

# ***Shengmilo***

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## ***Owner's Manual***



### **About Manual**

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This manual contains many Warnings and Cautions concerning safe operation, and consequences if proper setup, operation and maintenance guidelines are not followed. All information in this manual should be carefully reviewed.

# ***WELCOME TO SHENGMILO***

- This manual contains details of the product, information on its operation and maintenance, and other helpful tips for owners. Read it carefully and familiarize yourself with the Shengmilo S900 before using it to ensure safe use, reduce the risk of damage and premature wear, and prevent accidents. Be sure to retain this manual as your convenient Shengmilo S900 information source.



The safety grade color of Caution is orange, and if not avoided, may result in moderate or serious injury.



The safety grade color of Warning is red, and if not avoided will likely result in serious injury or death



## ATTENTION

- Because it is impossible to anticipate every situation or condition which can occur while riding, this manual makes no representations about the safe use of our bicycles under all conditions. There are risks associated with the use of any bicycle which cannot be predicted or avoided, and which are the sole responsibility of the rider. You should keep this manual, along with any other documents that were included with your bicycle, for future reference, however all content in this manual is subject to change or withdrawal without notice.
- Visit [www.shengmilo-bikes.com](http://www.shengmilo-bikes.com) to download the latest version. Assembly and first adjustment of your Shengmilo S600 require special tools and skills, and it is recommended that this be performed by a trained bicycle mechanic if possible.



# 01 BIKE SPECIFICATION

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## BIKE SPECICATION



## BIKE SPECICATION

# PARAMETER

**Weight**  
35 kg

**Meter**  
Yolin color meter

**Damping**  
Shock absorption

**Assistance mileage**  
80-90 km

**Pure electric range**  
40-50km

**Engine**  
2X1000W Motor

**Torque**  
2X80N·M

**Gradability**  
40 °

**Frame**  
Aluminium alloy

**Brake**  
SOLONG hydraulic brake system

**Battery**  
48X17.5AH SAMSUNG

**Tyre**  
26X3.0

**Charging time**  
7-8H

**Controller**  
Intelligent Brushless Controller

**Transfer**  
Level 7 Shimano

**Speed**  
Up to 45 km/h



## BIKE SPECICATION



Frame Size	Size
Height	163-200CM
Reach	67CM
Wheelbase	116CM
Min Seat Height	80CM
Max Seat Height	101CM
Total Length	186CM
Handlebar Height	109CM



## BIKE SPECICATION

Battery		48V 17.5Ah SAMSUNG Cells	Charger	EU plus 2.0 A smart charger
Range		PAS mode: 70—90KM; Trottle mode : 40~50 KM	Controller	Sine wave brushless motor controller
Motor		2×1000W (Front and rear wheel)	Display	Yolin color display
Total Payload Capacity		400 lbs (180kg)	Weight	70.5 lb (32KG)
Recommended Rider Heights		5'5" ~ 6'6" (165–200cm)	Pedal Assist Intelligent	0~5 Level pedal assist
Tires		26" x 3.0 Non-slip fat tires	Throttle	Half twist throttle
Brake		Dual hydraulic oil brakes	Front Fork	Double shoulder fork shock absorber
Horn		The horn is integrated in the headlight	Pedal	Wellgo alloy pedals with reflectors
Freewheel		Shimano 7-speed gear shift system	Bike Frame	6061 Aluminum frame
Brake		Disc brakes	Headlight	Super bright LED light
Chain		KMC chain	Saddle	Thick and comfortable leather seat
Stem		Promax MA-400 SSABK	Seatpost	Diameter 30.4mm length 350mm
Crankset		170mm forged alloy	Kickstand	Heavy-duty aluminum
Gearing		Shimano, TX55/7 speed rear puller	Spokes	Front wheel 13G*218/Rear wheel 13G*218

# 02 BIKE Assembly Guide



Hardware Location	Recommended Torque(NM)
Handlebar	12-18
Stem	12-18
Saddle	12-18
Front Wheel(For bikes with bolts on front wheel)	15-22
Rear wheel	30-38
Bottom Bracket Parts	30-50
Pedals	28-33
Disk Mounting Bolts	3-5
Disk Caliper Mount	6-8
Crank Bolts	32-36
Rear Derailleur Cable Pinch	3-5
Front Derailleur Clamp	3-6
Saddle Post Clamp	3-6

**NOTICE:** Using an impact driver to achieve the required torque is not recommended as it might cause damage. We suggest you use the wrench set we provided and extra tools to manually adjust nuts and bolts.



## Assembly Guide

## PARK:1 REMOVE PACKAGING

### Prompt:

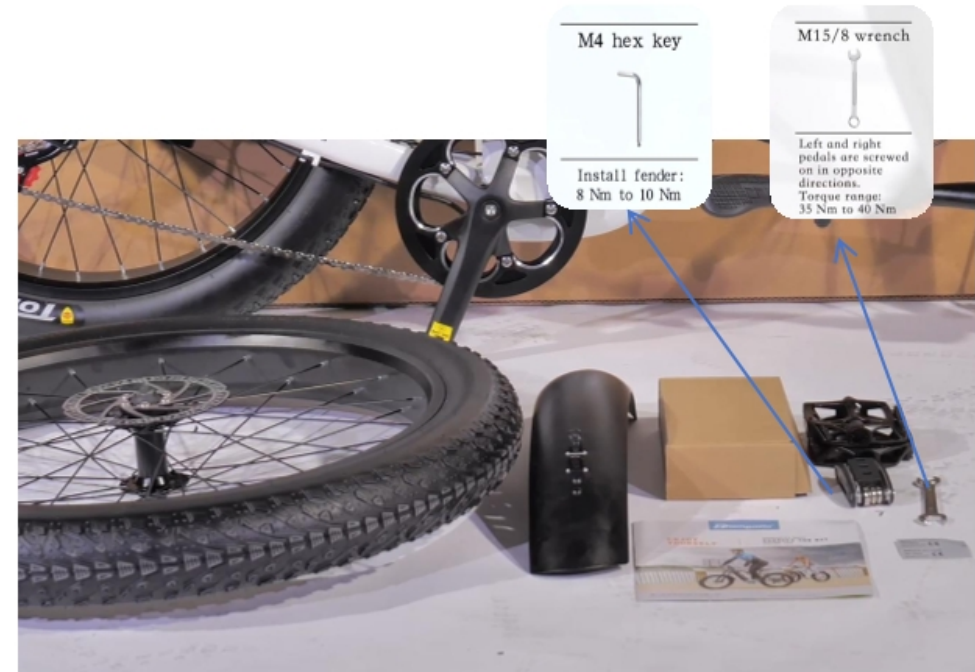
Please read the installation steps before installation, and install according to the installation pictures and texts

 Please go to our YouTube channel "Shengmilo official store" to watch our assembly.



### 01

Unpack the Shengmilo electric bicycle, take out the electric bicycle and accessories



### 02

Check the completeness of the accessories and prepare the assembly tools.

## Assembly Guide

## PARK:2 HANDLEBARINSTALLATION

**NOTICE:** Use 4mm Hex Wrench

Loosen the bolts on the headlight. Align the headlight bolt holes with the holes on the fork bracket, then re-thread the bolts through all holes and tighten the bolts with a 4mm wrench extractor retaining nut



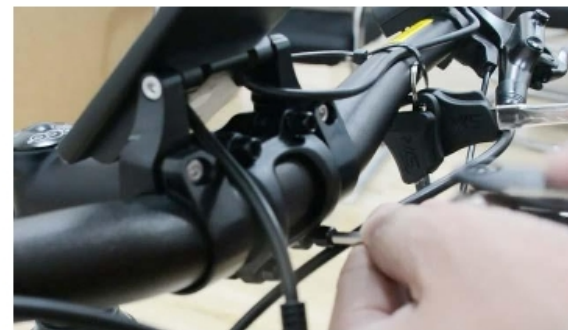
**01**

Loosen the bolts on your bike stem



**02**

Center your handlebars and rotate them to align to the marking pointed to in the below image



**03**

Tighten bolts to handlebar stem, but don't tighten completely as you may want to further adjust the angle later to align more precisely. After determining the best position, completely tighten all the bolts on the stem

## Assembly Guide

## PARK:3 FRONT WHEEL INSTALLATION

**NOTICE:** Before assembling your bike, it's recommended to remove the battery for the reasons outlined below:

1. Determine if there's battery drain or damage during shipping.
2. Reduce the weight of the e-bike to make it easier to maneuver the bike while assembling.
3. Avoid battery damage during the assembly process.



**01**

Remove the quick release lever



**02**

Prepare your quick-release skewer for the next step by removing the thumb nut and one of the cone spring



**03**

Install the quick-release skewer starting from the brake rotor side of the wheel, inserting the quick-release skewer through the hub and then replacing the second cone spring on the other side. Ensure both springs are pointed narrow-side-in towards the wheel hub



**04**

Tighten the thumb



**04**

Align the fork dropouts with the axle of the wheel hub, making sure the dropouts are securely positioned on the axle. Also ensure the brake rotor is properly inserted into the caliper



**04**

Align the fork dropouts with the axle of the wheel hub, making sure the dropouts are securely positioned on the axle. Also ensure the brake rotor is properly inserted into the caliper



## Assembly Guide

## PARK:4 HEADLIGHT & FRONT FENDER INSTALATION

**NOTICE:** Before tightening the bolts on the valve stem, pay attention to adjusting the angle and balancing the left and right handles.

The headlights are attached with a bolt, and you'll need a 4mm wrench to tighten its nut

Loosen the bolts on the headlight. Align the headlight bolt holes with the holes on the fork bracket, then re-thread the bolts through all holes and tighten the bolts with a 4mm wrench extractor retaining nut



**01**

Align the headlight bolt holes with the holes on the fork bracket



**02**

Set the nut



**03**

Set the nut to tighten the bolt

**NOTICE:** The threaded extractors can be found in the Shengmiluo folding hex key set

## Assembly Guide

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Loosen the bolts on the front fender holder. Align the front fender bolt holes with the holes in the holder, then re-thread the bolts through all holes and tighten the bolts with 6mm wrench retaining nuts.



### 01

Align the front fender bolt holes with the holes in the holder.



### 02

1. Tighten the bolts with 6mm wrench retaining nuts.

## Assembly Guide

## PARK:5 ADJUST THE SEAT HEIGHT

Open the seatpost quick release lever. Adjust the seatpost height by sliding the seatpost up or down to a height appropriate for your leg length and preferred riding position. Do not extend the seatpost beyond the minimum insertion marking etched onto the seatpost.

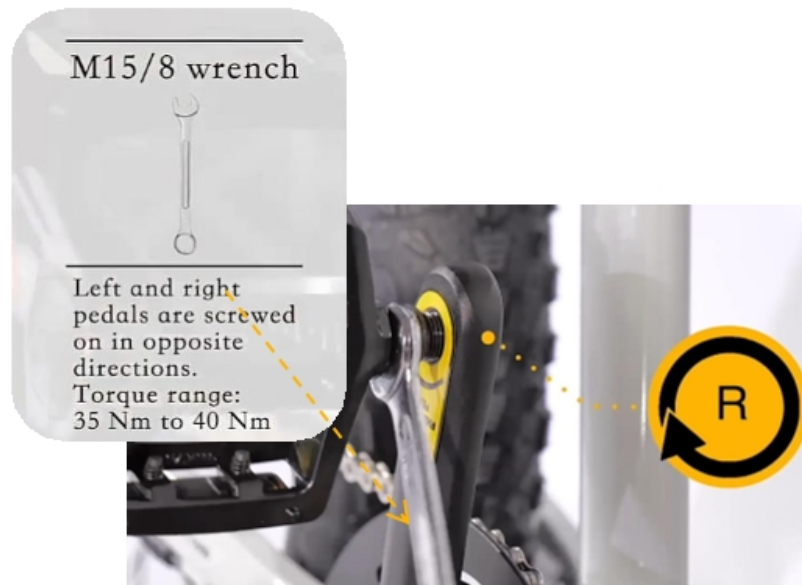


**NOTICE:** The seat angle has been preadjusted to factory safety standards. Please make note of original settings, and only adjust if necessary



## PARK:6 PEDAL INSTALLATION

**NOTICE:** Make sure your pedals are installed on the correct side, as installing on the wrong side will damage the threads. Indicators for the right pedal (R) and the left pedal (L) can be found in two places: the stickers on the plastic cover, and the bottom of the pedal threads.



### 01 Right pedal

Use a wrench to tighten clockwise



### 01 Left pedal

Use a wrench to tighten counterclockwise.

Before you install the pedals, apply a small amount of waterproof grease onto the spindle. Start threading the pedal on by hand to ensure the pedal is going in perfectly straight, rotating in the direction of the pointer shown on the crank. If it is not spinning smoothly, make doubly sure that you have the correct left or right pedal. After initial hand-tightening, finish tightening the pedals with a standard 15mm wrench

## Assembly Guide

## PARK:7 TIRE AND START - UP INSPECTION



01

Use an air pump to inflate the tire



01

Power-On Test

**NOTICE:** Do not inflate the tires too high or too low; it is best to keep the pressure within the specified inflation pressure range. Check the condition of the tires before each ride, which is helpful for safe cycling

# 03 SAFETY CHECKLIST

Safety Check	Basic Steps
Brakes	<ul style="list-style-type: none"> <li>o Test front and rear brakes for proper function.</li> <li>o Ensure brake pads are not overworn and are correctly positioned in relation to rims.</li> <li>o Make sure brake control cables are lubricated, correctly adjusted and display no obvious wear.</li> <li>o Check that brake control levers are lubricated and tightly secured to handlebars.</li> </ul>
Wheels and Tires	<ul style="list-style-type: none"> <li>o Inflate tires to within recommended limits displayed on sidewalls.</li> <li>o Check for bulges or signs of excessive wear.</li> <li>o Clean tires to ensure tread is exposed.</li> <li>o Ensure rims run true and have no obvious wobbles or kinks.</li> <li>o Check that all wheel spokes are tight and not broken.</li> <li>o Check the wheel balance in Pedal Only Mode. If you notice the riding is imbalanced or the rotation of the front wheel makes noise, it means the bolts were not completely tightened or not aligned horizontally.</li> </ul>
Chain	<ul style="list-style-type: none"> <li>o Check that chain is oiled, clean and runs smoothly.</li> <li>o Use extra care in wet or dusty conditions.</li> </ul>
Cranks and Pedals	<ul style="list-style-type: none"> <li>o Securely tighten pedals to cranks.</li> <li>o Ensure cranks are securely tightened and are not bent.</li> </ul>
Derailleurs	<ul style="list-style-type: none"> <li>o Check that derailleur(s) are adjusted and functioning properly.</li> <li>o Ensure shift and brake levers are attached to handlebar securely.</li> <li>o Check all brake and shift cables for proper lubrication..</li> </ul>
Motor Drive	<ul style="list-style-type: none"> <li>o Ensure hub motor is spinning smoothly and motor bearings are in good working order.</li> <li>o Check that all power cables running to hub motor are secured and undamaged.</li> <li>o Make sure hub motor axle bolts are secured and all torque arms and torque washers are in place.</li> </ul>
Battery Pack	<ul style="list-style-type: none"> <li>o Ensure battery is charged before use.</li> <li>o Check for any visible damage to battery pack.</li> <li>o Lock battery securely to frame.</li> </ul>



# 04 Shengmilo E-Bike Use and Care

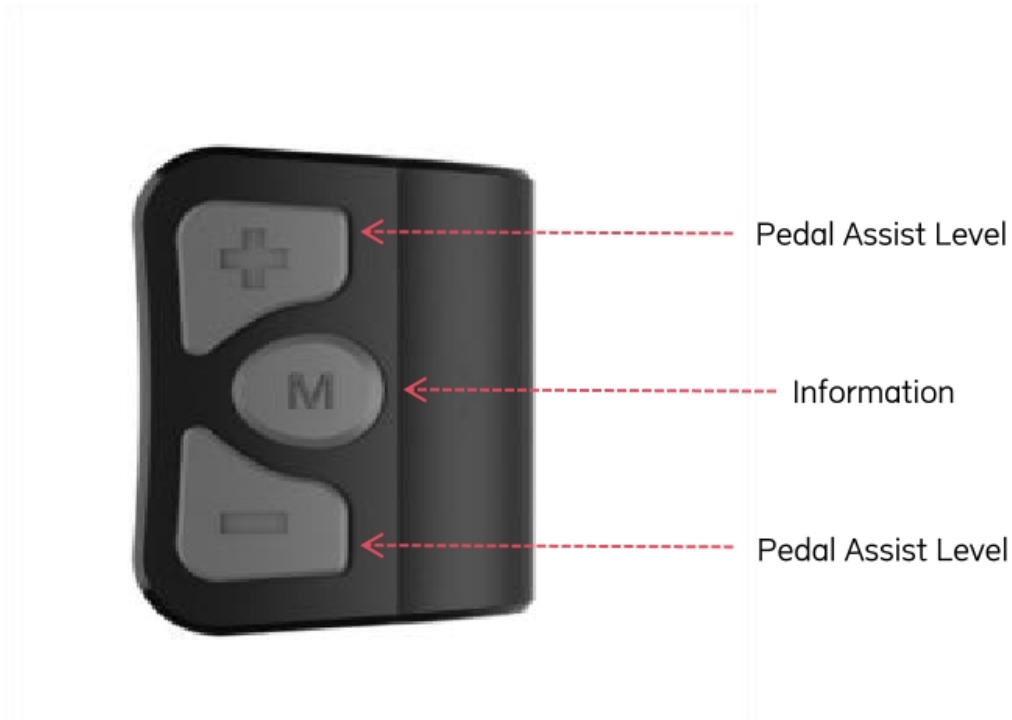
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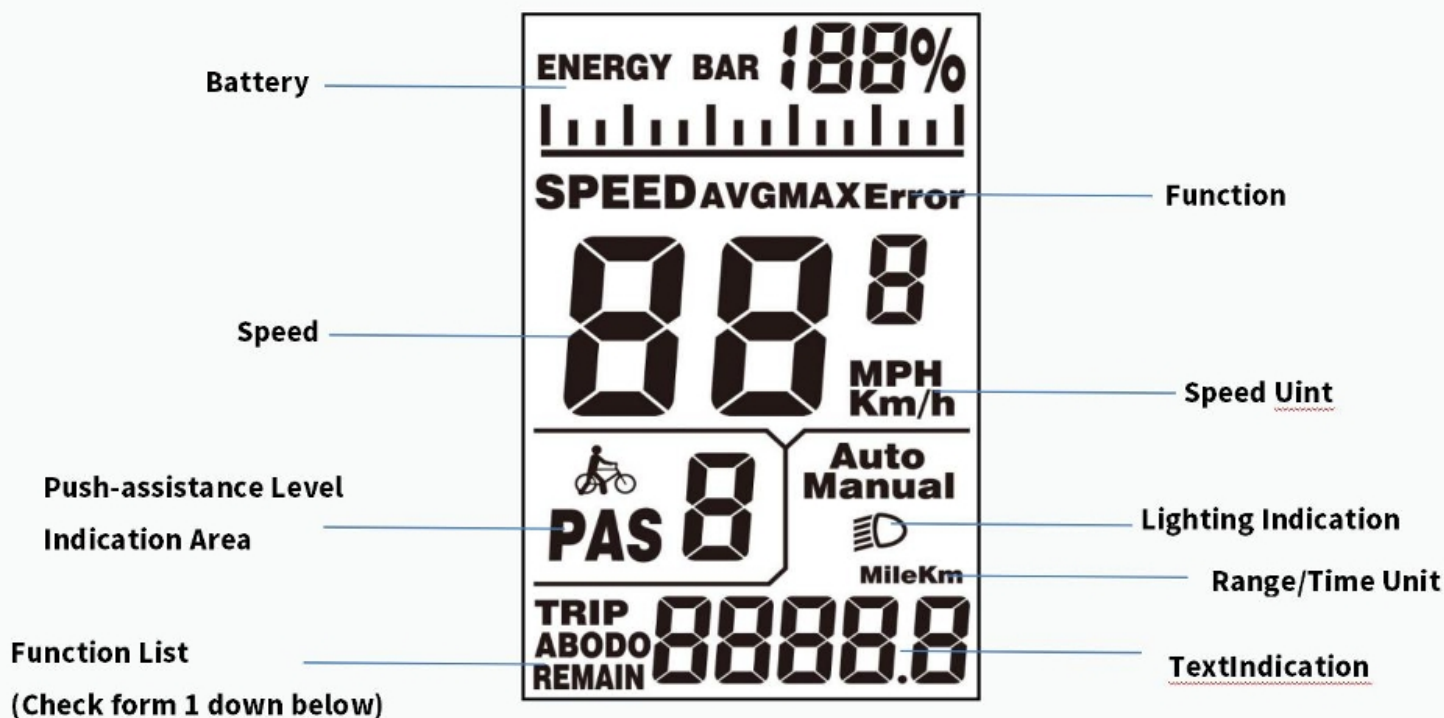
## PARK:1 BASIC DISPLAY SETTINGS

### ◆CONTROL PANEL



The following table of contents provides general guidance on Shengmilo e-bike variable power assist settings and their effects on both range and performance. This content will apply broadly to most riders, but multiple factors will affect individual results including rider fitness and weight, terrain, proper maintenance, etc. While Shengmilo hopes and believes you will thoroughly enjoy your e-bike, no guarantees of universal performance characteristics for all owners can be given.

## Use and Care

**PARK:2 BASIC DISPLAY SETTINGS****◆LCD METER FUNCTIONAL AREA DISTRIBUTION**

# ♦ FAULT INFORMATION TABLE

TRIP	Single mileage (km)	21	Current Abnormality
ODO	Total mileage (km)	22	Throttle Abnormality
RIDETM	Trip time indication	23	Motor Abnormality
ERROR	Error code indication	24	Motor Hall Signal Abnormality
MAX.SPD	Maximum speed (km/h)	25	Brake Abnormality
AVG.SPD	Average speed	30	CommunicationAbnormality
WALK	Walk Mode	31	Power Button Abnormality

## Display Operation

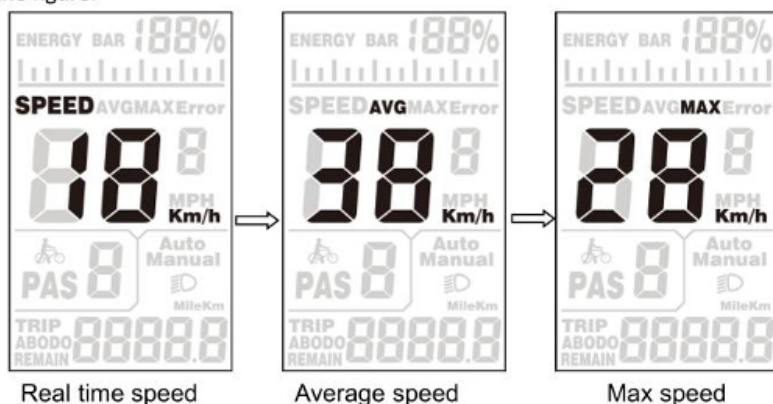
Go look on our website: [www.shengmilo-bikes.com](http://www.shengmilo-bikes.com) ➡ Owner's Manual ➡ Shengmilo MX06 LCD Display User Manual

## Use and Care

## ◆PARAMETER SETTING

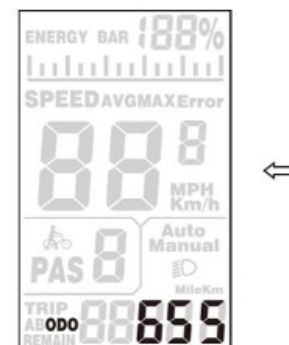
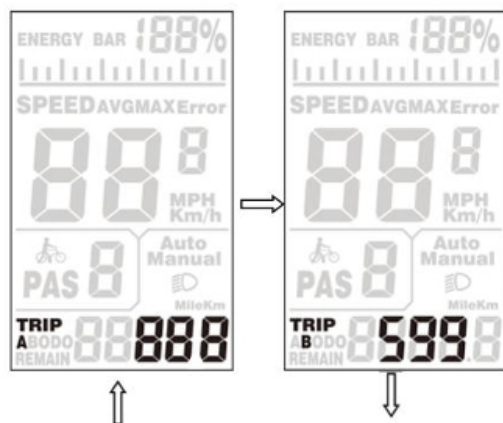
## 5.3 Speed

Long press the [mode] button and the [UP] button to enter the speed switching interface, and speed (real-time speed), AVG (average speed) and max (maximum speed) are displayed respectively, as shown in the figure:



## 5.4 Trip/ODO

Press the [mode] key to switch the mileage information, and the indicate is: TRIP A(single trip) → TRIP B (single trip)→ ODO (cumulative mileage),as shown in the figure:




## 5.5 Walk Assist Mode

When the display is turn on, hold the [DOWN] button for 3 seconds, the e-bike will enter the state of walk assist mode. The e-bike travels at a constant speed of 6km/h. The screen will flash "WALK".

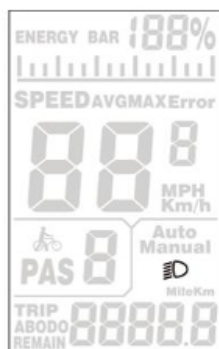


The walk assist mode function can only be used when the user pushes the e-bike. Do not use it when riding.

## 5.6 Headlight On/Off

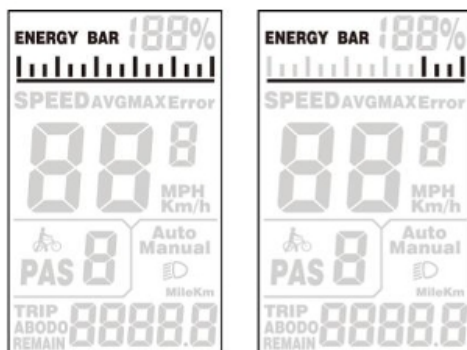
Hold the [UP] button to display the interface as shown, and the icon  appears, indicating that the lights have been turned on. Long press the [UP] button again to turn off the lights.





Headlight on interface

## 5.7 Battery indicator



When the battery power is displayed as shown in the picture on the right, it indicates that the battery is under voltage. Please charge it in time!

## 5.8 Trip resetting

When the display is turned on and e-bike is not running, hold the [mode] and [down] buttons for 2 seconds at the same time, and the Trip(single mileage) of the display will be cleared.

## 6 Error code

When the e-bike electronic control system fails, the display will automatically display ERROR code. For the definition of the detailed error code, see Schedule 1.



Error code interface

Only when the fault is eliminated, can exit the fault display interface, the e-bike will not continue to run after the fault occurs.

## 7.User setting

### 7.1 Preparation before startup

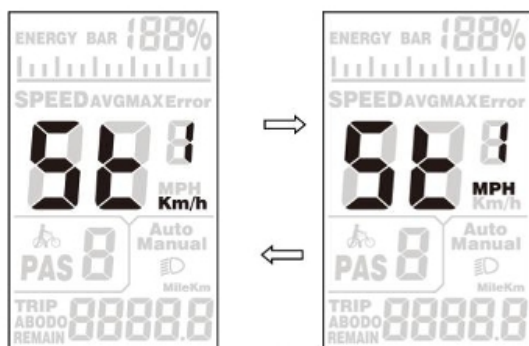
Ensure that the connectors are firmly connected and turn on the power supply of the e-bike.

### 7.2 General setting

Press and hold the [mode] button to power on display. In the power on state, press and hold the [up] and [down] buttons for 2 seconds at the same time, and the display enters the setting state.

#### 7.2.1 Metric and imperial setting

Enter the setting state, ST<sup>1</sup> means imperial system selection, short press the [UP]/[DOWN] button to switch between metric units (Km) and imperial units (Mph). Short press [MODE] button to confirm the setting, and then enter the ST<sup>2</sup> setting interface.



Metric/Imperial conversion setting interface

### 7.2.2 Speed limit setting

Short press **[UP]**/**[DOWN]** button to set the maximum speed limit, the setting range is 20-40Km/h. Short press **[MODE]** to confirm and enter the wheel diameter setting interface. The default maximum speed of the meter is 25Km/h.

The maximum speed limit can be customized according to customer requirements



Speed limit setting interface

### 7.2.3 Wheel size setting

Short press **[UP]**/**[DOWN]** button to select the wheel diameter corresponding to the bike wheel to ensure the accuracy of the speed display and distance display. The settable values are: 16, 18, 20, 24, 26, 28, 700C, 28. The factory default wheel diameter value is 28inch. Short press **[MODE]** but to confirm and enter the real-time speed display.



Wheel size setting interface

### 7.2.4 Exit settings

In the setting state, long press **[MODE]** button (more than 2 seconds) to confirm to save the current setting and exit the current setting state.



If no operation is performed within one minute, the display will automatically exit the setting state.

### 7.3 Personalized Parameter settings

In order to improve the personalized use of this product, we specially added this setting. It can be set according to different requirements of users. This setting includes the setting of battery power, PAS level, current limit, PAS sensor, speed sensor and system settings. There are six major settings.

#### 7.3.1 Personalize Settings Password Input

Press and hold **[UP]** + **[DOWN]** buttons for 2 seconds to enter the normal setting interface. Press and hold **[UP]** + **[DOWN]** buttons again to enter the personalization setting interface.

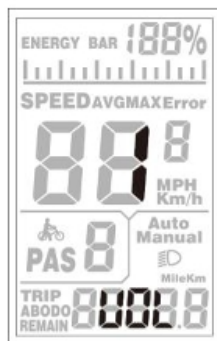
The character “P3” on the bottom of the screen means the password of setting. Short press **[MODE]** button to shift and input the value by pressing **[UP]**/**[DOWN]** button. After the 4-digit password is input, short press **[MODE]** button to confirm. If the password is correct, then enter the setting item selection interface, otherwise it will stay in the password input state. The password of personalize settings is 2962.



Password input interface

Press “UP/DOWN” button to select, and press “MODE” button to enter the corresponding setting page.

### 7.3.2 Battery Power Volt Setting

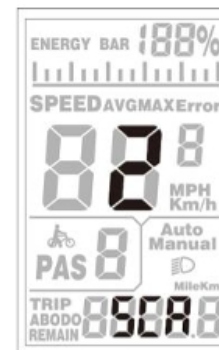


“VOL” means battery power volt setting. Each number represents a voltage value. 5 voltage values MUST BE entered one by one. Press 【UP】 / 【DOWN】 button to change the value. Short press 【MODE】 button to confirm and enter the setting of the next power volt value. After the five power volt values are set, press and hold 【MODE】 button to confirm, and return to the personalized parameter setting interface.

### 7.3.3 PAS level setting



Battery power voltage setting interface



PAS level select interface

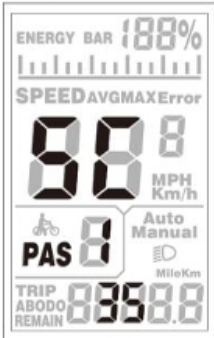
In Pedal Assistant Level Settings, there are 8 modes selectable: 0-3, 1-3, 0-5, 1-5, 0-7, 1-7, 0-9, 1-9. Press “UP/DOWN” button to select the mode, and press “MODE” button to confirm, then enter to the ratio of each PAS level settings.



PAS level select interface

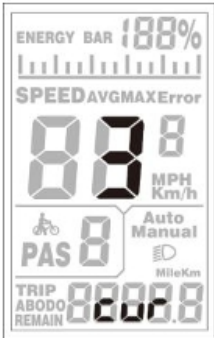
The speed of each level can be adjusted by setting the assist proportion value to meet the different requirements for riders.

Take the 1 level for example, “30-50%” is the range value, and "40%" is the default value of the first level, which can be set. Pressing **【UP】/【DOWN】** button to modify, short press **【MODE】** button to confirm and enter the next assist level ratio setting. Up to 9 can be set. After setting, long press “MODE” button to confirm and return to setting selection interface. Short press “MODE” button to confirm and return to assist level selection.



PAS level ratio setting interface

7.3.4 Current limit setting



“CUR” means current limit. The current limit can be set in the range of 7.0-22.0A. Press **【UP】/【DOWN】** button to change the maximum current value of the controller. Long press **【MODE】** button to confirm and return to the setting selection interface. The default value of the current limit is 15A.

Due to different hardware of controller, the controller may not be able to reach the set 15A.

7.3.5 PAS sensor setting

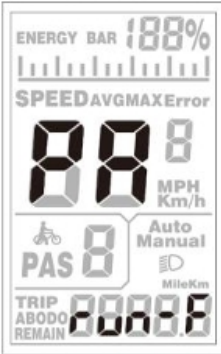


Current limit setting interface



The Direction Setting of PAS Sensor

“PAS” means Pedal Assistant System sensor. “run-F” means forward direction, while “run-b” means backward direction. Press “UP/DOWN” button to select F or b, and press “MODE” button to confirm and turn to PAS sensitivity setting. The default direction is forward.

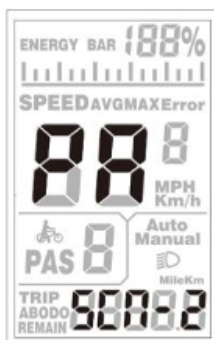


Direction of PAS sensor setting interface



### PAS sensor sensitivity setting

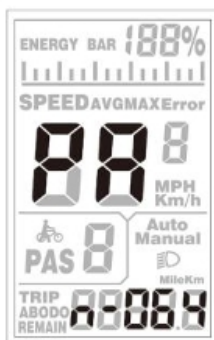
The display shows SCN, indicating the sensitivity of the PAS sensor. The setting range is 2-9. 2 indicate the highest sensitivity and 9 indicate the lowest sensitivity. Increase/decrease setting values by UP/DOWN. Press MODE to confirm and enter the PAS sensor proportion parameter setting interface. The factory default value is 2.



PAS sensor sensitivity setting

### PAS Sensor Proportion Parameter Setting

n- represents the PAS sensor proportional parameter. The PAS sensor parameter values can be selected by UP/DOWN. The larger the value, the more obvious the PAS feeling. Hold MODE to confirm and return to the personalized parameter setting interface.



PAS sensor proportion parameter setting

### 7.3.6 Speed Sensor Setting



SPS indicates the speed sensor setting. It can be set according to the number of magnet heads mounted on the wheel of the e-bike, and the setting range is 1-9. Modify it by pressing UP/DOWN. Hold MODE to confirm and return to the personalized parameter setting interface. The factory default value is 1.



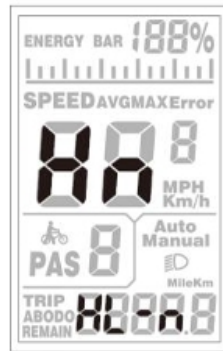
Speed sensor magnet stone selection interface

### 7.3.7 Throttle Function Setting



Throttle walk assist enable setting

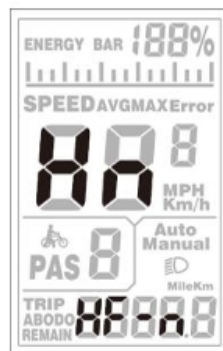
HL indicates the throttle's walk assist function. HL: N means that the throttle does not have this function, and HL: Y means that the throttle has this function, that is, when turning the throttle, the display enters the walk assist mode. Y/N can be switched by UP/DOWN. If you select N, press MODE shortly to confirm and enter the throttle level enable setting interface, otherwise there is no response. Hold MODE to confirm and return to the display's personalized parameter setting interface. The factory default value of the display is N.



Throttle walk assist setting

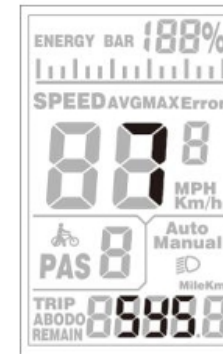
#### Throttle walk assist enable setting

HF indicates the throttle level setting. HF: N means that the throttle doesn't split levels according to the PAS ratio. If the throttle level splitting is enabled, the maximum output of the motor can only reach the speed of the corresponding PAS level shown on the display when turning the throttle; if no level splitting, it means that when the throttle is turned, the speed will not be limited to the PAS level shown on the display, it can reach to the rated maximum speed. Y/N can be set by UP/DOWN. Hold MODE to confirm and return to the display's personalized parameter setting interface.



Throttle level enable setting

### 7.3.8 System Setting



#### 7.3.8.1 Battery Delay Time Setting

DL represents the battery delay time. The battery delay time 3/6/12s can be selected by UP/DOWN. Press MODE to confirm and enter the maximum speed limit setting interface.



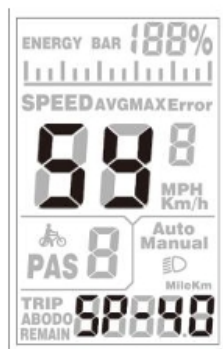
Battery delay time setting

#### 7.3.8.2 Max Speed Limit Setting

MAX SPEED indicates the maximum speed limit. The value can be set by UP/DOWN, and the setting range is 25-40 Km/h. Press MODE to confirm, and enter the push walk assist enable setting interface. The factory default is 40Km/h.

#### 7.3.8.3 Button Walk Assist Enable Setting

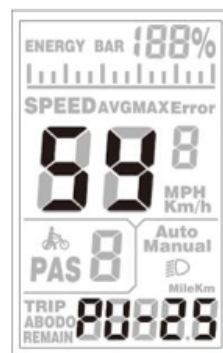
PUS indicates the button walk assist function enable setting. Switch Y/N by UP/DOWN. Y means enable, that is, when hold DOWN, the walk assist function realizes; N means disable, that is, there is no walk assist function. Shortly press MODE to confirm, and enter the walk assist speed setting. The factory default value is Y.



Button walk assist enable setting

#### 7.3.8.4 Walk Assist Speed Setting

PU indicates the button walk assist speed setting. By setting the walk assist speed value, you can adjust the pushing speed to meet the needs of different riders. Adjusted by UP/DOWN, the adjustable range is “20-35”. Press MODE to confirm and enter the slow start setting interface. The display defaults to 25



Walk assist speed setting

#### 7.3.8.5 Slow Start up Setting

SSP indicates the slow start up setting. The adjustable range is 1-4. 4 is the slowest. Select with UP/DOWN. Hold MODE to confirm and return to the display’ s personalized parameter setting interface. The factory default is 1.



Slow start up setting

#### 7.3.9 Exit Setting

In the personalized parameter setting state: press MODE to confirm the input to enter the next setting; hold MODE to confirm the current setting and exit the current setting state; hold DOWN to cancel the current operation, exit without saving the current set data.



The display automatically exits the setting state without any operation for 1 minute.

## 8.FAQ and Answers

Q: Why can't turn on the display?

A: Check if the battery power is turned on, the outer leakage cable is broken or not.

Q: What should I do if the display shows error code?

A: Timely repair at the e-bike repair shop.

## 9.Quality Warranty And Coverage

I. Warranty:

1. In the case of normal use, due to the quality problems caused by the product itself, the company will be responsible for the warranty during the warranty period.
2. The warranty: 24 months since the display out of the factory.

II. The following conditions are not covered by the warranty:

1. The casing is opened
2. Connector is broken
3. The display leaves the factory, the casing is scratched or the casing is damaged.
4. Scratch or break of the display lead wire
5. Failure or damage caused by force majeure (such as fire, earthquake, etc.) or natural disasters (such as lightning strikes)
6. Product is out of warranty.

## 10.Version

This user manual is for a general-purpose UART-5S protocol software (version V1.0). Some version of the e-bike LCD may have slightly difference, which should depend on the actual use version.

Appendix 1: Error Code

Error code	Description
21	Current abnormal
22	Throttle abnormal
23	Motor phase failure
24	Motor hall abnormal
25	Brake abnormal
30	Communication abnormal
31	Power on/off button adhesion
34	6km function button adhesion



## Use and Care

## PARK:3 BATTERYCHARGING

### ◆CHARGING PROCEDURE FOR OFF-BIKE CHARGING

**NOTICE:**

Please keep your key and its spare in a safe place. Once lost, they are difficult to copy

**01**

Find the keys located on the handlebar and remove them. If you cut them from the handlebars, be careful not to damage any of the wires.

**02**

Use the key to unlock the battery. While holding the battery with one hand, detach the battery by turning the release switch located on the underside of the frame.

## Use and Care

### 03

Safest way to charge your battery



- ① Start by plugging the charger into the battery charging port. With the battery inside the bike, place the charger on a flat, safe place and connect the charger's DC output plug (barrel connector (2)) to the charging port (1) on the side of the battery.
- ② Plug the charger into an electrical outlet. Connect the charger input plug (3) (110–240 volt plug) to an electrical outlet. Charging should begin and the LED charging status light on the charger will show **red**.
- ③ Unplug the charger from the outlet, then from the charging port. When fully charged, the charging indicator light changes from **red** to **green**, first unplug the charger from the wall outlet, then unplug the charger output plug from the battery charging port.

## Use and Care

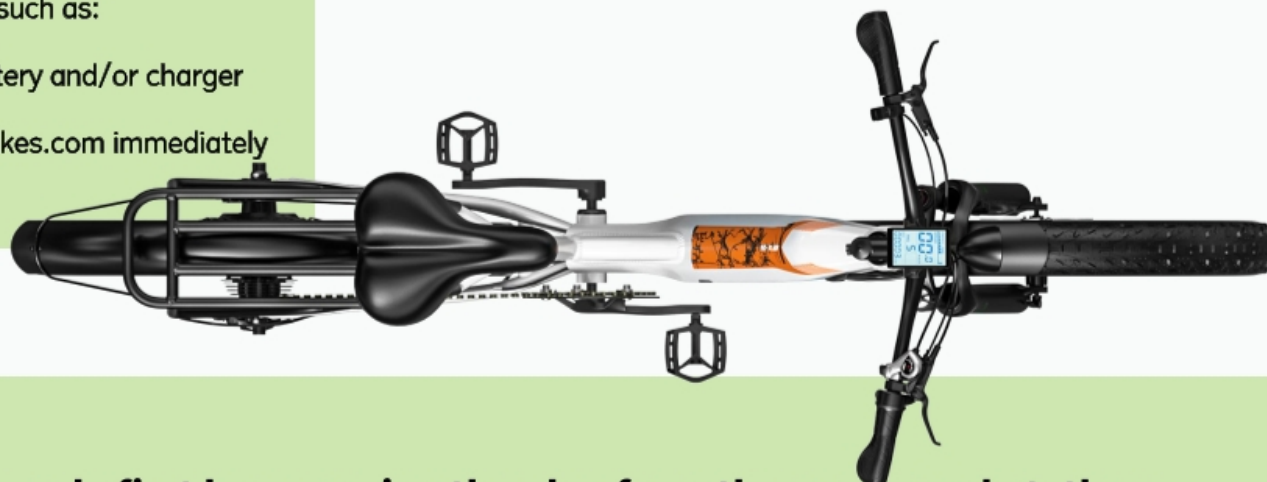
## PARK:4 AFTERCHARGING

**NOTICE:**

If your battery displays abnormal charging behavior, such as:

- Longer-than-expected charge time
- Strange smell, smoke, or liquid emanating from battery and/or charger
- Overheating battery and/or charger

Please stop charging and contact [www.shengmilo-bikes.com](http://www.shengmilo-bikes.com) immediately



**1. Please unplug the main power supply first by removing the plug from the power socket, then remove the DC port from the battery. You can then check the battery status on the display screen.**

**2. Insert the battery with caution, making sure that the slots at the bottom of the battery align with the pins on the bike frame, and slide in carefully to avoid damaging the interior circuitry.**

**3. Lock the battery when finished to prevent theft.**



## PARK:5 CHARGINGTIPS

The battery can be recharged on or off the bike.

- A new battery may take longer to be fully charged when depleted.
- The charger will automatically stop charging once the battery pack is fully charged.
- You can recharge the battery after short rides as it does not have a memory effect.

## PARK:6 PRECAUTIONS

While charging, please keep your battery away from direct sunlight, liquid, dirt or debris, and metal objects. Do not allow the battery to be charged in environments under 14° Fahrenheit (-10°Celsius) and over 104° Fahrenheit (40° Celsius).

- Do not cover the charger when charging.
- Keep the battery away from children while charging.
- Make sure to only use an approved Shengmilo bike charger purchased directly from [www.shengmilo-bikes.com](http://www.shengmilo-bikes.com) for your specific bike serial number.





## Use and Care

## PARK:7 BEFORE RIDING

Ensure that the battery has been properly secured to the bike before each use by grasping the battery pack and pulling upwards, testing the security of the pack.



# 05 PRECAUTIONS AND MAINTENANCE



PRECAUTIONS AND MAINTENANCE

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## PARK:1 BATTERY

### ◆Before Riding

Ensure that the battery has been properly secured to the bike before each use by grasping the battery pack and pulling upwards, testing the security of the pack.

### ◆Battery Maintenance (48V 17.5AH Shengmilo Lithium battery)

- Do not fully drain your battery. Turn off the power when the battery charge is low.
- Fully charge the battery after each use, no matter how much power is used. This will prolong the battery life. If battery power is not used for a long time, store the battery with a full charge and charge it once a month.
- The Shengmilo bike can be safely ridden in light rain. However, riding through very heavy downpours or through flooded streets is not recommended, as the crank and/or motor can get wet, which may cause damage.
- Keep the battery away from open flame and other high-temperature heat sources. Do not expose the battery to direct sunlight or recharge immediately after use in high-temperature weather.

**NOTICE:** It is not recommended to make any modifications to the battery or the motor. If the battery is tampered with, and there are any problems with the altered battery or motor, it will not be covered under Shengmilo's warranty.

## **PARK:2 CHARGER CARE INFORMATION**

1. Check the charger, charger cables, and battery for damage before beginning each charge.
2. Always charge in a safe area that is cool, dry, indoors, away from direct sunlight, dirt, or debris, in a clear area away from potential to trip on the charging cords, or for damage to occur to the bike, battery, or charging equipment while parked and/or charging.  
The battery can be charged on or off the bike.
3. The battery should be recharged after each use, so it is ready to go the full range per charge next ride. There is no memory effect, so charging the battery after short rides will not cause damage.
4. Charging the battery normally takes 6–7 hours.
5. The charge indicator lights will show a red light while the battery charges. When charging is complete, one indicator light will turn green. Ensure the lights face upward when charging.
6. Remove the charger from the battery within one hour of the green light indicating a complete charge.
7. Never charge a battery for more than 12 hours at a time. Do not leave a charging battery unattended.



## PRECAUTIONS AND MAINTENANCE

# PARK:3 RIDING MODES

### ◆ Pedal-assist

Pedal-Assist is an operating mode on e-bikes designed to engage the motor to assist, but not replace, your own pedaling effort. When you are operating your bike in the pedal-assist mode, you can adjust the setting according to your preference. Shengmilo has five pedal assist settings – ranging from 1 to 5.

- Higher pedal settings (L4/5) would be most helpful for those who want to ride faster with minimum effort. These settings are perfect for people who want to arrive fresh and timely at work, without being sweaty and exhausted.
- Lower pedal settings (L1/2) are popular for Shengmilo riders to use after work, or when leisurely exercise is preferred. These are best to use on the way home from work, to refresh yourself and relieve stress accumulated throughout the entire workday. Moreover, lower settings can extend the usable range for longer rides, maximizing enjoyment while minimizing physical stress and fatigue.

### ◆ Throttle-only

The throttle mode is similar to how a motorcycle or scooter operates, alleviating the need to pedal or providing an additional boost simply by twisting the throttle.

Shengmilo MX06 can reach speeds of up to 25 miles per hour with throttle mode, which not only allows you to travel faster but also reassures riders with extra power whenever needed, depending on traffic conditions and rider energy levels. If you are an adventurer who chases after speed and distance without compromising comfort or safety, the throttle-assisted Shengmilo would be your perfect companion.

### ◆ Pedal-only

In this mode, the Shengmilo will perform like a normal bike, as you'll be riding without any assistance from the motor. This mode is especially useful if you run out of battery, or are looking for more intensive resistance training.

We suggest that you select a lower assistance level when you first ride your Shengmilo MX06. After becoming more comfortable with the riding characteristics of our e-bike, and more familiar with the varying range requirements of your most common destinations and commuting routes, you can then make any needed adjustments to pedal-assist settings, as well as the throttle use frequency, riding position, etc.

### ◆ Riding Limitations

Following are some limitations needing riders' careful attention to ensure the hub motor does not overheat or become damaged from excessive loading:

- Do not attempt to ride up hills steeper than 15% grade.
- Use the pedals to assist the motor when climbing hills and accelerating from a stop.
- Avoid sudden starts and stops.
- Generally accelerate at a moderate pace, rather than aggressively

## PRECAUTIONS AND MAINTENANCE

# PARK:4 MAINTENANCE

### ◆ Battery Maintenance (48V 17.5AH Shengmilo battery)

1. Don't fully drain your battery. Turn off the power when the battery charge is low.
2. Fully charge the battery after each use, no matter how much power is used. This will prolong the battery life. If the battery is not used for a long time, store the battery with a full charge and charge it once a month.
3. Shengmilo MX06 can be safely ridden in light rain. However, riding through very heavy downpours or through flooded streets is not recommended, as the crank and/or motor can get wet, which may cause problems.
4. Keep the battery away from an open flame or a high-temperature heat source. Do not expose the battery to direct sunlight or recharge immediately after use in high-temperature weather.

### ◆ Motor Maintenance (1X1000W Geared Hub Motor with 80 Nm of torque)

1. Please check your motor frequently and tighten any loose screws or nuts, to prevent the bike from breaking down due to disconnected wires.
2. The brushless motors are not waterproof, so avoid riding through water deeper than the lower edge of the electric wheel hub to avoid motor failure.

### ◆ Chain Maintenance

1. We recommend cleaning the chain after each ride, especially in rainy and humid environments. Use a dry cloth to wipe the chain and its accessories clean. Use a brush to remove sand and dirt stuck in the chain, along with use warm soapy water if needed. Do not use strong acidic or alkaline cleaning agents (such as rust remover), because these chemicals can damage the chain.
2. Apply lubricating oil after cleaning to avoid rust. First, make sure the chain is dry, and then apply the lubricating oil to the bearings.
3. To prevent unnecessary chain wear, try to maintain a vertical chain position when shifting gears (do not use the smallest gear with the smallest flywheel, or the largest gear with the largest flywheel, etc.).

### ◆ Front Fork Maintenance

1. Always use a clean, oil-free lint-free cloth with plain or soapy water to clean your bike. To prevent water from flowing into the front fork, you can turn the bike upside down. Dry with a lint-free towel after washing. Pay specific attention to the inner tube and the dust seal to reduce wear and prevent thinning of the inner tube, which can lead to significant damage if the aluminum is exposed to air.
2. We recommend using a front fork dust cover to protect the inner tube of your front fork. This prevents dust from entering as well as hard objects from hitting the inner tube.

## PRECAUTIONS AND MAINTENANCE

# PARK:5 LIMITED WARRANTY

### Warranty Info

- All Shengmilo e-bikes are covered under our manufacturer's 1 year, 6 months, and three months warranty for the original owner against all manufacturing defects (All free Accessories are not covered by warranty service).

- Only the original owner of bikes purchased from Shengmilo's online store is covered by this Limited Warranty.

The Warranty Period begins upon your receipt of the bikes and shall end immediately upon the earlier of the end of the Warranty Period or any sale or transfer of the bike to another person, and under no circumstances shall the Limited Warranty apply to any subsequent owner or other transfers of the bike.

- You must have the initial owner's name & the initial order number to start a warranty claim.

- The Covered Components are warranted to be free of defects in materials and/or workmanship during the Warranty Period.

### WARRANTY WILL COVER

Shengmilo will replace any component that is deemed to be defective or damaged

(including damage incurred during shipment) without user error. The warranty covers the listed products and follows the terms below:

#### Frame

- Shengmilo' frames are covered by a replacement warranty for 12 months.

- This warranty includes a replacement frame only. Labor charges to changeover parts to replacement frames are not included.

- Shengmilo reserves the right to use scratch and dent stock when replacing a frame under this warranty. Frame styles and/or colors not in stock may be replaced with a compatible style and/or color at the discretion of Shengmilo.

#### Batteries

- Shengmilo' batteries are covered by a 6-month prorated warranty.

- Defective batteries will send accessories to customers for free for self-repair during the 6-month service period.

The warranty period for repaired batteries is based on the original purchase date.

- After the first 6 months of service — A prorated credit, based on months of service, will be applied toward the purchase of a new battery. Batteries purchased at pro-rated cost will have a new 6 months warranty based on the pro-rated purchase date.

- No cash reimbursement will be made.

- Batteries can be assessed and found defective directly by Shengmilo only.

#### Parts & Components

- ALL Original Shengmilo bike's parts & components are covered by the warranty.



## PRECAUTIONS AND MAINTENANCE

**PARK:6 LIMITED WARRANTY****This Limited Warranty Does Not Cover:**

- Normal wear and tear of any Covered Component.
- Labor charges to changeover parts to replacement frames are not included.
- Consumables or normal wear and tear parts (including without limitation tires, tubes, brake pads, cables, housing, grips, chain, and spokes).
- Any damage or defects to Covered Components resulting from failure to follow instructions in the e-bike owner's manual, acts of God, accident, misuse, neglect, abuse, commercial use, alterations, modification, improper assembly, installation of parts or accessories not originally intended or compatible with the bike as sold, operator error, water damage, extreme riding, stunt riding, or improper follow-up maintenance.
- For the avoidance of doubt, Shengmilo will not be liable and/or responsible for any damage, failure, or loss caused by any unauthorized service or use of unauthorized parts.
- The Battery is not warranted from damage resulting from power surges, use of an improper charger, improper maintenance, or another such as misuse, normal wear, or water damage.
- Any products sold by Shengmilo that are not an e-bike.

**Link to Assembly Video and Online Resources Assembly Video**

Please refer to the "COMMUNITY Video" at the Shengmilo website

[www.shengmilo-bikes.com/pages/videos](http://www.shengmilo-bikes.com/pages/videos) to view the official Shengmilo MX06 Assembly Video.

**Online Resources**

For more information on best practices, please visit the Shengmilo official website

[www.shengmilo-bikes.com](http://www.shengmilo-bikes.com) or contact Shengmilo Product

Support with any questions.





We are here to help!

If you have questions, please:

Access Shengmilo's official website **[WWW.SHENGMILO-BIKES.COM](http://WWW.SHENGMILO-BIKES.COM)**

Contact us directly by email at **[INFO@SHENGMILO-BIKES.COM](mailto:INFO@SHENGMILO-BIKES.COM)**