Funhang EB-S1

Funhang Electric Bike EB-S1 User Manual

Model: EB-S1

Introduction Safety Guidelines Components Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

The Funhang EB-S1 Electric Bike is designed for adults seeking a versatile and robust e-bike experience, suitable for various terrains including city streets, beaches, snow, and mountain trails. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your new electric bicycle.
Equipped with a powerful 750W peak motor, a long-lasting 48V 13AH removable battery, and 26-inch fat tires, the EB-S1 offers a comfortable and efficient ride. Key features include a front suspension fork, dual disc brakes, an integrated lighting system with turn signals, a rear cargo rack, and a 7-speed gear system.

2. Safety Guidelines

Always prioritize safety when operating your electric bike. Failure to follow these guidelines may result in serious injury or damage to the bike.

- **Wear a Helmet:** Always wear an approved bicycle helmet that fits properly.
- **Pre-Ride Check:** Before each ride, inspect brakes, tires (pressure and condition), lights, and ensure all quick releases and fasteners are secure.
- **Understand Local Laws:** Familiarize yourself with and obey all local traffic laws and regulations regarding electric bicycles.
- **Weather Conditions:** Exercise caution in wet or slippery conditions. Braking distance increases significantly.
- **Visibility:** Use the integrated headlight and taillight, especially during low-light conditions. The turn signals enhance visibility when changing direction.
- **Weight Limit:** Do not exceed the maximum load capacity of 330 lbs (150 kg).
- **Age and Skill:** This e-bike is intended for adult use. Ensure you have the necessary riding skills and experience.
- **Battery Safety:** Do not tamper with the battery. Charge only with the provided charger in a well-ventilated area. Avoid extreme temperatures.

3. Product Components

The Funhang EB-S1 Electric Bike features a robust design with several key components contributing to its performance and safety.

Overall View



This image displays the complete Funhang EB-S1 Electric Bike, showcasing its fat tires, sturdy frame, integrated battery, front suspension, and rear cargo rack. The bike is black with blue accents.

Powerful Brushless Motor



A detailed view of the 500W nominal (1000W peak) brushless motor, located in the rear wheel hub. This motor provides powerful assistance for climbing hills and reaching speeds up to 25 MPH.

Large Capacity Removable Battery



This image highlights the 48V 13AH IPX5 waterproof Li-ion battery, integrated into the bike's frame. It is removable for convenient charging and offers a range of up to 60 miles on a single charge.

All-Terrain Fat Tires & Suspension



A view of the 26" x 4.0" puncture-resistant fat tire and the lockable aluminum front suspension fork. These features provide excellent traction and a comfortable ride across diverse terrains like city roads, beaches, snow, and mountains.

Control & Safety Features



This composite image shows the integrated headlight and taillight with turn signals for enhanced visibility, the clear LCD display showing battery life and speed, the 7-speed shifter for manual gear changes, and the sturdy rear cargo rack with an adjustable seat.

Riding Modes



An illustration detailing the five distinct riding modes: Bicycle Mode (pedal only), Pedal Assist Mode (1-5 levels), Throttle-Only Mode, Cruise Mode, and Booster Mode (for pushing the e-bike with ease).

E-Bike Size Guide



This image provides key dimensions of the EB-S1 electric bike and indicates the recommended rider height range of 5'3" to 6'1", along with the maximum load capacity of 330 lbs.

4. Setup and Assembly

The Funhang EB-S1 electric bike arrives 85% pre-assembled. The remaining assembly steps are straightforward and can be completed with the included tools. Please follow these instructions carefully.

4.1 Unboxing and Inspection

1. Carefully remove all components from the packaging.
2. Inspect all parts for any signs of damage during shipping. Contact customer support immediately if any damage is found.
3. Verify that all components listed in the packing list are present.

4.2 Assembly Steps

1. **Install the Front Wheel:** Align the front wheel with the fork dropouts. Ensure the brake rotor is correctly seated

within the brake caliper. Secure the wheel using the quick-release skewer or axle nuts.

2. **Install the Handlebar:** Attach the handlebar to the stem, ensuring it is centered and the brake levers and shifters are in a comfortable position. Tighten the stem bolts securely.
3. **Install the Pedals:** Identify the left (L) and right (R) pedals. The left pedal threads counter-clockwise, and the right pedal threads clockwise. Apply a small amount of grease to the threads and tighten them firmly with a wrench.
4. **Install the Seat Post:** Insert the seat post into the frame's seat tube. Adjust the seat height to a comfortable riding position where your feet can touch the ground when stopped. Secure with the quick-release lever.
5. **Attach Fenders and Rear Rack:** If not pre-installed, attach the front and rear fenders and the rear cargo rack using the provided screws and brackets.
6. **Initial Battery Charge:** Before your first ride, fully charge the battery. Refer to the "Battery Charging" section for detailed instructions.
7. **Pre-Ride Safety Check:** Perform a thorough safety check as outlined in the "Safety Guidelines" section before your first ride.

Note: A detailed assembly video may be available on the product page or manufacturer's website for visual guidance.

5. Operating Instructions

5.1 Battery Charging

- Ensure the bike is turned off.
- The battery can be charged while installed on the bike or removed. To remove, unlock it with the key and slide it out.
- Connect the charger to the battery's charging port, then plug the charger into a standard wall outlet.
- The charger indicator light will typically be red during charging and turn green when fully charged.
- A full charge takes approximately 6.5 hours. Do not overcharge.
- Always use the original charger provided by Funhang.

5.2 Powering On/Off and LCD Display

- **Power On:** Press and hold the power button on the LCD display for a few seconds until the display illuminates.
- **Power Off:** Press and hold the power button again until the display turns off.
- **LCD Display:** The smart LCD display shows essential information such as battery level, current speed, Pedal Assist System (PAS) level, trip distance, and total mileage. Refer to the display's specific manual for detailed functions and settings.

5.3 Riding Modes and PAS Levels

The EB-S1 offers 5 distinct riding modes and 5 levels of pedal assist (PAS) to customize your riding experience:

1. **Throttle Mode:** Twist the throttle on the handlebar to engage the motor and propel the bike without pedaling. This mode is ideal for quick acceleration or when you need a break from pedaling.
2. **Pedal Assist Mode (PAS):** This mode provides motor assistance as you pedal. Use the '+' and '-' buttons on the display to select PAS levels from 1 (minimal assistance) to 5 (maximum assistance). Higher PAS levels provide more power and reduce the effort required to pedal.
3. **Booster Mode:** Allows the e-bike to travel at approximately 3.73 miles/h (6 km/h) without pedaling, useful for walking the bike uphill or through crowded areas.
4. **Cruise Mode:** Maintain your desired speed without continuously holding the throttle. Activate this mode according to the LCD display's instructions.
5. **Normal Bike Mode:** The motor assistance is off, and the bike operates like a traditional bicycle, powered solely by

your pedaling.

5.4 Gear Shifting (7-Speed)

The 7-speed mechanical gear system allows you to adjust your pedaling effort to match terrain and speed. Use the shifter on the handlebar to change gears:

- Shift to a lower gear (larger cog on the rear wheel) for easier pedaling on inclines or when starting from a stop.
- Shift to a higher gear (smaller cog on the rear wheel) for faster speeds on flat terrain or downhill.
- Always pedal lightly while shifting to ensure smooth gear changes and prevent damage to the drivetrain.

5.5 Lights and Turn Signals

- **Headlight & Taillight:** Activate the integrated LED headlight and taillight using the controls on the handlebar or LCD display. Use them during low-light conditions or at night for visibility.
- **Turn Signals:** The unique turn signals (integrated into the taillight) can be activated to indicate your turning intentions to other road users, enhancing safety.

6. Maintenance

Regular maintenance is crucial for the longevity, performance, and safety of your Funhang EB-S1 electric bike.

6.1 Battery Care

- **Regular Charging:** Charge the battery regularly, even if the bike is not used frequently, to maintain battery health. Avoid letting the battery completely drain.
- **Storage:** If storing the bike for an extended period, charge the battery to 50-70% and store it in a cool, dry place. Recharge every 1-2 months.
- **Temperature:** Avoid exposing the battery to extreme hot or cold temperatures.
- **Cleaning:** Wipe the battery casing with a damp cloth. Do not spray water directly onto the battery or charging port.

6.2 Tires

- **Tire Pressure:** Check tire pressure before each ride. Maintain the recommended pressure (usually indicated on the tire sidewall) for optimal performance and puncture resistance.
- **Tread Wear:** Inspect tires for excessive wear, cuts, or embedded objects. Replace worn or damaged tires promptly.

6.3 Brakes

- **Brake Pad Wear:** Regularly inspect brake pads for wear. Replace them when they are thin or show signs of damage.
- **Brake Lever Feel:** Ensure brake levers feel firm and responsive. If they feel spongy or require excessive force, the brakes may need adjustment or bleeding.
- **Rotor Condition:** Check brake rotors for warping or damage. Keep them clean and free of oil or grease.

6.4 Drivetrain (Chain, Gears)

- **Chain Lubrication:** Lubricate the chain regularly, especially after riding in wet or dusty conditions. Use a bicycle-specific chain lubricant.
- **Cleaning:** Keep the chain, cogs, and derailleur clean to ensure smooth shifting and prevent premature wear.
- **Gear Adjustment:** If shifting becomes rough or gears skip, the derailleur may need adjustment. Consult a bike

mechanic if unsure.

6.5 General Cleaning and Inspection

- **Cleaning:** Clean the bike regularly with a damp cloth and mild soap. Avoid high-pressure washing, especially near electrical components.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases to ensure they are properly tightened.
- **Suspension:** Keep the front suspension fork clean. Refer to the fork manufacturer's guidelines for specific maintenance.

7. Troubleshooting

This section addresses common issues you might encounter with your Funhang EB-S1 electric bike. For problems not listed here or if solutions do not work, please contact customer support.

Problem	Possible Cause	Solution
Bike does not power on.	Battery not charged. Battery not properly seated/locked. Loose electrical connection.	Charge the battery fully. Ensure battery is fully inserted and locked into the frame. Check all visible cable connections for tightness.
Motor not assisting.	PAS level set to 0 or Normal Bike Mode. Battery low or depleted. Brake levers engaged (safety cut-off). Loose motor cable connection.	Increase PAS level or switch to Throttle Mode. Recharge the battery. Ensure brake levers are fully released. Check motor cable connection at the rear wheel.
Brakes squeak or feel weak.	Contaminated brake pads/rotors. Worn brake pads. Brake adjustment needed.	Clean rotors and pads with isopropyl alcohol. Replace brake pads. Adjust brake caliper or cable tension.
Gears are skipping or not shifting smoothly.	Dirty or dry chain. Derailleur out of adjustment. Bent derailleur hanger.	Clean and lubricate the chain. Adjust the derailleur limit screws and cable tension. Inspect derailleur hanger for bends; replace if necessary.

8. Technical Specifications

Feature	Detail
Model	EB-S1
Motor	500W Brushless (750W Peak)
Battery	48V 13AH (624WH) Removable Li-ion, IPX5 Waterproof
Max Speed	Up to 21.7 MPH (approx. 25 MPH unlocked)

Feature	Detail
Range	55-60 miles (Pedal Assist Mode), 28-30 miles (Full Electric Mode)
Charging Time	Approx. 6.5 hours
Frame Material	Aluminum Alloy
Tires	26" x 4.0" Puncture-Resistant Fat Tires
Suspension	Front Lockable Aluminum Suspension Fork
Brakes	180mm Dual Disc Brakes
Gears	7-Speed Shifting Gears
Riding Modes	5 (Throttle, Pedal Assist, Booster, Cruise, Normal Bike)
Max Load Capacity	330 lbs (150 kg)
E-bike Weight	68.3 lbs (31 kg)
Recommended Rider Height	5'3" - 6'1"
Special Features	Rear Rack, Fenders, Turn Signal, LED Headlight, Taillight, Electric Horn, LCD Display

9. Warranty and Customer Support

9.1 Warranty Information

The Funhang EB-S1 Electric Bike comes with a**12-month warranty** from the date of purchase. This warranty covers manufacturing defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, accidents, unauthorized modifications, or normal wear and tear.
Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For any inquiries, technical support, warranty claims, or assistance with assembly or operation, please do not hesitate to contact Funhang customer service. Our team is dedicated to providing prompt and helpful support.
Contact information (e.g., email, phone number, website) can typically be found on the product packaging, purchase receipt, or the official Funhang website.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

Where is the speed limiter located on the Funhang EB-S1 electric bike battery?

Based on the Funhang EB-S1 manual and product specifications, the speed limiter is not a physical wire located inside the battery casing. The manual explicitly warns: "Do not tamper with the battery."Instead of a...

Read full answer

On a Funhang EB-S1 electric bike, how do I use the computer manual screen to set the speed limit from 21 mph to 25 mph?

The Funhang EB-S1 is designed with a default top speed of approximately 21.7 MPH, but the manufacturer indicates it can be unlocked to reach up to 25 MPH. While the specific button sequence for...

Read full answer