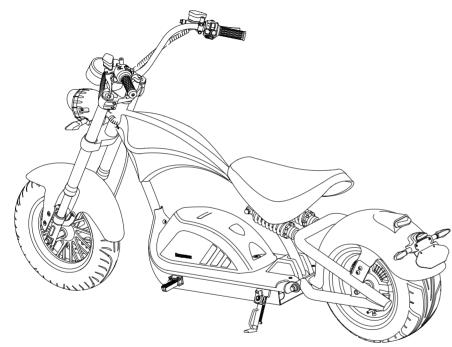
# Product Operation Manual



M O D E L : Rooder M1PS

Please read this manual carefully! This product operation manual contains safety precautions for the vehicle!

Please do not use an electric two-wheeled motorcycle without fully understanding its performance!

Please keep this product operation manual properly!

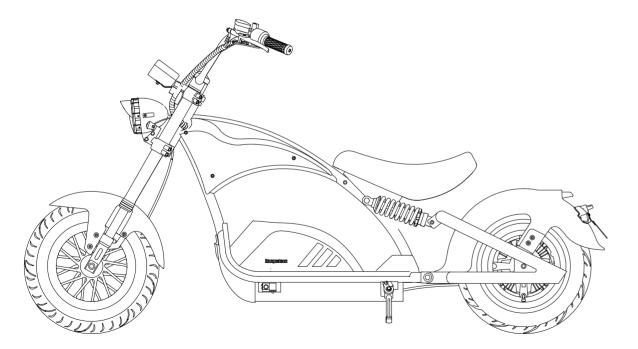
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### 1 Product Overview

Thank you for purchasing MGSD (M1PS) electric two wheeled motorcycle, hereinafter referred to as MGSD.

Please read this manual carefully before riding and keep it properly. Do not ride directly until the performance of MGSD is known. Please read the important safety items in this manual carefully. During riding, please abide by the local laws and regulations and ride safely.



### 2 Notes for Safe Riding

- Please read this product operation manual carefully. Please do not use an electric two-wheeled motorcycle without fully understanding its performance.
- Please obey the traffic laws and regulations. Don't go in a direction not allowed by traffic regulations, run a red light, etc. Don't use your mobile phone while riding.
- Please do not use the third-party accessories or disassemble, crack or modify without permission. The loss caused by this will be borne by
  you and you will lose our warranty commitment.
- As the product is constantly improved, the vehicle you purchased may be slightly different from the one in this manual. Please refer to the
  actual vehicle. If you have any questions about the usage, repair and installation of the vehicle, please contact our dealer or after-sales
  service center.

### ^For the safety of you and others, please read the following carefully:

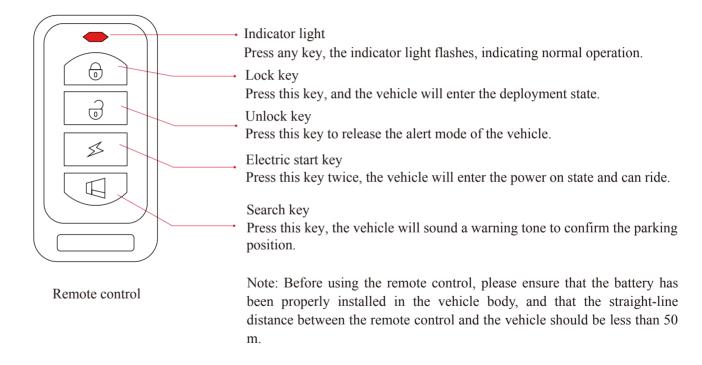
#### Riders shall abide by traffic laws and regulations and take care to ride safely

- Before riding, please carefully read the Product Operation Manual and check whether all parts and components are in good condition to ensure your riding safety. If any problem is found, please contact the dealer or after-sales service center in a timely manner.
- To ensure your safety, please wear safety helmet, gloves and other protective equipment during riding. Please do not wear loose clothing, as it will make you uncomfortable and unsafe while riding.
- You should be in good health and not tired so that you can control the vehicle in good condition. Riding is prohibited after taking drugs or drinking alcohol.
- This vehicle is not restricted under the rain and snow weather, but cannot excessively wade through the water. Wading through the water forcibly when the water level exceeds 10 cm depth may cause short circuit of electrical components and circuits of the vehicle, please be sure to pay attention!
- Please observe the traffic laws and regulations. Please slow down in rain, snow and slippery areas. Please increase the braking distance when braking so as to ensure safety.
- Please do not disassemble the parts and components by yourself.

#### Riders shall abide by traffic laws and regulations and take care to ride safely

- Do not park electric motorcycles in building foyers, evacuation stairs, walkways and emergency exits;
- Do not charge and park the electric motorcycle in the residential building. When charging, the electric vehicle shall be far away from combustibles, and charging time shall not be too long.

## 3 Description of Components Width lamp Battery undervoltage Driving beam (blue) Ready Direction indicator tell-tale(L) Œ Direction indicator tell-tale(R) Bluetooth connection GEAR EDC fault Cruise control Driving mode 1 Standard mode Speed display 2. Economic mode 3.Sport mode Mileage Battery status capacity Fault warning Driving beam Passing beam -‡}->≪ ⊚ Left and Right Headlight switch → (123) Shift



## 5 Battery and Charger

#### Battery operation instructions

The vehicle will provide you with two ways of battery charging and body charging for you to choose.

#### External charging mode

Take out the battery and insert the charging plug of the charger into the battery charging port for external charging. At this point, the battery's electric quantity indicator light will light up.

### Vehicle charging mode

Put the battery into the battery holder, connect the power plug to the battery, and then insert the charging plug of the charger into the vehicle body charging port in the seat cask to charge the whole vehicle.

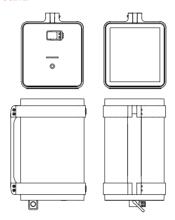
### Description of the battery's electric quantity indicator light

In the charging state, it displays how much electric quantity the battery has. When the vehicle is fully charged, all the indicator lights will stay on and no longer blink

In the non-charging state, if you press the electric quantity display key:

- Under normal conditions, the indicator light will display the electric quantity in the battery.
- If the electric quantity in the battery is less than 20%, a section of indicator light will Aash to remind you to charge.
- When the vehicle is fully charged, the charger will appear green, indicating that it has been fully charged.

#### Detail:



### Instructions before battery use

• Before use, please con, rm that the battery is the original battery of the whole vehicle. Please do not use batteries of other brands or other models at

Check whether the appearance of the battery is in good condition and ensure that there is no damage, leakage, heat generation, water immersion. smoke and other obvious phenomena

In order to ensure the safety of transportation, the battery's ex-factory electric quantity is about 30%. It is a normal phenomenon that there is low or no electric quantity when it is used for the first time due to the electric quantity consumption factors such as transportation and storage period. Please do not worry and just charge it according to the charging instructions.

The used batteries shall not be disassembled without authorization and shall be returned to the relevant professional departments for recycling and disposal

Use environment



Please use the battery at -10°C-45°C



Please keep the battery from and corrosive liquids



Please keep the battery away getting wet with water, beverages fromheat source, open fire, flammable and explosive gas (liquid)



Please prevent metal foreign matters from entering the battery compartment

At low temperature, the available capacity of the battery will experience attenuation to different degrees. specific reference degrees are as follows: The available capacity is 70% at -10°C, 85% at 0°C, and 100% at 25°C. If you and that the battery smells, heats up, distorts and has other abnormal conditions, please stop using it immediately, stay away from the battery and contact the after-sales department.

A Battery is not a part that can be repaired by users. If there is any abnormal phenomenon, please contact the after-sales department for maintenance. Users who disassemble the battery without permission will not enjoy the policy of "three guarantees", and unauthorized disassembly may cause the battery to produce heat, smoke, fire or explosion.

### Charging environment



Please use the original charger matching with the battery for charging, and do not use a charger of other brands or models for charging.



Please charge the battery at an ambient temperature of 0°C-35°C.



Do not charge for more than 12 hours, so as not to affect the battery life.

- In the early stage of charging, the electric quantity will rise quickly, but in the later stage, it will rise slowly, which is the procedure set for charging safety and is a normal phenomenon.
- During charging in winter, when the outdoor temperature is low and the environment is below 0P, the battery charging will stop, which is a normal phenomenon. Please place the battery at an appropriate ambient temperature for charging to ensure the charging effect.
- During the charging process, some aluminum case chargers have temperature rise effect and higher surface temperature, which is normal. Please feel free to use. Please be careful to avoid the touch of children.

#### Notes for charger use

- · The charger can only be used indoors.
- Charging in confined space or under hot sun or high temperature is strictly prohibited; do not put the charger in the seat cask or tail box for charging.
- When charging, you should first plug in the battery, then add the power supply; when the vehicle is fully charged, you should cut off the power supply and then unplug the battery.
- When the green light is on, the power shall be cut off in time. Do not connect the charger to the AC power without load for a long time without charging.
- During the charging process, if there is any abnormality or peculiar smell in the indicator light or overheating of the charger case, stop charging immediately and repair or replace the charger.
- It is prohibited to disassemble or replace the components of the charger by yourself.
- The charger shall be replaced to match the battery model.

#### Charging environment

- If the battery is placed on the vehicle, the work of the intelligent system and alarm system of the vehicle will consume the electric quantity of the battery in real time. After the vehicle is placed for a period of time, the meter will display the decrease of the electric quantity, which is a normal phenomenon. In general, if the vehicle is parked for 8 hours, the electric quantity of the battery will be consumed by about 5%, which is a normal phenomenon.
- Please store the battery at an ambient temperature of 0°C 25°C. Please do not store the battery in an environment higher than 40°C, otherwise the battery will experience irreversible capacity attenuation.
- For vehicles that are not in use for a long time (such as in winter, summer or other special circumstances), the battery shall be taken out for separate storage and maintained and charged regularly, or the battery may be completely depleted and irreversibly damaged. Battery failure caused by such problems will not be included in the range of "three guarantees".
- For the battery, the most appropriate storage capacity is 50%. If it is lower than 10% or higher than 90%, long-term storage will lead to irreversible capacity attenuation of the battery.
- For the lithium battery, the technical standards of the electric quantity consumption protection mode for safe storage are as follows:
- If it is not used for a long time and stored on the vehicle (without unplugging the battery), the safety period shall be at most one month, otherwise the battery feed may occur and the problem cannot be repaired.
- 2) If it is not used for a long time, the electricity quantity shall not be less than 50%, and it shall be stored separately or placed on the vehicle (disconnect the plug). The maximum safety period is 3 months. Otherwise, battery feeding, which cannot be repaired may occur.
- Avoid storing the battery in a place where there is a risk of falling, which may cause uncontrollable damage to the battery and may lead to leakage, heating, smoking, fire or explosion of the battery.

The battery undervoltage caused by the above-mentioned improper behaviors shall not be covered by the warranty.

#### Precautions for battery use

- Please make sure that the battery had been exhausted when you use the battery for the first time, then charge it and repeat this process for two or three times to ensure that the actual capacity of the battery is consistent with the displayed capacity on the dashboard.
- Ensure that the battery power is not less than 20% and charge it in time, which can prolong the service life of the battery.
- In daily life, it is recommended to use a mid-range speed. Start slowly and operate the throttle handle to accelerate gradually, which also can prolong the battery life.
- As the number of times the battery is used increases, there will be deviation between the actual capacity of the battery and the displayed capacity on the dashboard. Please fully discharge and recharge the battery regularly (no more than 3 months). The internal battery cell and intelligent system can automatically calibrate the electricity quantity to improve your experience.
- It is recommended to check the power plug of the battery every two months for carbon deposition and oxidation blackening on the contact reed.

△The battery shall not be placed in the rain or get or even be soaked in the water. The whole battery compartment shall not be soaked in the water, otherwise water will enter the battery, causing internal short circuit and permanent failure of the battery. In the above-mentioned case, it is strictly prohibited to charge the whole vehicle or battery again, otherwise it will cause fire, combustion and explosion. Please hand over the battery to the designated network for maintenance immediately.

# 6 Troubleshooting

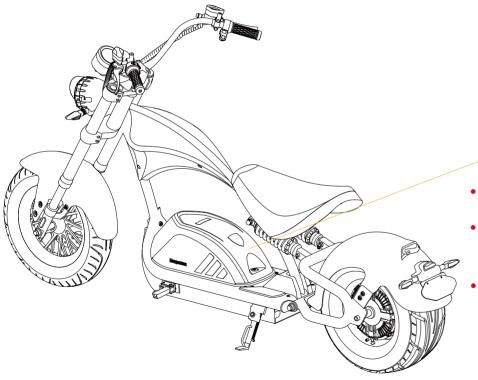
Problem phenomenon	Reason	Treatment method		
Turn on the power supply, but the whole vehicle has no power output	No power supply to the vehicle	1.Check whether the power plug is connected properly 2.B attery undervoltage. Please charge it.		
Turn on the power supply and turn the speed regulating handle, and the motor does not start up.	The vehicle is braked     The vehicle is parked     The side brace is not retracted.     Start switch failure	Check whether the brake handle is in the braking state     Refer to that "start-up operation" section of the instruction manual     Pack up the side brace     Contact the after-sales service and check the start switch		
Insufficient endurance mileage	Low battery     Insufficient tire pressure     Frequent brake and start or overloading     Battery aging or normal electric quantity decay     Low ambient temperature or reduced battery capacity	Check the charger for damage     Check the tire pressure before use     Develop good driving habits     Replace the battery     It is normal		
The battery cannot be charged	The charger plug is not connected properly     The battery temperature is too low     The battery temperature is too high	Check whether the plug connection is loose     Wait for the battery to recover to the normal temperature     Wait for the battery to recover to the normal temperature		

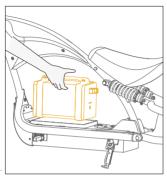
# Judgment of common faults and troubleshooting of lithium battery

Problem phenomenon	Reason	Treatment method		
The battery has no electricity and light bar is not on after pressing the button	The battery runs out Charge			
After turning on the power, light bars all Àash	The battery runs out or the battery failed	Charge it and contact the branches for detection		
When driving at low power, such as 5%, the power is off and the screen turns black.	The battery runs out, which is normal	Charge it		
After parking, power on within a short period of time, such as 1 to 2 hours, the displayed capacity increases or decreases dramatically	Internal calibration calculation of battery cell electric quantity is a supplement to inaccurate dynamic electric quantity for riding.	Normal service		
When driving with normal electric quantity, such as 15%, the power is off and the screen turns black	It is normal to see the battery runs out Long-term use of batteries leads to the inaccurate calculation of capacity	Carry out fully charging and discharging		
After parking, power on within a short period of time, such as 1 to 2 hours, the displayed capacity increases or decreases dramatically	It is normal to see the battery runs out Long-term use of batteries leads to the inaccurate calculation of capacity	Normal service		
After parking, power on within a long period of time. For example, the displayed capacity of the dashboard decreases dramatically overnight	The alarm consumes electricity about 5% for 8 hours	Normal use.		

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## 7 Precautions for battery extraction





- In order to ensure the safety of the battery, a key lock is designed on the battery compartment cover.
- When picking up the battery, first use the key to unlock and slide it back, then take out the whole battery compartment cover and pull out the battery.
- Don't break the battery compartment cover when the lock is not unlocked. It is easy to deform and damage under strong force.

# 8 Maintenance and Servicing

Inspection items of regular maintenance

Regular maintenance can extend the value of vehicles from products to daily use.

Adjustment in run-inperiod: After using the new purchased vehicle for one month (distance: 500km), conduct adjustment in run-in period so that the car can be integrated into your life in the most perfect posture.

First maintenance: After using the new purchased vehicle for four months (distance: 1,500km), carry out the first maintenance for your vehicle that has been with you for several months.

Second maintenance: After using the new purchased vehicle for ten months (distance: 3,000km), carry out the second maintenance to prolong the service life of your vehicle.

All maintenance items are shown in the following table. The actual maintenance items can be Aexibly selected according to the vehicle type, riding mileage and time:

Inspection item		
Nut fastener of the whole vehicle		
Bolt fastener of the whole vehicle		
Tire inspection		
brake Auid inspection		
Abnormal sound inspection when braking		
Braking effect inspection		
Brake disc inspection		
Inspection of power lock and alarm		
Light inspection		
Inspection of the dashboard		
Combined switch inspection		

Electrical components	Voltage inspection of the charger		
	Inspection of the function of APP		
Suspension + steering	Front and rear shock absorption inspection		
system	Steering inspection of the handlebars		
System	Front wheel inspection		
	Appearance inspection of battery box		
Dottory	Waterproofness inspection		
Battery	Battery detection		
	Charging test		
	Vehicle operation inspection		
Vehicle riding	Inspection of abnormal sound of whole vehicle		
	Parking inspection		

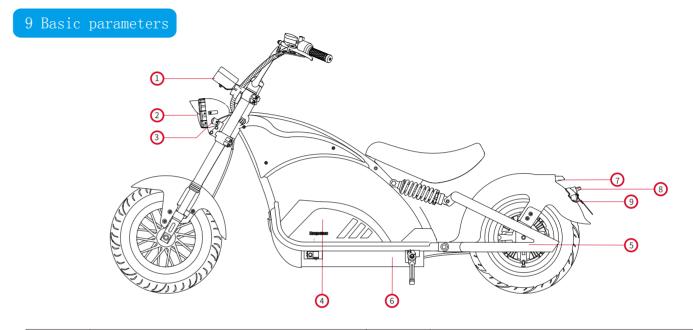
### Vehicle cleaning

Please scrub the scooter with tap water and a neutral detergent. After that, wipe it clean with a soft cloth.

A It is prohibited to directly Àush both sides and rear interior of the battery box with a high-pressure water gun. Do not Àush directly the side cover above the rear wheel where the charger and controller are located to avoid water inÀow and damage.

### Scooter storage method

- Please store the scooter in a Aat, stable, well-ventilated and dry position.
- Avoid the exposure of scooter to the sun and rain as much as possible, which can reduce the damage or aging of parts.
- For long-term storage, please refer to Instructions for Battery Use and Maintenance for battery maintenance.
- When reusing after long-term storage, please fully charge the battery.
- Please confirm there is no abnormality in all parts before riding.



	No.	Part Name	No.	Part Name	
	1	Speedometer	5	Electric motor	
	2	Head lamp(driving/passing beam) front position lamp Daytime running lamp	6	Electric motor control unit	
			7	Brake light/rear light	
	3	Front direction indicator	8	Rear registration plate lamp	
	4	Propulsion battery	9	Rear direction idicator	

Project	Parameters
Model	M1PS Luxury
Overall dimensions Length * Width * Height (mm)	2100*760*1160 mm
Frame material	Q195
Curb weight of the scooter (kg)	90kg
Maximum speed (km/h)	60km/h
Tire size (front and rear wheels)	Tire(Front 130/70-12,Rear 215/40-12);Hub(Front 12*2.75,Rear 12*7.5)
Tire pressure (Front/Rear) (KPa)	Front 225 /rear 151
Types of power storage batteries	Lithium battery
Numbers of power storage batteries	160
Braking mode	Front and rear double disc brakes
Motor type	Brushless DC
Rated voltage of motor controller (V)	60 V
Rated output power of the motor (W)	2000 W
The current of controller	45 A
Working principle of motor	Electric drive motor

### Warranty card

User name	Address		Postcode
Engine No.	VIN		Date of purchase
		Maintenance record sheet	Distribution unit(seal):

Date	Repair and replacement	Repairman	Comments

Note: This warranty card is invalid without the seal of the distributor.

