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Cybervelo EK4MALblack

Cybervelo EK4MALblack 1000W Folding Electric Bike User Manual

Model: EK4MALblack | Brand: Cybervelo

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Cybervelo EK4MALblack 1000W Folding Electric Bike. Please read this manual thoroughly before your first ride and keep it for future reference.



Figure 1: Cybervelo EK4MALblack 1000W Folding Electric Bike. This image displays the complete electric bike in its unfolded state, showcasing its robust frame, fat tires, and integrated battery.

2. What's in the Box

Upon unpacking, ensure all the following components are present:

- Cybervelo EK4MALblack Electric Bike (partially assembled)
- 48V 20.8AH Removable Battery
- Battery Charger
- Tool Kit
- User Manual (this document)
- Pump

3. Setup and Assembly

Your Cybervelo electric bike is delivered 90% pre-assembled. The following steps detail the final assembly process. For a visual guide, please refer to the assembly video below.

3.1 Assembly Steps

1. **Unpack the Bike:** Carefully remove the bike and all components from the packaging.
2. **Install Handlebars:** Insert the handlebar stem into the fork tube and tighten the screws securely using the provided tool kit. Ensure the handlebars are aligned straight with the front wheel.
3. **Attach Pedals:** Identify the left (L) and right (R) pedals. Screw the pedals into the crank arms. Remember that the left pedal tightens counter-clockwise. Use a wrench to secure them firmly.
4. **Mount Front Wheel:** Align the front wheel with the fork. Ensure the brake rotor slides correctly into the brake caliper. Secure the wheel with the axle nuts, tightening them evenly.
5. **Install Front Fender and Headlight:** Attach the front fender to the fork using the provided screws. Mount the headlight to the designated bracket on the fork or handlebars and connect its cable.
6. **Install Seat Post and Seat:** Insert the seat post into the frame's seat tube. Adjust the height to your preference and secure it with the quick-release lever.
7. **Install Kickstand:** Attach the kickstand to the frame near the rear wheel, ensuring it is stable.
8. **Connect Battery:** Slide the 48V 20.8AH removable battery into its compartment on the frame. Lock it in place with the key and connect the power cable.
9. **Check Tire Pressure:** Use the included pump to inflate tires to the recommended pressure (check tire sidewall for details).

Video 1: Cybervelo 1000W Folding Electric Bike EK4 Install. This video provides a step-by-step guide on how to assemble the Cybervelo EK4MALblack electric bike, including attaching the handlebars, pedals, and connecting the battery.

4. Operating Instructions

Familiarize yourself with the controls and riding modes before your first ride.

4.1 Powering On/Off and Display

To power on the bike, press and hold the power button on the LCD display for a few seconds. The smart LCD display continuously shows real-time speed, mileage, and battery power. Use the '+' and '-' buttons to navigate through different modes and assist levels.



Figure 2: Intelligent LCD Display. This image highlights the bike's LCD display, showing various parameters like speed, mileage, and battery level, along with control buttons.

4.2 Riding Modes

The Cybervelo EK4MALblack offers three riding modes and five levels of pedal assist:

- **Pure Electric Mode:** Engage the throttle for motor-only propulsion.
- **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. Choose from 5 levels of assistance using the '+' and '-' buttons on the display.
- **Pure Pedal Mode (Classic Bike Mode):** Ride the bike like a traditional bicycle without motor assistance.



Figure 3: Three Riding Modes. This image illustrates the three available riding modes: pedal assist, classic bike, and pure electric, along with 5 PAS levels.

4.3 Shifting Gears

The bike is equipped with a 7-speed transmission system. Use the gear shifter on the handlebars to change gears according to terrain and desired speed.

4.4 Braking System

The Cybervelo EK4MALblack features front and rear dual disc brakes and EABS power-off brake for sensitive and reliable stopping power. Always apply brakes smoothly and evenly.



Figure 4: Front & Rear Disc Brakes. This image shows the disc brake system, emphasizing its quick, stable, and powerful progressive braking for various road conditions.

4.5 Folding and Unfolding

The bike's foldable design allows for easy storage and transport. To fold, release the quick-release levers on the frame and handlebar stem, then carefully fold the bike. Reverse the process to unfold, ensuring all levers are securely locked before riding.

Video 2: Easy to Fold and Unfold! This video demonstrates the simple process of folding and unfolding the Cybervelo electric bike for convenient storage and transport.

5. Maintenance

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

- **Battery Care:** Charge the 48V 20.8AH removable battery regularly, especially after long rides. Avoid completely draining the battery. Store in a cool, dry place.
- **Tire Maintenance:** Check tire pressure before each ride. Inspect tires for wear and tear, and replace if necessary.
- **Brake System:** Regularly inspect brake pads and rotors for wear. Ensure brake levers are responsive and cables are not frayed. Adjust as needed.
- **Chain Lubrication:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **General Cleaning:** Clean the bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components.

6. Troubleshooting

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Bike not powering on	Battery not charged or not properly connected/locked.	Ensure battery is charged and securely locked into place. Check power connection.

Problem	Possible Cause	Solution
Motor not assisting	PAS level set to 0, or motor cable disconnected.	Increase PAS level on the display. Check motor cable connections.
Brakes feel weak	Worn brake pads, loose cables, or air in hydraulic system.	Inspect and replace brake pads. Adjust cable tension. If hydraulic, seek professional service.
Unusual noises	Loose components, dry chain, or rubbing parts.	Check all bolts and connections. Lubricate chain. Inspect for rubbing parts.

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

7. Specifications

Feature	Detail
Bike Type	Commuting Bike, Electric Bike
Motor	1000W (1500W PEAK) High Speed Brushless Motor
Battery	48V 20.8AH Large Capacity Removable Battery
Max Speed	Up to 30+ MPH
Max Range	Up to 80+ Miles
Wheel Size	20 Inches Fat Tires
Gears	7-Speed Transmission System
Brakes	Front and Rear Dual Disc Brakes, EABS Power-off Brake
Suspension	Front Shock-Absorbing Fork
Frame Material	High Carbon Steel
Special Features	Foldable Design, LCD Display with Charging Port, Rear Rack
Max Load Capacity	330 LBS

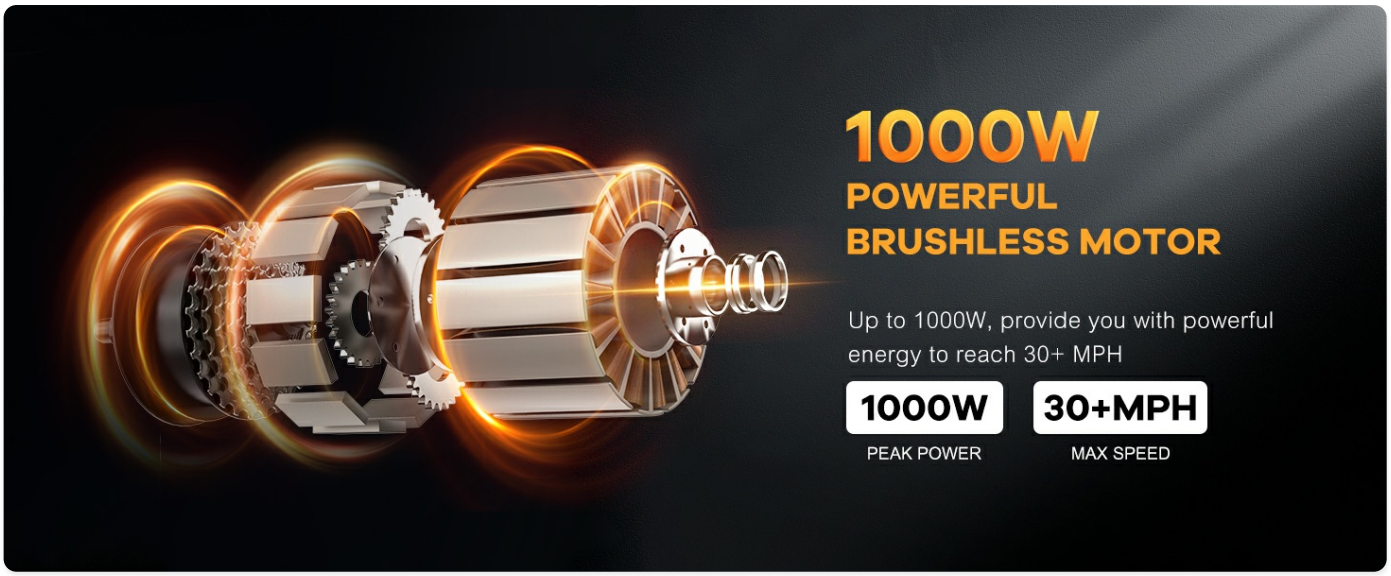


Figure 5: 1000W Powerful Brushless Motor. This image highlights the bike's 1000W (1500W peak) brushless motor, capable of reaching speeds over 30 MPH.



Figure 6: 48V 20.8AH High Capacity Battery. This image showcases the bike's large capacity removable battery, providing a range of up to 80 miles and featuring IPX4 waterproofing.



Figure 7: Front Fork Suspension. This image illustrates the front suspension fork, designed to absorb vibrations for a more comfortable and safer ride on various terrains.



Figure 8: 330LBS Load Capacity. This image highlights the bike's robust design, capable of carrying up to 330 pounds, suitable for various uses including carrying cargo or pets.



Figure 9: Safe Lighting System. This image shows the bright headlight and taillight, ensuring a safer and more enjoyable riding experience during nighttime.

8. Warranty and Support

Cybervelo offers a **one-year warranty** for the motor, battery, and controller of your electric bike. Our customer support team is available 24/7 to assist you with any questions or concerns. We are committed to providing reliable service.
For support, please refer to the contact information provided in your purchase documentation or visit the official Cybervelo website.

9. Product Showcase Video

Video 3: Electric Bike 4 Showcase Video. This video highlights various features and capabilities of the Cybervelo electric bike in action, demonstrating its performance and versatility.

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