Shengmilo S900

Shengmilo S900 Electric Bike User Manual

Model: S900

1. Introduction

Thank you for choosing the Shengmilo S900 Electric Bike. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your electric bike. Please read this manual thoroughly before your first ride and keep it for future reference. Ensure all users are familiar with its contents.

2. Safety Information

Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Observe all local traffic laws and regulations. Regularly inspect your bike for any damage or loose parts before each ride. Do not operate the bike under the influence of alcohol or drugs. This electric bike is UL 2849 Certified, ensuring it meets safety standards for electrical systems.

- Always wear a certified helmet.
- Perform pre-ride checks: brakes, tires, battery, and controls.
- Be aware of your surroundings and ride defensively.
- Do not exceed the maximum weight recommendation of 200 kg (440 lbs).
- Ensure the battery is securely locked in place before riding.

3. Product Overview

The Shengmilo S900 is a high-performance electric bike designed for various terrains. It features a robust motor, long-lasting battery, and advanced suspension system for a comfortable and powerful riding experience.

Key Features:

- **Motor:** 1500W nominal, 3000W peak rear motor with 150 Nm torque, capable of handling inclines up to 45°. Water resistance rated at IPX5.
- **Battery:** High-quality 60V/30AH Samsung lithium-ion battery, offering a range of up to 60 km (fully electric

mode) or 60-100 km (pedal assist mode). Charging time is 6-8 hours. The battery is removable for convenient charging.

- **Tires:** 20 x 4.0 inch fat tires designed for all-terrain conditions including snow, sand, gravel, and mountain trails. These tires are puncture-proof and feature reflective strips for enhanced visibility.
- **Brakes:** Front and rear hydraulic oil disc brakes ensure reliable stopping power and increased safety. Brake levers are equipped with sensors to cut motor support upon activation.
- **Suspension:** Full suspension system with an inverted front fork shock absorber and an adjustable rear shock absorber for maximum comfort on various road conditions.
- **Gears:** Shimano 7-speed derailleur system for optimal gear ratio selection.
- **Display:** Color LCD display providing real-time information such as speed, battery level, and riding distance.
- **Lighting:** LED headlight for safe night riding and a rear brake light that activates with braking.
- **Frame:** Durable and stable aluminum alloy frame with a patented geometry design and rust-proof painted finish.



Image: Detailed view of the adjustable rear shock absorber, highlighting its robust design.



Image: The 60V 30Ah lithium battery, integrated into the bike's frame, providing power for extended rides.



Image: A detailed view of the 20x4 inch fat tire, showcasing its aggressive tread pattern suitable for various terrains.



Image: The dual 4-piston hydraulic disc brakes, designed for strong and consistent stopping power.

4. Setup and Assembly

The Shengmilo S900 Electric Bike arrives 98% pre-assembled. This means most major components are already installed, significantly reducing the time and effort required for setup. You will primarily need to attach the handlebars, front wheel, pedals, and perform a final safety check.

Assembly Steps:

1. **Unpacking:** Carefully remove the bike and all components from the packaging. Retain the packaging for potential future transport or warranty claims.
2. **Handlebar Installation:** Attach the handlebars to the stem, ensuring they are centered and tightened securely. Adjust the angle for comfortable riding.
3. **Front Wheel Attachment:** Install the front wheel, making sure the disc brake rotor is correctly aligned with the caliper. Secure the quick-release or axle nuts firmly.
4. **Pedal Installation:** Identify the left (L) and right (R) pedals. Thread them into the corresponding crank arms. Remember that the left pedal has a reverse thread. Tighten them securely with a wrench.
5. **Seat Adjustment:** Adjust the seat height to ensure your feet can comfortably touch the ground when stopped, and your legs have a slight bend at the knee when pedaling.
6. **Battery Installation/Check:** Ensure the battery is fully inserted into its compartment and locked securely.
7. **Pre-Ride Safety Check:** Before your first ride, double-check all bolts, nuts, and quick releases. Verify brake functionality, tire pressure, and ensure the display powers on correctly.

5. Operating Instructions

The Shengmilo S900 offers versatile riding options with its three working modes and intuitive controls.

5.1. Powering On/Off and Display

To power on the bike, press and hold the power button on the LCD display. The display will illuminate, showing your speed, battery level, and current riding mode. To power off, press and hold the power button again.

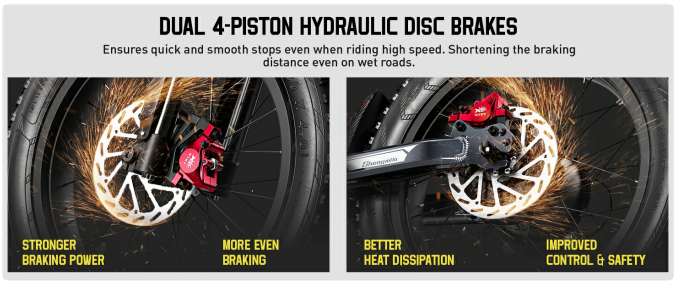


Image: The color LCD display provides clear, real-time information for the rider.

5.2. Riding Modes

Your Shengmilo S900 features three distinct riding modes:

1. **Pedal Assist Mode:** The motor provides assistance as you pedal. You can adjust the level of assistance using the controls on the handlebar. This mode offers a range of 60-100 km on a single charge.
2. **Fully Electric Mode:** Engage the throttle to power the bike solely with the motor, without pedaling. This mode provides a range of 50-60 km.
3. **Riding Action Mode (Manual):** Ride the e-bike like a traditional bicycle, using only pedal power. The motor remains disengaged in this mode.



Image: Visual representation of the three riding modes: Electric, Pedal Assist, and Manual.

5.3. Braking System

The hydraulic disc brakes provide strong and responsive stopping power. The brake levers are equipped with sensors that automatically cut off power to the motor when engaged, ensuring a quick and safe stop.

5.4. Lighting

The integrated LED headlight provides ample illumination for night riding. The rear light functions as a brake light, increasing your visibility to others when slowing down or stopping.



Image: The powerful LED headlight provides a wider range of illumination for improved safety.

5.5. Video Demonstration

Watch this official video from Shengmilo US Store for a demonstration of the S900 electric bike.

Video: An official demonstration of the Shengmilo S900 electric bike, showcasing its features and performance.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your Shengmilo S900. Always turn off the bike and remove the battery before performing any maintenance.

General Maintenance Tips:

- **Cleaning:** Clean your bike regularly with a damp cloth. Avoid using high-pressure washers directly on electrical components.
- **Tires:** Check tire pressure before each ride. Maintain recommended pressure for optimal performance and safety. Inspect tires for wear and damage.
- **Brakes:** Regularly check brake pads for wear and ensure brake levers are responsive. Adjust or replace as needed.
- **Chain:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent wear.
- **Battery:** Store the battery in a cool, dry place. Charge it regularly, even if not in use, to maintain its health. Avoid fully discharging the battery.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases for tightness.

7. Troubleshooting

If you encounter issues with your Shengmilo S900, refer to the following basic troubleshooting steps. For more complex problems, please contact customer support.

Common Issues:

- **Bike not powering on:** Ensure the battery is fully charged and correctly installed. Check all cable connections.
- **Motor not assisting:** Verify that pedal assist or fully electric mode is selected. Check if brake levers are partially engaged, as this cuts motor power.
- **Reduced range:** This can be due to low tire pressure, riding in higher assist modes, frequent stops and starts, or cold weather. Ensure the battery is fully charged before each ride.
- **Brakes squealing:** This can be caused by dirty brake pads or rotors, or misaligned calipers. Clean the brake components or have them inspected by a professional.

If these steps do not resolve the issue, please refer to the 'Warranty & Support' section for contact information.

8. Specifications

Detailed technical specifications for the Shengmilo S900 Electric Bike:

Feature	Specification
Bike Type	Electric Bike
Brand	Shengmilo
Model Name	S900
Motor Power	1500W (Nominal), 3000W (Peak)
Torque	Up to 150 Nm
Battery	60V/30AH Samsung Lithium-ion
Charging Time	6-8 hours
Range (Pedal Assist)	60-100 km
Range (Fully Electric)	50-60 km
Top Speed	Up to 42 MPH (65 KM/H)
Wheel Size	20 Inches (20x4.0 Fat Tire)
Frame Material	Aluminum Alloy
Suspension Type	Front and Rear (Full Suspension)
Brake Style	Hydraulic Disc Brakes
Number of Speeds	7-speed Shimano Derailleur
Maximum Weight Recommendation	200 Kilograms (440 lbs)

Feature	Specification
Assembly Required	Yes (98% pre-assembled)
Certifications	UL 2849 Certified
Water Resistance	IPX5
Minimum User Height	165 Centimeters
Total Length	185 cm
Handlebar Height	105 cm
Wheelbase	122 cm
Minimum Seat Height	82 cm
Maximum Seat Height	90 cm
Wheel Diameter	50 cm

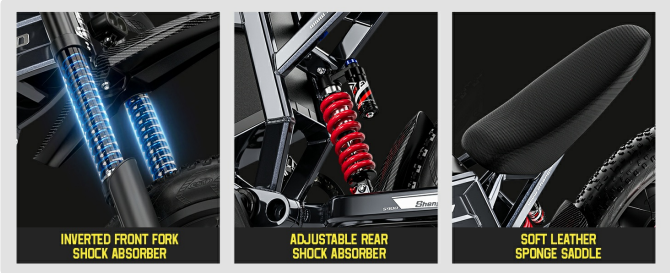


Image: Key dimensions of the Shengmilo S900 electric bike for reference.

9. Warranty & Support

Shengmilo is committed to providing quality products and customer service. Please review our warranty policy and contact information for support.

Warranty Policy:

- **Frame:** 1-year warranty.
- **Electrical Components (Motor, Controller, Battery, Charger, Electric Accelerator, Pedal Assist Sensor):** 6-month warranty.
- **Display Instrument:** 12-month warranty.
- **Basic Parts (e.g., Flywheel):** 3-month warranty.
- **Wearing Parts (e.g., Tires, Brakes):** Not covered by maintenance and replacement services.

Customer Support:

If you have any questions, require repairs, spare parts, or assembly assistance, please contact us:

- **Contact Method:** Please contact the after-sales service staff of our store through your order page. Provide relevant photos and videos of the issue. We aim to respond within 12 hours with a suitable solution.
- **Local Repair Option:** If the situation requires immediate attention, you may visit a local bicycle shop for maintenance. We will bear the maintenance cost.