Shengmilo MX06

Shengmilo 26-inch Fat Tire Electric Bicycle User Manual

Model: MX06

1. Introduction

Thank you for choosing the Shengmilo MX06 Electric Bicycle. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your new e-bike. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.



Figure 1.1: Shengmilo MX06 Electric Bicycle

2. Components Included

Your Shengmilo MX06 Electric Bicycle package includes the following items:

- Shengmilo MX06 Electric Bicycle (partially assembled)
- Removable Samsung Battery
- Battery Charger
- Tool Kit for assembly
- User Manual (this document)

3. Setup and Assembly

The Shengmilo MX06 is shipped partially assembled. Follow these steps to complete the assembly:

3.1 Unpacking

1. Carefully remove the bicycle and all components from the packaging.
2. Inspect all parts for any signs of damage during transit. Contact customer service immediately if any damage

is found.
3. Retain the packaging material for future transport or storage.

3.2 Handlebar Installation

1. Loosen the bolts on the stem and insert the handlebar.
2. Adjust the handlebar to a comfortable riding position.
3. Tighten the stem bolts securely. Ensure the handlebar is aligned with the front wheel.

3.3 Pedal Installation

1. Identify the left (L) and right (R) pedals. The left pedal has a reverse thread.
2. Apply a small amount of grease to the pedal threads.
3. Screw the pedals into the crank arms. Turn the right pedal clockwise and the left pedal counter-clockwise.
4. Tighten firmly with a wrench.

3.4 Seat Post and Saddle Adjustment

1. Insert the seat post into the frame's seat tube.
2. Adjust the saddle height so that your leg is slightly bent when the pedal is at its lowest point.
3. Secure the quick-release lever or seat post clamp.

3.5 Battery Installation and Charging

1. Locate the battery compartment on the frame.
2. Insert the Samsung battery into the compartment and ensure it clicks securely into place.
3. Before first use, fully charge the battery. Connect the charger to the battery charging port and then to a power outlet. The charging time is approximately 5-6 hours.
4. The battery features a charge protector for safety and extended lifespan.



Figure 3.1: Removable Samsung Battery

4. Operating Instructions

Familiarize yourself with the controls and riding modes of your Shengmilo MX06 electric bicycle.

4.1 Powering On/Off

- To power on the bicycle, press and hold the power button on the King Meter LCD display.
- To power off, press and hold the power button again.

4.2 King Meter LCD Display

The intelligent King Meter display provides real-time riding information:

- Total Mileage
- Battery Level
- Current Speed
- Speed Level (Assist Level)

The display features three buttons to control electric mode and assist levels.



Figure 4.1: King Meter LCD Display

4.3 Riding Modes

The Shengmilo MX06 offers three distinct riding modes:

1. **Pedal Assist Mode:** In this mode, the motor provides moderate power assistance as you pedal. The display shows 1-5 gears (assist levels); a higher gear provides more assistance and requires less pedaling effort. This mode is ideal for extending range and reducing fatigue.
2. **Pure Electric Mode:** Engage this mode by twisting the throttle to the desired power level. The motor will propel the bicycle without pedaling. In this mode, the battery range is approximately 40-50 km.
3. **Pedal Mode (Normal Bicycle):** When the power is off or the electric modes are not engaged, the bicycle functions like a traditional pedal bicycle.

4.4 BAFANG Motor Performance

The Shengmilo MX06 is equipped with a powerful 48V BAFANG rear hub motor, providing up to 80 Nm of torque. This motor is designed to handle inclines of up to 35° with ease, making it suitable for daily commutes, mountain trails, or long-distance rides.



Figure 4.2: BAFANG Motor Diagram

4.5 Braking System

The bicycle features dual disc brakes for reliable stopping power. Always apply both front and rear brakes simultaneously for balanced and effective braking.



Figure 4.3: Shimano Hydraulic Brakes

4.6 Gear Shifting

The Shengmilo MX06 is equipped with a 7-speed Shimano gear system. Use the shifter on the handlebar to change gears according to terrain and desired pedaling effort.



Figure 4.4: Shimano 7-Speed Gearshift

4.7 Front Suspension

The bicycle features front suspension to absorb shocks and provide a smoother ride, adapting to various road conditions.



Figure 4.5: Front Suspension and Fat Tire

5. Maintenance

Regular maintenance is crucial for the longevity and safe operation of your electric bicycle.

5.1 Battery Care

- Charge the battery regularly, even if not in use, to maintain its health.
- Avoid fully discharging the battery frequently.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.

5.2 Tire Pressure

- Check tire pressure before each ride. Maintain the recommended PSI (pounds per square inch) indicated on the tire sidewall.
- Proper tire pressure ensures optimal performance, range, and safety.

5.3 Brakes

- Regularly inspect brake pads for wear and replace them when necessary.
- Ensure brake levers are firm and responsive. Adjust brake cables or hydraulic fluid if needed.

5.4 Chain and Drivetrain

- Keep the chain clean and lubricated to prevent rust and ensure smooth gear changes.
- Check for any bent or damaged chain links or gear teeth.

5.5 General Inspection

- Periodically check all bolts and fasteners for tightness.
- Clean the bicycle regularly with a damp cloth. Avoid using high-pressure washers directly on electrical components.

6. Troubleshooting

This section addresses common issues you might encounter with your Shengmilo MX06 electric bicycle.

Problem	Possible Cause	Solution
Bicycle does not power on	Battery not charged or not properly installed; loose electrical connection; display issue.	Ensure battery is fully charged and securely seated. Check all visible cable connections.
Motor not assisting	Battery low; assist level set to zero; brake lever engaged; motor connection issue.	Charge battery. Increase assist level on display. Ensure brake levers are fully released. Check motor cable connection.
Short battery range	Under-inflated tires; riding uphill frequently; heavy load; cold weather; battery degradation.	Maintain proper tire pressure. Use lower assist levels on flat terrain. Charge battery fully before each ride.
Brakes squealing or ineffective	Worn brake pads; contaminated rotors; loose calipers.	Inspect and replace brake pads. Clean rotors with disc brake cleaner. Tighten caliper bolts.
Gears not shifting smoothly	Dirty or unlubricated chain; misaligned derailleur; bent hanger.	Clean and lubricate chain. Adjust derailleur. Consult a bicycle mechanic if issues persist.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact Shengmilo customer support.

7. Specifications

Key technical specifications for the Shengmilo MX06 Electric Bicycle:

Feature	Specification
Model Number	MX06

Feature	Specification
Dimensions (L x W x H)	180 x 68 x 107.5 cm (70 x 26.8 x 42.3 inches)
Weight	32 kg (70.5 lbs)
Wheel Size	26 Inches
Tire Type	Fat Tires (26 x 3.0 inches)
Frame Material	Aluminum
Motor	48V BAFANG Rear Hub Motor (80 Nm torque)
Battery	48V 17.5Ah 840Wh Samsung Removable Battery
Charging Time	5-6 hours
Electric Mode Range	40-50 km (25-31 miles)
Pedal Assist Range	50-90 km (31-56 miles)
Gears	7-Speed Shimano
Brakes	Dual Disc Brakes
Suspension	Front Suspension
Display	King Meter LCD Display
Recommended Rider Height	165-200 cm (5'5" - 6'7")



Figure 7.1: Shengmilo MX06 Dimensions

8. Warranty and Support

Shengmilo provides a warranty for various components of your electric bicycle:

- **Electrical Components (Motor, Controller, Battery, Charger, Electric Throttle, Pedal Assist Sensor):** 6-month warranty.
- **Display:** 12-month warranty.
- **Basic Parts (Frame):** 12-month warranty.
- **Freewheel:** 3-month warranty.

Please note that wear parts such as tires and brakes are not covered under warranty.

8.1 Customer Support

For any questions, technical assistance, or warranty claims, please contact Shengmilo customer service. You may also be able to download the MX06 instruction manual directly from the Shengmilo website.

For BAFANG motor after-sales service, you can contact BAFANG directly. They offer free repair service at home in

some regions. Contact details for BAFANG motor after-sales support are typically provided with the product or can be found on the BAFANG website.



Figure 8.1: BAFANG Motor After-Sales Locations

No official product videos from the seller were available for embedding in this manual.

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