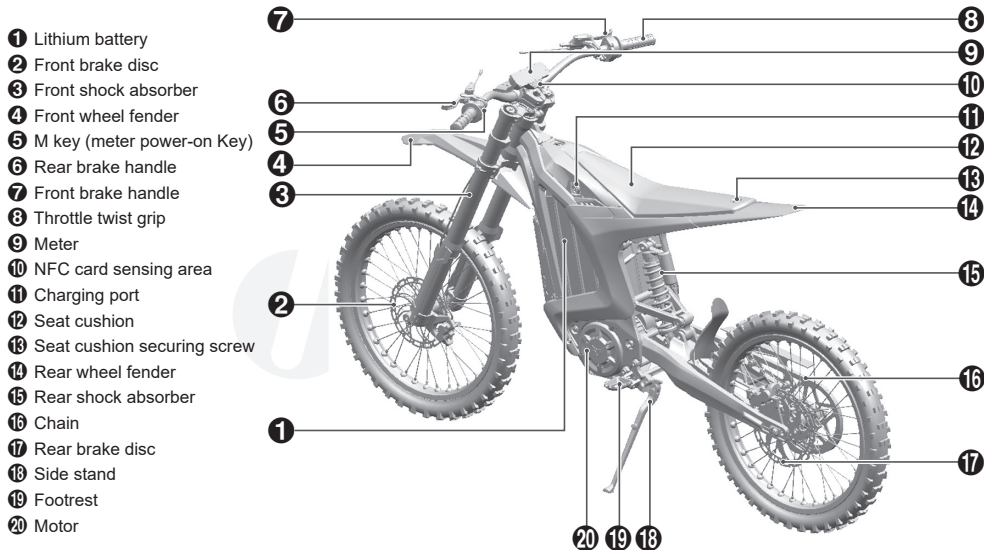
3.7 Install the footrest

Install the left and right footrest as shown and secure with pins.

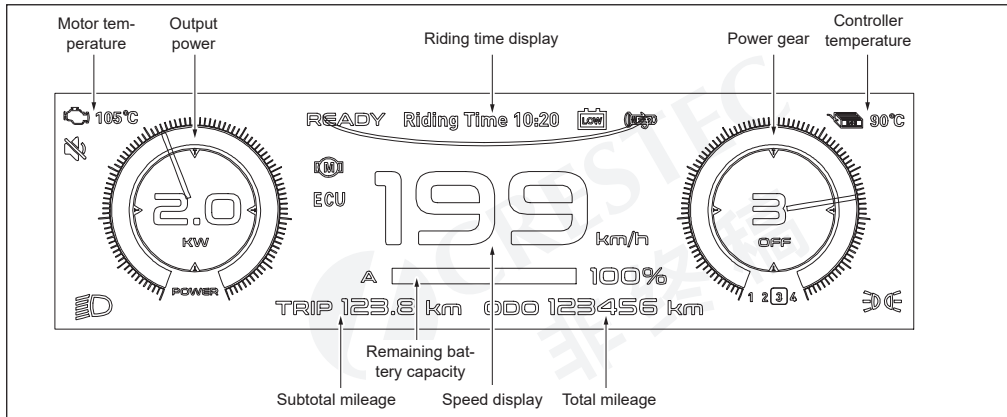


Chapter 4 Motorcycle introduction

4.1 Main components



4.2 Meter

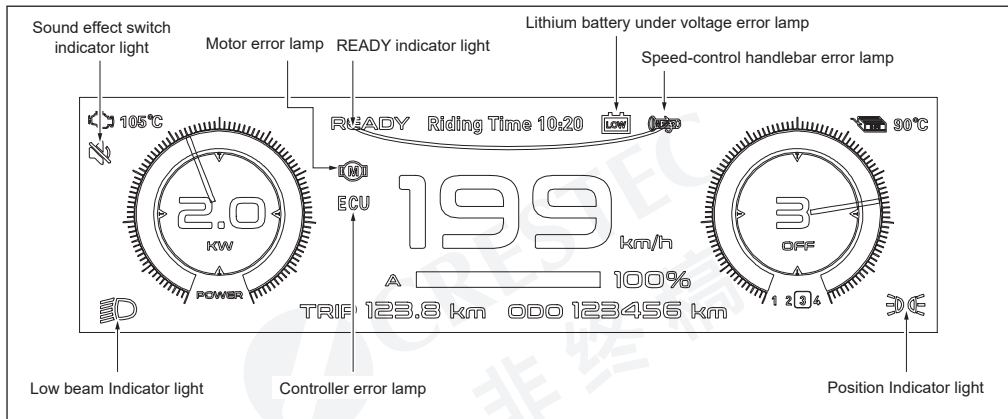


Meter

Display inspection

Start-up animation appears when the motorcycle is started. If any display area that is supposed to be displayed is not displayed, please send it to a designated maintenance shop for repairs.

Motorcycle introduction



Indicator light

Display inspection

When the motorcycle is powered on, all indicator lights will light up briefly and then go out.

If the indicator light fails to function as described above, please contact the designated dealer for troubleshooting.

4.3 Operating instructions for Meter Menu

Operating instructions

① Enter the Settings menu

While powered on, press and hold the "UP key" and "DOWN key" at the same time to enter the meter Settings menu.

② Adjust parameters

In the Setting menu, briefly press the "UP key" and "DOWN key" to switch parameter items. After selecting the setting item, briefly press the "M key" to enter the settings, and then briefly press the "UP key" and "DOWN key" to increase or decrease the setting value. After modifying the parameter, briefly press the "M key" to confirm the saving and switch to the next setting parameter at the same time.

③ Save and exit the Settings menu

After modifying the parameters, press and hold the "UP key" and "DOWN key" at the same time to exit the menu setting and save the modified parameters. If no key operation is performed, it will automatically exit the meter setting menu and save the modified parameters after 10 seconds.

System Unit setting

After entering the "System unit" tab, press the "UP key" or "DOWN key" to toggle between metric (km/h) and imperial (mph) unit display, and then briefly press the "M key" to confirm your selection.

Display Settings	MENU	Basic Settings	
▶ System Unit	mph	Auto Lamp	OFF
Brightness	IIIIII	Battery Ind	Voltage
Auto-off	OFF	EXIT	

Display Settings	MENU	Basic Settings	
▶ System Unit	km/h	Auto Lamp	OFF
Brightness	IIIIII	Battery Ind	Voltage
Auto-off	OFF	EXIT	

Motorcycle introduction

Brightness setting

After entering "Brightness" tab, press the "UP key" or "DOWN key" to select the desired brightness level. "I" is the dimmest level, while "IIII" is the brightest level. After setting, briefly press the "M key" to confirm.

Display Settings	MENU	Basic Settings
System Unit	km/h	Auto Lamp OFF
▶ Brightness	I	Battery Ind Voltage
Auto-off	OFF	EXIT

Display Settings	MENU	Basic Settings
System Unit	km/h	Auto Lamp OFF
▶ Brightness	IIII	Battery Ind Voltage
Auto-off	OFF	EXIT

Auto-off setting

After entering "Auto-off" tab, press the "UP key" or "DOWN key" to select the auto-off time between 1-10min (unit: minute). The default value is 5min. After setting, briefly press the "M key" to confirm.

Display Settings	MENU	Basic Settings
System Unit	km/h	Auto Lamp OFF
Brightness	IIII	Battery Ind Voltage
▶ Auto-off	OFF	EXIT

Display Settings	MENU	Basic Settings
System Unit	km/h	Auto Lamp OFF
Brightness	IIII	Battery Ind Voltage
▶ Auto-off	10min	EXIT

Motorcycle introduction

Auto Lamp setting

After entering the "Auto lamp" tab, press the "UP key" or "DOWN key" to select between "OFF/ON" to turn off or turn on the auto lamp function. After setting, briefly press the "M key" to confirm.

Display Settings	MENU	Basic Settings
System Unit	km/h	▶ Auto Lamp OFF
Brightness	IIIII	Battery Ind Voltage
Auto-off	OFF	EXIT

Display Settings	MENU	Basic Settings
System Unit	km/h	▶ Auto Lamp ON
Brightness	IIIII	Battery Ind Voltage
Auto-off	OFF	EXIT

Battery Ind setting

After entering the "Battery Ind" tab, press the "UP key" or "DOWN key" to select the battery level display form between "Voltage/Percent/OFF", and then briefly press the "M key" to confirm.

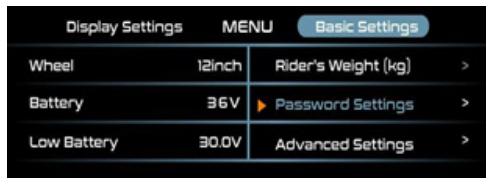
Display Settings	MENU	Basic Settings
System Unit	km/h	Auto Lamp OFF
Brightness	IIIII	▶ Battery Ind Percent
Auto-off	OFF	EXIT

Display Settings	MENU	Basic Settings
System Unit	km/h	Auto Lamp OFF
Brightness	IIIII	▶ Battery Ind OFF
Auto-off	OFF	EXIT

Motorcycle introduction

Power-on Password setting

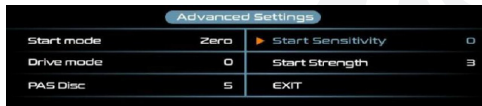
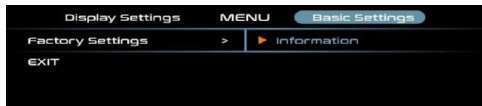
After switching to the "Basic Settings" tab, select "Password settings" to enter the password setting option. Here you can set a four-digit power-on password, enable the power-on password, and set the Settings menu password, Basic Settings password, Advanced Settings password and modify any of these passwords.



Motorcycle introduction

Information

Select and enter the "Information" tab. It will display Information such as speed modes and mileage.



Caution

- Try to avoid using the meter in harsh environments such as heavy rain, heavy snow or direct sunlight.
- Try to avoid bumping the meters.
- Do not arbitrarily change the background parameter settings of the meter, or you may not be able to ensure the normal riding of the motorcycle.
- If the meter is not working properly, please consult your authorized dealer for inspection and repair as soon as possible.



Motorcycle introduction

4.4 Right handlebar switch

Regenerative braking switch

Enable and disable the regenerative braking function.

Headlamp dimmer switch

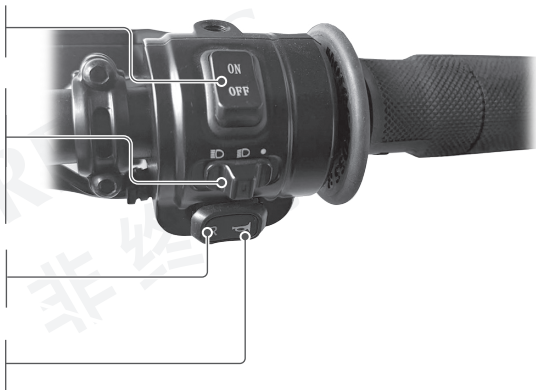
- : Turn the switch to this position and the high beam will be turned on.
- : Turn the switch to this position and the low beam will be turned on.
- : Turn the switch to this position and the headlamp will be turned off.

REVERSE button

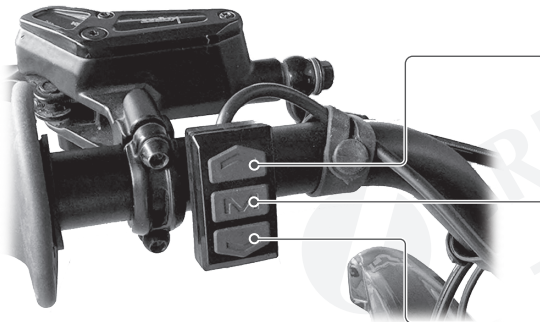
While pressing and holding this button, turn the speed-control handlebar to reverse the motorcycle.

HORN button

Press the horn button to sound the horn. Release the horn button to stop sounding.



4.5 Left handlebar switch



UP key

Briefly press:

1. Switch the mode gears.
2. Toggle menu items and adjust values.

Press and hold:

Turn on/off the headlight.

M key

Briefly press:

1. When powered on, briefly press to circularly display the total mileage, subtotal mileage, riding time , etc.

Press and hold:

Turn on/off the meter.

DOWN key

Briefly press:

1. Switch the mode gears.
2. Toggle menu items and adjust values.

Motorcycle introduction

4.6 NFC wireless communication system

Introduction

The NFC wireless communication system allows you to operate your motorcycle power without a conventional key. This system performs the mutual authentication between the electric motorcycle and the NFC card to verify if the NFC card is registered. The NFC wireless communication system uses low-intensity radio waves, which may affect medical devices (e.g. cardiac pacemakers).

Caution

- You should always carry the NFC card with you when getting on or off an electric motorcycle or while riding.
- Keep your NFC card in a safe place to prevent loss. If it is accidentally lost, please contact your authorized dealer.

How to use the NFC card

This motorcycle is equipped with 2 NFC cards. Simply place the NFC card close to the sensing area (please refer to Page 12) when the meter is lit, you can turn on the motorcycle power. By default, the red card serves as the primary card while the black card is secondary card. If the black card is lost, a replacement secondary card can be reissued and then added as a new secondary card via the red card. If the red card and the black card are accidentally lost at the same time, you should return the meter to the manufacturer to clear the card registration record, and then add the new card. In addition, you can also use an Android phone to copy the NFC card of this motorcycle through the "copy access card" function to realize convenient backup of the card and help reduce the risk of loss.

Operating range

The operating range of the NFC card is within 5 mm from the NFC card reading area.

The NFC wireless communication system may not operate properly in the following environments:

- When there is any facility nearby that may generate strong radio waves or noise (for example, TV tower, power station, radio station, or airport).
- When you carry your NFC card and wireless communication devices such as laptop, radio, or mobile phone together.
- When your NFC card touches metal or is covered by a metal object.

Precautions for using the NFC card

- Do not bend or squeeze the NFC card hard, or place heavy objects on it.
 - Store the NFC card in a safe place and keep it away from direct sunlight, high temperature and high humidity.
 - Do not scratch or puncture it.
 - Do not store it near the magnetized products (magnetized keychains).
 - Please be sure to keep the NFC card away from electrical products (e.g., television, radio, computer, or low-frequency massage device).
 - Keep the NFC card away from liquids. If it gets wet, dry it immediately with a soft cloth.
 - Keep the NFC card away from the electric motorcycle when cleaning it.
 - Do not burn.
 - Do not clean the NFC card in an ultrasonic cleaner.
 - If any fuel, wax, or grease sticks to the NFC card, wipe it off immediately.
 - Do not disassemble the NFC card.
 - Do not alter the usage scenarios or conditions, expand the transmission frequency range, increase the transmission power (including installing additional radio frequency power amplifiers), or modify the transmitting antenna without authorization.
 - Do not cause harmful interference to other legal radio stations, nor claim protection from harmful interference.
 - This motorcycle should tolerate the interference from the radiating radio frequency energy of industrial, scientific and medical (ISM) application equipment or other legal radio station interference.
 - If this motorcycle causes harmful interference to other legal radio station, it should stop using immediately, and take measures to eliminate the interference before continuing to use it.
- The use of micro-power equipment in aircraft and in the electromagnetic environmental protection areas of radio astronomical observatory, meteorological radar station, satellite earth station (including measurement and control, ranging, receiving and navigation stations) and other military and civilian radio station, airport etc. designated in accordance with laws and regulations, relevant national regulations and standards, shall comply with the regulations of electromagnetic environmental protection and relevant industrial authorities.
 - It is forbidden to use all types of model remote controllers in an area centered on the center point of the airport runway and with a radius of 5,000 meters.

Motorcycle introduction

4.7 Charge the power battery

Precautions for charging

- The power battery has the following features:
As it is being repeatedly charged and discharged, its capacity will decrease over time. When the battery capacity decreases, the distance you can ride will gradually become shorter, even if the power scale shown is full (fully charged).
- Depending on your riding conditions and the service time of your motorcycle, its discharge performance will gradually decline. The mileage will decrease when the motorcycle is operated in cold environments.
- Turn on the battery switch to enable charging and discharging.



Caution

- Because the battery can be self-discharged, its capacity will also drop when the motorcycle is not in use.
- If you want to store your motorcycle for a long time and keep the battery healthy, please charge it once every 3 months with the official charger to keep the battery pack capacity at 40%~60%.
- If the motorcycle runs out of power due to storage for a long time and cannot be started, please connect the charger to charge the whole motorcycle for over 30 min, and then start it.
- Please do not wait till the battery completely runs out of power before recharging it. It may greatly affect the battery service life.
- This electric motorcycle is only safe for use at altitudes below 2,000 meters.

Please follow the following rules during charging:

- Please use original power batteries of the motorcycle, and do not use power batteries of other brands or other models.
- Please prevent the power battery from contacting water, beverage or corrosive liquid.
- Do not place the power battery near the heat sources, open flames, flammable and explosive gases/liquids etc.
- Please prevent the power battery from excessive physical shocks.
- Please prevent metal objects from contacting the terminal on the power battery.
- If you find any irregularity (e.g. power battery overheating, smoke or unusual smell), stop using the motorcycle immediately, stay away from it, and contact your authorized dealer.



Danger

- Improper use of the power battery may result in an electric shock or fire, which may lead to death or serious injury.
- Do not disassemble the waste battery on your own. You need to deliver it to professional departments for disposal and recycling.

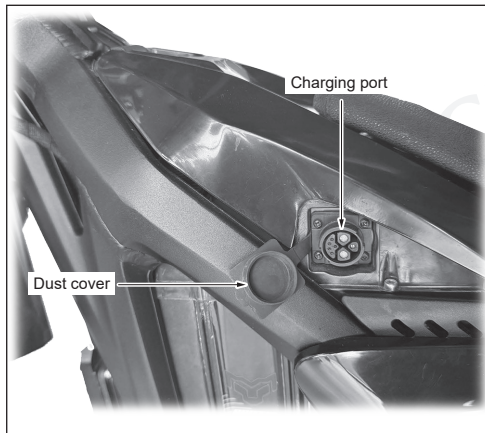
Motorcycle introduction

Charging method

Please always use the power battery charger supplied with the motorcycle to charge your power battery.

Motorcycle charging

When charging, the power supply of your motorcycle should be turned off. Then, you can open the dust cover to connect the charger connector to the charger and then connect the charger to the mains electricity.



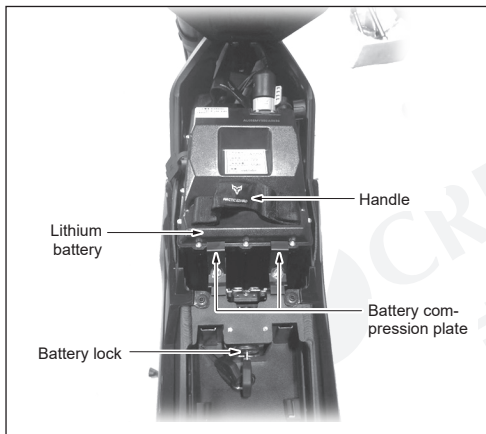
External charging

1. Turn off the motorcycle power, and remove the securing screw on the rear of the seat cushion, and then open the seat cushion.



Motorcycle introduction

2. Unlock the lithium battery using the key, and remove the battery compression plate, and then hold the handle to take out the lithium battery.



3. Use the power battery charger supplied with the motorcycle to charge your lithium battery.
4. After fully charged, reinstall the lithium battery into the motorcycle and lock it, then reattach the seat cushion and tighten with screws.

5. Turn on the motorcycle to confirm that the lithium battery is functioning properly.

Charging environment

Please charge the power battery in the following places.

- Park the motorcycle on a firm horizontal ground.
- Charge at the ambient temperature between 0 °C and 40 °C.
- A well-ventilated and non-humid location.
- Charge it in places permitted by laws and regulations.

⚠ Danger

- Please strictly abide by the relevant laws and regulations and charge the battery in places permitted by laws and regulations.
- It is strictly forbidden for non-professionals to disassemble the battery to prevent accidents from occurring.

Charging time

It takes about 3.5 hours to charge the power battery from empty-to-full. The charging time may be longer under higher or lower ambient temperatures. Do not charge it for more than four hours to prevent the service life of the power battery from being affected.

⚠ Caution

If the motorcycle is not used for more than 15 days, it is recommended to disconnect the battery cable and leave the vehicle in an unpowered state to reduce power loss.

4.8 Charger

Please store the power battery charger far away from direct sunlight and rain.

During charging, you can judge the charging status according to the charger indicator display:

Instructions for charger indicator light status	
Charger status	Indicator light
Charging	The red indicator lamp is constantly on
Charge up to 80%	The yellow indicator light is constantly on
Charging completed	The green indicator light is constantly on
Battery terminal wiring is not properly connected or charger faulty	The red-green indicator lamp is flashing

Instructions for the charger

Please follow the rules below when using the charger:

- When the battery is charged using the charger, insert the charger connector into the motorcycle body first, and then insert the power plug. If you hear a "click", it is normal.
- At the end of charging, pull out the power plug first, and then the plug from the motorcycle body.
- The charger shall be unique to the specific motorcycle, and cannot be borrowed for use by other motorcycles to avoid any damage.
- The DC output of the charger is marked with "+" and "-" symbols. During usage, please note that these symbols are the same with those of the load.
- Do not immerse the charger into water. When the plug or the adapter is immersed in water, stop using it immediately.
- When the charger is used, keep it away from explosive gases, and try to avoid any flames or sparks.

- Heat is generated when the charger is in use. Therefore, you should ensure that its surrounding environment is well ventilated, and it cannot be placed on sofas or other flammable objects.
- The charger works under high voltage. Please therefore use it safely. Do not open it on your own if you are not professionally-trained, so as to avoid any electric shocks or failures.
- Because the charger is fan-cooled, it is normal to hear noises (i.e. airflow sounds generated by rotation of fan blades).
- If the charger or the power socket is damaged or deformed, or the power cable is damaged, stop using it immediately, and ask professionals to replace the damaged part.
- Do not charge when the motorcycle is covered. Keep its surroundings well ventilated during charging.
- Do not charge the battery in places where there is a risk of thunderstorms.
- Do not plug too many power cables into the same power outlet.
- Do not plug/unplug the charger by pulling the cable.
- Please read this User Manual thoroughly before using this charger. If the indicator display is abnormal, or the charger cover is overheated, stop charging immediately and ask professionals for inspection and maintenance.

Warning

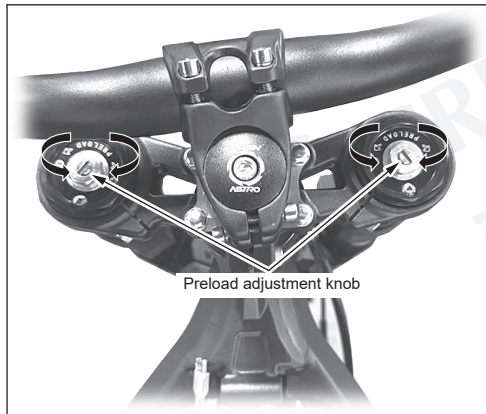
If a fire occurs in the motorcycle or its batteries, please comply with the following principles:

- If the power battery emits smoke, please stay away from this motorcycle immediately, contact the fire department, and prepare to extinguish any fire.
- ABC dry powder fire extinguishers or electrical fire extinguishers can be used to put out any fire.
- After the fire is extinguished, please contact the dealer to deal with waste batteries. Do not dispose of them on your own.
- The motorcycle's voltage may not be cut off depending on the location of the fire. After the fire is extinguished, the power must be cut off.

Motorcycle introduction

4.9 Adjust the front shock absorber preloaded

1. Turn the preload adjustment knob to adjust the preloaded value with a flat head screwdriver.
2. Turn it counterclockwise to decrease the preloaded value. Turn it clockwise to increase the preloaded value.



4.10 Adjust the front shock absorber rebound damping

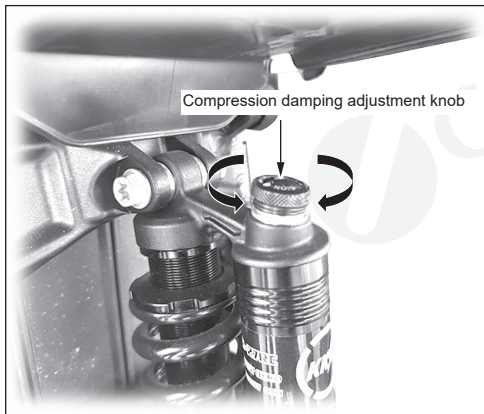
The front shock absorber rebound damping adjustment knob is located at the bottom foot of front shock absorber.

1. Turn the damping adjustment knob to adjust the shock absorber damping value with a flat head screwdriver.
2. Turn it counterclockwise to decrease the damping value; Turn it clockwise to increase the damping value.



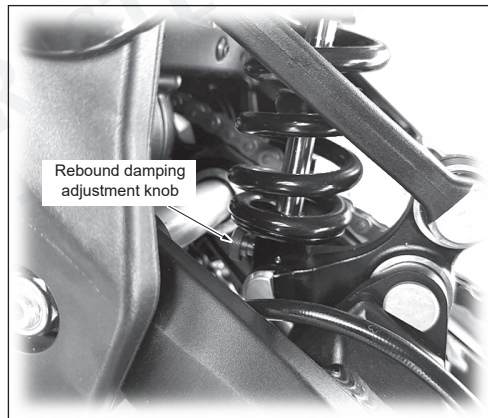
4.11 Adjust the rear shock absorber compression damping

1. Turn the rear shock absorber compression damping adjustment knob to adjust the rear shock absorber rebound damping.
2. Turn it counterclockwise to decrease the damping value. Turn it clockwise to increase the damping value.



4.12 Adjust the rear shock absorber rebound damping

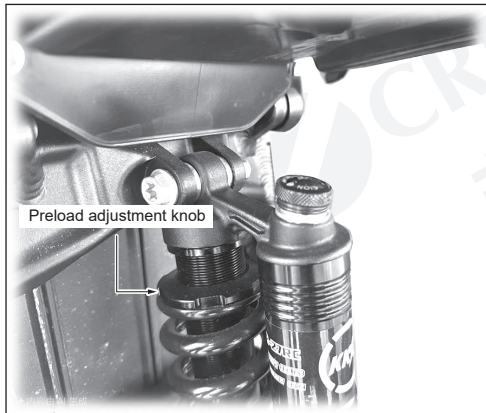
1. Turn the rear shock absorber rebound damping adjustment knob to adjust the rear shock absorber rebound damping value.
2. Turn it counterclockwise to decrease the damping value. Turn it clockwise to increase the damping value.



Motorcycle introduction

4.13 Adjust the rear shock absorber preloaded value

1. Use the appropriate adjustment tool to turn the rear shock absorber preload adjustment knob to adjust the preloaded value of the rear shock absorber.
2. When the rear shock absorber is compressed, the preloaded value will decrease. When the rear shock absorber rebounds, the preloaded value will increase.



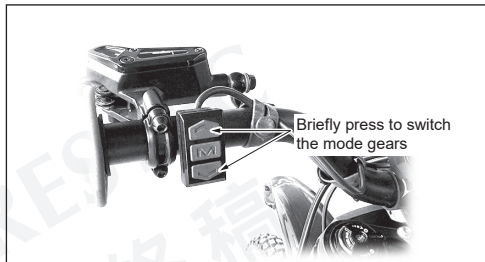
5.1 Riding mode

This motorcycle can switch 5 mode gears:

- Gear 1 mode (ECO):
The output power in this gear mode is 25% of the maximum power of this motorcycle.
- Gear 2 mode (TOUR):
The output power in this gear mode is 50% of the maximum power of this motorcycle.
- Gear 3 mode (STD):
The output power in this gear mode is 75% of the maximum power of this motorcycle.
- Gear 4 mode (SPORT):
The output power in this gear mode is the maximum power of this motorcycle.
- Gear N mode (OFF):
No power assist mode.

Switching method

Briefly press the "UP key" or "DOWN key" on the left handlebar to switch.



5.2 Burglar alarm system

The burglar alarm system uses low-intensity radio waves, which may affect medical devices (e.g. cardiac pacemakers).



Caution

The burglar alarm system cannot work when the capacity of the motorcycle battery is low.

If any of the following conditions occurs, it means that the power battery has run out or there is a system fault. Please consult your authorized dealer.

- The alarm does not sound.
- The alarm sounds, but the alarm sound gradually disappears.
- The alarm keeps on sounding without stopping.

6.1 Inspection before riding

You are recommended to check the following items each time before you ride your motorcycle to ensure that it is in safe operating conditions.

Make sure to follow the inspection items, maintenance procedures, and maintenance schedule specified in this User Manual.

Inspection items	Inspection contents
Battery capacity	Check the remaining capacity of the power battery, and recharge it if necessary.
Steering handlebar	Check whether it operates smoothly in all steering positions.
Speed-control handlebar	Check the free gap of the speed-control handlebar and check whether the reset is normal after acceleration.
Brake handle	Check whether the brake can operate properly or the rebound can operate smoothly without jamming.
Front/ Rear brake	Check the brake fluid level and brake pad wear.
Tire	Check whether there is any damage and the tire pressure is normal.

6.2 Start the motorcycle

1. When the meter is turned off, press and hold the "M key" on the left handlebar to turn on the meter screen.
2. Enter the power-on password (factory default password: 6666) or swipe the NFC card over the NFC card sensing area to turn on the meter.
3. Collapse the side stand.
4. Use the "UP key" or "DOWN key" on the left handlebar to select your desired gear.
5. After it is confirmed that the riding conditions in surrounding environment are met, slowly turn the speed-control handlebar to start riding.



Caution

If the motorcycle inclines to one side, make sure to turn off the motorcycle's power supply immediately.

Riding guide

6.3 Braking

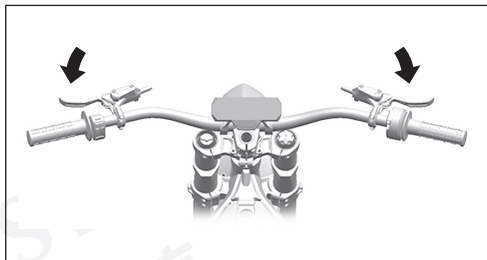
Turn off the speed-control handlebar, and then hold the front and rear brake handles at the same time.

Caution

When you are about to make a turn or stop during riding, you need to brake the motorcycle in advance. Turn on the turn signal light in advance, keep an eye on vehicles coming from the side and rear, and pinch the front and rear brake handles from slow to fast.

Warning

- Avoid excessive force or emergency braking (especially when the motorcycle turns to one side); otherwise it may slip or turn over.
- Braking on wet roads may cause skidding or even danger. Please slow down and ride carefully.
- In roads with long and steep slopes, repeated braking may cause the brake to get overheated severely, thus affecting the braking effectiveness. To ensure safety, operate the front and rear brakes simultaneously, and use the brakes intermittently to slow down.



6.4 Parking

1. When the meter is turned on, press and hold the "M key", or swipe the NFC card over the NFC card sensing area to turn on the meter.
 - When the motorcycle speed is 0, if no operation is performed on the meter for 10 minutes, the meter will go into auto-off mode and turn off (the auto-off time can be set in the menu settings).
2. Lower the side stand, slowly tilt the motorcycle to the left until its weight shifts onto the side stand.
3. Turn the steering handlebar to the left as far as it can go. After it is confirmed that your surrounding environment is safe, dismount your motorcycle from the left side.

If you have to park on the slightly tilted or loose ground, make sure to park stably, and keep the motorcycle from moving or tipping over.

Caution

Before you leave your motorcycle, make sure to turn off its power supply and enable its burglar alarm system.



Chapter 7 Maintenance

7.1 Importance of maintenance

Always keep your electric motorcycle well maintained. It is important to keep yourself safe, protect your properties, keep the optimal motorcycle performance and prevent it from any faults.

Warning

Failure to carry out normal maintenance or proper troubleshoot before riding may result in serious or fatal accidents. Follow the inspection and maintenance recommendations and maintenance schedule specified in this User Manual.

Maintenance item	Maintenance schedule	Inspection item before riding	Riding mileage (km)	1000	4000	8000	12000
			Riding time (months)	1	6	12	18
Check by rotating the speed-control handlebar		√		√	√	√	√
Motor					√	√	√
Lithium battery				√	√	√	√
Front/rear brake pad		√		√	√	√	√
Front/rear brake pump fluid level		√			√	√	√
Tire pressure and status		√		√	√	√	√
Gear oil in the gearbox				√	√	√	√
Check whether front and rear shock absorbers leak		√		√	√	√	√
Chain tightness		√			√	√	√
Check whether the front/rear wheels rotate normally		√			√	√	√
Check whether all bolts are tightened					√	√	√
Check whether overall wiring harness is damaged		√		√	√	√	√
Check whether front/rear brake fluid hose is damaged				√	√	√	√
Check whether handlebar steering operates normally without any jams		√		√	√	√	√

√: Inspection (when necessary, cleaning, adjustment, lubrication or replacement should be carried out)

7.2 Replace parts

To ensure reliability and safety, please use genuine parts. When you need to replace any parts, please consult your authorized dealer.

Warning

Installing non-genuine parts may make your motorcycle unsafe, thus causing an accident which may in turn lead to serious injury or even death.

Please use certified genuine parts or equivalent products that have been specifically designed for your motorcycle.

7.3 Motor and controller

The controller of a motorcycle, one of the most important parts and components, is a core control device that is used to control the start and operation of the motorcycle's motor.

Please follow the rules below:

- Please do not modify the motor on your own, otherwise your motorcycle will be vulnerable to spontaneous combustion, traffic accidents or other severe consequences.
- Please do not ride on the road where the water exceeds the central axle of the motor. Excessive water may cause the motor to seep water and cause motor failure.
- Please check the fastening status of securing bolts of the motor often. If you find that the screw is loose, please contact the maintenance personnel to tighten it.

7.4 Check tires

Visually check the tires and measure the tire pressure with the barometer at least once a month or whenever you feel that the tire pressure is insufficient.

Please check the tire pressure when the tires are cool. The maximum tire pressure is shown below:

	Front wheel	Rear wheel
Road driving	1.5 bar	1.5 bar
Off-road driving	0.6-1.0 bar	0.6-1.0 bar

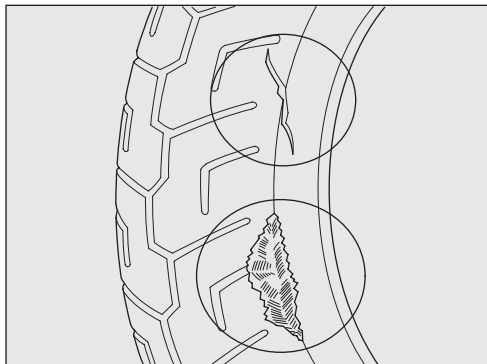
Warning

When tire pressure is abnormal, the motorcycle will be difficult to operate. In worse scenarios, tire blowouts may occur, thus causing the motorcycle to be out of control, thereby leading to severe personal injuries or even deaths.

Maintenance

Check tire damage

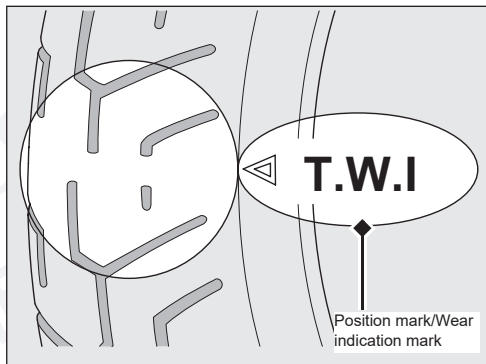
Check the tire for cuts, cracks, exposed fabric or tire threads, or nails or other foreign objects embedded in the tire side or tread. Also check the tire side walls for bulges or swelling.



Check tread depth

Check the indication marks of the tread wear. If any wear indication marks are visible, please replace the worn tire immediately.

Minimum tread depth: 2 mm



Warning

Riding with severely-worn tires will reduce the riding performance of the motorcycle and potentially cause accidents.

Please follow the rules below:

- Use recommended tires or equivalent products with the same size, structure, speed rating and load capacity.
- Do not overload. Riding an overloaded vehicle may cause an accident.
- The replacement of all wheels and brake-related parts (including tires) should be completed by the maintenance personnel with professional skills and operating experience.

Warning

Installing unsuitable tires may affect the operation and stability of this motorcycle, and cause accidents, such as serious injury or even death.

Use the size and type of tires recommended in this User Manual.

7.5 Check the brake fluid

Park the motorcycle in a flat and hard place and keep it horizontal. Turn the steering handlebar, and check whether the brake fluid level is above the mark of the lower limit to the fluid level, when the brake fluid level is aligned with the mark line.

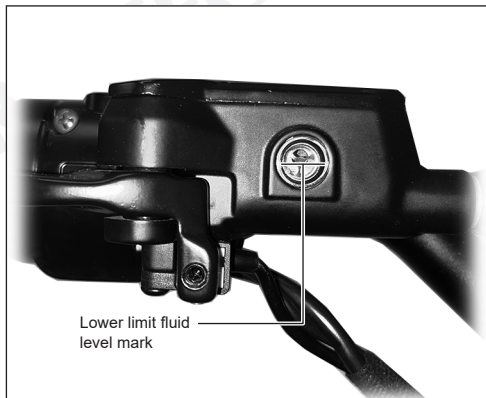
If the brake fluid level in the reservoir is below the mark of the lower limit to the fluid level, or if the free stroke of the brake handle exceeds its limit, please refer the motorcycle to your authorized dealer for service.

Recommended brake fluid: DOT 4 brake fluid



Caution

Brake fluid can damage plastic and painted surfaces. If any fluid spills over, please wipe it immediately, and clean the affected area completely.



Maintenance

7.6 Check brake pads and brake discs

Check the condition of the wear-and-tear mark of front and rear brake pads.

If the wear-and-tear of the brake pads has reached the bottom of wear-and-tear mark, the pads need to be replaced.

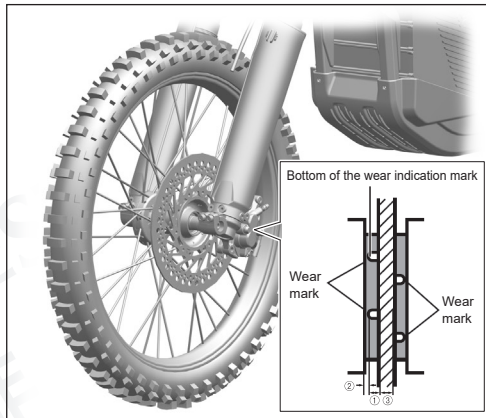
Check the wear-and-tear condition of front and rear brake discs.

If the thickness of the front and rear brake discs is worn to the value specified by the manufacturer, the discs would need to be replaced.

① Lower limit: 1 mm

② Extremely lower limit of the brake pad thickness: 0.5 mm

③ If the thickness of the brake disc is less than 2 mm, the brake disc needs to be replaced.



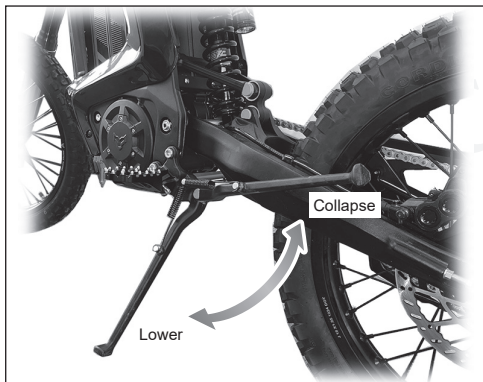
Caution

- Please replace the brake pads at an authorized dealer. Make sure to replace the left and right brake pads at the same time.
- Your safety may be at risk if the brake pads are severely worn and you fail to replace them in time.

7.7 Side stand

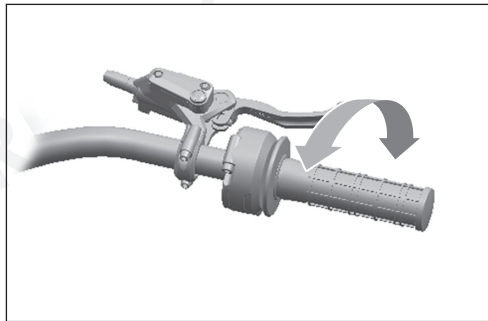
Inspection

- Check whether the side stand works smoothly. If the side stand is stiff or rattling, clean the rotary shaft area and lubricate the pivot bolt with clean grease.
- Check the springs for damage or loss of elasticity.
- Check whether the side stand is deformed or cracked. If it does, please go to a designated maintenance shop for repairs.



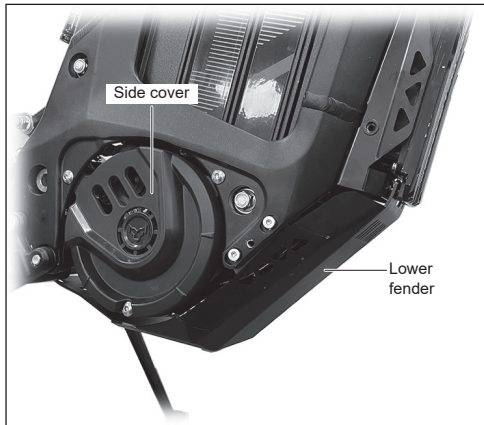
7.8 Speed-control handlebar

When the power supply is turned off, check whether the speed-control handlebar can be turned smoothly from a fully-closed to the fully-opened position, whether it can reset automatically and rotate on speed-control handlebar without jams.

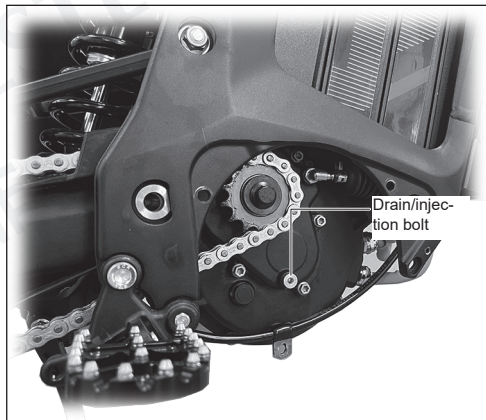


7.9 Replace the gear oil

1. Remove the lower fender and side cover as shown.



2. Remove the drain/injection bolt, brace the motorcycle up to the right side, and tilt 20 °-30 ° to drain the used gear oil. And then, lay down the motorcycle to the left side (use soft items to prevent scratching the motorcycle frame) and wipe off and clean any debris around the oil draining/filling port. Subsequently, fill the oil draining/filling port with gear oil (60 ml). Re-tighten the drain/injection bolt after wiping off and cleaning any residual oil stains around the oil draining/filling port.



7.10 Check and maintain the front shock absorber

Check whether the front shock absorber is damaged or cracked externally or other parts are damaged, and replace the faulty parts when necessary.

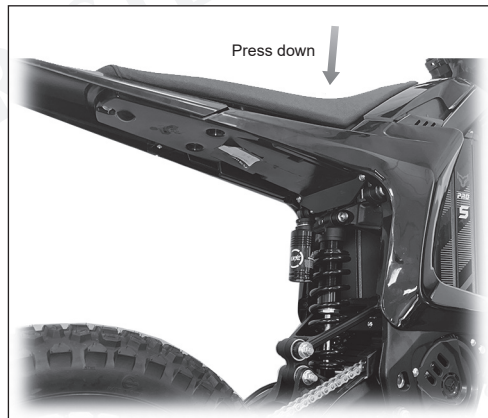
Clean the dust and mud from the front shock absorber; hold the steering handlebar and press it down several times to check whether the front shock absorber compression and rebound are normal.



7.11 Check and maintain the rear shock absorber

Check whether the rear shock absorber is damaged or cracked externally or other parts are damaged, and replace the faulty parts when necessary.

Clean the dust and mud from the rear shock absorber; hold the seat cushion and press it down several times to check whether the rear shock absorber compression and rebound are normal.



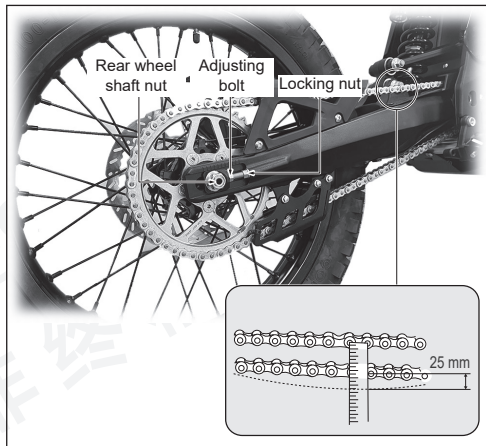
7.12 Check and adjust the chain sag

Check: the standard of a chain sag is 25 mm

Adjust: Loosen the rear wheel shaft nut, release the locking nut, and adjust the chain sag by tightening or loosening the adjusting bolt. While adjusting the chain, keep the front and rear sprockets in a straight line to prevent improper adjustment from affecting the chain service life. After the adjustment, tighten the rear wheel shaft nut again and tighten the locking nut.

Warning

If the chain is too loose or too tight, it may result in chain release or chain breakage, thus bringing hidden dangers to your personal safety. Please regularly check and adjust chains at an authorized service station.



7.13 Check and maintain the steering column

Inspection

1. Place the motorcycle vertically on a flat and hard road.
2. Perform the following spot inspection:
 - a. Hold the steering handlebar and shake it to check the limit block.
 - b. Check if the handlebar and front wheel steering are in the same direction.
 - c. Hold the steering handlebar and press down the front brake to check if there is any gap.
If the steering handlebar is jammed or loose or has a gap, it should be adjusted. If the steering column is not in the same direction as the wheel, check the handlebar and shock absorber. If the steering column limit block is damaged or the steering column is deformed, replace the steering column.

Repair

You need to have a certain level of technical skills to repair a steering column. If not, please send it to a designated maintenance shop for repairs.

Chapter 8 Troubleshooting

8.1 Faults and troubleshooting

	Item	Cause	Troubleshooting
1	The motor fails to function when the power is switched on	<ol style="list-style-type: none">1. The battery connection cable becomes loose2. The speed controller connector for speed control is disconnected3. The motor wiring is loose or disconnected4. The brake handle fails to reset or the brake switch malfunctions	<ol style="list-style-type: none">1. Check whether the connecting cable is securely connected2. Inspect the brake handle and the brake switch
2	The speed control is malfunctioning, or the maximum speed is relatively low	<ol style="list-style-type: none">1. The battery voltage is excessively low2. The speed-control grip is faulty	<ol style="list-style-type: none">1. Fully charge the battery2. Replace the speed controller at the maintenance and after-sales outlet

	Item	Cause	Troubleshooting
3	The mileage per full charge is shorter than anticipated	<ol style="list-style-type: none">1. The tire pressure is insufficient2. The battery is not fully charged or the charger is faulty3. The brake is improperly adjusted, and the driving resistance is excessively high4. The battery is aged or damaged5. There are many uphill slopes, headwinds, frequent acceleration and deceleration, and heavy loads during riding	<ol style="list-style-type: none">1. Inflate tires to the correct pressure2. Sufficiently charge the battery or check the charger plug contacts3. Re-adjust the brake4. Replace the battery5. A reduced mileage under such conditions is normal
4	The charger does not charge	<ol style="list-style-type: none">1. The charger plug has become disconnected or loose2. The battery pack connection cable plug becomes loose	<ol style="list-style-type: none">1. Tighten the plug or connector2. Open the battery compartment cover and firmly insert the plug

Troubleshooting

	Item	Cause	Troubleshooting
5	Abnormal noises from the motorcycle body while driving	The chain is not reasonably tightened	Adjust chain tension
6	The charger fails to function properly upon connection to the power supply, and there is no power indication on the coulomb-meter	The battery is protected from over-discharge due to prolonged periods of time without charging or improper storage of the battery	In case of the above circumstances, please contact the supplier or maintenance shop. Never open the parts without authorization, otherwise the company's warranty will be invalidated

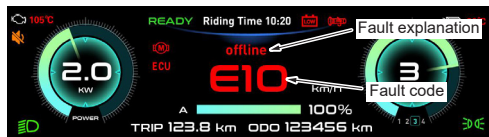
	Item	Cause	Troubleshooting
7	Other faults	1. In the event of a malfunction not covered by the above instructions or a malfunction that cannot be clearly identified 2. Damage to motor, controller, charger, battery	In case of the above circumstances, please contact the supplier or maintenance shop. Never open the parts without authorization, otherwise the company's warranty will be invalidated

Please read through the above exclusions from the free warranty carefully.

Troubleshooting

8.2 Fault code

When a failure occurs in the motorcycle, the speed display area in the meter screen will display the fault code and related instructions.



Fault code table

Fault code	Explanation
01	Motor fault
02	Grip fault
03	Controller fault
04	Under voltage protection
05	Over voltage protection
06	Controller over temperature fault
07	Motor over temperature fault
08	Missing phase fault
09	Phase line short-circuit fault

If a failure occurs in the meter, please consult your authorized dealer.

9.1 Maintenance

Regular cleaning and polishing can ensure that your motorcycle has long service life. It is easier to detect potential faults in a clean motorcycle.

Particular attention shall be paid to the fact that anti-icing seawater and salt applied on roads can accelerate corrosion.

Make sure to completely clean your motorcycle after riding along the coast or on roads that have been treated with the above methods.

Cleaning

Wait for the motor, brakes and other hot parts to cool before cleaning.

1. Completely rinse the motorcycle with water from a hose to remove loose dirt.
2. If necessary, remove dust and dirt on its surface with a sponge or soft towel dipped in a neutral detergent.
 - Take special care when cleaning panels and other plastic components to prevent them from scratching. Prevent water from entering electrical components.
3. Completely rinse the motorcycle with plenty of clean water and wipe it dry with a clean and soft cloth.
4. Afterwards, lubricate all moving parts.
 - Make sure no lubricant spills over on any brakes or tires. The braking performance of oil-contaminated brake discs and pads will be greatly reduced, and may cause an accident.
5. Apply a layer of wax on plastic exterior parts to avoid corrosion.
 - Avoid using products that contain strong degreasers or chemical solvents. These substances can damage the metal parts, paint layer and plastic parts of your motorcycle.

- Do not wax tires and brakes.
- If your motorcycle is equipped with parts with the matte finish, do not wax the matte finish.

Precautions for cleaning

- Follow the following guidelines when cleaning:
 - Do not use high-pressure water guns:
High-pressure water guns can damage moving parts as well as electrical parts.
 - Dry brakes:
Water on brakes can reduce braking performance. After cleaning, riding at a low speed and using the brakes at intervals will help dry them.
 - Do not clean the power battery or power battery box in water or with detergents.
This may lead to a starting fault and malfunction.
 - Do not apply wax or polishing compounds to the matte paint finish.
Clean the matte finish with the soft cloth or sponge, plenty of water and neutral detergent. Dry it with a soft and clean cloth.

Other information

9.2 Storage

If you place your motorcycle outdoors, you should consider covering it with a full-body shield.

- If your motorcycle is not in use for a long time, please follow the guidelines below to store it.
 - To prevent the power battery performance from degrading, store your motorcycle in a cool place.
Recommended temperature: 0-25°C
 - Before storing your motorcycle for a long time, please fully charge its power. Check the power battery coulombmeter every two months.

9.3 Transportation

If you want to transport your motorcycle, you will need a motorcycle trailer, a flatbed truck or trailer equipped with the loading platform, lifting platform and motorcycle straps. Before transportation, try to keep the front wheel of your motorcycle to point along the direction of the trailer or truck. At the same time, bind the fixed parts of the motorcycle body with crossbars or sturdy and inelastic straps, such as the frame, front forks, rear flat forks, etc.



Caution

Towing the motorcycle may seriously damage its transmission devices. If you need to move the motorcycle manually, make sure to wear protective gloves. To prevent body parts from being pinched by the motorcycle during transportation, especially wheel hubs, front and rear brakes and other parts.

9.4 Environmental protection

Owning and riding the motorcycle is enjoyable, but you must do your duty to protect the environment.

- Select a suitable detergent

When cleaning your motorcycle, select a biodegradable detergent. Avoid sprays containing chlorofluorocarbons (CFCs). They can destroy the protective ozone layer of the atmosphere.

- Waste recycling

Place engine oil and other toxic wastes in approved containers, and then deliver them to a recycling center. Call the local or national public affairs or environmental services office to find local recycling centers in your area, and obtain instructions on how to dispose non-recyclable wastes. Do not pour used engine oil from gearboxes into rubbish bins or drain pipes, or on the ground. Used engine oil, brake fluid and detergents contain toxic substances that may harm cleaners, or pollute drinking water, lakes, rivers and oceans.

- When disposing of power batteries

If your motorcycle cannot be repaired any more, please consult your authorized dealer for disposal of the power batteries.

- * The promotional pictures, functions, performance and other parameters in this User Manual are only for your reference. Please refer to the actual product.
- * The final interpretation right is owned by Zhejiang Arctic Leopard Electric Technology Co., Ltd.

Chapter 10 Technical parameters

Model	Clouded Leopard XE PRO S	Clouded Leopard XE PRO
Length * Width * Height	1930*780*1100 mm	1930*780*1100 mm
Wheelbase	1300 mm	1300 mm
Seat height	830 mm	830 mm
Ground clearance	290 mm	290 mm
Frame	Aviation aluminum alloy	Aviation aluminum alloy
Weight	72 kg	67 kg
Meter	Smart TFT Meter	Smart TFT Meter
Key	NFC card	NFC card
Lights, horn	Headlight, horn	Headlight, horn
Front wheel specification	70/100-19 CNC straight-pull hub	70/100-19 CNC straight-pull hub
Rear wheel specification	90/100-18 CNC straight-pull hub	90/100-18 CNC straight-pull hub
Optional	90/100-16 CNC straight-pull hub	90/100-16 CNC straight-pull hub
Front brake	220 mm/4 piston	220 mm/4 piston
Rear brake	220 mm/4 piston	220 mm/4 piston
Triple clamp	Forged aluminum alloy	Forged aluminum alloy
Front shock absorber	KKE 37 mm inverted Preload adjustable stroke 215 mm	KKE 37 mm inverted Preload adjustable stroke 215 mm
Rear suspension	KKE multi-link 3 adjustable Stroke 220mm	KKE multi-link 3 adjustable Stroke 220 mm

Technical parameters

Model	Clouded Leopard XE PRO S	Clouded Leopard XE PRO
Maximum mileage	50 km/h 165 km	50 km/h 135 km
Maximum speed	100 km/h	100 km/h
Transmission	RK import 428 14:48	RK import 428 14:48
Wheel torque	600 N·m	500 N·m
Maximum power	20 kw 27 horsepower	16.8 kw 23 horsepower
Power mode	Competition, Sport, Standard, Leisure APP fully functional adjustable	Competition, Sport, Standard, Leisure APP fully functional adjustable
Electronic brake	Yes, can be turned off	Yes, can be turned off
Energy recovery	Yes, can be turned off	Yes, can be turned off
Reverse	Yes	Yes
Battery pack	72 V 55 Ah	72 V 45 Ah
		72 V 55 Ah (optional)
Charger	1280 W 1.1kg	1280 W 1.1kg
Warranty	1-year warranty	1-year warranty

11.1 After-sales service package for repair, replacement, and refund

Warranty content

Dear customers: Many thanks for your purchase of this product manufactured by Zhejiang Arctic Leopard Electric Technology Co., Ltd. Please carefully read the following warranty information.

1. The warranty period for the entire motorcycle is one year, including the motor, controller battery and charger, as well as other hard-wearing parts. Free repairs are available for performance faults that are not attributable to human errors.
2. No returns or exchanges are supported except in case of quality problems. In case of a functional fault or a quality problem, if it is confirmed by the authorized service outlet designated by the company that the quality problem is not caused by human errors, an exchange can be arranged.

Warranty period and scope

1. For offline and online purchasers, the date of purchase is determined by the date of the actual signing of the receipt (starting from the day after the customer's signing date). The delivery receipt is regarded as valid proof. In the absence of a receipt, or if the receipt is missing or illegible, the date of the sales entry in the system prevails.
2. Warranty details

Warranty name	Service package content	Warranty period
Lithium battery	When the lithium battery is used in the specified environment (the rechargeable ambient temperature range of the lithium battery is 0-45°C, and the ambient temperature range during the normal operation of the lithium battery is -20-60°C) without any external shocks after it is charged, we shall provide the service package if any fault occurs, including abnormal voltage, inability to charge, or the detected capacity is less than 75% (Its capacity differs depending on the temperature. It should have 70% remaining capacity at -10°C, 85% remaining capacity at 0°C, and 100% remaining capacity at 25°C).	12 months
Motor	Broken motor components, missing phase(s) of the coil, magnet demagnetization, damaged bearing, cover cracking, burning (due to non-human reasons) and other faults.	12 months
Charger controller	Unable to charge or charging is abnormal due to irreparable quality problems.	12 months

After-sales service

Warranty name	Service package content	Warranty period
Main wiring harness converter assembly	The appearance is not broken or deformed by external force. If the inside has not been opened privately and the label has not been torn, a short circuit, broken circuit and other quality problems affecting the use of the motorcycle occur in the whole circuit.	12 months
Meter	Performance faults or quality problems due to the irreparable product reasons.	12 months
Frame, handlebar, steering column, rear fork, shock absorbers, front wheel hub, brake assembly, pedal bracket, side stand, sprockets, grip	If natural open welding, desoldering, fracture, distortion, tilted steering column or handlebar and shock absorber leakage and deformation occur, the faulty component can be replaced. Damage due to hitting, private alteration and other personal reasons is not covered.	12 months

Warranty name	Service package content	Warranty period
Entire motorcycle bearings (excluding motor bearings), brake handle, chains, shock absorber oil seals, inner and outer tires, brake discs, brake pads, direction control assembly, wheel fenders, seat cushions, fuses, spokes, decorative parts, plastic parts and other spare parts not included in the above categories	Wear parts	Not covered by warranty

Note: All damages to spare parts due to human factors and wearing parts do not fall within the scope of the warranty; in the event of a failure of the above-mentioned spare parts during the warranty period, they can be replaced free of charge if they cannot be used normally after repair.

Issues not covered by this warranty

1. Scope beyond the warranty:
 - Failure to carry out regular or improper maintenance and poor conditions due to personal reasons.
 - Failure to comply with the operating methods or exceeding the maximum operating limit specified in the User Manual.
 - Use of non-original parts or parts outside the specifications.
 - Poor conditions caused by natural disasters, accidents and force majeure factors.
 - Sensory phenomena that do not affect the functions (such as vibration, etc.).
 - Poor conditions caused by repairs outside of our designated service stations.
 - Poor conditions caused by external reasons such as kerosene, sulfur, bird droppings, salt or chemicals (liquid).
 - Self modification, disassembly, addition, change of original specifications or change of mileage.
 - Poor conditions caused by the use of the motorcycle under special road conditions beyond normal road conditions permitted for the motorcycle.
2. Costs not covered by this warranty:
 - Regular maintenance cost.
 - Various costs and compensation for damage (such as motorcycle rental expenses, telephone charges, fax, freight fee, suspension pay, etc.) due to repairs during the warranty period.
 - Fine incurred by the owner for failure to use or ride the motorcycle properly.
 - Please follow the maintenance schedule in this User Manual.

Scope of this warranty

All products sold by Zhejiang Arctic Leopard Electric Technology Co., Ltd. or its designated dealer.

Warranty period

1. When a fault is found, the user should promptly send the motorcycle to a specified maintenance shop for repairs. If repair is delayed and the warranty period expires, it will be deemed as a waiver of the warranty right by the user.
2. If the warranty period expires due to delay by the warranty repairer, the warranty repairer shall be responsible for the consequences.

No replacement is available for this User Manual.

11.2 Product warranty card

Motorcycle owner's name		Contact number	
Motorcycle information		Battery information	
Model		Battery manufacturer	
Frame number		Battery model	
Motor number		Battery serial number	
Spot check items			
<input type="checkbox"/> Check the attached instructions and information (including the motor number, frame number, certificate of conformity, etc.)			
<input type="checkbox"/> Instructions on battery inspection, installation and use precautions			
<input type="checkbox"/> Instructions on charger and charging status			
<input type="checkbox"/> Motorcycle start and preparation for riding			
<input type="checkbox"/> Check the tire pressure			
<input type="checkbox"/> Check the suspension system/left and right rotation of the steering handlebar/fastener			
<input type="checkbox"/> Check/adjust the front and rear brakes (including the brake fluid level)			
<input type="checkbox"/> Instructions on regular maintenance			
Confirmed by the dealer		Confirmed by the customer	
Dealer chop:		The dealer has demonstrated and explained all inspection items and safety instructions to me.	
Contact number:			
Signed by the inspector:		Signed by the customer:	
Date:		Date:	

Maintenance & repair records			
No.	Date	Record	Fault and repair
1			
2			
3			
4			
5			
6			



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