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aostirmotor S07-B

AOSTIRMOTOR 750W Electric Bike User Manual

Model: S07-B

Brand: aostirmotor

INTRODUCTION

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your AOSTIRMOTOR 750W Electric Bike. Please read it thoroughly before your first ride and keep it for future reference.

The AOSTIRMOTOR S07-B electric bike features a powerful 750W (Peak 850W) brushless motor, 48V 13Ah removable lithium battery, and 26"x4" fat tires, designed for various terrains including beach, snow, rough terrain, and street. It offers three riding modes: pedal assist, pure throttle, and normal bike mode.



Figure 1: AOSTIRMOTOR 750W Electric Bike (Model S07-B)

SAFETY INFORMATION

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

- Always wear a helmet that meets safety standards.
- Perform a pre-ride inspection before each use, checking brakes, tires, battery, and all connections.
- Familiarize yourself with local laws and regulations regarding electric bikes.
- Do not ride under the influence of alcohol or drugs.
- Adjust your speed to suit road conditions, weather, and your skill level.
- Ensure the battery is securely locked to the frame before riding.
- Be aware of your surroundings and other road users.

COMPONENTS OVERVIEW

Understand the main components of your electric bike for proper operation and maintenance.



Frame and Dimensions: The lightweight aluminum alloy frame provides durability and stability. Refer to the diagram for key dimensions such as total length (76 inches), handlebar height (44 inches), wheel size (26 inches), and recommended rider height (5.4-6.5 FT).



750W Brushless Motor: The powerful 750W (Peak 850W) high-speed brushless motor delivers up to 85N·M of torque, enabling a maximum speed of 28 MPH. It is designed for high torque, dustproof, and waterproof performance (IP65 protection level).



48V 13Ah Lithium Battery: This removable, large-capacity lithium battery offers 4-6 hours fast charging. It can be securely locked to the frame and is waterproof, allowing for convenient charging at home or office. A spare battery

can be purchased separately for extended trips.



26" x 4.0" Fat Tires & Front Suspension: The wear-proof fat tires provide excellent grip and skid resistance, making the bike suitable for multiple terrains. The high-strength lockable suspension front fork effectively reduces frame vibration for a smoother ride.



SW-U-LCD Display: The intelligent HD LCD display clearly shows essential riding data such as speed, power, mileage, and electricity. It also includes a convenient USB port for charging your mobile devices while riding.



Shimano 7-Speed Gear & Disc Brakes: The precise and sensitive SHIMANO-7 speed shift gear adapts to rough conditions and accommodates inclines. Mechanical disc brakes ensure quick and stable stopping, greatly shortening braking distance for enhanced safety.

SETUP

Your AOSTIRMOTOR electric bike is 95% pre-assembled. The remaining assembly steps are straightforward and can be completed with the included tools.

Assembly Steps:

1. **Unboxing and Inspection:** Carefully remove the bike and all components from the packaging. Inspect for any shipping damage.
2. **Front Wheel Installation:** Attach the front wheel to the fork, ensuring the disc brake rotor aligns correctly with the caliper. Secure the quick-release skewer or axle nuts.
3. **Handlebar Installation:** Mount the handlebar to the stem, ensuring proper alignment and tightening all bolts securely.
4. **Pedal Installation:** Identify the left (L) and right (R) pedals. Thread them into the crank arms (left pedal is reverse-threaded). Tighten firmly with a wrench.
5. **Seat Post and Saddle:** Insert the seat post with the saddle attached into the frame's seat tube. Adjust the height for comfortable riding and secure with the quick-release clamp.
6. **Battery Installation:** Slide the battery into its compartment on the frame and lock it securely with the provided key.
7. **Final Checks:** Before your first ride, double-check all bolts and connections, inflate tires to recommended pressure, and test brakes and gears.

For a visual guide, please refer to the official installation video provided by the manufacturer. This video demonstrates the assembly process in detail.

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Video 1: S07-B Electric Bike Riding Experience - This video showcases the bike in various riding scenarios, demonstrating its capabilities and handling.

OPERATING INSTRUCTIONS

Riding Modes:

- **Normal Bike Mode:** Ride the bike like a traditional bicycle, using pedal power only. The motor is disengaged.
- **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. There are 5 levels of pedal assist, allowing you to choose the amount of motor support. This mode offers a riding range of 29+ miles.
- **Pure Throttle Mode:** Engage the motor directly using the throttle without pedaling. This mode provides a riding range of 19+ miles (actual range varies based on conditions).



Figure 2: Three Riding Modes

SW-U-LCD Display Usage:

The LCD display provides real-time information about your ride. Use the control buttons to navigate through different screens and settings.

- **Power On/Off:** Press and hold the power button to turn the display and bike system on or off.
- **Information Display:** The screen shows current speed, battery level, odometer (ODO), trip distance, and pedal assist level.
- **PAS Level Adjustment:** Use the '+' and '-' buttons to increase or decrease the pedal assist level (0-5).
- **USB Charging Port:** A USB port is integrated into the display for convenient charging of your mobile devices while riding.



Figure 3: SW-U-LCD Display

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your electric bike.

- **Tire Pressure:** Check tire pressure regularly and inflate to the recommended PSI (usually found on the tire sidewall).
- **Brakes:** Inspect brake pads for wear and ensure brake levers provide firm and responsive stopping power. Adjust as needed.
- **Chain:** Keep the chain clean and lubricated to prevent rust and ensure smooth gear changes.
- **Battery Care:** Charge the battery regularly, even when not in use, to maintain its health. Avoid fully discharging the battery. Store in a cool, dry place.
- **Fasteners:** Periodically check and tighten all bolts, nuts, and quick-release levers.
- **Cleaning:** Clean the bike with a damp cloth. Avoid high-pressure washing directly on electrical components.

TROUBLESHOOTING

This section addresses common issues you might encounter with your electric bike.

Problem	Possible Cause	Solution
Bike does not power on.	Battery not charged, battery not properly seated, power cable loose.	Charge battery, ensure battery is fully inserted and locked, check all cable connections.

Problem	Possible Cause	Solution
Motor not assisting.	PAS level is 0, throttle not engaged, brake levers engaged, motor connection loose.	Increase PAS level, twist throttle, ensure brake levers are fully released, check motor cable.
Short battery range.	Low tire pressure, riding uphill frequently, heavy load, cold weather.	Inflate tires to correct PSI, use lower assist levels on inclines, reduce load, battery performance may be reduced in cold.
Brakes squealing or ineffective.	Dirty brake pads/rotors, worn pads, misaligned caliper.	Clean pads/rotors, replace worn pads, adjust caliper alignment. Consult a professional if unsure.

If you encounter issues not listed here or require further assistance, please contact customer support.

SPECIFICATIONS

Feature	Detail
Bike Type	Electric Bike
Model Name	S07-B
Motor	750W (Peak 850W) Brushless Motor
Battery	48V 13Ah Lithium Battery
Max Speed	28 MPH
Riding Range (Pedal Assist)	29+ Miles
Riding Range (Pure Throttle)	19+ Miles
Wheel Size	26 Inches x 4.0 Inches (Fat Tire)
Frame Material	Aluminum Alloy
Suspension Type	Front Suspension
Gears	Shimano 7-Speed
Brake Style	Mechanical Disc Brakes
Recommended Height	5.4-6.5 FT
Maximum Weight Recommendation	300 Pounds
Item Weight	72.7 Pounds
Included Components	Electric Bike, Specification, Charger, Tool Kit

WARRANTY AND SUPPORT

AOSTIRMOTOR provides comprehensive after-sales protection for your electric bike.

- **Warranty:** All AOSTIRMOTOR Ebikes come with a 365-day warranty covering the battery, motor, controller, display, and other non-wearing parts. Some specifications also mention a 2-year manufacturer warranty. Please refer to your purchase documentation for the most accurate warranty terms.
- **Customer Support:** If you encounter any problems or have questions, you can contact the seller directly through your order. They aim to reply as soon as possible within 24 hours. You may also find contact information via email.
- **Assembly Assistance:** The electric bikes are 95% pre-assembled. An installation video is available on the product page to assist with the final assembly steps.
- **Return Policy:** The return policy and terms can be downloaded from the product pages. It is recommended to keep the original packaging for at least 1 month for possible returns.